

**Appendix 4B**

Elevated PID Readings of Soil  
Samples

R06100 EIA for Decommissioning of CLS at Penny's Bay - Land Contamination

Elevated PID Readings of Soil Samples (>1.00ppm)

Table 1 Original Boreholes and Trenches

	Location	Depth (m) (bgl)	Background VOC Concentration (ppm)	Average VOC Concentration (ppm)
1	T11		0.1	11.3
2	IEC-T3 (2-3)	0.65	0.1	3.5
3	B-Q4	0.25 - 0.29	0.1	16.1
4	B-Q4	1.03 - 1.07	0.1	7.0
5	B-R4	4.69 - 4.79	0.1	3.6
6	B-W3	0.22 - 0.26	0.1	4000 <sup>a</sup>
7	B-Z4A	0.85 - 0.89	0.1	2.2
8	B-Z4A	1.65 - 1.75	0.1	7.5
9	SD-19A	3.13 - 3.18	0.1	6.3
10	B-B5	2.88 - 3.13	0.1	2.2
11	B-B19	0.27 - 0.31	0.0	2.1
12	B-B19	1.70 - 1.74	0.0	2.4
13	B-D1	1.85 - 2.04	0.1	49.5
14	B-D1	2.04 - 2.14	0.1	54.2
15	B-D1	2.13 - 2.24	0.1	15.5
16	B-D1	2.51 - 2.61	0.1	2.2
17	B-D4	1.61 - 1.64	0.1	147.0
18	B-D5	1.47 - 1.63	0.1	151.0
19	B-D6	0.98 - 1.03	0.1	132.0
20	B-D6	1.72 - 1.77	0.1	117.0
21	B-D8	0.31 - 0.34	0.1	53.1
22	B-D8	0.80 - 0.83	0.1	123.0
23	B-D8	1.62 - 1.65	0.1	77.7
24	B-D8	2.00 - 2.02	0.1	47.1
25	B-D15	0.27 - 0.31	0.1	3.2
26	B-D15	1.63 - 1.73	0.1	3.0
27	B-D25	0.28 - 0.32	0.1	2.5
28	B-D25	0.93 - 0.97	0.1	1.9
29	B-D25	1.65 - 1.75	0.0	87.7
30	B-L2	0.35 - 0.39	0.1	1.8
31	B-L2	1.00 - 1.04	0.1	1.2
32	B-L2	1.65 - 1.75	0.1	19.2
33	B-L5	0.30 - 0.34	0.1	11.9
34	B-L7	0.23 - 0.27	0.1	14.1
35	B-L34	0.24 - 0.27	0.1	1.1
36	B-L34	1.63 - 1.74	0.1	17.5
37	B-N2	0.22 - 0.26	0.1	8.3
38	B-N2	1.28 - 1.34	0.1	2.8
39	OB-2	7.65 - 7.75	0.1	3.4

Remark:

- a In the second trial, the PID reading was 0.00 ppm.

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Elevated PID Readings of Soil Samples (>1.00ppm)

Table 2 Additional Boreholes

	Location	Depth (m) (bgl)	Background VOC Concentration (ppm)	Average VOC Concentration (ppm)
1	AB-24	0.30 - 0.45	0.1	1.3
2	AB-34	1.60 - 1.70	0.1	19.8
3	AB-36	0.23 - 0.27	0.1	5.0
4	AB-38	0.25 - 0.29	0.0	22.4
5	AB-38	0.83 - 0.87	0.0	184.0
6	AB-38	1.70 - 1.75	0.0	297.0
7	AB-38	3.20 - 3.25	0.1	118.0
8	AB-39	1.60 - 1.70	0.1	35.6
9	AB-39	3.10 - 3.20	0.1	239.0
10	AB-39	4.60 - 4.70	0.1	16.8
11	AB-41	0.40 - 0.44	0.1	1.3
12	AB-41	0.83 - 0.87	0.1	1.3
13	AB-41	1.60 - 1.70	0.1	1.3
14	AB-41	3.10 - 3.20	0.1	1.3
15	AB-47	3.13 - 3.23	0.1	5.6
16	AB-75	0.23 - 0.27	0.0	21.0
17	AB-79	0.23 - 0.27	0.1	8.9
18	AB-79	0.83 - 0.87	0.1	12.5
19	AB-79	1.60 - 1.70	0.1	21.9
20	AB-79	3.10 - 3.20	0.1	8.5
21	AB-T4	1.60 - 1.70	0.1	16.0
22	AB-T11	0.27 - 0.31	0.1	4.4
23	AB-T15	0.80 - 0.84	0.1	1.3
24	AB-T20	0.55 - 0.59	0.9	4.0
25	AB-T20	0.80 - 0.84	1.8	6.5
26	AB-T20	1.75 - 1.85	6.5	40.1
27	AW-1A	0.23 - 0.27	0.2	6.0
28	AW-5	0.63 - 0.98	0.1	4.5
29	AW-9	0.15 - 0.30	0.1	59.0
30	AW-12	3.85 - 4.10	0.1	117.0
31	AW-12	7.40 - 7.65	0.1	7.4
32	AW-14	1.60 - 1.70	0.1	11.0
33	AW-14	2.00 - 2.10	0.1	14.0
34	AW-17	0.68 - 0.80	0.1	1.1