

**Table L-2. Summary of Comparison with Borehole and CPT Data for Production Survey
Final Remedial Investigation Report
Casmalia Resources Superfund Site
Casmalia, California**

Seismic Line (Figure)	Number of Ground Truth Points	Conformity with Velocity Layering	Approximate Contact Velocity (fps)	Comments
SL-1 (L-9)	3	Good	5200	SL-1 shows potential low spot LOW-2 in the Burial Trench Area
SL-2 (L-10)	1	Good	5500	Ground truth points from previous investigation data
SL-3 (L-11)	0	na	5300*	*As predicted from velocity profile
SL-4 (L-12)	2	Excellent	5200	Ground truth points from RI data
SL-5 (L-13)	2	Fair	4800	RI data places contact at 5000 fps; previous investigation data puts contact at 4300 fps
SL-6 (L-14)	1	Good	5000	Image of PSCT at station 700 shows impressive survey resolution capabilities
SL-7 (L-15)	1	Fair	4200	Ground truth shows contact shallower (i.e., in lower velocity material) than expected on the basis of seismic survey. Higher-velocity material in the area would account for this result.
SL-8 (L-16)	4	Good	5300	Three of 4 ground truth points are off-line. Two of these 3 offline points, which show the contact to be alternately shallower and deeper than expected, have been disregarded. The remaining two points show excellent conformity with velocity layering along SL-8 and for the seismic survey as a whole.
SL-9 (L-17)	4	Fair	5500	Ground truth from graded area in western portion of line shows contact shallower (i.e., in lower velocity material) than expected on the basis of seismic survey. Higher-velocity material in the area would account for this result.
SL-10 (L-18)	3	Good	4500	Excellent conformity with velocity layering; however, ground truth shows contact shallower (i.e., in lower velocity material) than expected. SL-10 includes potential low spot LOW-1.
SL-11 (L-19)	3	Excellent	5500	Good agreement between RICPT-11 and RG-3B
SL-12 (L-20)	3	Fair	5000	Large discrepancy between contact picks from closely-spaced boreholes indicates complex geology in eastern portion of SL-12.
SL-13 (L-21)	1	Good	5200	Reported contact elevation from RICPT-02 is suspect as it shows contact to be unrealistically shallow.
SL-14	0	na	5500*	*As predicted from the velocity profile

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(L-22)				
SL-15 (L-23)	7	Fair	5500	Ground truth from graded storage area shows contact shallower (i.e., in lower velocity material) than seismic profiles predict.
SL-16 (L-24)	8	Good	5500	SL-16 shows potential low spot LOW-1; however, four CPT points obtained across low spot show no indication of depression in contact surface. It appears, therefore, that the depression in velocity layering at LOW-1 is the result of a velocity anomaly associated with a localized geologic condition or the nearby PSCT.