



HEMMERA ENVIROCHEM INC.
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Date Received: 28-OCT-16
Report Date: 07-DEC-16 16:57 (MT)
Version: FINAL REV. 3

Client Phone: 867-456-4865

Certificate of Analysis

Lab Work Order #: L1850525
Project P.O. #: NOT SUBMITTED
Job Reference: 1343-005.21
C of C Numbers:
Legal Site Desc:

Comments:

7-DEC-2016 This report replaces the previous version and contains to certain samples Sampling Dates/Times.

Brent Mack, B.Sc.
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample ID Description Sampled Date Sampled Time Client ID | | L1850525-1 WATER 25-OCT-16 12:40 E7 | L1850525-2 WATER TRAVEL BLANK | L1850525-3 WATER 25-OCT-16 12:40 DUP2 | L1850525-4 WATER 25-OCT-16 11:30 E4 | L1850525-5 WATER 24-OCT-16 11:10 E3 |
|---|---------------------------------|---|-------------------------------------|---|---|---|
| Grouping | Analyte | | | | | |
| WATER | | | | | | |
| Physical Tests | Conductivity (uS/cm) | 1140 | <2.0 | 1130 | 1200 | 950 |
| | Hardness (as CaCO3) (mg/L) | 644 | <0.50 ^{HTC} | 642 | 696 | 589 |
| | pH (pH) | 7.98 | 5.48 | 8.00 | 7.93 | 8.24 |
| | Total Suspended Solids (mg/L) | <3.0 | <3.0 | 3.0 | <3.0 | 6.3 |
| Anions and Nutrients | Ammonia, Total (as N) (mg/L) | 0.0366 | <0.0050 | 0.0378 | 0.0313 | 0.0133 |
| | Nitrate (as N) (mg/L) | 0.138 | <0.0050 | 0.146 | 0.199 | 0.535 |
| | Nitrite (as N) (mg/L) | <0.0050 ^{DLDS} | <0.0010 | <0.0050 ^{DLDS} | <0.0050 ^{DLDS} | <0.0050 ^{DLDS} |
| | Phosphorus (P)-Total (mg/L) | <0.0020 | <0.0020 | <0.0020 | 0.0030 | 0.0093 |
| | Sulfate (SO4) (mg/L) | 409 | <0.30 | 426 | 484 | 332 |
| Organic / Inorganic Carbon | Dissolved Organic Carbon (mg/L) | 11.4 | | 11.4 | 10.9 | 11.4 |
| Total Metals | Aluminum (Al)-Total (mg/L) | 0.0362 | <0.0030 | 0.0368 | 0.0219 | 0.126 |
| | Antimony (Sb)-Total (mg/L) | 0.00041 | <0.00010 | 0.00044 | 0.00055 | 0.00158 |
| | Arsenic (As)-Total (mg/L) | 0.00110 | <0.00010 | 0.00109 | 0.00147 | 0.00171 |
| | Barium (Ba)-Total (mg/L) | 0.0811 | <0.000050 | 0.0807 | 0.0638 | 0.0929 |
| | Beryllium (Be)-Total (mg/L) | <0.000020 | <0.000020 | <0.000020 | <0.000020 | <0.000020 |
| | Bismuth (Bi)-Total (mg/L) | <0.000050 | <0.000050 | <0.000050 | <0.000050 | <0.000050 |
| | Boron (B)-Total (mg/L) | 0.070 | <0.010 | 0.072 | 0.104 | 0.168 |
| | Cadmium (Cd)-Total (mg/L) | 0.000106 | <0.000050 | 0.000112 | 0.0000956 | 0.0000475 |
| | Calcium (Ca)-Total (mg/L) | 119 | <0.050 | 122 | 118 | 95.6 |
| | Chromium (Cr)-Total (mg/L) | 0.00070 | <0.00010 | 0.00072 | 0.00084 | 0.00242 |
| | Cobalt (Co)-Total (mg/L) | 0.00192 | <0.00010 | 0.00192 | 0.00181 | 0.00038 |
| | Copper (Cu)-Total (mg/L) | 0.00149 | <0.00050 | 0.00152 | 0.00133 | 0.00183 |
| | Iron (Fe)-Total (mg/L) | 0.411 | <0.010 | 0.417 | 0.452 | 0.289 |
| | Lead (Pb)-Total (mg/L) | 0.000096 | <0.000050 | 0.000062 | 0.000056 | 0.000142 |
| | Lithium (Li)-Total (mg/L) | 0.0222 | <0.0010 | 0.0228 | 0.0284 | 0.0067 |
| | Magnesium (Mg)-Total (mg/L) | 86.0 | <0.10 | 85.3 | 95.2 | 77.5 |
| | Manganese (Mn)-Total (mg/L) | 0.730 | <0.00010 | 0.734 | 0.326 | 0.130 |
| | Mercury (Hg)-Total (mg/L) | <0.0000050 | <0.0000050 | <0.0000050 | <0.0000050 | <0.0000050 |
| | Molybdenum (Mo)-Total (mg/L) | 0.00170 | <0.000050 | 0.00178 | 0.00190 | 0.00159 |
| | Nickel (Ni)-Total (mg/L) | 0.0275 | <0.00050 | 0.0273 | 0.0311 | 0.0132 |
| | Phosphorus (P)-Total (mg/L) | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| | Potassium (K)-Total (mg/L) | 1.37 | <0.10 | 1.38 | 1.45 | 1.16 |
| | Selenium (Se)-Total (mg/L) | 0.00119 | <0.000050 | 0.00118 | 0.00148 | 0.00147 |
| | Silicon (Si)-Total (mg/L) | 5.96 | <0.050 | 6.11 | 5.97 | 7.02 |
| Silver (Ag)-Total (mg/L) | 0.000033 | <0.000010 | 0.000032 | 0.000018 | 0.000018 | |
| Sodium (Na)-Total (mg/L) | 8.01 | <0.050 | 8.08 | 8.94 | 7.99 | |

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample ID Description Sampled Date Sampled Time Client ID | L1850525-6 WATER 24-OCT-16 11:45 E2 | L1850525-8 WATER 24-OCT-16 12:10 GWCC-5 | L1850525-9 WATER 24-OCT-16 14:40 R11 | L1850525-10 WATER 24-OCT-16 17:45 E8 | L1850525-11 WATER 24-OCT-16 16:45 R4 | |
|---|---|---|--|--|--|-------------------------|
| Grouping | Analyte | | | | | |
| WATER | | | | | | |
| Physical Tests | Conductivity (uS/cm) | 1150 | 916 | 595 | 435 | 878 |
| | Hardness (as CaCO3) (mg/L) | 658 | 511 | 302 | 210 | 496 |
| | pH (pH) | 8.18 | 7.97 | 7.93 | 8.04 | 8.14 |
| | Total Suspended Solids (mg/L) | <3.0 | <3.0 | 15.2 | 7.3 | <3.0 |
| Anions and Nutrients | Ammonia, Total (as N) (mg/L) | 0.0254 | <0.0050 | 0.0083 | 0.0068 | 0.0362 |
| | Nitrate (as N) (mg/L) | 0.182 | 0.027 | 0.215 | 0.228 | 0.160 |
| | Nitrite (as N) (mg/L) | <0.0050 ^{DLDS} | <0.0050 ^{DLDS} | <0.0010 | <0.0010 | <0.0050 ^{DLDS} |
| | Phosphorus (P)-Total (mg/L) | <0.0020 | 0.012 | 0.0047 | 0.0046 | <0.0020 |
| | Sulfate (SO4) (mg/L) | 491 | 331 | 182 | 112 | 304 |
| Organic / Inorganic Carbon | Dissolved Organic Carbon (mg/L) | 13.0 | 8.24 | 10.1 | 10.9 | 9.47 |
| Total Metals | Aluminum (Al)-Total (mg/L) | 0.0146 | <0.0030 | 0.178 | 0.166 | 0.0119 |
| | Antimony (Sb)-Total (mg/L) | 0.00053 | 0.00055 | 0.00015 | 0.00015 | 0.00043 |
| | Arsenic (As)-Total (mg/L) | 0.00156 | 0.00057 | 0.00048 | 0.00050 | 0.00334 |
| | Barium (Ba)-Total (mg/L) | 0.0562 | 0.0469 | 0.0994 | 0.0690 | 0.114 |
| | Beryllium (Be)-Total (mg/L) | <0.000020 | <0.000020 | <0.000020 | <0.000020 | <0.000020 |
| | Bismuth (Bi)-Total (mg/L) | <0.000050 | <0.000050 | <0.000050 | <0.000050 | <0.000050 |
| | Boron (B)-Total (mg/L) | 0.082 | 0.026 | <0.010 | <0.010 | <0.010 |
| | Cadmium (Cd)-Total (mg/L) | 0.0000848 | 0.000125 | 0.0000573 | 0.0000457 | 0.000198 |
| | Calcium (Ca)-Total (mg/L) | 116 | 123 | 70.7 | 53.7 | 115 |
| | Chromium (Cr)-Total (mg/L) | 0.00109 | 0.00045 | 0.00067 | 0.00040 | 0.00027 |
| | Cobalt (Co)-Total (mg/L) | 0.00130 | <0.00010 | 0.00031 | 0.00090 | 0.00284 |
| | Copper (Cu)-Total (mg/L) | 0.00147 | 0.00093 | 0.00179 | 0.00309 | 0.00135 |
| | Iron (Fe)-Total (mg/L) | 0.542 | 0.026 | 0.293 | 0.360 | 0.078 |
| | Lead (Pb)-Total (mg/L) | <0.000050 | <0.000050 | 0.000144 | 0.000060 | <0.000050 |
| | Lithium (Li)-Total (mg/L) | 0.0231 | 0.0083 | <0.0010 | 0.0062 | 0.0040 |
| | Magnesium (Mg)-Total (mg/L) | 92.4 | 49.5 | 32.1 | 18.8 | 50.9 |
| | Manganese (Mn)-Total (mg/L) | 0.214 | 0.00276 | 0.0740 | 0.0561 | 0.330 |
| | Mercury (Hg)-Total (mg/L) | <0.0000050 | <0.0000050 | <0.0000050 | <0.0000050 | <0.0000050 |
| | Molybdenum (Mo)-Total (mg/L) | 0.00204 | 0.00176 | 0.000835 | 0.000593 | 0.00148 |
| | Nickel (Ni)-Total (mg/L) | 0.0289 | 0.0223 | 0.00248 | 0.00499 | 0.0177 |
| | Phosphorus (P)-Total (mg/L) | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| | Potassium (K)-Total (mg/L) | 1.33 | 0.94 | 0.50 | 1.50 | 0.69 |
| | Selenium (Se)-Total (mg/L) | 0.00195 | 0.00500 | 0.00123 | 0.000461 | 0.00283 |
| | Silicon (Si)-Total (mg/L) | 5.63 | 4.82 | 7.18 | 6.14 | 5.98 |
| Silver (Ag)-Total (mg/L) | 0.000013 | <0.000010 | 0.000010 | 0.000066 | <0.000010 | |
| Sodium (Na)-Total (mg/L) | 7.33 | 4.10 | 8.07 | 6.93 | 6.39 | |

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ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample ID Description Sampled Date Sampled Time Client ID | L1850525-1 WATER 25-OCT-16 12:40 E7 | L1850525-2 WATER TRAVEL BLANK | L1850525-3 WATER 25-OCT-16 12:40 DUP2 | L1850525-4 WATER 25-OCT-16 11:30 E4 | L1850525-5 WATER 24-OCT-16 11:10 E3 | |
|---|---|-------------------------------------|---|---|---|------------|
| Grouping | Analyte | | | | | |
| WATER | | | | | | |
| Total Metals | Strontium (Sr)-Total (mg/L) | 0.786 | <0.00020 | 0.803 | 0.857 | 0.537 |
| | Sulfur (S)-Total (mg/L) | 150 | <0.50 | 152 | 168 | 124 |
| | Thallium (Tl)-Total (mg/L) | <0.000010 | <0.000010 | 0.000016 | 0.000017 | <0.000010 |
| | Tin (Sn)-Total (mg/L) | <0.00010 | <0.00010 | <0.00010 | <0.00010 | <0.00010 |
| | Titanium (Ti)-Total (mg/L) | 0.00136 | <0.00030 | 0.00130 | 0.00073 | 0.00368 |
| | Uranium (U)-Total (mg/L) | 0.00406 | <0.000010 | 0.00404 | 0.00381 | 0.00361 |
| | Vanadium (V)-Total (mg/L) | <0.00050 | <0.00050 | <0.00050 | <0.00050 | 0.00086 |
| | Zinc (Zn)-Total (mg/L) | 0.0048 | <0.0030 | 0.0072 | 0.0039 | 0.0058 |
| | Zirconium (Zr)-Total (mg/L) | 0.00176 | <0.00030 | 0.00181 | 0.00171 | 0.00051 |
| Dissolved Metals | Dissolved Mercury Filtration Location | FIELD | | FIELD | FIELD | FIELD |
| | Dissolved Metals Filtration Location | FIELD | | FIELD | FIELD | FIELD |
| | Aluminum (Al)-Dissolved (mg/L) | 0.0052 | | 0.0055 | 0.0092 | 0.0110 |
| | Antimony (Sb)-Dissolved (mg/L) | 0.00039 | | 0.00037 | 0.00058 | 0.00162 |
| | Arsenic (As)-Dissolved (mg/L) | 0.00074 | | 0.00076 | 0.00123 | 0.00165 |
| | Barium (Ba)-Dissolved (mg/L) | 0.0783 | | 0.0781 | 0.0656 | 0.0953 |
| | Beryllium (Be)-Dissolved (mg/L) | <0.000020 | | <0.000020 | <0.000020 | <0.000020 |
| | Bismuth (Bi)-Dissolved (mg/L) | <0.000050 | | <0.000050 | <0.000050 | <0.000050 |
| | Boron (B)-Dissolved (mg/L) | 0.068 | | 0.068 | 0.102 | 0.173 |
| | Cadmium (Cd)-Dissolved (mg/L) | 0.000107 | | 0.0000967 | 0.0000773 | 0.0000375 |
| | Calcium (Ca)-Dissolved (mg/L) | 119 | | 120 | 121 | 98.2 |
| | Chromium (Cr)-Dissolved (mg/L) | 0.00039 | | 0.00040 | 0.00056 | 0.00099 |
| | Cobalt (Co)-Dissolved (mg/L) | 0.00181 | | 0.00181 | 0.00175 | 0.00024 |
| | Copper (Cu)-Dissolved (mg/L) | 0.00131 | | 0.00132 | 0.00136 | 0.00145 |
| | Iron (Fe)-Dissolved (mg/L) | 0.136 | | 0.134 | 0.261 | 0.050 |
| | Lead (Pb)-Dissolved (mg/L) | <0.000050 | | <0.000050 | <0.000050 | <0.000050 |
| | Lithium (Li)-Dissolved (mg/L) | 0.0221 | | 0.0224 | 0.0291 | 0.0068 |
| | Magnesium (Mg)-Dissolved (mg/L) | 84.1 | | 83.3 | 95.7 | 83.5 |
| | Manganese (Mn)-Dissolved (mg/L) | 0.714 | | 0.706 | 0.327 | 0.122 |
| | Mercury (Hg)-Dissolved (mg/L) | <0.0000050 | | <0.0000050 | <0.0000050 | <0.0000050 |
| | Molybdenum (Mo)-Dissolved (mg/L) | 0.00160 | | 0.00160 | 0.00186 | 0.00149 |
| | Nickel (Ni)-Dissolved (mg/L) | 0.0262 | | 0.0262 | 0.0310 | 0.0111 |
| | Phosphorus (P)-Dissolved (mg/L) | <0.050 | | <0.050 | <0.050 | <0.050 |
| | Potassium (K)-Dissolved (mg/L) | 1.33 | | 1.33 | 1.46 | 1.13 |
| | Selenium (Se)-Dissolved (mg/L) | 0.00112 | | 0.00119 | 0.00156 | 0.00167 |
| | Silicon (Si)-Dissolved (mg/L) | 5.84 | | 6.01 | 6.08 | 7.34 |
| | Silver (Ag)-Dissolved (mg/L) | <0.000010 | | <0.000010 | <0.000010 | <0.000010 |
| | Sodium (Na)-Dissolved (mg/L) | 7.87 | | 8.00 | 9.00 | 7.81 |

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ALS ENVIRONMENTAL ANALYTICAL REPORT

| | | Sample ID | L1850525-6 | L1850525-8 | L1850525-9 | L1850525-10 | L1850525-11 |
|-------------------------|---------------------------------------|--------------|------------|------------|------------|-------------|-------------|
| | | Description | WATER | WATER | WATER | WATER | WATER |
| | | Sampled Date | 24-OCT-16 | 24-OCT-16 | 24-OCT-16 | 24-OCT-16 | 24-OCT-16 |
| | | Sampled Time | 11:45 | 12:10 | 14:40 | 17:45 | 16:45 |
| | | Client ID | E2 | GWCC-5 | R11 | E8 | R4 |
| Grouping | Analyte | | | | | | |
| WATER | | | | | | | |
| Total Metals | Strontium (Sr)-Total (mg/L) | | 0.790 | 0.682 | 0.350 | 0.303 | 0.632 |
| | Sulfur (S)-Total (mg/L) | | 174 | 112 | 65.6 | 40.1 | 107 |
| | Thallium (Tl)-Total (mg/L) | | 0.000031 | 0.000016 | <0.000010 | <0.000010 | <0.000010 |
| | Tin (Sn)-Total (mg/L) | | <0.00010 | <0.00010 | <0.00010 | <0.00010 | <0.00010 |
| | Titanium (Ti)-Total (mg/L) | | 0.00035 | <0.00030 | 0.00434 | 0.00228 | 0.00041 |
| | Uranium (U)-Total (mg/L) | | 0.00338 | 0.00259 | 0.00169 | 0.00214 | 0.00574 |
| | Vanadium (V)-Total (mg/L) | | <0.00050 | <0.00050 | 0.00077 | 0.00069 | <0.00050 |
| | Zinc (Zn)-Total (mg/L) | | 0.0044 | <0.0030 | 0.0032 | 0.0088 | 0.0085 |
| | Zirconium (Zr)-Total (mg/L) | | 0.00056 | <0.00030 | 0.00059 | 0.00055 | 0.00077 |
| Dissolved Metals | Dissolved Mercury Filtration Location | | FIELD | FIELD | FIELD | FIELD | FIELD |
| | Dissolved Metals Filtration Location | | FIELD | FIELD | FIELD | FIELD | FIELD |
| | Aluminum (Al)-Dissolved (mg/L) | | 0.0088 | 0.0020 | 0.0166 | 0.0595 | 0.0057 |
| | Antimony (Sb)-Dissolved (mg/L) | | 0.00050 | 0.00054 | 0.00012 | 0.00014 | 0.00042 |
| | Arsenic (As)-Dissolved (mg/L) | | 0.00148 | 0.00054 | 0.00033 | 0.00046 | 0.00336 |
| | Barium (Ba)-Dissolved (mg/L) | | 0.0558 | 0.0474 | 0.0940 | 0.0682 | 0.117 |
| | Beryllium (Be)-Dissolved (mg/L) | | <0.000020 | <0.000020 | <0.000020 | <0.000020 | <0.000020 |
| | Bismuth (Bi)-Dissolved (mg/L) | | <0.000050 | <0.000050 | <0.000050 | <0.000050 | <0.000050 |
| | Boron (B)-Dissolved (mg/L) | | 0.078 | 0.024 | <0.010 | <0.010 | <0.010 |
| | Cadmium (Cd)-Dissolved (mg/L) | | 0.0000835 | 0.000104 | 0.0000421 | 0.0000395 | 0.000200 |
| | Calcium (Ca)-Dissolved (mg/L) | | 115 | 123 | 69.9 | 53.2 | 114 |
| | Chromium (Cr)-Dissolved (mg/L) | | 0.00110 | 0.00046 | 0.00037 | 0.00026 | 0.00024 |
| | Cobalt (Co)-Dissolved (mg/L) | | 0.00127 | <0.00010 | 0.00022 | 0.00087 | 0.00283 |
| | Copper (Cu)-Dissolved (mg/L) | | 0.00147 | 0.00089 | 0.00140 | 0.00295 | 0.00141 |
| | Iron (Fe)-Dissolved (mg/L) | | 0.462 | 0.029 | 0.068 | 0.203 | 0.062 |
| | Lead (Pb)-Dissolved (mg/L) | | <0.000050 | <0.000050 | <0.000050 | <0.000050 | <0.000050 |
| | Lithium (Li)-Dissolved (mg/L) | | 0.0230 | 0.0082 | <0.0010 | 0.0061 | 0.0038 |
| | Magnesium (Mg)-Dissolved (mg/L) | | 90.3 | 49.7 | 31.0 | 18.7 | 51.3 |
| | Manganese (Mn)-Dissolved (mg/L) | | 0.206 | 0.00293 | 0.0670 | 0.0529 | 0.330 |
| | Mercury (Hg)-Dissolved (mg/L) | | <0.0000050 | <0.0000050 | <0.0000050 | <0.0000050 | <0.0000050 |
| | Molybdenum (Mo)-Dissolved (mg/L) | | 0.00197 | 0.00161 | 0.000714 | 0.000540 | 0.00132 |
| | Nickel (Ni)-Dissolved (mg/L) | | 0.0282 | 0.0223 | 0.00203 | 0.00481 | 0.0180 |
| | Phosphorus (P)-Dissolved (mg/L) | | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| | Potassium (K)-Dissolved (mg/L) | | 1.30 | 0.95 | 0.47 | 1.49 | 0.69 |
| | Selenium (Se)-Dissolved (mg/L) | | 0.00196 | 0.00534 | 0.00119 | 0.000415 | 0.00290 |
| | Silicon (Si)-Dissolved (mg/L) | | 5.48 | 4.77 | 6.69 | 5.80 | 5.91 |
| | Silver (Ag)-Dissolved (mg/L) | | <0.000010 | <0.000010 | <0.000010 | <0.000010 | <0.000010 |
| | Sodium (Na)-Dissolved (mg/L) | | 7.16 | 4.09 | 7.76 | 6.86 | 6.38 |

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ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample ID Description Sampled Date Sampled Time Client ID | | L1850525-1 WATER 25-OCT-16 12:40 E7 | L1850525-2 WATER TRAVEL BLANK | L1850525-3 WATER 25-OCT-16 12:40 DUP2 | L1850525-4 WATER 25-OCT-16 11:30 E4 | L1850525-5 WATER 24-OCT-16 11:10 E3 |
|---|--------------------------------------|---|-------------------------------------|---|---|---|
| Grouping | Analyte | | | | | |
| WATER | | | | | | |
| Dissolved Metals | Strontium (Sr)-Dissolved (mg/L) | 0.778 | | 0.783 | 0.866 | 0.537 |
| | Sulfur (S)-Dissolved (mg/L) | 146 | | 151 | 168 | 132 |
| | Thallium (Tl)-Dissolved (mg/L) | <0.000010 | | <0.000010 | 0.000018 | <0.000010 |
| | Tin (Sn)-Dissolved (mg/L) | <0.00010 | | <0.00010 | <0.00010 | <0.00010 |
| | Titanium (Ti)-Dissolved (mg/L) | <0.00030 | | <0.00030 | <0.00030 | 0.00032 |
| | Uranium (U)-Dissolved (mg/L) | 0.00385 | | 0.00379 | 0.00382 | 0.00375 |
| | Vanadium (V)-Dissolved (mg/L) | <0.00050 | | <0.00050 | <0.00050 | <0.00050 |
| | Zinc (Zn)-Dissolved (mg/L) | 0.0041 | | 0.0043 | 0.0033 | 0.0043 |
| | Zirconium (Zr)-Dissolved (mg/L) | 0.00165 | | 0.00166 | 0.00168 | 0.00042 |
| Speciated Metals | Chromium (III)-Dissolved (mg/L) | | | | | 0.00099 |
| | Chromium (III)-Total (mg/L) | | | | | 0.00242 |
| | Hexavalent Chromium (mg/L) | | | | | <0.0010 |
| | Hexavalent Chromium-Dissolved (mg/L) | | | | | <0.0010 |

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ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample ID Description Sampled Date Sampled Time Client ID | L1850525-6 WATER 24-OCT-16 11:45 E2 | L1850525-8 WATER 24-OCT-16 12:10 GWCC-5 | L1850525-9 WATER 24-OCT-16 14:40 R11 | L1850525-10 WATER 24-OCT-16 17:45 E8 | L1850525-11 WATER 24-OCT-16 16:45 R4 | |
|---|---|---|--|--|--|-----------|
| Grouping | Analyte | | | | | |
| WATER | | | | | | |
| Dissolved Metals | Strontium (Sr)-Dissolved (mg/L) | 0.777 | 0.676 | 0.342 | 0.298 | 0.621 |
| | Sulfur (S)-Dissolved (mg/L) | 170 | 109 | 62.0 | 38.3 | 105 |
| | Thallium (Tl)-Dissolved (mg/L) | 0.000026 | 0.000015 | <0.000010 | <0.000010 | <0.000010 |
| | Tin (Sn)-Dissolved (mg/L) | <0.00010 | <0.00010 | <0.00010 | <0.00010 | <0.00010 |
| | Titanium (Ti)-Dissolved (mg/L) | <0.00030 | <0.00030 | 0.00039 | 0.00040 | <0.00030 |
| | Uranium (U)-Dissolved (mg/L) | 0.00324 | 0.00246 | 0.00157 | 0.00202 | 0.00556 |
| | Vanadium (V)-Dissolved (mg/L) | <0.00050 | <0.00050 | <0.00050 | <0.00050 | <0.00050 |
| | Zinc (Zn)-Dissolved (mg/L) | 0.0026 | 0.0014 | 0.0021 | 0.0069 | 0.0079 |
| | Zirconium (Zr)-Dissolved (mg/L) | 0.00052 | <0.00030 | 0.00054 | 0.00051 | 0.00076 |
| Speciated Metals | Chromium (III)-Dissolved (mg/L) | 0.00110 | | | | |
| | Chromium (III)-Total (mg/L) | 0.00109 | | | | |
| | Hexavalent Chromium (mg/L) | <0.0010 | | | | |
| | Hexavalent Chromium-Dissolved (mg/L) | <0.0010 | | | | |

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

Reference Information

| | Parameter | Qualifier | Applies to Sample Number(s) |
|--------------|----------------------|-----------|--|
| Matrix Spike | Manganese (Mn)-Total | MS-B | L1850525-1, -10, -11, -2, -3, -4, -5, -6, -8, -9 |
| Matrix Spike | Sodium (Na)-Total | MS-B | L1850525-1, -10, -11, -2, -3, -4, -5, -6, -8, -9 |
| Matrix Spike | Strontium (Sr)-Total | MS-B | L1850525-1, -10, -11, -2, -3, -4, -5, -6, -8, -9 |
| Matrix Spike | Sulfur (S)-Total | MS-B | L1850525-1, -10, -11, -2, -3, -4, -5, -6, -8, -9 |
| Matrix Spike | Uranium (U)-Total | MS-B | L1850525-1, -10, -11, -2, -3, -4, -5, -6, -8, -9 |

Qualifiers for Individual Parameters Listed:

| Qualifier | Description |
|-----------|--|
| DLDS | Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity. |
| HTC | Hardness was calculated from Total Ca and/or Mg concentrations and may be biased high (dissolved Ca/Mg results unavailable). |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------------------|--------|---|---------------------------------------|
| BE-D-L-CCMS-VA | Water | Diss. Be (low) in Water by CRC ICPMS Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method. | APHA 3030B/6020A (mod) |
| BE-T-L-CCMS-VA | Water | Total Be (Low) in Water by CRC ICPMS Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method. | EPA 200.2/6020A (mod) |
| CARBONS-DOC-VA | Water | Dissolved organic carbon by combustion This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)". Dissolved carbon (DOC) fractions are determined by filtering the sample through a 0.45 micron membrane filter prior to analysis. | APHA 5310B TOTAL ORGANIC CARBON (TOC) |
| CR-CR3-DIS-CALC-ED | Water | Dissolved Trivalent Chromium in Water Chromium (III)-Dissolved is calculated as the difference between the dissolved chromium and the dissolved hexavalent chromium (Cr(VI)) results. | CALCULATION |
| CR-CR3-TOT-CALC-ED | Water | Total Trivalent Chromium in Water Chromium (III)-Total is calculated as the difference between the total chromium and the hexavalent chromium (Cr(VI)) results. | CALCULATION |
| CR-CR6-ED | Water | Chromium, Hexavalent (Cr +6) This analysis is carried out using procedures adapted from method 3500-Cr C in "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from Method 1636 published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Results are based on an un-filtered, field-preserved sample. | APHA 3500-Cr C (Ion Chromatography) |
| CR6-D-IC-ED | Water | Chromium, Dissolved Hexavalent (Cr +6) This analysis is carried out using procedures adapted from method 3500-Cr C in "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from Method 1636 published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Results are based on a field-filtered, field-preserved sample. | APHA 3500-Cr C (Ion Chromatography) |
| EC-PCT-VA | Water | Conductivity (Automated) This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode. | APHA 2510 Auto. Conduc. |
| HARDNESS-CALC-VA | Water | Hardness Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO3 equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation. | APHA 2340B |
| HG-D-CVAA-VA | Water | Diss. Mercury in Water by CVAAS or CVAFS Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS or CVAFS. | APHA 3030B/EPA 1631E (mod) |
| HG-T-CVAA-VA | Water | Total Mercury in Water by CVAAS or CVAFS | EPA 1631E (mod) |

Reference Information

Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS or CVAFS.

MET-D-CCMS-VA Water Dissolved Metals in Water by CRC ICPMS APHA 3030B/6020A (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-CCMS-VA Water Total Metals in Water by CRC ICPMS EPA 200.2/6020A (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-F-VA Water Ammonia in Water by Fluorescence APHA 4500 NH3-NITROGEN (AMMONIA)

This analysis is carried out, on sulfuric acid preserved samples, using procedures modified from J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society of Chemistry, "Flow-injection analysis with fluorescence detection for the determination of trace levels of ammonium in seawater", Roslyn J. Waston et al.

NH3-F-VA Water Ammonia in Water by Fluorescence J. ENVIRON. MONIT., 2005, 7, 37-42, RSC

This analysis is carried out, on sulfuric acid preserved samples, using procedures modified from J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society of Chemistry, "Flow-injection analysis with fluorescence detection for the determination of trace levels of ammonium in seawater", Roslyn J. Waston et al.

NO2-L-IC-N-VA Water Nitrite in Water by IC (Low Level) EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-L-IC-N-VA Water Nitrate in Water by IC (Low Level) EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

P-T-PRES-COL-VA Water Total P in Water by Colour APHA 4500-P Phosphorus

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorus is determined colourimetrically after persulphate digestion of the sample.

PH-PCT-VA Water pH by Meter (Automated) APHA 4500-H "pH Value"

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

It is recommended that this analysis be conducted in the field.

PH-PCT-VA Water pH by Meter (Automated) APHA 4500-H pH Value

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

It is recommended that this analysis be conducted in the field.

SO4-IC-N-VA Water Sulfate in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

TSS-VA Water Total Suspended Solids by Gravimetric APHA 2540 D - GRAVIMETRIC

This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Suspended Solids (TSS) are determined by filtering a sample through a glass fibre filter, TSS is determined by drying the filter at 104 degrees celsius. Samples containing very high dissolved solid content (i.e. seawaters, brackish waters) may produce a positive bias by this method. Alternate analysis methods are available for these types of samples.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|---|
| ED | ALS ENVIRONMENTAL - EDMONTON, ALBERTA, CANADA |
| VA | ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA |

Chain of Custody Numbers:

Reference Information

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

mg/kg - milligrams per kilogram based on dry weight of sample.

mg/kg wwt - milligrams per kilogram based on wet weight of sample.

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.

mg/L - milligrams per litre.

< - Less than.

D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Contact: Brent Mack
Company: ALS Environmental
Address: 8081 Lougheed HWY, Suite 100
Burnaby, BC V5A1W9

REFERENCE DATA

Project / Location: L1850525

PO Number: L1850525

ALS Work Order: 1611123

TEM Water Narrative: Analysis performed on FEI Tecnai TEM with integrated EDXA capabilities. Morphology, EDXA, and SAED measurements used to determine fiber species. Representative EDXA spectra of each asbestos type detected included. Compliance samples must be received and filtered within 48 hours of collection. Collection is performed outside ALS and is the responsibility of the client. Samples disposed after 60 days. TEM grids archived 3 years. Results apply only to portions analyzed.

TEM Water Methods: "EPA 100.2" refers to drinking water samples filtered on 47mm, 0.22µm pore MCE filters. "EPA 100.1" refers to drinking water samples filtered on 47mm, 0.1µm pore Polycarbonate filters. No standard method for asbestos in nonpotable water exists. All TEM waters (potable and nonpotable) analyzed at >10,000x magnification for asbestos fibers >10µm long. Whenever possible, sufficient volume is analyzed to yield an AS of <0.20 MFL based on the detection of 1 confirmed asbestos fiber in the total area analyzed. However, the volume analyzed is dependent upon a filter loading of <25% particulate. Samples containing excessive suspended solids may not reach the recommended AS of <0.20 MFL. In any case, a minimum of 4 and a maximum of 10 openings are analyzed regardless of the AS reached or asbestos concentration detected. ALS will report results directly to state of origin only when;

- a) the Chain of Custody clearly states "drinking water for state compliance",
- b) the appropriate state drinking water form is submitted with the samples,
- c) the state form is completely filled out by the client prior to submittal, and
- d) the address to which the form is to be sent is provided.

NOTES: NA=Not Applicable, ND=None Detected, AS=Analytical Sensitivity, MFL=Millions of Fibers per Liter. † Act-Tremolite concentrations include Actinolite as well as the Libby Amphiboles; Tremolite, Winchite, & Richterite.

OH Lab ID: #4077, Ohio Analysts; P. Johnson #2268, A. Sohn #3431

PA Lab ID: #68-01320, Cert. #003

TEM ANALYSIS DATA

EDXA Resolution (eV): <175

Accelerating Voltage (keV): 100

Prep Start Date: 11/3/2016

Calibration Constant (µm/cm): 0.74

Camera Constant (mm-Å): 129.25

Analysis Start Date: 11/10/2016

Pamela Johnson

Pamela Johnson
ALS TEM Analyst

Shawn Smythe

Shawn Smythe
ALS Project Manager

This report shall not be reproduced except in full without written approval of ALS.

IDENTIFICATION

| | | |
|---------------------|---------------|---------------|
| Client Sample ID: | L1850525-5 E3 | L1850525-7 E2 |
| ALS Sample ID: | 1611123-01 | 1611123-02 |
| Method: | EPA 100.2 | EPA 100.2 |
| Date of Collection: | 10/24/2016 | 10/24/2016 |
| Time of Collection: | Not Provided | Not Provided |

FILTRATION & ANALYSIS

| | | |
|---------------------------------------|-----------|-----------|
| Date of Filtration: | 11/3/2016 | 11/3/2016 |
| Time of Filtration: | 10:00 | 10:00 |
| Volume Filtered (L): | 0.05 | 0.05 |
| Openings Analyzed: | 4 | 4 |
| Avg. Opening Area (mm ²): | 0.0108 | 0.0108 |
| AS (MFL): | 0.50 | 0.50 |

ASBESTOS COUNT

| | | |
|------------------------------|----|----|
| Chrysotile: | 29 | 16 |
| Amosite: | 0 | 0 |
| Crocidolite: | 0 | 0 |
| Act-Tremolite [†] : | 0 | 0 |
| Anthophyllite: | 0 | 0 |
| Total Asbestos: | 29 | 16 |

ASBESTOS CONCENTRATION (MFL)

| | | |
|------------------------------|--------------|-------------|
| Chrysotile: | 14.43 | 7.96 |
| Amosite: | <AS | <AS |
| Crocidolite: | <AS | <AS |
| Act-Tremolite [†] : | <AS | <AS |
| Anthophyllite: | <AS | <AS |
| Total Asbestos: | 14.43 | 7.96 |

NOTES

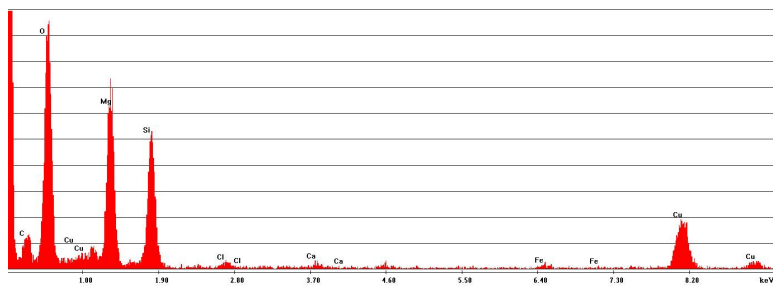
Samples L1850525-S-E3 and L1850525-7 E2 contained concentrations of asbestos fibers exceeding the action limit of 7MFL. Analysis was terminated upon completion of the minimum four openings analyzed.

EDXA SPECTRA

NOTE: Spurious peaks may originate from low background sample holder, column pole pieces, TEM grids, prep solutions or matrix materials.

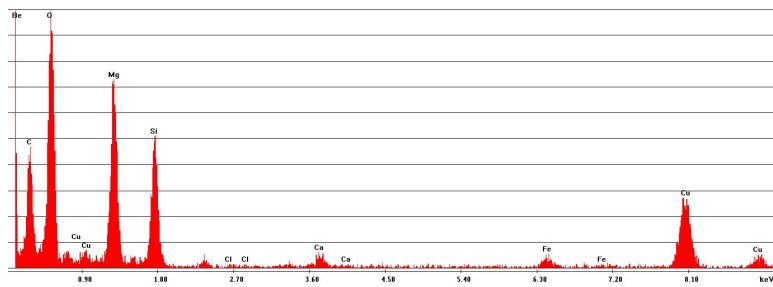
Label A: 1611123-01 CHRYSOTILE

c:\edax32\genesis\genspec.spc



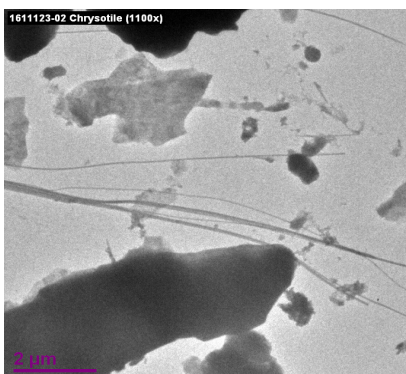
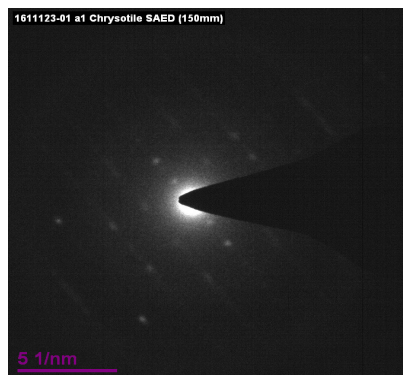
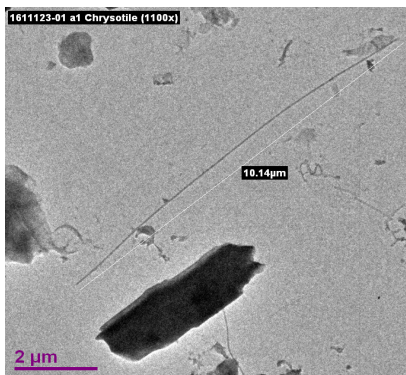
Label A: 1611123-02 CHRYSOTILE

c:\edax32\genesis\genspec.spc



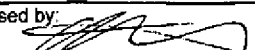
PHOTOMICROGRAPHS

Collected using Gatan Digital Micrograph.



ALS



| Report To | | Report Format / Distribution | | | Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|--|---|---|--------------------|-------------|--|----------|------------------|-----------------|------------------------|----------------------|---|---|---|---|--|--------------------------------------|--|-------------|--------------------------------|-------------|-------------|------------------|----------|------------------|-----------------|------------------------|----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Company: Hemmera Environchem Inc. | | Select Report Format: | | | R P E E2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Contact: Natasha Sandys | | Quality Control (QC) Report with Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address: 230 - 2237 2nd Avenue Whitehorse, YT | | Select Distribution: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone: 867-456-4865 | | Email 1 or Fax nsandys@hemmera.com | | | Specify Date Required for E2,E or P: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Email 2 chris@elr.ca | | | Analysis Request | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Invoice To | | Invoice Distribution | | | Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Same as Report To <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | Select Invoice Distribution: | | | <table border="1"> <tr> <th>F/P</th> <th>P</th> <th>P</th> <th>F/P</th> <th>P</th> <th>F/P</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> | | | | | | | | | | | | F/P | P | P | F/P | P | F/P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F/P | P | P | F/P | P | F/P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Copy of Invoice with Report <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | Email 1 or Fax nsandys@hemmera.com | | | <table border="1"> <tr> <td>Low Level Diss. Met (incl. Hg) and Hardness</td> <td>Low Level Tot. Met (incl. Hg) and Hardness</td> <td>Chromium Speciation (III/VI) - Total</td> <td>Chromium Speciation (III/VI) - Dissolved</td> <td>Ammonia - N</td> <td>Dissolved Organic Carbon (DOC)</td> <td>Nitrate - N</td> <td>Nitrite - N</td> <td>Total Phosphorus</td> <td>Sulphate</td> <td>pH, Conductivity</td> <td>Asbestos-TEM-AD</td> <td>Total Suspended Solids</td> <td>Number of Containers</td> </tr> </table> | | | | | | | | | | | | Low Level Diss. Met (incl. Hg) and Hardness | Low Level Tot. Met (incl. Hg) and Hardness | Chromium Speciation (III/VI) - Total | Chromium Speciation (III/VI) - Dissolved | Ammonia - N | Dissolved Organic Carbon (DOC) | Nitrate - N | Nitrite - N | Total Phosphorus | Sulphate | pH, Conductivity | Asbestos-TEM-AD | Total Suspended Solids | Number of Containers | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low Level Diss. Met (incl. Hg) and Hardness | Low Level Tot. Met (incl. Hg) and Hardness | Chromium Speciation (III/VI) - Total | Chromium Speciation (III/VI) - Dissolved | Ammonia - N | Dissolved Organic Carbon (DOC) | Nitrate - N | Nitrite - N | Total Phosphorus | Sulphate | pH, Conductivity | Asbestos-TEM-AD | Total Suspended Solids | Number of Containers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Company: Hemmera Environchem Inc. | | Email 2 chris@elr.ca | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Information | | Oil and Gas Required Fields (client use) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALS Quote #: Q56044 | | Approver ID: | | | Cost Center: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Job #: 1343-005.21 | | GL Account: | | | Routing Code: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PO / AFE: | | Activity Code: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LSD: | | Location: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALS Lab Work Order # (lab use only) | | ALS Contact: | | | Sampler: | | | AN/NB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALS Sample # (lab use only) | Sample Identification and/or Coordinates (This description will appear on the report) | | | Date (dd-mmm-yy) | Time (hh:mm) | Sample Type | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E7 | | | | 25-Oct-16 | 12:40 | Water | R | R | | | R | R | R | R | R | R | R | R | R | R | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TRAVEL BLANK | | | | | | Water | R | R | | | R | R | R | R | R | R | R | R | R | R | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DUP2 | | | | 25-Oct-16 | 12:40 | Water | R | R | | | R | R | R | R | R | R | R | R | R | R | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E4 | | | | 25-Oct-16 | 11:30 | Water | R | R | | | R | R | R | R | R | R | R | R | R | R | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E3 | | | | 24-Oct-16 | 11:10 | Water | R | R | | | R | R | R | R | R | R | R | R | R | R | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E2 | | | | 24-Oct-16 | 11:45 | Water | R | R | | | R | R | R | R | R | R | R | R | R | R | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E2 | | | | 25-Oct-16 | 10:05 | Water | | | | | | | | | | | | | | R | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GWCC-5 | | | | 24-Oct-16 | 12:10 | Water | R | R | | | R | R | R | R | R | R | R | R | R | R | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R11 | | | | 24-Oct-16 | 14:40 | Water | R | R | | | R | R | R | R | R | R | R | R | R | R | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E8 | | | | 24-Oct-16 | 17:45 | Water | R | R | | | R | R | R | R | R | R | R | R | R | R | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R4 | | | | 24-Oct-16 | 16:45 | Water | R | R | | | R | R | R | R | R | R | R | R | R | R | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Drinking Water (DW) Samples¹ (client use) | | | | Special Instructions / Specify Criteria to add on report (client Use) | | | | SAMPLE CONDITION AS RECEIVED (lab use only) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Are samples taken from a Regulated DW System? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | Please hold samples for total and dissolved Chromium III/VI pending regular metals analysis results. Please supply ELR EQWIN EDD file with results. | | | | Frozen <input type="checkbox"/> SIF Observations Yes <input type="checkbox"/> No <input type="checkbox"/> Ice packs Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Custody seal intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Cooling Initiated <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Are samples for human drinking water use? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | | | | | INITIAL COOLER TEMPERATURES °C: 1.0 2.00 FINAL COOLER TEMPERATURES °C: 3.6 5.1 0.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SHIPMENT RELEASE (client use) | | | | INITIAL SHIPMENT RECEPTION (lab use only) | | | | FINAL SHIPMENT RECEPTION (lab use only) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Released by:  | | Date: Oct. 27/16 | Time: 9:15 | Received by: ENI | | Date: 27 Oct | Time: 09:40 | Received by: LMC | | | | Date: 10/28/16 | Time: 11:00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RUSH