

APPENDIX A

Soil and Groundwater Tables



Table 1
Concentrations of Total Metals in Soil
Analytical Results

| Location ID | | Sample ID | Date Sampled | Sample Depth (m) | pH | Moisture (% w/w) | Total Metals | Parameter: | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|--------------------------------------|------------|--------------|------------------|-----------------|------------------|-------------------|----------------|----------|---------------------|--------|-----------------|------------------|-----------------------|---------|------------------------|--------|--------|------------------|-----------------|------------------|-----------|---------|-----------------|--------|-----------------|-----------|------------------|-----------------|--------|------------------------|-----------------------|------|----------|----------|------|
| | | | | | | | | Aluminum | Antimony | Arsenic | Barium | Beryllium | Boron | Cadmium | Calcium | Chromium | Cobalt | Copper | Iron | Lead | Magnesium | Manganese | Mercury | Molybdenum | Nickel | Phosphorus | Potassium | Selenium | Silicon | Silver | Sodium | Strontium | Tin | Titanium | Vanadium | Zinc |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCCSR RL ^{3.4} | | - | - | - | 20 ⁶ | 25 ⁷ | 1000 ⁸ | 4 ⁶ | - | 2-70 ⁹ | - | 60 ⁷ | 50 ⁶ | 90-150 ¹⁰ | - | 150-500 ¹¹ | - | - | 15 ¹² | 10 ⁶ | 100 ⁶ | - | - | 3 ⁶ | - | 20 ⁶ | - | - | 50 ⁶ | - | 200 ⁶ | 150-450 ¹³ | | | | |
| BCCSR CL ^{3.5} | | - | - | - | 40 ⁶ | 25 ⁷ | 1500 ⁸ | 8 ⁶ | - | 2-100 ¹⁴ | - | 60 ⁷ | 300 ⁶ | 90-1500 ¹⁵ | - | 150-2000 ¹⁶ | - | - | 40 ¹² | 40 ⁶ | 500 ⁶ | - | - | 10 ⁶ | - | 40 ⁶ | - | 300 ⁶ | - | - | 150-2000 ¹⁷ | | | | | |
| BH09-909 | BH09-909-1 | 10/20/2009 | 0.50-0.70 | 3.8 | 5.4 | 10000 | <5 | 7 | 49.3 | 1 | <1 | 4.1 | 4540 | 11.6 | 6.3 | 1510 | 18500 | 46 | 3900 | 195 | 0.231 | 18 | 11 | 597 | 1090 | 2.6 | 1800 | 3.6 | 782 | 38 | <5 | 651 | 39 | 687 | | |
| BH09-909 | BH09-909-2 | 10/20/2009 | 0.90-1.10 | 6.7 | 4.4 | 8590 | 5.2 | 4.9 | 53.4 | 0.9 | <1 | 2.2 | 3440 | 15.7 | 13.3 | 1420 | 17300 | 337 | 2910 | 347 | 0.271 | 8 | 18 | 230 | 2660 | 0.5 | 1750 | 5.8 | 735 | 23.8 | <5 | 727 | 26 | 218 | | |
| BH09-909 | BH09-909-3 | 10/20/2009 | 1.40-1.70 | 6.2 | 6.2 | 12100 | <5 | 1.3 | 31.1 | 0.9 | <1 | 2 | 5750 | 11.6 | 9.4 | 11100 | 13700 | 57 | 4030 | 200 | 0.057 | <1 | 111 | 333 | 1120 | <0.2 | 2200 | 1.3 | 819 | 39.1 | <5 | 682 | 43 | 607 | | |
| BH09-909 | BH09-909-6 | 10/20/2009 | 4.40-4.60 | 6.2 | 17.7 | 13600 | <5 | 3.4 | 44.3 | 1.1 | <1 | 3.2 | 6530 | 13.9 | 12 | 1340 | 20000 | 36 | 5220 | 341 | 0.059 | 1.8 | 35 | 562 | 1530 | 0.2 | 2290 | 3 | 862 | 46.5 | <5 | 798 | 60 | 471 | | |
| BH09-914 | BH09-914-1 | 10/14/2009 | 0.25-0.35 | 2.5 | 9.8 | 6130 | 14 | 156 | 67.2 | <0.1 | 22 | 5.1 | 1770 | 21.7 | 3.5 | 14500 | 105400 | 654 | 2800 | 161 | 8.72 | 380 | 18 | 546 | 1880 | 33.5 | 141 | 17 | 454 | 40.5 | 5.8 | 744 | 39 | 378 | | |
| BH09-914 | BH09-914-12 | 10/14/2009 | 3.50-3.70 | 5.8 | 11.1 | 17700 | <5 | 7.8 | 44 | 1.1 | 8.7 | 8.7 | 7610 | 18 | 10.6 | 3440 | 23900 | 15 | 5070 | 306 | 0.061 | 3.2 | 52 | 1040 | 1790 | 0.7 | 279 | 5.2 | 1060 | 53.5 | <5 | 747 | 73 | 924 | | |
| BH09-914 | BH09-914-2 | 10/14/2009 | 0.85-0.95 | 3.9 | 5.6 | 9390 | <5 | 9.4 | 42.2 | 0.8 | 5.1 | 1.4 | 3800 | 12.9 | 7.5 | 684 | 17400 | 21 | 3380 | 204 | 0.071 | 1.7 | 17 | 503 | 1110 | 0.7 | 73 | 4.4 | 498 | 28 | <5 | 646 | 41 | 108 | | |
| BH09-914 | BH09-914-3 | 10/14/2009 | 1.95-2.05 | 4.8 | 28.4 | 17100 | <5 | 6.7 | 31.9 | 1.2 | 8.6 | 6.5 | 3980 | 17.3 | 41.5 | 18600 | 23200 | 228 | 5060 | 419 | 0.077 | 2.2 | 147 | 443 | 1240 | 0.7 | 302 | 5.6 | 656 | 29.4 | <5 | 1290 | 71 | 2260 | | |
| BH09-914 | BH09-914-5 | 10/14/2009 | 3.50-3.70 | 5.5 | 9.2 | 13400 | <5 | 7 | 34 | 0.9 | 7.4 | 6.8 | 5690 | 13.8 | 8.8 | 2750 | 20400 | <5 | 4580 | 264 | 0.034 | 2.5 | 36 | 907 | 1340 | 0.7 | 230 | 4.1 | 770 | 38.3 | <5 | 542 | 58 | 680 | | |
| BH09-914 | BH09-914-6 | 10/14/2009 | 4.20-4.50 | 4.8 | 11.6 | 16000 | <5 | 2.4 | 43.2 | 0.8 | 6.9 | 4.5 | 6130 | 18.5 | 9 | 1730 | 15800 | 5.5 | 5300 | 240 | 0.04 | 1.4 | 30 | 833 | 1710 | <0.2 | 127 | 4.1 | 751 | 48.4 | <5 | 722 | 60 | 440 | | |
| BH09-926 | BH09-926-1 | 10/20/2009 | 0.30-0.50 | 4.8 | 7.3 | 9540 | <5 | 15 | 49.5 | 0.1 | <1 | 5 | 4620 | 21 | 6 | 989 | 17100 | 370 | 4090 | 215 | 0.332 | 8.8 | 11 | 473 | 870 | 0.7 | 1830 | 3.8 | 560 | 30.3 | <5 | 570 | 37 | 739 | | |
| BH09-926 | BH09-926-2 | 10/20/2009 | 0.70-0.90 | 4.5 | 6.9 | 11100 | <5 | 2.8 | 42.9 | 0.9 | <1 | 1.9 | 4810 | 11.6 | 6.4 | 505 | 15600 | 79 | 4600 | 230 | 0.092 | 2.5 | 7.5 | 500 | 1250 | <0.2 | 2130 | 2.6 | 701 | 32.7 | <5 | 667 | 43 | 208 | | |
| BH09-926 | BH09-926-4 | 10/20/2009 | 2.50-2.70 | 5.6 | 17.6 | 18500 | 6.9 | 2.7 | 58.3 | 1.6 | <1 | <0.5 | 6310 | 17.7 | 10.1 | 27.2 | 33100 | 21 | 6250 | 352 | 0.044 | 1.1 | 8.3 | 526 | 1860 | <0.2 | 3290 | 4.5 | 888 | 52.6 | <5 | 1060 | 80 | 35.7 | | |
| BH09-926 | BH09-926-6 | 10/20/2009 | 4.10-4.30 | 5.5 | 12.2 | 19200 | <5 | 4 | 51.5 | 1.5 | <1 | <0.5 | 7490 | 18.6 | 9.7 | 757 | 26400 | 25 | 5980 | 297 | 0.049 | 4.6 | 17 | 865 | 1360 | 0.3 | 2150 | 3.4 | 933 | 53.9 | <5 | 665 | 87 | 445 | | |
| BH09-939 | BH09-939-3 | 10/20/2009 | 2.05-3.20 | 6.3 | 19.7 | 18500 | 5.4 | 1.7 | 57.2 | 1.2 | <1 | 0.9 | 5990 | 13.6 | 11.1 | 120 | 20100 | 19 | 6230 | 284 | 0.031 | <1 | 30 | 407 | 1860 | <0.2 | 3220 | 3.1 | 800 | 49.1 | <5 | 1110 | 61 | 290 | | |
| BH09-939 | BH09-939-4 | 10/20/2009 | 3.45-3.70 | 5.7 | 10.7 | 17500 | 5.9 | 2.6 | 90.6 | 1.4 | <1 | 1.3 | 7210 | 16.7 | 10.8 | 1130 | 25700 | 25 | 5600 | 327 | 0.073 | 2.5 | 24 | 706 | 2570 | <0.2 | 3710 | 3.7 | 1160 | 59 | <5 | 1050 | 83 | 145 | | |
| BH09-941 | BH09-941-1 | 10/20/2009 | 1.10-1.40 | 6.3 | 8.6 | 11800 | 5.4 | 18.1 | 49.2 | 1.2 | <1 | 6.3 | 5390 | 12.9 | 8.6 | 7390 | 20200 | 425 | 3950 | 222 | 0.163 | 26 | 15 | 526 | 1280 | 2.8 | 3610 | 5.7 | 976 | 61.5 | <5 | 650 | 45 | 801 | | |
| BH09-941 | BH09-941-2 | 10/20/2009 | 1.95-2.20 | 7.6 | 5 | 11300 | <5 | 1.4 | 33 | 0.7 | <1 | 1.5 | 16900 | 7.4 | 6.1 | 199 | 10400 | 16 | 4030 | 178 | 0.01 | 1.2 | 16 | 309 | 1020 | <0.2 | 3440 | 1.7 | 1060 | 104 | <5 | 607 | 29 | 510 | | |
| BH09-941 | BH09-941-3 | 10/20/2009 | 2.75-3.00 | 6.7 | 20.7 | 16700 | <5 | 4.5 | 42.9 | 1.1 | 1.9 | 1 | 6850 | 13.4 | 10 | 73.7 | 18200 | 18 | 5850 | 329 | 0.013 | <1 | 10 | 682 | 1570 | <0.2 | 4250 | 2.8 | 990 | 56.4 | <5 | 894 | 56 | 312 | | |
| BH09-941 | BH09-941-4 | 10/20/2009 | 4.10-4.40 | 6.1 | 19.8 | 13700 | <5 | 3.7 | 37.2 | 0.9 | <1 | 1.5 | 5740 | 12 | 7.4 | 33.1 | 15300 | 18 | 4820 | 275 | 0.009 | <1 | 17 | 676 | 1360 | <0.2 | 3750 | 2.3 | 920 | 44.1 | <5 | 689 | 47 | 641 | | |
| BH13-946/947 | BH13-946/7-COMP 1 | 12/21/2013 | 0.14-0.75 | 4.07 | | 8710 | 29.6 | 81.2 | 95.7 | <0.40 | | 13.1 | 3350 | 21.2 | 6.78 | 7030 | 42300 | 3070 | 4840 | 247 | 2.32 | 116 | 17.1 | 423 | 918 | 12.4 | | 22.5 | 366 | 25 | 4.73 | 710 | 42.3 | 2600 | | |
| BH13-946/947 | BH13-946/7-COMP 2 | 12/21/2013 | 0.75-1.00 | 4.44 | | 9730 | 7.16 | 59 | 56.6 | <0.40 | | 6.55 | 3480 | 12.8 | 5.76 | 5820 | 31000 | 1050 | 3700 | 196 | 0.815 | 134 | 33.8 | 365 | 1140 | 26.8 | | 11 | 517 | 29 | 1.08 | 589 | 47.8 | 1010 | | |
| BH13-946/947 | BH13-946/7-COMP 3 | 12/21/2013 | 1.00-2.49 | 4.98 | | 12400 | 1.4 | 12.5 | 50.6 | <0.40 | | 4.78 | 4110 | 15.9 | 5.98 | 4820 | 25700 | 186 | 4250 | 201 | 0.103 | 25.2 | 15.4 | 467 | 1250 | 39.1 | | 2.24 | 702 | 39.4 | 0.51 | 785 | 64.4 | 737 | | |
| BH13-946/947 | BH13-946/7-COMP 4 | 12/21/2013 | 2.49-3.99 | 4.84 | | 16000 | 0.67 | 4.14 | 49.4 | <0.40 | | 6.64 | 4650 | 29.6 | 7.49 | 5140 | 19200 | 42.8 | 5250 | 239 | <0.050 | 3.4 | 20.5 | 504 | 1350 | <0.50 | | 0.484 | 706 | 39 | 0.39 | 906 | 65.6 | 742 | | |
| BH13-948/949 | BH13-948/9-COMP 1 | 12/21/2013 | 0.46-0.91 | 3.59 | | 7250 | 32.2 | 210 | 75.5 | <0.40 | | 1.8 | 2510 | 20 | 4.96 | 4920 | 60200 | 1690 | 3810 | 186 | 2.33 | 171 | 34.9 | 467 | 1390 | 19.1 | | 21.8 | 417 | 28.1 | 2 | 776 | 45.7 | 390 | | |
| BH13-948/949 | BH13-948/9-COMP 2 | 12/21/2013 | 0.91-1.22 | 5.85 | | 10100 | 0.84 | 8.23 | 44.3 | <0.40 | | 1.09 | 5470 | 16.9 | 6.05 | 787 | 18800 | 40.5 | 4100 | 220 | 0.269 | 5.85 | 33.3 | 417 | 1130 | <0.50 | | 0.694 | 589 | 37.1 | 0.42 | 553 | 51.1 | 139 | | |
| BH13-948/949 | BH13-948/9-COMP 3 | 12/21/2013 | 1.22-2.44 | 7.08 | | 10700 | 0.91 | 4.18 | 37.8 | <0.40 | | 7.61 | 6030 | 32.2 | 12.3 | 6210 | 17000 | 65.3 | 3780 | 220 | <0.050 | 3.77 | 143 | 367 | 1090 | <0.50 | | 0.676 | 539 | 39.8 | 0.33 | 566 | 46.6 | 1000 | | |
| BH13-948/949 | BH13-948/9-COMP 4 | 12/21/2013 | 2.44-3.35 | 7.02 | | 15500 | 1.21 | 6.34 | 41.2 | <0.40 | | 13.1 | 10400 | 306 | 11.4 | 1340 | 23800 | 79.7 | 5540 | 341 | <0.050 | 8.39 | 31.3 | 652 | 1420 | <0.50 | | 0.859 | 763 | 77 | 0.38 | 826 | 58.4 | 1300 | | |
| BH13-948 | BH13-948-1 | 12/21/2013 | 4.57-4.72 | 6.19 | 14.9 | 16200 | 7.7 | 7.3 | 81.8 | <1 | <1 | 10.3 | 6770 | 30.1 | 20.5 | 1050 | 48400 | 23 | 5710 | 1460 | 0.035 | 15 | 34 | 870 | 2520 | 0.3 | 642 | | 819 | 40.5 | <5 | 976 | 77 | 970 | | |
| MW-PSAT-8B | MW-071107-PSAT-8A | 11/8/2007 | 4.57-5.79 | 6.77 | | 12000 | <0.1 | 1.1 | 46.3 | <0.1 | | 1.04 | 4500 | 23 | 5.9 | 23.4 | 17500 | 2.5 | 4720 | 213 | <0.05 | 2.2 | 10.5 | 601 | 1360 | <0.5 | | 0.14 | 578 | 30.7 | 0.2 | 402 | 44 | 97 | | |
| MW-31 | PEC MW-31 @ 0.5" - 1" | 2/5/2004 | 0.15-0.30 | 3.88 | 11.1 | 10800 | <80 | <80 | <2 | <0.2 | <2 | <8 | <200 | <8 | <8 | 22300 | 106000 | <80 | <200 | 3 | | <20 | <30 | <200 | <200 | <80 | <80 | <20 | <200 | <2 | <80 | 11 | <20 | 20 | | |
| MW-31 | PEC MW-31 @ 11" - 11.5" | 2/5/2004 | 3.30-3.45 | 4.79 | | | | | | | | <8 | | | | 6910 | | <80 | | | | | | | | | | | | | | | | 2250 | | |
| MW-31 | PEC MW-31 @ 11" - 11.5" | 2/5/2004 | 3.35-3.51 | 4.79 | 8.6 | 22200 | <80 | <80 | <2 | <0.2 | <2 | <8 | <200 | <8 | <8 | 6910 | 51400 | <80 | <200 | 3 | | <20 | <30 | <200 | <200 | <80 | <80 | <2 | <200 | <2 | <80 | 1190 | <20 | 2250 | | |
| MW-31 | PEC MW-31 @ 4.5" - 4.75" | 2/5/2004 | 1.35-1.43 | 5.27 | | | | | | | | 64.7 | | | | 84830 | | 1150 | | | | | | | | | | | | | | | | 12500 | | |
| MW-31 | PEC MW-31 @ 4.5" - 4.75" | 2/5/2004 | 1.37-1.45 | 5.27 | 7.9 | 13400 | 15 | 26 | 93.8 | <0.2 | <2 | 64.7 | 9200 | 18.8 | 34.8 | 84830 | 28300 | 1150 | 5380 | 301 | | 24 | 131 | 520 | 1450 | 9 | 335 | 8 | 439 | 62 | <8 | 910 | 77 | 12500 | | |
| MW-31 | PEC MW-31 @ 4.5" - 4.75" (PEC DUP-2) | 2/5/2004 | - | 5.49 | 12.3 | 13700 | 12 | 25 | 75 | <0.2 | <2 | 50.4 | 10300 | 20.7 | 34.4 | 94280 | 31100 | 868 | 5450 | 303 | | 27 | 125 | 549 | 1440 | 8 | 276 | 7 | 478 | 65.9 | <8 | | | | | |

Table 1
Concentrations of Total Metals in So
Analytical Results

| Location ID | Sample ID | Date Sampled | Sample Depth (m) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|--|--------------|------------------|------|------|-------|----|------|------|------|----|------|-------|------|------|------|-------|-----|------|-----|-------|----|------|------|------|------|-----|------|------|------|------|------|------|------|
| MW-32 | PEC MW-32 @ 27.5" - 28" (PEC DUP-3) | 2/5/2004 | - | 6.05 | 8.1 | 23800 | <8 | <8 | 64.7 | <0.2 | <2 | 1.8 | 10400 | 23.6 | 8 | 103 | 46100 | 39 | 6460 | 302 | 6 | 13 | 1120 | 2110 | <8 | 956 | <2 | 1270 | 101 | <8 | 959 | 98 | 213 | |
| MW-32 | PEC MW-32 @ 8" - 8.25" | 2/5/2004 | 2.40-2.48 | 4.41 | | | | | | | | 14.3 | | | | 3610 | | 52 | | | | | | | | | | | | | | 1480 | | |
| MW-32 | PEC MW-32 @ 8" - 8.25" | 2/5/2004 | 2.44-2.51 | 4.41 | 8 | 27600 | <8 | <8 | 58.3 | <0.2 | <2 | 14.3 | 5840 | 24.1 | 16.9 | 3610 | 35800 | 52 | 7690 | 423 | 5 | 39 | 700 | 1770 | <8 | 296 | <2 | 668 | 55.3 | <8 | 1270 | 106 | 1480 | |
| BH-829 | T-BH-829-0.4 | 3/11/2005 | 0.30-0.50 | 6.89 | 12.6 | 10400 | <5 | 2.9 | 38.2 | 0.2 | 3 | 2 | 9360 | 13.9 | 39.4 | 8940 | 18400 | 39 | 4630 | 229 | 0.016 | 3 | 666 | 423 | 1310 | 0.3 | 522 | <1 | 558 | 44.1 | 6 | 669 | 54 | 476 |
| BH-829 | T-BH-829-0.8 | 3/11/2005 | 0.70-0.90 | 7.56 | 15.3 | 8150 | <5 | 7.6 | 36.3 | <0.1 | 3 | <0.5 | 23600 | 11.9 | 10.5 | 3780 | 23000 | 123 | 3420 | 176 | 0.114 | 7 | 173 | 407 | 1070 | 0.6 | 349 | 2 | 637 | 125 | 7 | 504 | 35 | 178 |
| BH-829 | T-BH-829-4.3 | 3/15/2005 | 4.20-4.40 | 6.05 | 7.4 | 14000 | <5 | 2.5 | 65.5 | 0.4 | <1 | 1.6 | 6270 | 16.4 | 7.6 | 689 | 21900 | <5 | 5870 | 305 | 0.013 | 3 | 30 | 631 | 2320 | 0.3 | 733 | <1 | 770 | 42.2 | 6 | 855 | 55 | 238 |
| BH-837 | T-BH-837-0.3 | 3/13/2005 | 0.25-0.35 | 4.59 | 6.6 | 5150 | <5 | 10.2 | 53.1 | 0.1 | 1 | 0.8 | 2360 | 10.2 | 2.8 | 1280 | 18900 | 124 | 2550 | 123 | 0.052 | 6 | 4 | 466 | 2010 | 0.3 | 271 | <1 | 492 | 62.9 | <5 | 907 | 51 | 120 |
| BH-837 | T-BH-837-0.9 | 3/13/2005 | 0.85-0.95 | 4.51 | 10 | 11500 | <5 | 17.2 | 26.4 | 0.2 | 2 | 0.6 | 3880 | 11.5 | 5.2 | 850 | 15100 | 68 | 3340 | 186 | 0.037 | 3 | 16 | 381 | 892 | <0.2 | 392 | 2 | 483 | 28.9 | 5 | 469 | 36 | 80.6 |
| BH-837 | T-BH-837-2.0 | 3/13/2005 | 1.95-2.05 | 6.58 | 37.3 | 17500 | <5 | 9.2 | 46.7 | 0.2 | 9 | 1.6 | 10100 | 18.1 | 10 | 3090 | 22200 | 130 | 6320 | 289 | 0.065 | 9 | 17 | 762 | 1890 | 0.4 | 352 | <1 | 550 | 69.1 | 6 | 893 | 69 | 615 |
| BH-837 | T-BH-837-3.6 | 3/13/2005 | 3.50-3.70 | 6.49 | 10 | 11700 | <5 | 11.7 | 43.6 | <0.1 | 3 | 2 | 5870 | 17.3 | 8.2 | 3390 | 27400 | 196 | 4600 | 227 | 0.065 | 10 | 12 | 717 | 1650 | 0.6 | 350 | 2 | 547 | 43.2 | 5 | 646 | 61 | 317 |

Table 1 Notes

- (1) All values are reported as µg/g unless otherwise noted
- (2) - = No standard or not analyzed
- (3) BCCSR = BC Environmental Management Act, Contaminated Sites Regulation, B.C. Reg. 375/96, including amendments up to B.C. Reg. 6/2013; effective January 24, 2013
- (4) BCCSR RL = Schedules 4 (Generic) and/or 5 (Matrix), Column IV Residential, and/or Schedule 10, Column III, Agricultural, Urban Park, Residential Soil Standard
- (5) BCCSR CL = Schedules 4 (Generic) and/or 5 (Matrix), Column V Commercial, and/or Schedule 10, Column IV, Commercial, Industrial Soil Standard
- (6) Schedule 4, Generic Numerical Soil Standards
- (7) Schedule 5, Environmental Protection, Groundwater flow to surface water used by aquatic life, Marine
- (8) Schedule 5, Environmental Protection, Toxicity to soil invertebrates and plants
- (9) Cadmium varies with pH as follows for BCCSR RL, Schedule 5, Environmental Protection, Groundwater flow to surface water used by aquatic life, Marine:
 - 2 if pH<7
 - 3.5 if pH>=7 and pH<7.5
 - 35 if pH>=7.5 and pH<8
 Otherwise, Schedule 5, Environmental Protection, Toxicity to soil invertebrates and plants applies (70 ug/g).
- (10) Copper varies with pH as follows for BCCSR RL, Schedule 5, Environmental Protection, Groundwater flow to surface water used by aquatic life:
 - 90 if pH<5
 - 100 if pH>=5 and pH<5.5
 Otherwise, Schedule 5, Environmental Protection, Toxicity to soil invertebrates and plants applies (150 ug/g).
- (11) Lead varies with pH as follows for BCCSR RL, Schedule 5, Environmental Protection, Groundwater flow to surface water used by aquatic life:
 - 150 if pH<5.5
 - 250 if pH>=5.5 and pH<6
 Otherwise, Schedule 5, Human Health Protection, Intake of contaminated soil applies (500 ug/g).
- (12) Schedule 5, Human Health Protection, Intake of contaminated soil
- (13) Zinc varies with pH as follows for BCCSR RL, Schedule 5, Environmental Protection, Groundwater flow to surface water used by aquatic life, Marine:
 - 150 if pH<6.5
 - 300 if pH>=6.5 and pH<7
 Otherwise, Schedule 5, Environmental Protection, Toxicity to soil invertebrates and plants applies (450 ug/g).
- (14) Cadmium varies with pH as follows for BCCSR CL, Schedule 5, Environmental Protection, Groundwater flow to surface water used by aquatic life, Marine:
 - 2 if pH<7
 - 3.5 if pH>=7 and pH<7.5
 - 35 if pH>=7.5 and pH<8
 Otherwise, Schedule 5, Human Health Protection, Intake of contaminated soil applies (100 ug/g).
- (15) Copper varies with pH as follows for BCCSR CL, Schedule 5, Environmental Protection, Groundwater flow to surface water used by aquatic life:
 - 90 if pH<5
 - 100 if pH>=5 and pH<5.5
 - 200 if pH>=5.5 and pH<6
 - 1500 if pH>=6 as per PEC Remediation Strategy
 invertebrates and plants applies (250 ug/g).
- (16) Lead varies with pH as follows for BCCSR CL, Schedule 5, Environmental Protection, Groundwater flow to surface water used by aquatic life:
 - 150 if pH<5.5
 - 250 if pH>=5.5 and pH<6
 - 2000 if pH>=6 as per PEC Remediation Strategy
 applies (1000 ug/g).
- (17) Zinc varies with pH as follows for BCCSR CL, Schedule 5, Environmental Protection, Groundwater flow to surface water used by aquatic life, Marine:
 - 150 if pH<6.5
 - 300 if pH>=6.5 and pH<7
 - 2000 if pH>=7 as per PEC Remediation Strategy

Table 2
Summary of Groundwater Analytical Results Compared to CSR AW_M Standards

| | Location ID: | MW-31 | MW-31B | MW-31C | MW-32 | MW-32B | MW-32C | OW-13 | OW-13BR | OW-13C |
|---|--------------------------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | Sample ID: | MW-31 | MW-31B | MW-31C | MW-32 | MW-32B | MW-32C | OW-13 | OW-13BR | OW-13C |
| | Date Sampled: | 8/9/2013 | 8/9/2013 | 8/9/2013 | 8/27/2013 | 8/27/2013 | 8/27/2013 | 8/26/2013 | 8/26/2013 | 8/26/2013 |
| Parameter | BCCSR AW ^{3,4} | | | | | | | | | |
| Sample Info | | | | | | | | | | |
| Screen Top Elevation (mNVD) | - | -1.32 | -4.50 | -10.13 | -1.34 | -4.24 | -10.21 | 0.54 | -4.01 | -9.62 |
| Screen Bottom Elevation (mNVD) | - | -2.84 | -6.02 | -11.65 | -2.86 | -5.76 | -11.73 | -2.51 | -5.53 | -11.14 |
| Well Depth, To Bottom (m) | - | 5.986 | 9.721 | 15.274 | 5.998 | 9.224 | 15.267 | 5.771 | 8.663 | 13.765 |
| Well Depth, To Water (m) | - | 3.123 | 3.32 | 3.346 | 3.019 | 3.08 | 3.055 | 2.965 | 2.878 | 2.715 |
| Field Tests | | | | | | | | | | |
| Field Alkalinity (mg/L) | - | 80 | 104.5 | 74.4 | 4.9 | 34 | 34.1 | 53.3 | 81.8 | 56.5 |
| Field Conductance, Specific (uS/cm) | - | 590 | 209 | 64 | 427 | 184 | 240 | 1315 | 271 | 163 |
| Field Dissolved Oxygen (mg/L) | - | 0.66 | 0.73 | 3.17 | 0.14 | 0.1 | 0.21 | 0.39 | 0.47 | 0.88 |
| Field Iron, II (mg/L) | - | 0.33 | 0.10 | 0.06 | - | - | 0.01 | 0.06 | 0.03 | 0.00 |
| Field Iron, III (mg/L) | - | 0.85 | 0.07 | 0.03 | - | - | 0.00 | 1.77 | 0.00 | 0.01 |
| Field pH | - | 5.79 | 5.76 | 5.9 | 5.32 | 5.86 | 5.81 | 4.51 | 5.68 | 5.76 |
| Field Redox, Relative to SHE (mV) | - | 400.5 | 351 | 371.2 | 413.9 | 385.5 | 248.6 | 493 | 450.6 | 454.9 |
| Field Redox, Uncorrected (mV) | - | 200.5 | 151 | 171.2 | 213.9 | 185.5 | 48.6 | 293 | 250.6 | 254.9 |
| Field Temperature (°C) | - | 14.62 | 14.57 | 15.29 | 16.25 | 14.99 | 15.51 | 16.9 | 15.3 | 16.29 |
| Physical Tests | | | | | | | | | | |
| Alkalinity, Phenolphthalein (CaCO ₃) (mg/L) | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Alkalinity, to pH 4.5 (CaCO ₃) (mg/L) | - | 41.1 | 54.1 | 21.4 | - | 35.8 | 34.2 | - | 30.2 | 29.3 |
| Alkalinity, Total (CaCO ₃) (mg/L) | - | - | - | - | 10.3 | - | - | <0.2 | - | - |
| Conductivity (uS/cm) | - | 588 | 190 | 66 | 417 | 179 | 240 | 1270 | 262 | 156 |
| Hardness, Ca+Mg (CaCO ₃) (mg/L) | - | 149 | 62.1 | 8.7 | 99.6 | 50.7 | 61.5 | 546 | 86.6 | 55.2 |
| Hardness, Total (CaCO ₃) (mg/L) | - | 185 | 62.8 | 9.7 | 153 | 57.9 | 61.8 | 654 | 102 | 56.6 |
| pH | - | 6.22 | 6.48 | 6.53 | 5.98 | 6.65 | 6.61 | 4.72 | 6.24 | 6.44 |
| Total Dissolved Solids (mg/L) | - | 398 | 123 | 53 | 393 | 143 | 211 | 1270 | 201 | 134 |
| Dissolved Inorganics | | | | | | | | | | |
| Phosphorus (mg/L) | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Sulfur (mg/L) | - | 58.2 | 10.3 | 2.34 | 51.5 | 10.3 | 4.3 | 250 | 28.7 | 6.55 |
| Inorganics | | | | | | | | | | |
| Bromide (mg/L) | - | 0.2 | 0.09 | <0.05 | 0.11 | <0.05 | 0.08 | 0.48 | 0.08 | <0.05 |
| Chloride (mg/L) | - | 49 | 9.1 | 4.9 | 17.7 | 10.7 | 40 | 53 | 16.4 | 17.1 |
| Fluoride (mg/L) | 15.000 ⁵ | 0.25 | 0.04 | 0.03 | 0.08 | 0.08 | 0.02 | 0.3 | 0.07 | 0.02 |
| Nitrate (mg/L) | 400 ⁶ | 0.029 | 0.094 | 0.436 | 0.111 | 0.91 | 1.68 | 0.066 | 0.82 | 1.65 |
| Nitrite (mg/L) | 0.200-2.000 ⁷ | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Sulfate (mg/L) | 1000 ⁶ | 153 | 24.9 | 6.2 | 162 | 32 | 12.9 | 634 | 63 | 16.5 |

Table 2
Summary of Groundwater Analytical Results Compared to CSR AW_M Standards

| | Location ID: | MW-31 | MW-31B | MW-31C | MW-32 | MW-32B | MW-32C | OW-13 | OW-13BR | OW-13C |
|-------------------------|-------------------------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | Sample ID: | MW-31 | MW-31B | MW-31C | MW-32 | MW-32B | MW-32C | OW-13 | OW-13BR | OW-13C |
| | Date Sampled: | 8/9/2013 | 8/9/2013 | 8/9/2013 | 8/27/2013 | 8/27/2013 | 8/27/2013 | 8/26/2013 | 8/26/2013 | 8/26/2013 |
| Parameter | BCCSR AW ^{3,4} | | | | | | | | | |
| Dissolved Metals | | | | | | | | | | |
| Aluminum | - | 104 | 20.9 | 15.1 | 75.8 | 8 | 5.2 | 4080 | 43.7 | 17.1 |
| Antimony | 200 ⁶ | 0.08 | <0.05 | 0.63 | <0.05 | <0.05 | <0.05 | 0.05 | <0.05 | <0.05 |
| Arsenic | 125 ⁵ | 1.2 | 0.1 | 0.3 | 1.6 | 0.3 | 0.3 | 2.4 | 0.5 | 0.1 |
| Barium | 5000 ⁵ | 4.01 | 1.82 | 15.2 | 7.23 | 5.21 | 6.97 | 15.6 | 3.28 | 10.9 |
| Beryllium | 1000 ⁵ | 0.004 | <0.002 | <0.002 | 0.02 | 0.006 | 0.007 | 0.156 | 0.008 | 0.004 |
| Bismuth | - | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Boron | 50000 ⁶ | 60 | 30 | <10 | 30 | 20 | 10 | 110 | 30 | 10 |
| Cadmium | 1 ⁵ | 48.8 | 0.07 | 1.49 | 108 | 19.5 | 0.07 | 103 | 32.8 | 0.54 |
| Calcium | - | 51700 | 20800 | 2800 | 33400 | 17300 | 18700 | 184000 | 29500 | 19000 |
| Chromium | 150 ⁵ | 0.9 | <0.2 | <0.2 | <0.2 | <0.2 | 0.4 | 0.8 | <0.2 | <0.2 |
| Cobalt | 40 ⁶ | 44.7 | 0.271 | 0.413 | 32.3 | 5.03 | 0.464 | 110 | 15.8 | 0.554 |
| Copper | 20 ⁵ | 2159 | 1.9 | 55.9 | 5629 | 1041 | 0.49 | 16682 | 1785 | 534 |
| Iron | - | 1490 | 97 | 97 | 3100 | 106 | 12 | 2150 | 32 | <5 |
| Lead | 20 ⁵ | 2.89 | 0.18 | 1.37 | 0.12 | 1.76 | 0.36 | 0.97 | 0.08 | 0.18 |
| Lithium | - | 46.5 | 1.21 | 1.5 | 26.4 | 11.6 | 0.48 | 162 | 27.5 | 1.39 |
| Magnesium | - | 4800 | 2500 | 400 | 4000 | 1800 | 3600 | 20800 | 3100 | 1900 |
| Manganese | - | 779 | 168 | 37.7 | 631 | 92.2 | 27.4 | 4054 | 521 | 55.4 |
| Mercury | 1 ⁶ | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Molybdenum | 10000 ⁶ | 4.5 | 0.39 | 0.65 | 0.07 | 0.27 | 0.34 | 0.26 | 0.14 | 0.16 |
| Nickel | 83 ⁵ | 340 | 1.14 | 2.2 | 227 | 29 | 1 | 319 | 62.1 | 3.21 |
| Potassium | - | 12600 | 3100 | 600 | 9000 | 3700 | 2000 | 16800 | 5400 | 2300 |
| Selenium | 540 ⁵ | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Silicon | - | 8000 | 6710 | 1190 | 7630 | 4980 | 7680 | 14100 | 6240 | 6190 |
| Silver | 15 ⁵ | <0.02 | <0.02 | <0.02 | 0.02 | <0.02 | <0.02 | 0.06 | 0.02 | <0.02 |
| Sodium | - | 39200 | 9600 | 9600 | 14300 | 6600 | 17100 | 49700 | 11200 | 9200 |
| Strontium | - | 345 | 125 | 16.1 | 171 | 105 | 174 | 1087 | 163 | 109 |
| Thallium | 3 ⁶ | 0.016 | 0.006 | 0.018 | 0.022 | 0.017 | 0.025 | 0.049 | 0.028 | 0.02 |
| Tin | - | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.35 | 0.33 | 0.14 | 0.08 |
| Titanium | 1000 ⁶ | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Uranium | 1000 ⁵ | 0.283 | 0.093 | 0.029 | 0.15 | 0.04 | 0.034 | 0.701 | 0.016 | 0.041 |
| Vanadium | - | 1.3 | 0.43 | 0.31 | 0.17 | 0.17 | 0.19 | 0.45 | 0.2 | 0.2 |
| Zinc | 100 ⁵ | 15379 | 8.6 | 337 | 24502 | 3472 | 3.1 | 30993 | 6723 | 106 |

Table 2
Summary of Groundwater Analytical Results Compared to CSR AW_M Standards

| | Location ID: | WTI-2 | WTI-2B | WTI-2C | WTI-2D |
|---|--------------------------|-----------|-----------|-----------|-----------|
| | Sample ID: | WTI-2 | WTI-2B | WTI-2C | WTI-2D |
| | Date Sampled: | 8/26/2013 | 8/26/2013 | 8/26/2013 | 8/26/2013 |
| Parameter | BCCSR AW ^{3,4} | | | | |
| Sample Info | | | | | |
| Screen Top Elevation (mNVD) | - | 1.02 | -3.67 | -12.21 | -18.99 |
| Screen Bottom Elevation (mNVD) | - | -2.08 | -5.19 | -13.73 | -20.51 |
| Well Depth, To Bottom (m) | - | 5.294 | 8.128 | 16.815 | 13.548 |
| Well Depth, To Water (m) | - | 2.904 | 2.819 | 2.761 | 2.72 |
| Field Tests | | | | | |
| Field Alkalinity (mg/L) | - | 89.4 | 73.9 | 54.2 | 62.2 |
| Field Conductance, Specific (uS/cm) | - | 600 | 182 | 773 | 460 |
| Field Dissolved Oxygen (mg/L) | - | 0.31 | 0.1 | 0.16 | 0.37 |
| Field Iron, II (mg/L) | - | 0.01 | 0.02 | 0.00 | 0.00 |
| Field Iron, III (mg/L) | - | 0.03 | 0.03 | 0.01 | 0.12 |
| Field pH | - | 5.9 | 5.88 | 5.8 | 5.86 |
| Field Redox, Relative to SHE (mV) | - | 467.5 | 440.4 | 462.8 | 398.3 |
| Field Redox, Uncorrected (mV) | - | 267.5 | 240.4 | 262.8 | 198.3 |
| Field Temperature (°C) | - | 14.99 | 12.97 | 14.16 | 13.43 |
| Physical Tests | | | | | |
| Alkalinity, Phenolphthalein (CaCO ₃) (mg/L) | - | <0.2 | <0.2 | <0.2 | <0.2 |
| Alkalinity, to pH 4.5 (CaCO ₃) (mg/L) | - | 61 | 37.4 | 33.9 | 32.5 |
| Alkalinity, Total (CaCO ₃) (mg/L) | - | - | - | - | - |
| Conductivity (uS/cm) | - | 557 | 175 | 754 | 647 |
| Hardness, Ca+Mg (CaCO ₃) (mg/L) | - | 178 | 56.5 | 105 | 99.7 |
| Hardness, Total (CaCO ₃) (mg/L) | - | 204 | 63.9 | 106 | 100 |
| pH | - | 6.42 | 6.48 | 6.46 | 6.38 |
| Total Dissolved Solids (mg/L) | - | 429 | 129 | 545 | 494 |
| Dissolved Inorganics | | | | | |
| Phosphorus (mg/L) | - | <0.1 | <0.1 | <0.1 | <0.1 |
| Sulfur (mg/L) | - | 61.9 | 7.96 | 13.8 | 9.74 |
| Inorganics | | | | | |
| Bromide (mg/L) | - | 0.29 | 0.05 | 0.6 | 0.35 |
| Chloride (mg/L) | - | 34 | 16.2 | 183 | 151 |
| Fluoride (mg/L) | 15.000 ⁵ | 0.34 | 0.04 | 0.02 | 0.02 |
| Nitrate (mg/L) | 400 ⁵ | 0.174 | 1.18 | 1.88 | 1.51 |
| Nitrite (mg/L) | 0.200-2.000 ⁷ | <0.005 | <0.005 | <0.005 | <0.005 |
| Sulfate (mg/L) | 1000 ⁶ | 184 | 21.4 | 36 | 29 |

Table 2
Summary of Groundwater Analytical Results Compared to CSR AW_M Standards

| | Location ID: | WTI-2 | WTI-2B | WTI-2C | WTI-2D |
|-------------------------|-------------------------|-----------|-----------|-----------|-----------|
| | Sample ID: | WTI-2 | WTI-2B | WTI-2C | WTI-2D |
| | Date Sampled: | 8/26/2013 | 8/26/2013 | 8/26/2013 | 8/26/2013 |
| Parameter | BCCSR AW ^{3,4} | | | | |
| Dissolved Metals | | | | | |
| Aluminum | - | 53.4 | 916 | 7.6 | 2.1 |
| Antimony | 200 ⁶ | 0.2 | 0.07 | <0.05 | <0.05 |
| Arsenic | 125 ⁵ | 1.3 | 0.7 | 1.2 | 0.8 |
| Barium | 5000 ⁵ | 4.29 | 5.98 | 7.96 | 10.7 |
| Beryllium | 1000 ⁵ | 0.008 | 0.012 | 0.004 | <0.002 |
| Bismuth | - | <0.02 | <0.02 | <0.02 | <0.02 |
| Boron | 50000 ⁶ | 70 | 20 | 20 | 20 |
| Cadmium | 1 ⁵ | 64.9 | 5.3 | 0.6 | 0.05 |
| Calcium | - | 63800 | 19000 | 23700 | 24500 |
| Chromium | 150 ⁵ | <0.2 | 0.3 | 0.5 | 0.6 |
| Cobalt | 40 ⁶ | 29.7 | 2.47 | 0.053 | 0.23 |
| Copper | 20 ⁵ | 2616 | 245 | 5.07 | 1.05 |
| Iron | - | 29 | 1260 | <5 | <5 |
| Lead | 20 ⁵ | 10.4 | 12.3 | 0.15 | 0.14 |
| Lithium | - | 115 | 7.16 | 2.34 | 0.85 |
| Magnesium | - | 4500 | 2200 | 11200 | 9300 |
| Manganese | - | 1070 | 127 | 24 | 53.4 |
| Mercury | 1 ⁶ | <0.02 | <0.02 | <0.02 | <0.02 |
| Molybdenum | 10000 ⁶ | 1.44 | 0.96 | 0.17 | 0.21 |
| Nickel | 83 ⁵ | 212 | 10.6 | 3.02 | 1.49 |
| Potassium | - | 11200 | 3200 | 3900 | 3500 |
| Selenium | 540 ⁵ | <0.2 | <0.2 | <0.2 | <0.2 |
| Silicon | - | 8440 | 6580 | 8470 | 8220 |
| Silver | 15 ⁵ | 0.02 | 0.03 | <0.02 | <0.02 |
| Sodium | - | 26700 | 9200 | 105000 | 76700 |
| Strontium | - | 364 | 118 | 284 | 287 |
| Thallium | 3 ⁶ | 0.02 | 0.024 | 0.007 | 0.01 |
| Tin | - | <0.05 | <0.05 | <0.05 | <0.05 |
| Titanium | 1000 ⁶ | <2 | 17 | <2 | <2 |
| Uranium | 1000 ⁵ | 0.819 | 0.347 | 0.115 | 0.03 |
| Vanadium | - | 0.44 | 3.17 | 0.31 | 0.15 |
| Zinc | 100 ⁵ | 11467 | 991 | 109 | 2.9 |

Table 2
Summary of Groundwater Analytical Results Compared to CSR AWM Standards
Notes

- (1) All values are reported as µg/L unless otherwise noted
- (2) - = No standard or not analyzed
- (3) BCCSR = BC Environmental Management Act, Contaminated Sites Regulation, B.C. Reg. 375/96, including amendments up to B.C. Reg. 6/2013; effective January 24, 2013
- (4) BCCSR AW = Schedule 6, Column II Aquatic Life
- (5) Schedule 6, Generic Numerical Water Standards, Standard to protect marine and/or estuarine aquatic life (Schedule 6, Note 8)
- (6) Schedule 6, Generic Numerical Water Standards
- (7) Nitrite (mg/L) varies with Chloride in mg/L as follows for BCCSR AW, Schedule 6, Generic Numerical Water Standards:
 - 0.200 if Cl<2
 - 0.400 if Cl>=2 and Cl<4
 - 0.600 if Cl>=4 and Cl<6
 - 0.800 if Cl>=6 and Cl<8
 - 1.000 if Cl>=8 and Cl<10
 - 2.000 if Cl>=10

APPENDIX B

Borehole Logs



Log of Borehole: BH09-909

Project Name/No: PEC Sublease Area / 457-003.27

Client: Environment Canada

Date Drilled: October 20, 2009

Site Location: PEC Site, West Vancouver

Logged by: Andrei Novikov

Drilling Method: sonic

Drilling Company: Sonic Drilling Ltd



Sheet: 1 of 1

| SUBSURFACE PROFILE | | | | SAMPLE | | | | Backfill details | | |
|--------------------|--------|--|--|-----------|--------------|-------------|---------|------------------|-----|--|
| Depth | Symbol | Description | Depth/Elev (m) | Sample ID | Analysed Y,N | Sample Type | Vapour | | LEL | |
| | | | | | | | ppm | | % | |
| | | | | | | | 0250500 | 050100 | | |
| 0 | | Ground Surface | 0.00 | | | | | | | |
| 1 | | Sand and Gravel and Cobbles (Fill) Fine to coarse grained sand and fine to coarse, subrounded to subangular gravel, and cobbles, trace silt, dark greyish-brown, loose, poorly graded, dry to moist. | 0.21 | 1 | Y | G | | | | |
| 2 | | | | | | | | | | |
| 3 | | | Sand and Gravel Fine to coarse grained sand and fine, subangular gravel, trace silt, grey, medium dense, poorly graded, moist, Orange brown between 0.3 m - 0.46 m. Yellowish-brown between 0.46 m - 0.61 m. Greyish-brown between 0.67 m - 0.91 m. Big boulder at 0.91 m. | 0.91 | 2 | Y | G | | | |
| 4 | | | | | | | | | | |
| 5 | | | Sand and Gravel and Cobbles Fine to medium grained sand and fine to coarse, subrounded to subangular gravel, and cobbles, grey, loose, dry to moist. | 1.52 | 3 | Y | G | | | |
| 6 | | | | | | | | | | |
| 7 | | | Sand and Gravel and Cobbles Fine to medium grained sand and fine to coarse, subrounded to subangular gravel, and cobbles, grey, loose, dry to moist. | 2.41 | | | | | | |
| 8 | | | | | | | | | | |
| 9 | | | Sand Fine to medium grained, grey with green staining, loose, dry to moist. | | 4 | N | G | | | |
| 10 | | | | | | | | | | |
| 11 | | | Sand Silty Fine grained, brownish-grey, medium dense, moist. Some orange mottling between 2.46 m - 2.52 m. A 5 cm layer of black organic soil at 2.4 m. Predominantly medium grained sand below 2.9 m. | 3.20 | 5 | N | G | | | |
| 12 | | | | | | | | | | |
| 13 | | | Sand and Gravel and Cobbles Fine to coarse grained sand and fine to coarse, subangular to subrounded gravel, and cobbles, trace silt, greyish-brown, loose, poorly graded, moist. Wet below 3.35 m. Reddish-brown with increasing silt content between 4.3 m - 4.7 m. | | 6 | Y | G | | | |
| 14 | | | | | | | | | | |
| 15 | | | Yellowish-brown with increasing silt content between 5.3 m - 5.8 m. Brownish-grey between 5.8 m - 6.3 m. | | 7 | Y | G | | | |
| 16 | | | | | | | | | | |
| 17 | | | Orange-brown between 6.3 m - 7 m. | | 8 | N | G | | | |
| 18 | | | | | | | | | | |
| 19 | | | A big boulder at 7 m. | | 9 | Y | G | | | |
| 20 | | | | | | | | | | |
| 21 | | | End of Log | 7.62 | | | | | | |
| 22 | | | | | | | | | | |
| 23 | | | | | | | | | | |
| 24 | | | | | | | | | | |
| 25 | | | | | | | | | | |
| 26 | | | | | | | | | | |
| 27 | | | | | | | | | | |
| 28 | | | | | | | | | | |

Borehole location: Sublease Area

Borehole diameter: 0.1 m (4")

Borehole ground elevation: 3.59 mNVD

Borehole depth: 7.6 m (25')

Log of Borehole: BH09-914

Project Name/No: PEC Site Sublease Area / 457-003.27

Logged by: Andrei Novikov

Client: Environment Canada

Drilling Method: sonic

Date Drilled: October 14, 2009

Drilling Company: Sonic Drilling Ltd

Site Location: PEC Site, West Vancouver



Sheet: 1 of 1

| SUBSURFACE PROFILE | | | | SAMPLE | | | | Backfill details | |
|--------------------|--------|---|----------------|-----------|--------------|-------------|-----------|------------------|-----|
| Depth | Symbol | Description | Depth/Elev (m) | Sample ID | Analysed Y,N | Sample Type | Vapour | | LEL |
| | | | | | | | ppm | | % |
| | | | | | | | 0 250 500 | 0 50 100 | |
| 0 ft m | | Ground Surface | 0.00 | | | | | | |
| 1 | | Sand and Gravel Fine to coarse grained sand and fine to coarse, subangular to subrounded gravel, brown, medium dense, well graded, moist. | | 1 | Y | | | | |
| 2 | | | | 2 | Y | | | | |
| 3 | | Sand and Gravel Fine, trace medium and coarse grained sand, some gravel, trace silt, trace cobbles, yellowish-brown, medium dense, homogeneous, dry to moist. Increasing medium grained sand content, loose below 0.3 m. Brown between 0.76 m - 1 m. Brownish-grey between 1 m - 1.5 m. | 1.52 | | | | | | |
| 4 | | | | 3 | Y | | | | |
| 5 | | | 2.13 | 4 | N | | | | |
| 6 | | Sand Fine to medium, trace coarse grained, brownish-grey, loose, moist. Trace fine gravel. Layers of discoloration: (7.6 cm) of yellowish brown and (13 cm) of green below 1.7 m. A 7.6 cm layer of black organic soil, plastic, amorphous below 2.1 m. | 3.35 | | | | | | |
| 7 | | | | 5 | Y | | | | |
| 8 | | | | 6 | Y | | | | |
| 9 | | Sand and Gravel and Cobbles Fine to coarse, subangular to subrounded gravel and cobbles, and fine to coarse grained sand, trace silt, brown, loose, poorly graded, moist. Transitioning to grey and wet below 4.3 m. Transitioning to greyish-brown below 4.6 m. Wet, saturated below 4.9 m. Orange staining between 5.9 m - 6.2 m and 6.6 m - 7.3 m. Increasing fine grained sand content between 4.9 m - 5.5 m and 6.7 m - 7 m. | 7.32 | | | | | | |
| 10 | | | | 7.62 | 9 | Y | | | |
| 11 | | Sand and Gravel and Cobbles Medium to coarse, some fine grained sand and fine to coarse, subangular to subrounded gravel, and cobbles, brown, loose, homogeneous, wet, saturated. | 7.92 | | | | | | |
| 12 | | | | | 10 | Y | | | |
| 13 | | Gravel and Cobbles Fine to coarse, subangular to subrounded gravel and cobbles, some fine to coarse grained sand, trace silt, orange brown, loose, poorly graded, wet, saturated. Increasing sand content below 9.1 m. | | | | | | | |
| 14 | | | | 10.06 | 11 | Y | | | |
| 15 | | Sand and Gravel Medium grained sand and fine to coarse, subangular to subrounded gravel, grey, loose, wet, saturated. | 10.36 | | | | | | |
| 16 | | End of Log | | | | | | | |
| 17 | | | | | | | | | |
| 18 | | | | | | | | | |
| 19 | | | | | | | | | |
| 20 | | | | | | | | | |
| 21 | | | | | | | | | |
| 22 | | | | | | | | | |
| 23 | | | | | | | | | |
| 24 | | | | | | | | | |
| 25 | | | | | | | | | |
| 26 | | | | | | | | | |
| 27 | | | | | | | | | |
| 28 | | | | | | | | | |
| 29 | | | | | | | | | |
| 30 | | | | | | | | | |
| 31 | | | | | | | | | |
| 32 | | | | | | | | | |
| 33 | | | | | | | | | |
| 34 | | | | | | | | | |
| 35 | | | | | | | | | |
| 36 | | | | | | | | | |
| 37 | | | | | | | | | |
| 38 | | | | | | | | | |
| 39 | | | | | | | | | |
| 40 | | | | | | | | | |

Borehole location: PEC Site Sublease Area

Borehole diameter: 0.1 m (4")

Borehole ground elevation: 3.45 mNVD

Borehole depth: 10.4 m (34')

Log of Borehole: BH09-926

Project Name/No: PEC Sublease Area / 457-003.27

Client: Environment Canada

Date Drilled: October 20, 2009

Site Location: PEC Site, West Vancouver

Logged by: Andrei Novikov

Drilling Method: sonic

Drilling Company: Sonic Drilling Ltd



Sheet: 1 of 1

| SUBSURFACE PROFILE | | | | SAMPLE | | | | Backfill details | |
|--------------------|--------|---|----------------|-----------|--------------|-------------|-----------|------------------|----------|
| Depth | Symbol | Description | Depth/Elev (m) | Sample ID | Analysed Y,N | Sample Type | Vapour | | LEL |
| | | | | | | | ppm | | % |
| | | | | | | | 0 250 500 | 0 50 100 | |
| 0 ft m | | Ground Surface | 0.00 | | | | | | |
| 1 | | Sand and Gravel Fine to medium grained sand and fine, subangular to subrounded gravel, yellowish grey, medium dense, poorly graded, moist. | 0.00 | 1 | Y | G | | | SAND |
| 2 | | Coarse grained sand, some cobbles appear below 0.3 m. | -1.07 | | | | | | |
| 3 | | Grey between 0.5 m - 0.9 m. | 1.07 | 2 | Y | G | | | |
| 4 | | Transitioning to greyish-brown below 0.9 m. | -1.42 | | | | | | |
| 5 | | Sand and Gravel Fine grained sand and fine to coarse, subangular to subrounded gravel, dark grey, dense, poorly graded, moist. | -2.01 | | | | | | |
| 6 | | | 2.01 | | | | | | |
| 7 | | Organic Soil Organic-like soil and wood mulch, plastic, amorphous, black,. | -2.90 | 3 | N | G | | | |
| 8 | | | 2.90 | | | | | | |
| 9 | | Sand Fine grained, brownish-grey, medium dense, fissured, homogeneous, moist, some brown mottling. | -3.66 | 4 | Y | G | | | |
| 10 | | | 3.66 | | | | | | |
| 11 | | Sand silty between 2.3 m - 2.6 m. | | | | | | | |
| 12 | | Sand and Gravel Fine to coarse grained sand and fine to coarse, subangular to subrounded gravel, trace silt, dark greyish-brown, loose, poorly graded, moist. | | 5 | N | G | | | |
| 13 | | An orange staining (3 cm) at 3.4 m. | | | | | | | |
| 14 | | Increasing silt content below 3.4 m. | | | | | | | |
| 15 | | Sand and Gravel and Cobbles Fine to coarse grained sand and fine to coarse, subangular to subrounded gravel, and cobbles, some silt, greyish-brown, loose, poorly graded, wet, saturated. | | 6 | Y | G | | | |
| 16 | | | | | | | | | |
| 17 | | Yellowish-brown between 4.4 m - 4.9 m. | | 7 | Y | G | | | |
| 18 | | Orange between 4.9 m - 5.8 m. | | | | | | | |
| 19 | | | | | | | | | |
| 20 | | Transitioning to brown below 5.8 m. | | 8 | Y | G | | | |
| 21 | | | | | | | | | |
| 22 | | | | | | | | | |
| 23 | | | | | | | | | |
| 24 | | Orange between 6.9 m - 7.3 m. | | 9 | Y | G | | | |
| 25 | | Grey between 7.3 m - 8.8 m. | | | | | | | |
| 26 | | | | | | | | | |
| 27 | | | | | | | | | |
| 28 | | | | 10 | Y | G | | | |
| 29 | | | | | | | | | |
| 30 | | | | | | | | | |
| 31 | | | | | | | | | |
| 32 | | | | | | | | | |
| 33 | | | | | | | | | |
| 34 | | | | | | | | | |
| 35 | | | | | | | | | |
| 36 | | | | | | | | | |
| 37 | | | | | | | | | |
| 38 | | | | | | | | | |
| 39 | | End of Log | -10.97 | | | | | | |
| 40 | | | 10.97 | | | | | | |

Borehole location: Sublease Area

Borehole ground elevation: 3.10 mNVD

Borehole diameter: 0.1 m (4")

Borehole depth: 11.6 m (38')

Log of Borehole: BH09-939

Project Name/No: PEC Sublease Area / 457-003.27

Client: Environment Canada

Date Drilled: October 20, 2009

Site Location: PEC Site, West Vancouver

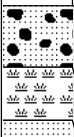















Logged by: Andrei Novikov

Drilling Method: sonic

Drilling Company: Sonic Drilling Ltd



Sheet: 1 of 1

| SUBSURFACE PROFILE | | | | SAMPLE | | | | Backfill details | |
|--------------------|---|--|----------------|-----------|--------------|-------------|-----------|------------------|--|
| Depth | Symbol | Description | Depth/Elev (m) | Sample ID | Analysed Y,N | Sample Type | Vapour | | LEL |
| | | | | | | | ppm | | % |
| | | | | | | | 0 250 500 | 0 50 100 | |
| 0 | | Ground Surface | 0.00 | | | | | | |
| 1 |  | Sand and Gravel Fine to coarse grained sand and fine to coarse, subangular to subrounded gravel, yellowish-brown, loose, poorly graded, dry to moist. Asphalt-like chunks throughout.. | 0.66 | 1 | N | G | | |  |
| 2 | | Graded to fine to coarse gravel, grey, loose, moist, wood debris, and green staining below 0.3 m. | 1.22 | | | | | | |
| 3 | | | 1.52 | | | | | | |
| 4 |  | Organic Soil Black, plastic, fibrous. | 2.32 | 2 | N | G | | | |
| 5 | | | | 3 | Y | G | | | |
| 6 | | | | | | | | | |
| 7 |  | Sand Fine grained, dark grey to black, homogeneous, dry to moist. Wood and metal debris. | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| 10 |  | Sand Fine to medium grained, yellowish-brown, loose, homogeneous, dry to moist. | | 4 | Y | G | | | |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |
| 13 |  | Greyish-brown between 2.0 m - 2.3 m. | | | | | | | |
| 14 | | | | | | | | | |
| 15 | | | | | | | | | |
| 16 |  | Sand and Gravel and Cobbles Fine to coarse grained sand and fine to coarse, subangular to subrounded gravel, and cobbles, trace silt, greyish-brown, medium dense, poorly graded, moist. | | 5 | N | G | | | |
| 17 | | | | | | | | | |
| 18 | | | | | | | | | |
| 19 |  | Wet below 3.2 m. | | 6 | Y | G | | | |
| 20 | | | | | | | | | |
| 21 | | | | | | | | | |
| 22 |  | Reddish-brown between 3.3 m - 4.1 m. | | 7 | N | G | | | |
| 23 | | | | | | | | | |
| 24 | | | | | | | | | |
| 25 |  | Yellowish-brown between 4.1 m - 5.8 m. | | 8 | N | G | | | |
| 26 | | | | | | | | | |
| 27 | | | | | | | | | |
| 28 |  | Brown with decreasing silt content below 7.1 m. | | 9 | Y | G | | | |
| 29 | | | | | | | | | |
| 30 | | | | | | | | | |
| 31 |  | Predominantly medium grained sand between 7.3 m - 7.6 m. | | | | | | | |
| 32 | | | | | | | | | |
| 33 | | | | | | | | | |
| 34 |  | Orange brown between 8.2 m - 8.5 m. Transitioning to greyish-brown below 8.5 m. | | 10 | N | G | | | |
| 35 | | | | | | | | | |
| 36 | | | | | | | | | |
| 37 |  | Sand Fine to coarse grained sand, some fine to coarse, subangular to subrounded gravel, brownish-grey, loose, homogeneous, wet, saturated. | 10.15 | | | | | | |
| 38 | | Bright orange layer (2.5 cm) at 10.2 m. | 10.52 | | | | | | |
| 39 | | | 10.82 | | | | | | |
| 40 |  | Silt Clayey Grey, firm, feasured, moist. Trace rootlets. | | | | | | | |
| 41 | | | | | | | | | |
| 42 | | | | | | | | | |
| 43 |  | Sand Fine grained, grey, medium dense to dense, homogeneous, wet. | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | End of Log | | | | | | | |

Borehole location: Sublease Area

Borehole ground elevation: 3.20 mNVD

Borehole diameter: 0.1 m (4")

Borehole depth: 11 m (36')

Log of Borehole: BH09-941

Project Name/No: PEC Sublease Area / 457-003.27

Client: Environment Canada

Date Drilled: October 20, 2009

Site Location: PEC Site, West Vancouver

Logged by: Andrei Novikov

Drilling Method: sonic

Drilling Company: Sonic Drilling Ltd



Sheet: 1 of 1

| SUBSURFACE PROFILE | | | | SAMPLE | | | | Backfill details | |
|--|--------|--|----------------|-----------|--------------|-------------|-----------|------------------|--|
| Depth | Symbol | Description | Depth/Elev (m) | Sample ID | Analysed Y,N | Sample Type | Vapour | | LEL |
| | | | | | | | ppm | | % |
| | | | | | | | 0 250 500 | | 0 50 100 |
| ft m | | | | | | | | | |
| 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 | | | | | | | | | |
| 0 | | Ground Surface | 0.00 | | | | | | <div><div></div><div>SAND</div><div></div><div>BENTONITE CHIPS</div></div> |
| 1 | | Sand and Gravel Fill) Fine to coarse grained sand and fine to coarse, subangular to subrounded gravel, trace silt, trace cobbles, dark greyish-brown, loose, poorly graded, dry to moist. | 0.70 | | | | | | |
| 2 | | Sand and Gravel Fine to coarse grained sand and fine to coarse, subangular to subrounded gravel, trace silt, trace cobbles, greyish-brown, loose, poorly graded, moist to dry. Shell debris. | | 1 | Y | G | | | |
| 3 | | A 5 cm layer of wood at 1.5 m. | 1.98 | 2 | Y | G | | | |
| 4 | | Sand Fine to medium grained, grey, loose, homogeneous, dry to moist. Trace shell debris with green staining. | 2.44 | | | | | | |
| 5 | | Sand Silty Greyish-brown with some orange and grey mottling, medium dense, homogeneous, moist. | 3.05 | 3 | Y | G | | | |
| 6 | | A 5 cm layer of black organic soil at 2.4 m. | | | | | | | |
| 7 | | Sand Medium to coarse grained, greyish brown, loose, homogeneous, moist. | 4.11 | 4 | Y | G | | | |
| 8 | | An 8 cm layer of fine sand at 3.7 m. | | | | | | | |
| 9 | | Wet below 3.6 m. | | | | | | | |
| 10 | | Brownish-grey with some gravel and cobbles between 3.8 m - 4.1 m. | | 5 | Y | G | | | |
| 11 | | Sand and Gravel and Cobbles Fine to coarse, subangular to subrounded gravel and cobbles, and fine to coarse grained sand, trace silt, poorly graded, orange brown, loose, poorly graded, wet, saturated. | | 6 | N | G | | | |
| 12 | | Increasing silt content between 6.4 m - 7.3 m. | | | | | | | |
| 13 | | Predominantly fine to medium grained sand between 7.3 m - 7.6 m. | 7.62 | 7 | Y | G | | | |
| 14 | | Sand Fine to medium grained, brownish-grey, loose, homogeneous, wet, saturated. | | | | | | | |
| 15 | | Coarse sand below 8.1 m. | 8.38 | 8 | Y | G | | | |
| 16 | | Sand and Gravel and Cobbles Fine to medium grained sand and fine to coarse, subangular to subrounded gravel, and cobbles, brownish-grey, loose, wet, saturated. | | 9 | N | G | | | |
| 17 | | Orange with trace silt below 9.3 m. | | | | | | | |
| 18 | | Increasing silt content between 10.3 m - 11 m. | | 10 | N | G | | | |
| 19 | | | | | | | | | |
| 20 | | End of Log | 10.97 | | | | | | |

Log of Borehole: BH13-946



Project Name/No: Interim Sublease Remediation / 457-002.43

Logged by: Ben Lin

Client: Environment Canada

Drilling Method: Sonic

Date Drilled: Dec 11, 2014

Drilling Company: Sonic Drilling Ltd.

Site Location: PEC Site

Sheet: 1 of 2

| SUBSURFACE PROFILE | | | | SAMPLE | | | | Backfill details | |
|--------------------|--------|----------------|----------------|-----------|--------------|-------------|--------|------------------|---|
| Depth | Symbol | Description | Depth/Elev (m) | Sample ID | Analysed Y,N | Sample Type | Vapour | | LEL |
| | | | | | | | ppm | | % |
| | | | | | | | | | |
| ft | m | | | | | | | | |
| 0 | 0 | Ground Surface | 0.00 | | | | | | <div><div></div><div></div></div> <div>Sand</div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> |

Borehole location: Former RCSA

Borehole diameter: 0.1 m (4 inch)

Borehole ground elevation: N/A

Borehole depth: 11.9 m (39 feet)

Log of Borehole: BH13-946



Project Name/No: Interim Sublease Remediation / 457-002.43

Logged by: Ben Lin

Client: Environment Canada

Drilling Method: Sonic

Date Drilled: Dec 11, 2014

Drilling Company: Sonic Drilling Ltd.

Site Location: PEC Site

Sheet: 2 of 2

| SUBSURFACE PROFILE | | | | SAMPLE | | | | Backfill details | |
|--------------------|--------|--|----------------|------------|--------------|-------------|--------|------------------|-----|
| Depth | Symbol | Description | Depth/Elev (m) | Sample ID | Analysed Y,N | Sample Type | Vapour | | LEL |
| | | | | | | | ppm | | % |
| | | | | | | | | | |
| 21 | | SAND AND GRAVEL Coarse sand, subangular gravel, loose, wet | | | | | | | |
| | | Some cobble from 8.2 to 8.8m | | | | | | | |
| 22 | | Brown from 6.1 to 8.2m | | | | | | | |
| | | Grey from 8.2 to 9.1m | | | | | | | |
| 23 | 7 | | | BH13-946-4 | Y | | | | |
| 24 | | | | | | | | | |
| 25 | | | | | | | | | |
| 26 | 8 | | | BH13-946-5 | N | | | | |
| 27 | | | | | | | | | |
| 28 | | | | | | | | | |
| 29 | | | | | | | | | |
| 30 | 9 | | | BH13-946-6 | N | | | | |
| 31 | | SAND Fine to coarse grained, some gravel, grey, loose, wet | 9.14 | | | | | | |
| 32 | | | | | | | | | |
| 33 | 10 | | | | | | | | |
| 34 | | | | | | | | | |
| 35 | | | | | | | | | |
| 36 | 11 | SILT Grey, soft, wet | 10.97 | | | | | | |
| 37 | | | | | | | | | |
| 38 | | SAND Fine grained, some silt and gravel, light brown, loose, wet | 11.43 | | | | | | |
| 39 | | | | | | | | | |
| 40 | 12 | End of Log | 11.89 | | | | | | |

Borehole location: Former RCSA

Borehole diameter: 0.1 m (4 inch)

Borehole ground elevation: N/A

Borehole depth: 11.9 m (39 feet)

Log of Borehole: BH13-947



Project Name/No: Interim Sublease Remediation / 457-002.43

Logged by: Ben Lin

Client: Environment Canada

Drilling Method: Sonic

Date Drilled: Dec 21, 2014

Drilling Company: Omega Environmental Drilling Ltd.

Site Location: PEC Site

Sheet: 1 of 2

| SUBSURFACE PROFILE | | | | SAMPLE | | | | Backfill details | |
|--------------------|--------|----------------|----------------|-----------|--------------|-------------|--------|------------------|---|
| Depth | Symbol | Description | Depth/Elev (m) | Sample ID | Analysed Y,N | Sample Type | Vapour | | LEL |
| | | | | | | | ppm | | % |
| | | | | | | | | | |
| ft m | | | | | | | | | |
| 0 | | Ground Surface | 0.00 | | | | | | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></</div></div> |

Borehole location: Former RCSA

Borehole diameter: 0.1 m (4 inch) / 0.15 m (6 inch)

Borehole ground elevation: N/A

Borehole depth: 11.6 m (38 feet)

Log of Borehole: BH13-947



Project Name/No: Interim Sublease Remediation / 457-002.43

Logged by: Ben Lin

Client: Environment Canada

Drilling Method: Sonic

Date Drilled: Dec 21, 2014

Drilling Company: Omega Environmental Drilling Ltd.

Site Location: PEC Site

Sheet: 2 of 2

| SUBSURFACE PROFILE | | | | SAMPLE | | | | Backfill details | | | | | | |
|--------------------|--------|---|----------------|------------|--------------|-------------------------|--------|------------------|-----|-----|----|-----|--|--|
| Depth | Symbol | Description | Depth/Elev (m) | Sample ID | Analysed Y,N | Sample Type | Vapour | | | LEL | | | | |
| | | | | | | | ppm | | | % | | | | |
| | | | | | | | 0 | 250 | 500 | 0 | 50 | 100 | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | 7 | SAND AND GRAVEL AND COBBLE Brown, loose, wet | 7.01 | BH13-947-2 | Y | <div><div>G</div></div> | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | SAND AND GRAVEL Coarse sand, some cobbles, grey, loose, wet | 7.47 | | | | | | | | | | | |
| 26 | 8 | | | BH13-947-3 | Y | <div><div>G</div></div> | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | SAND AND GRAVEL Coarse grained sand, loose, brown, wet | 8.53 | | | | | | | | | | | |
| 29 | | | | BH13-947-4 | N | <div><div>G</div></div> | | | | | | | | |
| 30 | 9 | | | | | | | | | | | | | |
| 31 | | SAND Fine grained, grey, loose | 9.30 | | | | | | | | | | | |
| 32 | | SAND AND GRAVEL Coarse grained sand, orangy brown, loose, wet | 9.60 | | | | | | | | | | | |
| 33 | 10 | | | BH13-947-5 | N | <div><div>G</div></div> | | | | | | | | |
| 34 | | SAND Coarse grained, some gravel, grey, loose, wet | 10.36 | | | | | | | | | | | |
| 35 | | | | | | | | | | | | | | |
| 36 | 11 | | | BH13-947-6 | N | <div><div>G</div></div> | | | | | | | | |
| 37 | | | | | | | | | | | | | | |
| 38 | | End of Log | 11.58 | | | | | | | | | | | |
| 39 | 12 | | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | | | |

Borehole location: Former RCSA

Borehole diameter: 0.1 m (4 inch) / 0.15 m (6 inch)

Borehole ground elevation: N/A

Borehole depth: 11.6 m (38 feet)

Log of Borehole: BH13-948**Project Name/No:** Interim Sublease Remediation / 457-002.43**Logged by:** Ben Lin**Client:** Environment Canada**Drilling Method:** Sonic**Date Drilled:** Dec 21, 2014**Drilling Company:** Omega Environmental Drilling Ltd.**Site Location:** PEC Site**Sheet:** 1 of 2

| SUBSURFACE PROFILE | | | | SAMPLE | | | | Backfill details | |
|--------------------|--------|---|----------------|-------------|--------------|-------------|--------|------------------|-----|
| Depth | Symbol | Description | Depth/Elev (m) | Sample ID | Analysed Y,N | Sample Type | Vapour | | LEL |
| | | | | | | | ppm | | % |
| | | | | | | | | | |
| ft | m | | | | | | | | |
| 0 | 0 | Ground Surface | 0.00 | | | | | | |
| | | ASPHALT | 0.00 | BH13-948-3 | N | G | | | |
| 1 | | SAND (FILL) Brown, loose | | | | | | | |
| | | RAIL BALLAST Some sand, grey, loose, moist | 0.46 | | | | | | |
| 2 | | SILT AND GRAVEL Orange, very firm, moist | 0.61 | 948/9-Comp1 | Y | | | | |
| 3 | 1 | SAND Fine grained, some gravel, dark grey, loose, moist | 1.07 | 948/9-Comp2 | Y | | | | |
| 4 | | SAND Fine grained, some silt, wood fragments, grey, loose, moist | 1.22 | | | | | | |
| 5 | | SILTY SAND Some gravel, grey, loose, wet | 1.52 | | | | | | |
| 6 | | SAND Fine grained, trace silt, grey, loose, moist | 1.83 | 948/9-Comp3 | Y | | | | |
| 7 | 2 | SILT Brown, firm, moist | | | | | | | |
| 8 | | SILT AND GRAVEL Brown, medium-firm, wet | 2.44 | | | | | | |
| 9 | | SANDY SILT Brown, medium-firm, moist | 2.74 | | | | | | |
| 10 | 3 | SILT Grey, some orange mottling, firm, moist | 2.90 | 948/9-Comp4 | Y | | | | |
| 11 | | SANDY SILT Brown, medium-firm, moist | 3.20 | | | | | | |
| 12 | | NO RECOVERY | 3.35 | | | | | | |
| 13 | 4 | SAND AND GRAVEL AND COBBLES Fine grained sand, brown, loose, wet | 3.96 | | | | | | |
| 14 | | 2.1m of recovery between 3.96 to 7.01m | | | | | | | |
| 15 | | | | BH13-948-1 | Y | G | | | |
| 16 | 5 | SAND AND GRAVEL Coarse sand, brown, loose, wet | 4.88 | | | | | | |
| 17 | | | | | | | | | |
| 18 | | | | | | | | | |
| 19 | | | | BH13-948-2 | Y | G | | | |
| 20 | 6 | | | | | | | | |

Sand

Bentonite

Borehole location: Former RCSA**Borehole diameter:** 0.1 m (4 inch) / 0.15 m (6 inch)**Borehole ground elevation:** N/A**Borehole depth:** 10.05 m (33 feet)

Log of Borehole: BH13-948



Project Name/No: Interim Sublease Remediation / 457-002.43

Logged by: Ben Lin

Client: Environment Canada

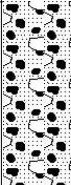

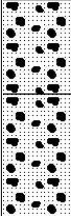





Drilling Method: Sonic

Date Drilled: Dec 21, 2014

Drilling Company: Omega Environmental Drilling Ltd.

Site Location: PEC Site

Sheet: 2 of 2

| SUBSURFACE PROFILE | | | | SAMPLE | | | | Backfill details | | | | | | | | | | | | | | | |
|--------------------|---|--------------------|--|-----------|--------------|-------------|---|------------------|-----|-----|---|----|-----|--|-------|------------|---|--|--|--|--|--|--|
| Depth | Symbol | Description | Depth/Elev (m) | Sample ID | Analysed Y,N | Sample Type | Vapour | | | LEL | | | | | | | | | | | | | |
| | | | | | | | ppm | | | % | | | | | | | | | | | | | |
| | | | | | | | 0 | | 250 | 500 | 0 | 50 | 100 | | | | | | | | | | |
| 21 |  | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | 7 | SAND Some gravel, trace silt, grey, loose, wet | 7.01 | BH13-948-4 | Y |  | | | | | | | | | | | | | | | | |
| 24 | | | 2.1m of recovery between 7.01 and 10.0m | | | | | | | | | | | | | | | | | | | | |
| 25 |  | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | 8 | SAND AND GRAVEL Orange, loose, wet | 7.77 | BH13-948-5 | N |  | | | | | |
| 27 | | | SAND AND GRAVEL Grey, loose, wet | 8.23 | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | BH13-948-6 | N |  | | | | | | | | | | | | | | | | |
| 29 | 9 | NO RECOVERY | 8.84 | | | | | | | | | | | | | | | | | | | | |
| 30 |  | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | | 10 | End of Log | 10.06 | | | | | | | | |
| 34 |  | | | | | | | | | | | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | | 11 | | | | | | | | | | |
| 37 | | | | | | | | | | | | | | | | | | | | | | | |
| 38 |  | | | | | | | | | | | | | | | | | | | | | | |
| 39 | | | | | | | | | | | | | 12 | | | | | | | | | | |
| 40 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

Borehole location: Former RCSA

Borehole diameter: 0.1 m (4 inch) / 0.15 m (6 inch)

Borehole ground elevation: N/A

Borehole depth: 10.05 m (33 feet)

Log of Borehole: BH13-949



Project Name/No: Interim Sublease Remediation / 457-002.43

Logged by: Ben Lin

Client: Environment Canada

Drilling Method: Sonic

Date Drilled: Dec 21, 2014

Drilling Company: Omega Environmental Drilling Ltd.

Site Location: PEC Site

Sheet: 1 of 2

| SUBSURFACE PROFILE | | | | SAMPLE | | | | Backfill details | |
|--------------------|--------|----------------|----------------|-----------|--------------|-------------|--------|------------------|---|
| Depth | Symbol | Description | Depth/Elev (m) | Sample ID | Analysed Y,N | Sample Type | Vapour | | LEL |
| | | | | | | | ppm | | % |
| | | | | | | | | | |
| ft m | | | | | | | | | |
| 0 | | Ground Surface | 0.00 | | | | | | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></</div></div> |

Borehole location: Former RCSA

Borehole diameter: 0.1 m (4 inch) / 0.15 m (6 inch)

Borehole ground elevation: N/A

Borehole depth: 10.05 m (33feet)

Log of Borehole: BH13-949



Project Name/No: Interim Sublease Remediation / 457-002.43

Logged by: Ben Lin

Client: Environment Canada

Drilling Method: Sonic

Date Drilled: Dec 21, 2014

Drilling Company: Omega Environmental Drilling Ltd.

Site Location: PEC Site

Sheet: 2 of 2

| SUBSURFACE PROFILE | | | | SAMPLE | | | | Backfill details | | |
|--------------------|--------|--|----------------|------------|--------------|-------------|---------|------------------|--------|--|
| Depth | Symbol | Description | Depth/Elev (m) | Sample ID | Analysed Y,N | Sample Type | Vapour | | LEL | |
| | | | | | | | ppm | | % | |
| | | | | | | | 0250500 | | 050100 | |
| 21 | | SAND AND GRAVEL Some cobbles, brown, loose, wet | | BH13-949-2 | Y | | | | | |
| 22 | | | | | | | | | | |
| 23 | | | | 7 | | | | | | |
| 24 | | | | BH13-949-3 | Y | | | | | |
| 25 | | | | | | | | | | |
| 26 | 8 | | | | | | | | | |
| 27 | | | | BH13-949-4 | N | | | | | |
| 28 | | SAND Fine to coarse grained, some gravel, brown, loose, wet | 8.53 | | | | | | | |
| 29 | | | | | | | | | | |
| 30 | 9 | | | | | BH13-949-5 | N | | | |
| 31 | | | | | | | | | | |
| 32 | | SAND AND COBBLE Fine to coarse grained, some gravel, orange, loose, wet | 9.75 | BH13-949-6 | N | | | | | |
| 33 | 10 | | | | | | | | | |
| 34 | | End of Log | 10.06 | | | | | | | |
| 35 | | | | | | | | | | |
| 36 | 11 | | | | | | | | | |
| 37 | | | | | | | | | | |
| 38 | | | | | | | | | | |
| 39 | 12 | | | | | | | | | |
| 40 | | | | | | | | | | |

Borehole location: Former RCSA

Borehole diameter: 0.1 m (4 inch) / 0.15 m (6 inch)

Borehole ground elevation: N/A

Borehole depth: 10.05 m (33feet)

Log of Monitoring Well: MW09-31B

Project Name/No: PEC Sublease Area / 457-003.27

Client: Environment Canada

Date Drilled: October 15, 2009

Site Location: PEC Site, West Vancouver

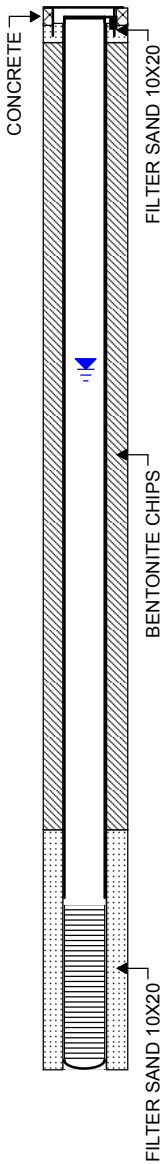
Drilling Company: Sonic Drilling Ltd

Drilling Method: sonic

Logged by: Andrei Novikov



Sheet: 1 of 1

| SUBSURFACE PROFILE | | | | SAMPLE | | | | | Backfill details |
|--------------------|--------|---|----------------|-----------|--------------|-------------|-----------|----------|--|
| Depth | Symbol | Description | Depth/Elev (m) | Sample ID | Analysed Y,N | Sample Type | Vapour | LEL | |
| | | | | | | | ppm | % | |
| 0 | | Ground Surface | 0.00 | | | | 0 250 500 | 0 50 100 |  |
| 1 | | Gravel and Sand Fine to coarse, subrounded to subangular gravel and fine to coarse grained sand, trace silt, trace cobbles, brown, medium dense, poorly graded, dry to moist. Grey between 0.9 m - 1.1 m. | | | | | | | |
| 2 | | A 25 cm layer of medium grained sand, grey, with brown wood pulp, loose, moist, trace gravel, below 1.1 m. | 1.16 | | | | | | |
| 3 | 1 | Sand Fine grained, grey with green staining, loose, homogeneous, moist. Trace fine gravel. | 1.89 | | | | | | |
| 4 | | Sand Fine grained, greyish-brown, medium dense, homogeneous, moist. | | | | | | | |
| 5 | 2 | An 8 cm layer of medium grained sand with trace fine gravel, at 2.3 m. | | | | | | | |
| 6 | | Minor orange mottling between 2.7 m - 3.0 m. | | | | | | | |
| 7 | | Wet below 3.0 m. | | | | | | | |
| 8 | | A 2.5 cm layer of black organic soil at 3.4 m. | 3.49 | | | | | | |
| 9 | 3 | Sand Medium grained, greyish-brown, loose, homogeneous, some orange and black mottling, wet. Some gravel, fine to coarse, subrounded to subangular. | 3.93 | | | | | | |
| 10 | | Sand and Gravel and Cobbles Fine to coarse, subangular to subrounded gravel and cobbles, and fine to coarse grained sand, trace silt, brown, loose, poorly graded, wet, saturated. | | | | | | | |
| 11 | | Grey between 4.8 m - 5.0 m. | | | | | | | |
| 12 | | Orange brown between 5.0 m - 5.5 m. | | | | | | | |
| 13 | | Brownish grey between 5.5 m - 6.1 m. | | | | | | | |
| 14 | 4 | Sand Fine, some medium grained, brownish-grey, loose, homogeneous, wet, saturated. | 6.10 | | | | | | |
| 15 | | Increasing medium grained sand content below 6.7 m. | | | | | | | |
| 16 | | Coarse sand appearing below 7.3 m. | | | | | | | |
| 17 | 5 | Sand and Gravel and Cobbles Fine, some medium grained sand and fine to coarse, subangular to subrounded gravel, and cobbles, trace silt, brownish-grey, loose, wet, saturated. | 7.77 | | | | | | |
| 18 | | | | | | | | | |
| 19 | | | | | | | | | |
| 20 | | | | | | | | | |
| 21 | | | | | | | | | |
| 22 | | | | | | | | | |
| 23 | | | | | | | | | |
| 24 | | | | | | | | | |
| 25 | | | | | | | | | |
| 26 | 6 | | | | | | | | |
| 27 | | | | | | | | | |
| 28 | | | | | | | | | |
| 29 | | | | | | | | | |
| 30 | | | | | | | | | |
| 31 | | | | | | | | | |
| 32 | | | | | | | | | |
| 33 | 7 | | | | | | | | |
| 34 | | | | | | | | | |
| 35 | | | | | | | | | |
| 36 | | | | | | | | | |
| 37 | | | | | | | | | |
| 38 | | | | | | | | | |
| 39 | | | | | | | | | |
| 40 | | | | | | | | | |
| 41 | | | | | | | | | |
| 42 | | | | | | | | | |
| 43 | | | | | | | | | |
| 44 | | | | | | | | | |
| 45 | | | | | | | | | |
| 46 | | | | | | | | | |
| 47 | | | | | | | | | |
| 48 | | | | | | | | | |
| 49 | | | | | | | | | |
| 50 | | | | | | | | | |
| 51 | | | | | | | | | |
| 52 | | | | | | | | | |
| 53 | | | | | | | | | |
| 54 | | | | | | | | | |
| 55 | | | | | | | | | |
| 56 | | | | | | | | | |
| 57 | | | | | | | | | |
| 58 | | | | | | | | | |
| 59 | | | | | | | | | |
| 60 | | | | | | | | | |
| 61 | | | | | | | | | |
| 62 | | | | | | | | | |
| 63 | | | | | | | | | |
| 64 | | | | | | | | | |
| 65 | | | | | | | | | |
| 66 | | | | | | | | | |
| 67 | | | | | | | | | |
| 68 | | | | | | | | | |
| 69 | | | | | | | | | |
| 70 | | | | | | | | | |
| 71 | | | | | | | | | |
| 72 | | | | | | | | | |
| 73 | | | | | | | | | |
| 74 | | | | | | | | | |
| 75 | | | | | | | | | |
| 76 | | | | | | | | | |
| 77 | | | | | | | | | |
| 78 | | | | | | | | | |
| 79 | | | | | | | | | |
| 80 | | | | | | | | | |
| 81 | | | | | | | | | |
| 82 | | | | | | | | | |
| 83 | | | | | | | | | |
| 84 | | | | | | | | | |
| 85 | | | | | | | | | |
| 86 | | | | | | | | | |
| 87 | | | | | | | | | |
| 88 | | | | | | | | | |
| 89 | | | | | | | | | |
| 90 | | | | | | | | | |
| 91 | | | | | | | | | |
| 92 | | | | | | | | | |
| 93 | | | | | | | | | |
| 94 | | | | | | | | | |
| 95 | | | | | | | | | |
| 96 | | | | | | | | | |
| 97 | | | | | | | | | |
| 98 | | | | | | | | | |
| 99 | | | | | | | | | |
| 100 | | | | | | | | | |
| 101 | | | | | | | | | |
| 102 | | | | | | | | | |
| 103 | | | | | | | | | |
| 104 | | | | | | | | | |
| 105 | | | | | | | | | |
| 106 | | | | | | | | | |
| 107 | | | | | | | | | |
| 108 | | | | | | | | | |
| 109 | | | | | | | | | |
| 110 | | | | | | | | | |
| 111 | | | | | | | | | |
| 112 | | | | | | | | | |
| 113 | | | | | | | | | |
| 114 | | | | | | | | | |
| 115 | | | | | | | | | |
| 116 | | | | | | | | | |
| 117 | | | | | | | | | |
| 118 | | | | | | | | | |
| 119 | | | | | | | | | |
| 120 | | | | | | | | | |
| 121 | | | | | | | | | |
| 122 | | | | | | | | | |
| 123 | | | | | | | | | |
| 124 | | | | | | | | | |
| 125 | | | | | | | | | |
| 126 | | | | | | | | | |
| 127 | | | | | | | | | |
| 128 | | | | | | | | | |
| 129 | | | | | | | | | |
| 130 | | | | | | | | | |
| 131 | | | | | | | | | |
| 132 | | | | | | | | | |
| 133 | | | | | | | | | |
| 134 | | | | | | | | | |
| 135 | | | | | | | | | |
| 136 | | | | | | | | | |
| 137 | | | | | | | | | |
| 138 | | | | | | | | | |
| 139 | | | | | | | | | |
| 140 | | | | | | | | | |
| 141 | | | | | | | | | |
| 142 | | | | | | | | | |
| 143 | | | | | | | | | |
| 144 | | | | | | | | | |
| 145 | | | | | | | | | |
| 146 | | | | | | | | | |
| 147 | | | | | | | | | |
| 148 | | | | | | | | | |
| 149 | | | | | | | | | |
| 150 | | | | | | | | | |
| 151 | | | | | | | | | |
| 152 | | | | | | | | | |
| 153 | | | | | | | | | |
| 154 | | | | | | | | | |
| 155 | | | | | | | | | |
| 156 | | | | | | | | | |
| 157 | | | | | | | | | |
| 158 | | | | | | | | | |
| 159 | | | | | | | | | |
| 160 | | | | | | | | | |
| 161 | | | | | | | | | |
| 162 | | | | | | | | | |
| 163 | | | | | | | | | |
| 164 | | | | | | | | | |
| 165 | | | | | | | | | |
| 166 | | | | | | | | | |
| 167 | | | | | | | | | |
| 168 | | | | | | | | | |
| 169 | | | | | | | | | |
| 170 | | | | | | | | | |
| 171 | | | | | | | | | |
| 172 | | | | | | | | | |
| 173 | | | | | | | | | |
| 174 | | | | | | | | | |
| 175 | | | | | | | | | |
| 176 | | | | | | | | | |
| 177 | | | | | | | | | |
| 178 | | | | | | | | | |
| 179 | | | | | | | | | |
| 180 | | | | | | | | | |
| 181 | | | | | | | | | |
| 182 | | | | | | | | | |
| 183 | | | | | | | | | |
| 184 | | | | | | | | | |
| 185 | | | | | | | | | |
| 186 | | | | | | | | | |
| 187 | | | | | | | | | |
| 188 | | | | | | | | | |
| 189 | | | | | | | | | |
| 190 | | | | | | | | | |
| 191 | | | | | | | | | |
| 192 | | | | | | | | | |
| 193 | | | | | | | | | |
| 194 | | | | | | | | | |
| 195 | | | | | | | | | |
| 196 | | | | | | | | | |
| 197 | | | | | | | | | |
| 198 | | | | | | | | | |
| 199 | | | | | | | | | |
| 200 | | | | | | | | | |
| 201 | | | | | | | | | |
| 202 | | | | | | | | | |
| 203 | | | | | | | | | |
| 204 | | | | | | | | | |
| 205 | | | | | | | | | |
| 206 | | | | | | | | | |
| 207 | | | | | | | | | |
| 208 | | | | | | | | | |
| 209 | | | | | | | | | |
| 210 | | | | | | | | | |
| 211 | | | | | | | | | |
| 212 | | | | | | | | | |
| 213 | | | | | | | | | |
| 214 | | | | | | | | | |
| 215 | | | | | | | | | |
| 216 | | | | | | | | | |
| 217 | | | | | | | | | |
| 218 | | | | | | | | | |
| 219 | | | | | | | | | |
| 220 | | | | | | | | | |
| 221 | | | | | | | | | |
| 222 | | | | | | | | | |
| 223 | | | | | | | | | |
| 224 | | | | | | | | | |
| 225 | | | | | | | | | |
| 226 | | | | | | | | | |
| 227 | | | | | | | | | |
| 228 | | | | | | | | | |
| 229 | | | | | | | | | |
| 230 | | | | | | | | | |
| 231 | | | | | | | | | |
| 232 | | | | | | | | | |
| 233 | | | | | | | | | |
| 234 | | | | | | | | | |
| 235 | | | | | | | | | |
| 236 | | | | | | | | | |
| 237 | | | | | | | | | |
| 238 | | | | | | | | | |
| 239 | | | | | | | | | |
| 240 | | | | | | | | | |
| 241 | | | | | | | | | |
| 242 | | | | | | | | | |
| 243 | | | | | | | | | |
| 244 | | | | | | | | | |
| 245 | | | | | | | | | |
| 246 | | | | | | | | | |
| 247 | | | | | | | | | |
| 248 | | | | | | | | | |
| 249 | | | | | | | | | |
| 250 | | | | | | | | | |
| 251 | | | | | | | | | |
| 252 | | | | | | | | | |
| 253 | | | | | | | | | |
| 254 | | | | | | | | | |
| 255 | | | | | | | | | |
| 256 | | | | | | | | | |
| 257 | | | | | | | | | |
| 258 | | | | | | | | | |
| 259 | | | | | | | | | |
| 260 | | | | | | | | | |
| 261 | | | | | | | | | |
| 262 | | | | | | | | | |
| 263 | | | | | | | | | |
| 264 | | | | | | | | | |
| 265 | | | | | | | | | |
| 266 | | | | | | | | | |

| | | |
|--|--|---|
| Well location: Sublease Area | Well casing diameter: 0.051 m (2") | Depth of well (TOC): 9.732 m (31.9') |
| Depth to water level (TOC): 3.191 m (10.5') | Well casing material: PVC | Well Elevation (TOC): 3.717 mNVD |
| Date of water level: October 29, 2009 | Well screen slot size: 10 slot by 0.25 mm (0.01") | Ground Elevation: 3.62 mNVD |
| Borehole diameter: 0.152 m (6") | Well screen interval (bgs): 8.199 - 9.732 m (26.9' - 31.9') | |

Log of Monitoring Well: MW09-31C

Project Name/No: PEC Sublease Area / 457-003.27

Client: Environment Canada

Date Drilled: October 14 - 15, 2009

Site Location: PEC Site, West Vancouver

Drilling Company: Sonic Drilling Ltd

Drilling Method: sonic

Logged by: Andrei Novikov



Sheet: 1 of 2

| SUBSURFACE PROFILE | | | | SAMPLE | | | | | Backfill details |
|--------------------|--------|--|----------------|-----------|--------------|-------------|-----------|----------|---|
| Depth | Symbol | Description | Depth/Elev (m) | Sample ID | Analysed Y,N | Sample Type | Vapour | LEL | |
| | | | | | | | ppm | % | |
| 0 | | Ground Surface | | | | | 0 250 500 | 0 50 100 | <div>CONCRETE</div> <div>FILTER SAND 10X20</div> <div>BENTONITE CHIPS</div> |
| 0 | | Gravel and Sand (Road base) Fine to coarse, subangular to subrounded gravel and fine to coarse grained sand, trace silt, brown, medium dense, well graded, moist. Trace silt. Yellowish-brown between 0.4 m - 0.6 m. | 0.00 | | | | | | |
| 1 | | | | 1 | Y | G | | | |
| 2 | | Sand and Gravel Fine to coarse grained sand and fine to coarse, subangular to subrounded gravel, trace silt, brown, medium dense, poorly graded, moist. | 0.61 | | | | | | |
| 3 | | | 0.98 | 2 | Y | G | | | |
| 4 | | Sand Fine to medium, some coarse grained, some fine to coarse, subangular to subrounded gravel, trace cobbles, greyish-brown, loose, homogeneous, dry to moist. Piece of wood at 1.5 m. Asphalt-like layer (5cm) at 1.8 m. | | | | | | | |
| 5 | | | 2.13 | 3 | Y | G | | | |
| 6 | | Sand Fine to medium grained, grey, loose, homogeneous, dry to moist. A 5 cm layer of brown, organic-like soil with wood debris at 2.3 m. A 10 cm layer of green staining at 2.3 m. | | | | | | | |
| 7 | | | | 4 | N | G | | | |
| 8 | | Fine grained sand, greyish-brown, medium dense, homogeneous, with orange and black mottling, moist between 2.6 m - 3 m. Green staining between 3.2 m - 3.4 m and an 8 cm layer at 3.6 m. Black and orange mottling at 4.3 m. | 4.27 | | | | | | |
| 9 | | Sand Fine to medium grained, grey, loose, homogeneous, poorly graded, wet. | 4.97 | 5 | N | G | | | |
| 10 | | | | | | | | | |
| 11 | | Sand and Gravel Fine to coarse grained sand and fine to coarse, subangular to subrounded gravel, trace silt, grey, loose, poorly graded, wet. Minor orange staining between 5.2 m - 5.5 m. Yellowish-grey between 5.5 m - 5.8 m. Greenish-grey between 5.8 m - 6.1 m. | | 6 | Y | G | | | |
| 12 | | | | | | | | | |
| 13 | | Brownish-grey, decreasing silt content below 6.1 m. | | | | | | | |
| 14 | | | | 7 | Y | G | | | |
| 15 | | An 8 cm layer of medium grained sand at 6.8 m. | 7.01 | | | | | | |
| 16 | | Gravel and Cobbles Fine to coarse, subangular to subrounded gravel and cobbles, some fine to coarse grained sand, trace silt, grey, loose, poorly graded, wet, saturated. | | | | | | | |
| 17 | | | | 8 | Y | G | | | |
| 18 | | Increasing sand content below 7.8 m. | | | | | | | |
| 19 | | | | | | | | | |
| 20 | | Orange staining between 8.3 m - 8.6 m. | | 9 | Y | G | | | |
| 21 | | | | | | | | | |
| 22 | | | | | | | | | |
| 23 | | | | | | | | | |
| 24 | | | | | | | | | |
| 25 | | | | | | | | | |
| 26 | | | | | | | | | |
| 27 | | | | | | | | | |
| 28 | | | | | | | | | |
| 29 | | | | | | | | | |

| | | |
|---|---|---------------------------------------|
| Well location: Sublease Area | Well casing diameter: 0.051 m (2") | Depth of well (TOC): 15.294 m (50.2') |
| Depth to water level (TOC): 3.191 m (10.5') | Well casing material: PVC | Well Elevation (TOC): 3.647 mNVD |
| Date of water level: October 29, 2009 | Well screen slot size: 10 slot by 0.25 mm (0.01") | Ground Elevation: 3.45 mNVD |
| Borehole diameter: 0.152 m (6") | Well screen interval (bgs): 13.777 - 15.294 m (45.2' - 50.2') | |

Log of Monitoring Well: MW09-31C

Project Name/No: PEC Sublease Area / 457-003.27

Client: Environment Canada

Date Drilled: October 14 - 15, 2009

Site Location: PEC Site, West Vancouver

Drilling Company: Sonic Drilling Ltd

Drilling Method: sonic

Logged by: Andrei Novikov



Sheet: 2 of 2

| SUBSURFACE PROFILE | | | | SAMPLE | | | | | Backfill details | | | | |
|--------------------|--------|--|----------------|-----------|--------------|-------------|--------|-----|------------------|-----|---|----|-----|
| Depth | Symbol | Description | Depth/Elev (m) | Sample ID | Analysed Y,N | Sample Type | Vapour | | | LEL | | | |
| | | | | | | | ppm | | | % | | | |
| | | | | | | | 0 | 250 | | 500 | 0 | 50 | 100 |
| 30 | 9 | Sand and Gravel and Cobbles Fine to coarse grained sand and fine to coarse, subangular to subrounded gravel, and cobbles, trace silt, yellowish-grey, loose, wet. | 9.14 | | | | | | | | | | |
| 31 | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | | |
| 33 | 10 | Predominantly fine to medium grained sand between 9.7 m - 10.1 m. | | 10 | Y | G | | | | | | | |
| 34 | | An 8 cm layer of orange staining at 10.8 m. | | | | | | | | | | | |
| 35 | | | | | | | | | | | | | |
| 36 | 11 | Sand Fine, trace medium grained, dark grey, medium dense, homogeneous, wet. Some light and dark mottling between 10.9 m - 11.1 m. | 10.82 | | | | | | | | | | |
| 37 | | | | | | | | | | | | | |
| 38 | | | | 11 | N | G | | | | | | | |
| 39 | 12 | Sand and Gravel Fine to medium grained sand and fine to coarse, subangular to subrounded gravel, yellowish-grey, loose, wet. | 11.73 | | | | | | | | | | |
| 40 | | Reddish-orange staining (8 cm) at 11.7 m. | 12.19 | | | | | | | | | | |
| 41 | | Trace silt at 12.2 m. | | 12 | N | G | | | | | | | |
| 42 | | | 12.65 | | | | | | | | | | |
| 43 | 13 | Sand Fine to coarse grained, grey, with orange staining, loose, homogeneous, wet, saturated. | 13.11 | | | | | | | | | | |
| 44 | | Sand and Gravel Fine to coarse grained sand and fine to coarse, subangular to subrounded gravel, grey with orange staining, loose, wet, saturated. | | | | | | | | | | | |
| 45 | | Trace cobbles at 12.6 m - 12.8 m. | | | | | | | | | | | |
| 46 | 14 | Coarse grained sand and fine gravel at 12.8 m - 13.1 m. | | | | | | | | | | | |
| 47 | | | | | | | | | | | | | |
| 48 | | Sand and Gravel and Cobbles Fine to coarse, subrounded to subangular gravel and cobbles, and fine to coarse grained sand, trace silt, grey with orange staining, loose, poorly graded, wet, saturated. | | 13 | N | G | | | | | | | |
| 49 | 15 | No staining below 14.9 m. | 15.24 | | | | | | | | | | |
| 50 | | End of Log | | | | | | | | | | | |
| 51 | | | | | | | | | | | | | |
| 52 | 16 | | | | | | | | | | | | |
| 53 | | | | | | | | | | | | | |
| 54 | | | | | | | | | | | | | |
| 55 | | | | | | | | | | | | | |
| 56 | 17 | | | | | | | | | | | | |
| 57 | | | | | | | | | | | | | |
| 58 | | | | | | | | | | | | | |
| 59 | 18 | | | | | | | | | | | | |

<

FILTER SAND 10X20

| | | |
|--|--|--|
| Well location: Sublease Area | Well casing diameter: 0.051 m (2") | Depth of well (TOC): 15.294 m (50.2') |
| Depth to water level (TOC): 3.191 m (10.5') | Well casing material: PVC | Well Elevation (TOC): 3.647 mNVD |
| Date of water level: October 29, 2009 | Well screen slot size: 10 slot by 0.25 mm (0.01") | Ground Elevation: 3.45 mNVD |
| Borehole diameter: 0.152 m (6") | Well screen interval (bgs): 13.777 - 15.294 m (45.2' - 50.2') | |

Log of Monitoring Well: MW09-32B

Project Name/No: PEC Sublease Area / 457-003.27

Client: Environment Canada

Date Drilled: October 14, 2009

Site Location: PEC Site, West Vancouver

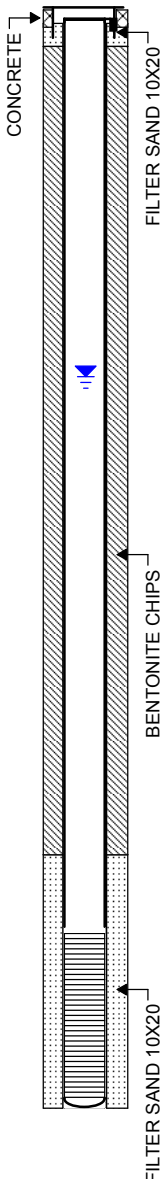
Drilling Company: Sonic Drilling Ltd

Drilling Method: sonic

Logged by: Andrei Novikov



Sheet: 1 of 1

| SUBSURFACE PROFILE | | | | SAMPLE | | | | | Backfill details |
|--------------------|--------|---|----------------|-----------|--------------|-------------|-----------|----------|--|
| Depth | Symbol | Description | Depth/Elev (m) | Sample ID | Analysed Y,N | Sample Type | Vapour | LEL | |
| | | | | | | | ppm | % | |
| 0 | | Ground Surface | | | | | 0 250 500 | 0 50 100 |  |
| 0 | | Gravel and Sand (Road Base) Fine to coarse, subangular gravel and fine to coarse grained sand, trace silt, brown, medium dense, well graded, moist. | 0.00 | | | | | | |
| 1 | | | 0.46 | | | | | | |
| 2 | | Sand Gravelly Fine to medium, trace coarse grained sand, some fine to coarse, subangular to subrounded gravel, brown, loose, homogeneous, moist. | | | | | | | |
| 3 | | A 10 cm layer of yellowish to grey sand at 0.5 m. | | | | | | | |
| 4 | | Grey with trace cobbles below 1.2. m. | | | | | | | |
| 5 | | | 1.83 | | | | | | |
| 6 | | Sand Fine to medium grained, grey, medium dense, homogeneous, moist. | | | | | | | |
| 7 | | A 10 cm layer of black organic-like soil with trace wood at 1.8 m. | | | | | | | |
| 8 | | Followed by 25 cm of green staining. | | | | | | | |
| 9 | | Orange and black mottling between 2.2 m- 2.4 m. | | | | | | | |
| 10 | | Medium grained sand, brown between 2.2 m - 2.4 m. | 3.05 | | | | | | |
| 11 | | Sand and Gravel and Cobbles Fine to coarse, subangular to subrounded gravel and cobbles, and fine to coarse grained sand, trace silt, greyish-brown, loose, poorly graded, wet. | | | | | | | |
| 12 | | Orange brown between 4 m - 5.8 m. | | | | | | | |
| 13 | | A 10 cm layer of fine to medium grained sand at 4.7 m. | | | | | | | |
| 14 | | | | | | | | | |
| 15 | | | | | | | | | |
| 16 | | | | | | | | | |
| 17 | | | | | | | | | |
| 18 | | | | | | | | | |
| 19 | | | | | | | | | |
| 20 | | | | | | | | | |
| 21 | | | | | | | | | |
| 22 | | Increasing silt content between 7.0 m - 7.6 m. | | | | | | | |
| 23 | | | | | | | | | |
| 24 | | Increasing medium to coarse grained sand content between 7.9 m - 8.4 m. | | | | | | | |
| 25 | | | | | | | | | |
| 26 | | | | | | | | | |
| 27 | | | | | | | | | |
| 28 | | | | | | | | | |
| 29 | | | | | | | | | |
| 30 | | | | | | | | | |
| 31 | | End of Log | 9.14 | | | | | | |
| 32 | | | | | | | | | |
| 33 | | | | | | | | | |

| | | |
|--|--|---|
| Well location: Sublease Area | Well casing diameter: 0.051 m (2") | Depth of well (TOC): 9.231 m (30.3') |
| Depth to water level (TOC): 3.076 m (10.1') | Well casing material: PVC | Well Elevation (TOC): 3.472 mNVD |
| Date of water level: October 29, 2009 | Well screen slot size: 10 slot by 0.25 mm (0.01") | Ground Elevation: 3.42 mNVD |
| Borehole diameter: 0.152 m (6") | Well screen interval (bgs): 7.711 - 9.231 m (25.3' - 30.3') | |

Log of Monitoring Well: MW09-32C

Project Name/No: PEC Sublease Area / 457-003.27

Client: Environment Canada

Date Drilled: October 14, 2009

Site Location: PEC Site, West Vancouver

Drilling Company: Sonic Drilling Ltd

Drilling Method: sonic

Logged by: Andrei Novikov



Sheet: 1 of 2

| SUBSURFACE PROFILE | | | | SAMPLE | | | | | Backfill details |
|--------------------|--------|---|----------------|-----------|--------------|-------------|-----------|----------|---|
| Depth | Symbol | Description | Depth/Elev (m) | Sample ID | Analysed Y,N | Sample Type | Vapour | LEL | |
| | | | | | | | ppm | % | |
| 0 | | Ground Surface | | | | | 0 250 500 | 0 50 100 | <div>CONCRETE</div> <div>FILTER SAND 10X20</div> <div>BENTONITE CHIPS</div> |
| 0 | | Gravel and Sand (Road Base) Fine to coarse, subangular gravel and fine to coarse grained sand, some silt, brown, medium dense, well graded, moist. | 0.00 | | | | | | |
| 1 | | Sand and Gravel Fine to coarse grained sand and fine to coarse, subangular to subrounded gravel, trace silt, yellowish brown, medium dense, poorly graded, moist. Asphalt-like chunks between 0.8 m - 1.7 m. Dark brown between 1.3 m - 1.7 m. | 0.61 | 1 | N | G | | | |
| 2 | | | | | | | | | |
| 3 | 1 | | | | | | | | |
| 4 | | Sand and Gravel Fine to medium grained sand and fine to coarse, subangular gravel, grey, loose, homogeneous, poorly graded, moist. Some shell debris with green precipitation. An 8 cm layer of sand, fine grained, dark brown, dense, feasured, moist, at 2.1 m. | 1.68 | 2 | Y | G | | | |
| 5 | | | | | | | | | |
| 6 | 2 | | | | | | | | |
| 7 | | Sand and Gravel Fine to coarse grained sand and fine to coarse, subangular gravel, trace silt, trace cobbles, greyish-brown, loose to medium dense, poorly graded, moist. | 2.44 | 3 | Y | G | | | |
| 8 | | | | | | | | | |
| 9 | 3 | | | | | | | | |
| 10 | | Sand Fine grained, greyish-brown with dark grey mottling, medium dense, wet. | 3.05 | 4 | N | G | | | |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |
| 13 | | Gravel and Cobbles Fine to coarse, subangular to subrounded gravel and cobbles, some fine to coarse grained sand, trace silt, orange brown, loose, poorly graded, wet, saturated. | 3.35 | 5 | N | G | | | |
| 14 | | | | | | | | | |
| 15 | 4 | | | | | | | | |
| 16 | | | | 6 | Y | G | | | |
| 17 | 5 | | | | | | | | |
| 18 | | | | | | | | | |
| 19 | | | | 7 | Y | G | | | |
| 20 | 6 | | | | | | | | |
| 21 | | | | | | | | | |
| 22 | | | | 8 | N | G | | | |
| 23 | 7 | | | | | | | | |
| 24 | | | | | | | | | |
| 25 | | | | 9 | Y | G | | | |
| 26 | 8 | | | | | | | | |
| 27 | | | | | | | | | |
| 28 | | | | | | | | | |
| 29 | | | | | | | | | |

| | | |
|--|---|---------------------------------------|
| Well location: Sublease Area | Well casing diameter: 0.051 m (2") | Depth of well (TOC): 15.278 m (50.1') |
| Depth to water level (TOC): 3.16 m (10.4') | Well casing material: PVC | Well Elevation (TOC): 3.547 mNVD |
| Date of water level: October 29, 2009 | Well screen slot size: 10 slot by 0.25 mm (0.01") | Ground Elevation: 3.48 mNVD |
| Borehole diameter: 0.152 m (6") | Well screen interval (bgs): 13.746 - 15.278 m (45.1' - 50.1') | |

Log of Monitoring Well: MW09-32C

Project Name/No: PEC Sublease Area / 457-003.27

Client: Environment Canada

Date Drilled: October 14, 2009

Site Location: PEC Site, West Vancouver

Drilling Company: Sonic Drilling Ltd

Drilling Method: sonic

Logged by: Andrei Novikov



Sheet: 2 of 2

| SUBSURFACE PROFILE | | | | SAMPLE | | | | Backfill details | | |
|--------------------|--------|---|----------------|-----------|--------------|-------------|-----------|------------------|--|-----|
| Depth | Symbol | Description | Depth/Elev (m) | Sample ID | Analysed Y,N | Sample Type | Vapour | | | LEL |
| | | | | | | | ppm | | | % |
| | | | | | | | 0 250 500 | 0 50 100 | | |
| 30 | 9 | | | | | | | | | |
| 31 | | | | | | | | | | |
| 32 | | | | | | | | | | |
| 33 | 10 | | | | | | | | | |
| 34 | | Sand Fine to medium, trace coarse grained, grey, loose, homogeneous, wet. Some gravel and cobbles at 10.4 m - 10.5 m. | 10.21 | 10 | Y | G | | | | |
| 35 | | | 10.52 | | | | | | | |
| 36 | 11 | Sand Silty Grey, medium dense, homogeneous, wet. A 10 cm layer of bright orange, grey, dark grey, brown mottling at 10.5 m. Yellowish-grey between 11.3 m - 11.6 m. | | | | | | | | |
| 37 | | | | | | | | | | |
| 38 | | | 11.58 | 11 | N | G | | | | |
| 39 | | Sand and Gravel Fine to coarse grained sand and fine to coarse, subangular to subrounded gravel, trace silt, trace cobbles, yellowish-grey, loose, homogeneous, poorly graded, wet. | | | | | | | | |
| 40 | 12 | | 12.19 | | | | | | | |
| 41 | | Sand and Gravel and Cobbles Fine to coarse grained sand and fine to coarse, subangular to subrounded gravel, and cobbles, yellowish-grey, loose, homogeneous, poorly graded, wet. | | 12 | N | G | | | | |
| 42 | | | | | | | | | | |
| 43 | 13 | | | | | | | | | |
| 44 | | Transitioning to grey below 12.5 m | | | | | | | | |
| 45 | | Orange grey between 13.1 m - 13.7 m. | | | | | | | | |
| 46 | 14 | | | | | | | | | |
| 47 | | Bright orange between 14.3 m - 15.2 m. | | | | | | | | |
| 48 | | | | 13 | N | G | | | | |
| 49 | 15 | | | | | | | | | |
| 50 | | End of Log | 15.24 | | | | | | | |
| 51 | | | | | | | | | | |
| 52 | 16 | | | | | | | | | |
| 53 | | | | | | | | | | |
| 54 | | | | | | | | | | |
| 55 | | | | | | | | | | |
| 56 | 17 | | | | | | | | | |
| 57 | | | | | | | | | | |
| 58 | | | | | | | | | | |
| 59 | 18 | | | | | | | | | |

FILTER SAND 10X20

| | | |
|---|--|--|
| Well location: Sublease Area | Well casing diameter: 0.051 m (2") | Depth of well (TOC): 15.278 m (50.1') |
| Depth to water level (TOC): 3.16 m (10.4') | Well casing material: PVC | Well Elevation (TOC): 3.547 mNVD |
| Date of water level: October 29, 2009 | Well screen slot size: 10 slot by 0.25 mm (0.01") | Ground Elevation: 3.48 mNVD |
| Borehole diameter: 0.152 m (6") | Well screen interval (bgs): 13.746 - 15.278 m (45.1' - 50.1') | |

Log of Monitoring Well: MW-070914-PSAT-4A

Project Name/No: PSAT Drilling / 457-005.29

Drilling Company: Sonic Drilling

Client: Environment Canada

Drilling Method: Sonic Core (6" & 8" Case)

Date Drilled: September 14, 2007

Logged by: Michael Choi

Site Location: PEC Site, West Vancouver



Sheet: 1 of 1

| SUBSURFACE PROFILE | | | | SAMPLE | | | | | Backfill details |
|--------------------|--------|--|----------------|---------------------|--------------|-------------|-----------|----------|------------------|
| Depth | Symbol | Description | Depth/Elev (m) | Sample ID | Analysed Y,N | Sample Type | Vapour | LEL | |
| | | | | | | | ppm | % | |
| | | | | | | | 0 250 500 | 0 50 100 | |
| 0 | | Ground Surface | 0.00 | | | | | | |
| 1 | | Asphalt | | | | | | | |
| 2 | | Sandy Gravel Trace to some silt, some cobbles, some angular gravel (rail ballast), redish brown to brown, loose, dry | 0.46 | | | | | | |
| 3 | | Some red staining, trace shell fragments | | | | | | | |
| 4 | | Sand Trace to some gravel, trace cobbles, grey, loose, dry | 1.22 | | | | | | |
| 5 | | Trace shell fragments, trace green staining, trace red staining on gravel | 1.52 | | | | | | |
| 6 | | Sand Fine to medium grained, trace silt, trace gravel, dark brown, loose, dry to moist, trace to some wood fragments | | | | | | | |
| 7 | | Sand Fine to medium grained, trace silt, trace gravel, brown, loose, moist | | | | | | | |
| 8 | | Red mottling from 1.5 to 1.8m, grading to medium grained sand from 2.7 to 3.4m | | | | | | | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |
| 11 | | Sand Medium grained, trace silt, trace gravel and cobbles, brown, loose, wet | 3.35 | | | | | | |
| 12 | | Trace wood fragments | 3.66 | | | | | | |
| 13 | | Sandy Gravel Medium to coarse grained sand, trace silt, trace to some cobbles, brown, loose, wet | | | | | | | |
| 14 | | Red staining and precipitates from 4.7 to 5.0m | | | | | | | |
| 15 | | | | Prefixed MW-070914- | | | | | |
| 16 | | | | | | | | | |
| 17 | | Sand and Gravel Trace silt, brown, loose, wet | 5.03 | | | | | | |
| 18 | | Trace red staining | | PSAT4-A | Y | G | | | |
| 19 | | | | | | | | | |
| 20 | | | | | | | | | |
| 21 | | | | | | | | | |
| 22 | | | | | | | | | |
| 23 | | | | PSAT4-B | Y | G | | | |
| 24 | | | | | | | | | |
| 25 | | End of Log | 7.47 | | | | | | |
| 26 | | | | | | | | | |

| | | |
|---------------------------------|--|------------------------------------|
| Well location: PEC Site | Well casing diameter: 8 inch | Depth of well (TOC): 6.1 m (20 ft) |
| Depth to water level (TOC): n/a | Well casing material: Aluminum | Well Elevation (TOC): n/a |
| Date of water level: n/a | Well screen slot size: 0.025 cm | Ground Elevation: n/a |
| Borehole diameter: 8 inch | Well screen interval (bgs): 5.2 - 6.1 m (17 - 20 ft) | |

Log of Monitoring Well: MW-070914-PSAT-4B

Project Name/No: PSAT Drilling / 457-005.29

Client: Environment Canada

Date Drilled: September 14, 2007

Site Location: PEC Site, West Vancouver

Drilling Company: Sonic Drilling

Drilling Method: Sonic Core (6" & 8" Case)

Logged by: Michael Choi



Sheet: 1 of 1

| SUBSURFACE PROFILE | | | | SAMPLE | | | | | Backfill details |
|--------------------|--------|---|----------------|-----------|--------------|-------------|-----------|----------|------------------|
| Depth | Symbol | Description | Depth/Elev (m) | Sample ID | Analysed Y,N | Sample Type | Vapour | LEL | |
| | | | | | | | ppm | % | |
| 0 | | Ground Surface | 0.00 | | | | 0 250 500 | 0 50 100 | |
| 0 | | Asphalt | 0.00 | | | | | | |
| 1 | | Sandy Gravel | | | | | | | |
| 2 | | Trace to some silt, some cobbles, some angular gravel (rail ballast), redish brown to brown, loose, dry | 0.46 | | | | | | |
| 3 | | Some red staining, trace shell fragments | | | | | | | |
| 4 | | Sand | | | | | | | |
| 5 | | Trace to some gravel, trace cobbles, grey, loose, dry | 1.22 | | | | | | |
| 6 | | Trace shell fragments, trace green staining, trace red staining on gravel | 1.52 | | | | | | |
| 7 | | Sand | | | | | | | |
| 8 | | Fine to medium grained, trace silt, trace gravel, dark brown, loose, dry to moist | | | | | | | |
| 9 | | Trace to some wood fragments | | | | | | | |
| 10 | | Sand | | | | | | | |
| 11 | | Fine to medium grained, trace silt, trace gravel, brown, loose, moist | | | | | | | |
| 12 | | Red mottling from 1.5 to 1.8m, grading to medium grained sand from 2.7 to 3.4m | | | | | | | |
| 13 | | Sand | 3.35 | | | | | | |
| 14 | | Medium grained, trace silt, trace gravel and cobbles, brown, loose, wet | 3.66 | | | | | | |
| 15 | | Trace wood fragments | | | | | | | |
| 16 | | Sandy Gravel | | | | | | | |
| 17 | | Medium to coarse grained sand, trace silt, trace to some cobbles, brown, loose, wet | | | | | | | |
| 18 | | Red staining and precipitates from 4.7 to 5.0m | | | | | | | |
| 19 | | Sand and Gravel | 5.03 | | | | | | |
| 20 | | Trace silt, brown, loose, wet | | | | | | | |
| 21 | | Trace red staining | | | | | | | |
| 22 | | | | | | | | | |
| 23 | | | | | | | | | |
| 24 | | | | | | | | | |
| 25 | | End of Log | 7.47 | | | | | | |
| 26 | | | | | | | | | |

| | | |
|---------------------------------|--|--------------------------------------|
| Well location: PEC Site | Well casing diameter: 8 inch | Depth of well (TOC): 7.5 m (24.5 ft) |
| Depth to water level (TOC): n/a | Well casing material: Aluminum | Well Elevation (TOC): n/a |
| Date of water level: n/a | Well screen slot size: 0.025 cm | Ground Elevation: n/a |
| Borehole diameter: 8 inch | Well screen interval (bgs): 6.6 - 7.5 m (21.5 - 24.5 ft) | |

Log of Monitoring Well: MW-071108-PSAT-8B

Project Name/No: PSAT Drilling / 457-005.29

Drilling Company: Sonic Drilling

Client: Environment Canada

Drilling Method: Sonic Core (6" & 8" Case)

Date Drilled: November 8, 2007

Logged by: Ben Lin

Site Location: PEC Site, West Vancouver



Sheet: 1 of 1

| SUBSURFACE PROFILE | | | | SAMPLE | | | | Backfill details | |
|--------------------|--------|---|----------------|------------------------|--------------|-------------|---------|------------------|-----|
| Depth | Symbol | Description | Depth/Elev (m) | Sample ID | Analysed Y,N | Sample Type | Vapour | | LEL |
| | | | | | | | ppm | | % |
| | | | | | | | 0250500 | 050100 | |
| 0 | | Ground Surface | 0.00 | | | | | | |
| 1 | | Sand, Gravel and Cobbles Fine to medium grained sand, trace silt, yellowish grey, loose, moist | 0.30 | | | | | | |
| 2 | | Silty Sand Some gravel and cobbles, brown, loose, moist | | | | | | | |
| 3 | | Silt Some sand, grey, firm, moist | 0.91 | | | | | | |
| 4 | | Interbedded sand lenses from 1.4 to 1.8m | | | | | | | |
| 5 | | Wood fragments at 1.2m | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | Sand and Gravel Trace silt, some cobbles, loose, moist | 2.13 | | | | | | |
| 8 | | Medium to coarse grained sand from 2.1 to 2.6m | | | | | | | |
| 9 | | Grey from 2.1 to 2.3m, redish from 2.3 to 2.6m | | | | | | | |
| 10 | | Coarse grained sand, orange-brown from 2.6 to 3.4m | | | | | | | |
| 11 | | Sand and Gravel Medium to coarse grained sand, trace silt and cobbles, brown, loose, wet | 3.35 | | | | | | |
| 12 | | | | | | | | | |
| 13 | | | | | | | | | |
| 14 | | | | Prefixed MW-071108- | | | | | |
| 15 | | Gravel and Cobbles Trace silt, some sand, brown, loose, wet | 4.57 | | | | | | |
| 16 | | | | PSAT-8A | Y | G | | | |
| 17 | | | | | | | | | |
| 18 | | | | | | | | | |
| 19 | | | | | | | | | |
| 20 | | | | | | | | | |
| 21 | | | | | | | | | |
| 22 | | | | PSAT-8B | Y | G | | | |
| 23 | | | | | | | | | |
| 24 | | | | | | | | | |
| 25 | | End of Log | 7.47 | | | | | | |
| 26 | | | | | | | | | |

<

| | | |
|--|---|---|
| Well location: PEC Site | Well casing diameter: 8 inch | Depth of well (TOC): 7.5 m (24.5 ft) |
| Depth to water level (TOC): n/a | Well casing material: Aluminum | Well Elevation (TOC): n/a |
| Date of water level: n/a | Well screen slot size: 0.025 cm | Ground Elevation: n/a |
| Borehole diameter: 8 inch | Well screen interval (bgs): 6.3 - 7.5 m (20.5 - 24.5 ft) | |