

December 14, 2015

Project No. 04.76140022

PROJECT MEMORANDUM

To: Norm Abrahamson, PG&E

From: Dan O'Connell, Alfredo Fernandez and Thaleia Travarasrou, Fugro

Subject: 1-D Vp Profile below the DCPD Area

A one-dimensional (1-D) compression wave velocity (Vp) profile was calculated for the Diablo Canyon Power Plant (DCPD) Area. The 1-D Vp profile was calculated using the highest resolution three-dimensional (3-D) Vp models as a function of depth from Fugro (2014). At each depth Vp was calculated from the natural logarithm lateral average of all Vp values from 3-D cells within the polygon coordinates listed in Table 1 and shown on Figure 1. These coordinates are also provided in the electronic attachment in polygon_for_region_to_calculate_average_1d_velocity_depth.csv.

The calculated 1-D Vp extends to a depth of approximately 2900 meters and is provided in the electronic attachment in file GeoTomo_Ln_average_1d_Vp-depth_meters_dcpd.csv.

Table 1. Polygon vertices coordinates defining the area of the Fugro (2014) 3-D Vp model used to calculate the 1-D Vp-depth model

Longitude	Latitude
-120.8559	35.2088
-120.8550	35.2081
-120.8531	35.2077
-120.8523	35.2081
-120.8532	35.2101
-120.8534	35.2111
-120.8544	35.2132
-120.8549	35.2137
-120.8555	35.2136
-120.8562	35.2128
-120.8568	35.2119
-120.8560	35.2108
-120.8556	35.2099

REFERENCES

Fugro (2014), "2011-2012 Onshore 2D-3D Data Processing Report," Project Report PGEQ-PR-08.



**POLYGON DEFINING THE AREA OF THE FUGRO (2014) 3-D VP MODEL
USED TO CALCULATE THE 1-D VP-DEPTH MODEL**
1-D Vp Profile for the DCP Area
San Luis Obispo, California