

T7

| Sample = HYP-PyRo Tails Whole | | | | | | | | | | | | | | | |
|-------------------------------|-------|-----------|--------|------|----------|-----------|-----------|------------|----------|-------|------|-------|----------|--------|----------|
| Date | Cycle | Volume mL | | pH | Cond. | Acidity | Acidity | Alkalinity | Sulphate | Cl | F | Br | Total CN | WAD CN | Hardness |
| | No. | Input | Output | | | (pH 4.5) | (pH 8.3) | | | | | | | | CaCO3 |
| | | | | | umhos/cm | mgCaCO3/L | mgCaCO3/L | mgCaCO3/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| 5-Mar-13 | 0 | 750 | 420 | 7.30 | 1829 | #N/A | 12.5 | 57.4 | 847 | 22 | 0.65 | 0.3 | < 0.01 | < 0.01 | 822 |
| 12-Mar-13 | 1 | 500 | 475 | 7.26 | 719 | #N/A | 8.5 | 52.4 | 273 | 4.0 | 0.74 | < 0.3 | < 0.01 | < 0.01 | 312 |
| 19-Mar-13 | 2 | 500 | 450 | 7.33 | 666 | #N/A | 11.8 | 66.8 | 268 | 1.5 | 0.83 | < 0.3 | < 0.01 | < 0.01 | 265 |
| 26-Mar-13 | 3 | 500 | 455 | 7.69 | 443 | #N/A | 7.9 | 61.8 | 138 | 0.5 | 0.73 | < 0.3 | < 0.01 | < 0.01 | 185 |
| 2-Apr-13 | 4 | 500 | 430 | 7.45 | 376 | | | | | | | | | | |
| 9-Apr-13 | 5 | 500 | 425 | 7.78 | 371 | #N/A | 6.6 | 69.2 | 106 | < 0.2 | 0.89 | < 0.3 | < 0.01 | < 0.01 | 144 |
| 16-Apr-13 | 6 | 500 | 440 | 7.45 | 376 | | | | | | | | | | |
| 23-Apr-13 | 7 | 500 | 415 | 7.78 | 256 | #N/A | 6.4 | 66.2 | 65 | 0.2 | 0.87 | < 0.3 | < 0.01 | < 0.01 | 97.7 |
| 30-Apr-13 | 8 | 500 | 400 | 7.56 | 271 | | | | | | | | | | |
| 7-May-13 | 9 | 500 | 465 | 7.78 | 289 | #N/A | 11.4 | 83.7 | 73 | 0.3 | 0.64 | < 0.3 | < 0.01 | < 0.01 | 129 |
| 14-May-13 | 10 | 500 | 425 | 7.41 | 266 | | | | | | | | | | |
| 21-May-13 | 11 | 500 | 430 | 7.84 | 261 | #N/A | 6.3 | 73.3 | 56 | 0.3 | 0.61 | < 0.3 | < 0.01 | < 0.01 | 105 |
| 28-May-13 | 12 | 500 | 485 | 7.31 | 242 | | | | | | | | | | |
| 4-Jun-13 | 13 | 500 | 445 | 7.81 | 223 | #N/A | 6.0 | 76.2 | 40 | 0.3 | 0.52 | < 0.3 | < 0.01 | < 0.01 | 101 |
| 11-Jun-13 | 14 | 500 | 445 | 7.28 | 212 | | | | | | | | | | |
| 18-Jun-13 | 15 | 500 | 420 | 7.74 | 194 | #N/A | 7.4 | 70.6 | 31 | 0.6 | 0.46 | < 0.3 | #N/A | #N/A | 89.8 |
| 25-Jun-13 | 16 | 500 | 430 | 7.42 | 189 | | | | | | | | | | |
| 2-Jul-13 | 17 | 500 | 430 | 7.73 | 194 | #N/A | 10.0 | 80.1 | 27 | 0.4 | 0.40 | < 0.3 | #N/A | #N/A | 81.9 |
| 9-Jul-13 | 18 | 500 | 420 | 7.76 | 185 | | | | | | | | | | |
| 16-Jul-13 | 19 | 500 | 425 | 7.80 | 192 | #N/A | 5.1 | 71.2 | 22 | < 1 | 0.33 | < 0.3 | #N/A | #N/A | 86.7 |
| 23-Jul-13 | 20 | 500 | 430 | 7.77 | 161 | | | | | | | | | | |
| 30-Jul-13 | 21 | 500 | 435 | 7.77 | 175 | #N/A | 6.4 | 70.6 | 21 | 0.3 | 0.32 | < 0.3 | #N/A | #N/A | 79.0 |
| 6-Aug-13 | 22 | 500 | 430 | 7.79 | 166 | | | | | | | | | | |
| 13-Aug-13 | 23 | 500 | 435 | 7.80 | 180 | #N/A | 5.5 | 70.5 | 14 | < 1 | 0.29 | < 0.3 | #N/A | #N/A | 79.4 |
| 20-Aug-13 | 24 | 500 | 365 | 7.68 | 178 | | | | | | | | | | |
| 27-Aug-13 | 25 | 500 | 430 | 7.83 | 153 | #N/A | 3.8 | 63.8 | 13 | 0.4 | 0.22 | < 0.3 | #N/A | #N/A | 69.7 |
| 3-Sep-13 | 26 | 500 | 435 | 7.78 | 146 | | | | | | | | | | |
| 10-Sep-13 | 27 | 500 | 420 | 7.75 | 152 | #N/A | 4.8 | 62.5 | 11 | 0.3 | 0.24 | < 0.3 | #N/A | #N/A | 72.4 |
| 17-Sep-13 | 28 | 500 | 425 | 7.81 | 159 | | | | | | | | | | |
| 24-Sep-13 | 29 | 500 | 440 | 7.85 | 174 | #N/A | 3.0 | 65.3 | 13 | 0.4 | 0.21 | < 0.3 | #N/A | #N/A | 81.9 |
| 1-Oct-13 | 30 | 500 | 435 | 7.88 | 171 | | | | | | | | | | |
| 8-Oct-13 | 31 | 500 | 420 | 7.87 | 178 | #N/A | 2.6 | 68.7 | | | | | | | |

Mar 5/13 to July 30/13 As removed due to As contamination from silicon sealant.
Aug 20/13 New cell constructed using new sealant.

T7

| Sample = HYP-PyRo Tails Whole | | | | | | | | | | | | | | | |
|-------------------------------|-------|--------|--------|------|--------|-----------|-----------|--------|------------|------|----------|----------|----------|---------|-----------|
| Date | Cycle | Al | Sb | As | Ba | Be | Bi | B | Cd | Ca | Cr | Co | Cu | Fe | Pb |
| | No. | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| 5-Mar-13 | 0 | 0.0288 | 0.0014 | #N/A | 0.0278 | < 0.00002 | < 0.00001 | 0.0411 | 0.000022 | 304 | < 0.0005 | 0.000304 | 0.0013 | < 0.003 | 0.00018 |
| 12-Mar-13 | 1 | 0.0399 | 0.0012 | #N/A | 0.0158 | < 0.00002 | < 0.00001 | 0.0368 | 0.000021 | 113 | < 0.0005 | 0.000082 | 0.0011 | 0.007 | 0.00012 |
| 19-Mar-13 | 2 | 0.0279 | 0.0013 | #N/A | 0.0209 | < 0.00002 | < 0.00001 | 0.0348 | < 0.000003 | 93.5 | < 0.0005 | 0.000153 | 0.0013 | < 0.003 | 0.00011 |
| 26-Mar-13 | 3 | 0.0518 | 0.0010 | #N/A | 0.0174 | < 0.00002 | < 0.00001 | 0.0253 | 0.000024 | 64.8 | < 0.0005 | 0.000225 | 0.0020 | < 0.003 | 0.00007 |
| 2-Apr-13 | 4 | | | | | | | | | | | | | | |
| 9-Apr-13 | 5 | 0.0266 | 0.0013 | #N/A | 0.0235 | < 0.00002 | < 0.00001 | 0.0246 | 0.000011 | 49.7 | < 0.0005 | 0.000137 | < 0.0005 | < 0.003 | 0.00007 |
| 16-Apr-13 | 6 | | | | | | | | | | | | | | |
| 23-Apr-13 | 7 | 0.0325 | 0.0017 | #N/A | 0.0303 | < 0.00002 | < 0.00001 | 0.0179 | 0.000012 | 32.9 | < 0.0005 | 0.000058 | 0.0010 | 0.006 | 0.00008 |
| 30-Apr-13 | 8 | | | | | | | | | | | | | | |
| 7-May-13 | 9 | 0.0192 | 0.0023 | #N/A | 0.0516 | < 0.00002 | < 0.00001 | 0.0163 | 0.000012 | 43.7 | < 0.0005 | 0.000153 | 0.0005 | < 0.003 | 0.00003 |
| 14-May-13 | 10 | | | | | | | | | | | | | | |
| 21-May-13 | 11 | 0.0217 | 0.0028 | #N/A | 0.0497 | < 0.00002 | < 0.00001 | 0.0119 | 0.000004 | 35.7 | < 0.0005 | 0.000037 | 0.0006 | < 0.003 | < 0.00002 |
| 28-May-13 | 12 | | | | | | | | | | | | | | |
| 4-Jun-13 | 13 | 0.0201 | 0.0027 | #N/A | 0.0590 | < 0.00002 | < 0.00001 | 0.0097 | 0.000017 | 34.2 | < 0.0005 | 0.000074 | 0.0139 | < 0.003 | < 0.00002 |
| 11-Jun-13 | 14 | | | | | | | | | | | | | | |
| 18-Jun-13 | 15 | 0.0179 | 0.0032 | #N/A | 0.0653 | < 0.00002 | < 0.00001 | 0.0094 | 0.000021 | 30.2 | < 0.0005 | 0.000150 | < 0.0005 | 0.005 | < 0.00002 |
| 25-Jun-13 | 16 | | | | | | | | | | | | | | |
| 2-Jul-13 | 17 | 0.0265 | 0.0032 | #N/A | 0.0738 | < 0.00002 | < 0.00001 | 0.0082 | 0.000008 | 27.5 | < 0.0005 | 0.000027 | 0.0007 | < 0.003 | < 0.00002 |
| 9-Jul-13 | 18 | | | | | | | | | | | | | | |
| 16-Jul-13 | 19 | 0.0253 | 0.0029 | #N/A | 0.0821 | < 0.00002 | < 0.00001 | 0.0073 | 0.000011 | 29.1 | < 0.0005 | 0.000047 | 0.0027 | < 0.003 | 0.00003 |
| 23-Jul-13 | 20 | | | | | | | | | | | | | | |
| 30-Jul-13 | 21 | 0.0235 | 0.0028 | #N/A | 0.0888 | < 0.00002 | < 0.00001 | 0.0077 | 0.000009 | 26.4 | < 0.0005 | 0.000019 | 0.0006 | < 0.003 | 0.00002 |
| 6-Aug-13 | 22 | | | | | | | | | | | | | | |
| 13-Aug-13 | 23 | 0.0220 | 0.0027 | #N/A | 0.107 | < 0.00002 | < 0.00001 | 0.0064 | 0.000023 | 26.4 | < 0.0005 | 0.000142 | 0.0007 | 0.010 | 0.00002 |
| 20-Aug-13 | 24 | | | | | | | | | | | | | | |
| 27-Aug-13 | 25 | 0.0302 | 0.0022 | #N/A | 0.117 | < 0.00002 | < 0.00001 | 0.0298 | < 0.000003 | 23.3 | < 0.0005 | 0.000038 | 0.0010 | < 0.003 | 0.00003 |
| 3-Sep-13 | 26 | | | | | | | | | | | | | | |
| 10-Sep-13 | 27 | 0.0397 | 0.0021 | #N/A | 0.122 | < 0.00002 | < 0.00001 | 0.0164 | 0.000010 | 24.6 | < 0.0005 | 0.000119 | 0.0009 | 0.012 | 0.00002 |
| 17-Sep-13 | 28 | | | | | | | | | | | | | | |
| 24-Sep-13 | 29 | 0.0220 | 0.0025 | #N/A | 0.141 | < 0.00002 | < 0.00001 | 0.0140 | 0.000007 | 27.3 | < 0.0005 | 0.000039 | 0.0009 | < 0.003 | 0.00007 |
| 1-Oct-13 | 30 | | | | | | | | | | | | | | |
| 8-Oct-13 | 31 | | | | | | | | | | | | | | |

Mar 5/13 to July 30/13 As removed due to As contamination from silicon sealant.
 Aug 20/13 New cell constructed using new sealant.

T7

| Sample = HYP-PyRo Tails Whole | | | | | | | | | | | | | | | |
|-------------------------------|-------|---------|------|--------|--------|---------|----------|---------|------|---------|------|-----------|------|-------|------|
| Date | Cycle | Li | Mg | Mn | Hg | Mo | Ni | P | K | Se | Si | Ag | Na | Sr | S |
| | No. | mg/L | mg/L | mg/L | ug/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| 5-Mar-13 | 0 | 0.004 | 15.3 | 0.0685 | < 0.01 | 0.0189 | 0.0015 | 0.346 | 63.7 | 0.00267 | 13.4 | 0.00001 | 33.0 | 1.27 | 318 |
| 12-Mar-13 | 1 | 0.002 | 7.41 | 0.0365 | < 0.01 | 0.0117 | 0.0007 | 0.105 | 32.8 | 0.00116 | 31.4 | < 0.00001 | 9.18 | 0.508 | 112 |
| 19-Mar-13 | 2 | 0.002 | 7.59 | 0.0248 | < 0.01 | 0.0126 | 0.0004 | 0.076 | 28.6 | 0.00102 | 16.8 | < 0.00001 | 5.93 | 0.461 | 88.6 |
| 26-Mar-13 | 3 | 0.001 | 5.55 | 0.0184 | < 0.01 | 0.00763 | 0.0003 | 0.048 | 18.8 | 0.00059 | 11.5 | < 0.00001 | 2.64 | 0.312 | 51.9 |
| 2-Apr-13 | 4 | | | | | | | | | | | | | | |
| 9-Apr-13 | 5 | 0.001 | 4.89 | 0.0161 | < 0.01 | 0.00982 | 0.0002 | 0.018 | 15.7 | 0.00169 | 9.16 | < 0.00001 | 1.56 | 0.260 | 35.4 |
| 16-Apr-13 | 6 | | | | | | | | | | | | | | |
| 23-Apr-13 | 7 | 0.001 | 3.77 | 0.0103 | < 0.01 | 0.00947 | 0.0003 | 0.020 | 12.3 | 0.00035 | 8.02 | < 0.00001 | 0.84 | 0.192 | 19.1 |
| 30-Apr-13 | 8 | | | | | | | | | | | | | | |
| 7-May-13 | 9 | 0.001 | 4.83 | 0.0169 | < 0.01 | 0.0226 | < 0.0001 | 0.019 | 11.7 | 0.00031 | 7.16 | < 0.00001 | 0.69 | 0.259 | 22.9 |
| 14-May-13 | 10 | | | | | | | | | | | | | | |
| 21-May-13 | 11 | 0.001 | 3.97 | 0.0121 | < 0.01 | 0.0326 | < 0.0001 | 0.019 | 8.83 | 0.00026 | 6.24 | < 0.00001 | 0.47 | 0.212 | 17.9 |
| 28-May-13 | 12 | | | | | | | | | | | | | | |
| 4-Jun-13 | 13 | < 0.001 | 3.85 | 0.0111 | < 0.01 | 0.0298 | 0.0029 | 0.016 | 8.35 | 0.00035 | 5.88 | 0.00001 | 0.38 | 0.199 | 12.4 |
| 11-Jun-13 | 14 | | | | | | | | | | | | | | |
| 18-Jun-13 | 15 | 0.001 | 3.50 | 0.0094 | < 0.01 | 0.0279 | 0.0002 | 0.017 | 7.14 | 0.00054 | 5.91 | < 0.00001 | 0.37 | 0.185 | 10.6 |
| 25-Jun-13 | 16 | | | | | | | | | | | | | | |
| 2-Jul-13 | 17 | < 0.001 | 3.24 | 0.0071 | < 0.01 | 0.0274 | 0.0003 | 0.015 | 6.40 | 0.00026 | 4.09 | < 0.00001 | 0.29 | 0.171 | 9.39 |
| 9-Jul-13 | 18 | | | | | | | | | | | | | | |
| 16-Jul-13 | 19 | < 0.001 | 3.43 | 0.0050 | < 0.01 | 0.0240 | 0.0003 | 0.016 | 5.53 | 0.00031 | 4.64 | < 0.00001 | 0.31 | 0.176 | 8.00 |
| 23-Jul-13 | 20 | | | | | | | | | | | | | | |
| 30-Jul-13 | 21 | < 0.001 | 3.15 | 0.0036 | 0.01 | 0.0190 | 0.0001 | 0.020 | 5.01 | 0.00031 | 4.29 | < 0.00001 | 0.26 | 0.162 | 5.87 |
| 6-Aug-13 | 22 | | | | | | | | | | | | | | |
| 13-Aug-13 | 23 | < 0.001 | 3.27 | 0.0034 | < 0.01 | 0.0169 | 0.0006 | 0.018 | 4.59 | 0.00037 | 4.16 | < 0.00001 | 0.25 | 0.172 | 5.29 |
| 20-Aug-13 | 24 | | | | | | | | | | | | | | |
| 27-Aug-13 | 25 | < 0.001 | 2.82 | 0.0023 | 0.01 | 0.0139 | 0.0002 | < 0.009 | 4.04 | 0.00017 | 1.60 | < 0.00001 | 0.31 | 0.150 | 4.49 |
| 3-Sep-13 | 26 | | | | | | | | | | | | | | |
| 10-Sep-13 | 27 | < 0.001 | 2.95 | 0.0004 | < 0.01 | 0.0155 | < 0.0001 | < 0.009 | 3.80 | 0.00029 | 1.58 | < 0.00001 | 0.27 | 0.151 | 4.96 |
| 17-Sep-13 | 28 | | | | | | | | | | | | | | |
| 24-Sep-13 | 29 | < 0.001 | 3.36 | 0.0021 | < 0.01 | 0.0220 | < 0.0001 | < 0.009 | 4.00 | 0.00041 | 1.64 | < 0.00001 | 0.28 | 0.168 | 6.76 |
| 1-Oct-13 | 30 | | | | | | | | | | | | | | |
| 8-Oct-13 | 31 | | | | | | | | | | | | | | |

Mar 5/13 to July 30/13 As removed due to As contamination from silicon sealant.
 Aug 20/13 New cell constructed using new sealant.

T7

| Sample = HYP-PyRo Tails Whole | | | | | | | | | | | | | |
|-------------------------------|-------|-----------|---------|----------|---------|-----------|---------|-----------|---------------|--------------|---------------|-------|----------|
| Date | Cycle | Tl | Sn | Ti | U | V | Zn | Zr | SGS File # | Major Anions | Major Cations | Diff | Diff (%) |
| | No. | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | | | | | |
| 5-Mar-13 | 0 | 0.00010 | 0.0168 | 0.0002 | 0.0431 | 0.00014 | 0.002 | 0.00007 | CA15116-MAR13 | 19.45 | 19.54 | 0.09 | 0.2% |
| 12-Mar-13 | 1 | 0.00005 | 0.0145 | 0.0004 | 0.0206 | 0.00014 | 0.001 | < 0.00001 | CA15226-MAR13 | 6.89 | 7.51 | 0.63 | 4.4% |
| 19-Mar-13 | 2 | 0.00005 | 0.0153 | 0.0002 | 0.0263 | < 0.00003 | 0.001 | 0.00001 | CA15327-MAR13 | 7.00 | 6.30 | -0.70 | -5.3% |
| 26-Mar-13 | 3 | 0.00003 | 0.0133 | 0.0001 | 0.0199 | 0.00015 | 0.001 | 0.00002 | CA15431-MAR13 | 4.16 | 4.31 | 0.14 | 1.7% |
| 2-Apr-13 | 4 | | | | | | | | | | | | |
| 9-Apr-13 | 5 | 0.00003 | 0.0169 | 0.0001 | 0.0166 | 0.00014 | < 0.001 | < 0.00001 | CA15189-APR13 | 3.64 | 3.37 | -0.27 | -3.9% |
| 16-Apr-13 | 6 | | | | | | | | | | | | |
| 23-Apr-13 | 7 | 0.00002 | 0.0236 | 0.0001 | 0.0112 | 0.00014 | 0.004 | 0.00003 | CA15318-APR13 | 2.73 | 2.32 | -0.41 | -8.2% |
| 30-Apr-13 | 8 | | | | | | | | | | | | |
| 7-May-13 | 9 | 0.00003 | 0.0271 | 0.0001 | 0.0168 | 0.00020 | 0.001 | < 0.00001 | CA15169-MAY13 | 3.24 | 2.92 | -0.32 | -5.2% |
| 14-May-13 | 10 | | | | | | | | | | | | |
| 21-May-13 | 11 | 0.00003 | 0.0389 | 0.0002 | 0.0136 | 0.00018 | < 0.001 | 0.00002 | CA15297-MAY13 | 2.67 | 2.37 | -0.31 | -6.1% |
| 28-May-13 | 12 | | | | | | | | | | | | |
| 4-Jun-13 | 13 | < 0.00002 | 0.0314 | 0.0001 | 0.0114 | 0.00017 | < 0.001 | 0.00004 | CA15027-JUN13 | 2.39 | 2.26 | -0.13 | -2.8% |
| 11-Jun-13 | 14 | | | | | | | | | | | | |
| 18-Jun-13 | 15 | < 0.00002 | 0.0397 | < 0.0001 | 0.0102 | 0.00017 | 0.001 | < 0.00001 | CA15260-JUN13 | 2.10 | 2.00 | -0.10 | -2.3% |
| 25-Jun-13 | 16 | | | | | | | | | | | | |
| 2-Jul-13 | 17 | < 0.00002 | 0.0312 | 0.0002 | 0.00910 | 0.00027 | 0.001 | < 0.00001 | CA15072-JUL13 | 2.20 | 1.82 | -0.37 | -9.2% |
| 9-Jul-13 | 18 | | | | | | | | | | | | |
| 16-Jul-13 | 19 | < 0.00002 | 0.0372 | 0.0001 | 0.00815 | 0.00018 | 0.002 | 0.00001 | CA15331-JUL13 | 1.90 | 1.90 | 0.00 | 0.0% |
| 23-Jul-13 | 20 | | | | | | | | | | | | |
| 30-Jul-13 | 21 | < 0.00002 | 0.0363 | < 0.0001 | 0.00732 | 0.00018 | < 0.001 | < 0.00001 | CA15571-JUL13 | 1.87 | 1.72 | -0.15 | -4.2% |
| 6-Aug-13 | 22 | | | | | | | | | | | | |
| 13-Aug-13 | 23 | < 0.00002 | 0.04007 | < 0.0001 | 0.00694 | 0.00016 | 0.002 | < 0.00001 | CA15169-AUG13 | 1.72 | 1.72 | 0.01 | 0.3% |
| 20-Aug-13 | 24 | | | | | | | | | | | | |
| 27-Aug-13 | 25 | < 0.00002 | 0.0128 | < 0.0001 | 0.00639 | 0.00024 | < 0.001 | < 0.00001 | CA15350-AUG13 | 1.57 | 1.53 | -0.04 | -1.4% |
| 3-Sep-13 | 26 | | | | | | | | | | | | |
| 10-Sep-13 | 27 | < 0.00002 | 0.00660 | < 0.0001 | 0.00687 | 0.00021 | 0.001 | < 0.00001 | CA15108-SEP13 | 1.50 | 1.59 | 0.09 | 3.0% |
| 17-Sep-13 | 28 | | | | | | | | | | | | |
| 24-Sep-13 | 29 | < 0.00002 | 0.00300 | < 0.0001 | 0.00873 | 0.00018 | < 0.001 | < 0.00001 | CA15308-SEP13 | 1.60 | 1.77 | 0.17 | 5.0% |
| 1-Oct-13 | 30 | | | | | | | | | | | | |
| 8-Oct-13 | 31 | | | | | | | | | | | | |

Mar 5/13 to July 30/13 As removed due to As contamination from silicon sealant.
Aug 20/13 New cell constructed using new sealant.

Col 5

| Sample = Pyrite Rougher Tails (>75 µm) | | | | | | | | | | | | | | | | | | |
|--|-------|-----------|-----------|--------|------|----------|-----------|-----------|------------|----------|-------|--------|-------|----------|--------|----------|--------|--------|
| Date | Cycle | Approx. | Volume mL | | pH | Cond. | Acidity | Acidity | Alkalinity | Sulphate | Cl | F | Br | Total CN | WAD CN | Hardness | Al | Sb |
| | No. | Flow Rate | Input | Output | | umhos/cm | (pH 4.5) | (pH 8.3) | | | | | | | | CaCO3 | | |
| | | (mL/min) | | | | | mgCaCO3/L | mgCaCO3/L | mgCaCO3/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| 4-May-11 | 1 | 0.5 | 1505 | 325 | 7.68 | 2297 | #N/A | 8.4 | 89.1 | 1224 | 62 | < 0.06 | < 0.3 | < 0.01 | < 0.01 | 1170 | 0.0462 | 0.0031 |
| 11-May-11 | 2 | 0.5 | 300 | 280 | 7.66 | 878 | #N/A | 5.1 | 82.7 | 363 | 2.5 | 0.06 | < 0.3 | < 0.01 | < 0.01 | 313 | 0.0503 | 0.0030 |
| 18-May-11 | 3 | 0.5 | 300 | 305 | #N/A | #N/A | #N/A | #N/A | #N/A | 180 | 0.8 | 0.06 | < 0.3 | < 0.01 | < 0.01 | 195 | 0.0642 | 0.0033 |
| 25-May-11 | 4 | 0.5 | 300 | 285 | 7.83 | 481 | #N/A | 5.9 | 81.6 | 131 | 0.6 | < 0.06 | < 0.3 | < 0.01 | < 0.01 | 157 | 0.0540 | 0.0033 |
| 1-Jun-11 | 5 | 0.5 | 300 | 290 | 7.81 | 436 | #N/A | 7.3 | 81.7 | | | | | | | | | |
| 8-Jun-11 | 6 | 0.5 | 350 | 300 | 7.66 | 418 | #N/A | 7.7 | 89.6 | 115 | 0.4 | < 0.06 | < 0.3 | < 0.01 | < 0.01 | 129 | 0.0521 | 0.0034 |
| 15-Jun-11 | 7 | 0.5 | 300 | 305 | 7.79 | 431 | | | | | | | | | | | | |
| 22-Jun-11 | 8 | 0.5 | 300 | 305 | 8.01 | 355 | #N/A | 3.5 | 94.2 | 90 | < 0.2 | < 0.06 | < 0.3 | < 0.01 | < 0.01 | 124 | 0.0504 | 0.0032 |
| 29-Jun-11 | 9 | 0.5 | 300 | 300 | 7.89 | 338 | | | | | | | | | | | | |
| 6-Jul-11 | 10 | 0.5 | 300 | 300 | 7.79 | 330 | #N/A | 5.7 | 97.4 | 76 | 0.2 | < 0.06 | < 0.3 | < 0.01 | < 0.01 | 120 | 0.0693 | 0.0029 |
| 13-Jul-11 | 11 | 0.5 | 300 | 285 | 7.74 | 318 | | | | | | | | | | | | |
| 20-Jul-11 | 12 | 0.5 | 300 | 290 | 7.88 | 310 | #N/A | 4.8 | 94.7 | 66 | 0.2 | 0.06 | < 0.3 | < 0.01 | < 0.01 | 120 | 0.0404 | 0.0033 |
| 27-Jul-11 | 13 | 0.5 | 300 | 290 | 7.89 | 306 | | | | | | | | | | | | |
| 3-Aug-11 | 14 | 0.5 | 300 | 190 | 7.79 | 299 | #N/A | 7.9 | 104.6 | 58 | < 0.2 | < 0.06 | < 0.3 | < 0.01 | < 0.01 | 115 | 0.0380 | 0.0029 |
| 10-Aug-11 | 15 | 0.5 | 300 | 300 | 7.85 | 291 | | | | | | | | | | | | |
| 17-Aug-11 | 16 | 0.5 | 300 | 295 | 7.88 | 292 | #N/A | 5.2 | 107.4 | 36 | < 0.2 | < 0.06 | < 0.3 | < 0.01 | < 0.01 | 106 | 0.0379 | 0.0031 |
| 24-Aug-11 | 17 | 0.5 | 300 | 290 | 7.82 | 291 | | | | | | | | | | | | |
| 31-Aug-11 | 18 | 0.5 | 300 | 300 | 7.88 | 301 | #N/A | 9.2 | 117.2 | 46 | < 0.2 | < 0.06 | < 0.3 | < 0.01 | < 0.01 | 124 | 0.0472 | 0.0036 |
| 7-Sep-11 | 19 | 0.5 | 300 | 295 | 8.03 | 290 | | | | | | | | | | | | |
| 14-Sep-11 | 20 | 0.5 | 300 | 310 | 7.97 | 282 | #N/A | 6.6 | 114.5 | 44 | < 0.2 | < 0.06 | < 0.3 | < 0.01 | < 0.01 | 111 | 0.0391 | 0.0029 |
| 21-Sep-11 | 21 | 0.5 | 300 | 295 | 7.86 | 284 | | | | | | | | | | | | |
| 28-Sep-11 | 22 | 0.5 | 300 | 295 | 7.92 | 283 | #N/A | 7.2 | 118.8 | 38 | < 0.2 | < 0.06 | < 0.3 | < 0.01 | < 0.01 | 112 | 0.0659 | 0.0030 |
| 5-Oct-11 | 23 | 0.5 | 300 | 305 | 7.95 | 289 | | | | | | | | | | | | |
| 12-Oct-11 | 24 | 0.5 | 300 | 305 | 8.03 | 288 | #N/A | 3.9 | 119.4 | 39 | < 0.2 | < 0.06 | < 0.3 | < 0.01 | < 0.01 | 122 | 0.0331 | 0.0032 |
| 19-Oct-11 | 25 | 0.5 | 300 | 300 | 8.00 | 296 | | | | | | | | | | | | |
| 26-Oct-11 | 26 | 0.5 | 300 | 300 | 7.94 | 292 | #N/A | 7.7 | 123.3 | 38 | < 0.2 | < 0.06 | < 0.3 | < 0.01 | < 0.01 | 119 | 0.0602 | 0.0029 |
| 2-Nov-11 | 27 | 0.5 | 300 | 305 | 7.92 | 288 | | | | | | | | | | | | |
| 9-Nov-11 | 28 | 0.5 | 300 | 290 | 7.89 | 290 | #N/A | 7.7 | 122.6 | 35 | < 0.2 | < 0.06 | < 0.3 | < 0.01 | < 0.01 | 118 | 0.0436 | 0.0031 |
| 16-Nov-11 | 29 | 0.5 | 300 | 310 | 7.98 | 290 | | | | | | | | | | | | |
| 23-Nov-11 | 30 | 0.5 | 300 | 300 | 7.94 | 285 | #N/A | 7.2 | 124.8 | 31 | < 0.2 | 0.10 | < 0.3 | < 0.01 | < 0.01 | 112 | 0.0643 | 0.0031 |
| 30-Nov-11 | 31 | 0.5 | 300 | 285 | 7.91 | 289 | | | | | | | | | | | | |
| 7-Dec-11 | 32 | 0.5 | 300 | 305 | 7.95 | 282 | #N/A | 6.4 | 123.0 | 28 | < 0.2 | < 0.06 | < 0.3 | < 0.01 | < 0.01 | 118 | 0.0458 | 0.0031 |
| 14-Dec-11 | 33 | 0.5 | 300 | 320 | 7.92 | 283 | | | | | | | | | | | | |
| 21-Dec-11 | 34 | 0.5 | 300 | 260 | 7.93 | 279 | #N/A | 7.6 | 125.4 | 31 | < 0.2 | < 0.06 | < 0.3 | < 0.01 | < 0.01 | 121 | 0.0762 | 0.0034 |
| 28-Dec-11 | 35 | 0.5 | 300 | 300 | 7.94 | 285 | | | | | | | | | | | | |
| 4-Jan-12 | 36 | 0.5 | 300 | 295 | 7.91 | 281 | #N/A | 7.6 | 141.0 | 33 | < 0.2 | < 0.06 | < 0.3 | < 0.01 | < 0.01 | 111 | 0.0889 | 0.0036 |
| 11-Jan-12 | 37 | 0.5 | 300 | 270 | 7.93 | 283 | | | | | | | | | | | | |
| 18-Jan-12 | 38 | 0.5 | 300 | 305 | 7.91 | 282 | #N/A | 4.0 | 140.7 | 34 | < 0.2 | < 0.06 | < 0.3 | < 0.01 | < 0.01 | 115 | 0.0567 | 0.0032 |
| 25-Jan-12 | 39 | 0.5 | 300 | 295 | 7.89 | 281 | | | | | | | | | | | | |
| 1-Feb-12 | 40 | 0.5 | 300 | 290 | 7.89 | 284 | #N/A | 4.9 | 141.2 | 33 | < 0.2 | < 0.06 | < 0.3 | 0.02 | < 0.01 | 116 | 0.0570 | 0.0040 |
| 8-Feb-12 | 41 | 0.5 | 300 | 300 | 7.93 | 287 | | | | | | | | | | | | |

Col 5

| Sample = Pyrite Rougher Tails (>75 µm) | | | | | | | | | | | | | | | | | | |
|--|-------|-----------|-----------|--------|------|----------|-----------|-----------|------------|----------|-------|--------|-------|----------|--------|----------|--------|--------|
| Date | Cycle | Approx. | Volume mL | | pH | Cond. | Acidity | Acidity | Alkalinity | Sulphate | Cl | F | Br | Total CN | WAD CN | Hardness | Al | Sb |
| | No. | Flow Rate | Input | Output | | umhos/cm | (pH 4.5) | (pH 8.3) | | | | | | | | CaCO3 | | |
| | | (mL/min) | | | | | mgCaCO3/L | mgCaCO3/L | mgCaCO3/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| 15-Feb-12 | 42 | 0.5 | 300 | 290 | 7.89 | 285 | | | | | | | | | | | | |
| 22-Feb-12 | 43 | 0.5 | 300 | 285 | 7.91 | 274 | | | | | | | | | | | | |
| 29-Feb-12 | 44 | 0.5 | 300 | 300 | 7.89 | 273 | #N/A | 5.1 | 125.9 | 44 | < 0.2 | < 0.06 | < 0.3 | < 0.01 | < 0.01 | 116 | 0.0365 | 0.0037 |
| 7-Mar-12 | 45 | 0.5 | 300 | 300 | 7.87 | 275 | | | | | | | | | | | | |
| 14-Mar-12 | 46 | 0.5 | 300 | 305 | 7.88 | 279 | | | | | | | | | | | | |
| 21-Mar-12 | 47 | 0.5 | 300 | 315 | 7.86 | 282 | | | | | | | | | | | | |
| 28-Mar-12 | 48 | 0.5 | 300 | 340 | 7.91 | 289 | #N/A | 5.0 | 125.2 | 29 | < 1 | < 0.06 | < 0.3 | < 0.01 | < 0.01 | 123 | 0.0555 | 0.0038 |
| 4-Apr-12 | 49 | 0.5 | 300 | 295 | 7.90 | 274 | | | | | | | | | | | | |
| 11-Apr-12 | 50 | 0.5 | 300 | 290 | 8.01 | 278 | | | | | | | | | | | | |
| 18-Apr-12 | 51 | 0.5 | 300 | 275 | 7.90 | 272 | | | | | | | | | | | | |
| 25-Apr-12 | 52 | 0.5 | 300 | 310 | 7.94 | 277 | #N/A | 6.3 | 122.7 | 32 | < 0.2 | < 0.06 | < 0.3 | < 0.01 | < 0.01 | 127 | 0.0686 | 0.0045 |
| 2-May-12 | 53 | 0.5 | 300 | 290 | 8.16 | 301 | | | | | | | | | | | | |
| 9-May-12 | 54 | 0.5 | 300 | 290 | 7.99 | 272 | | | | | | | | | | | | |
| 16-May-12 | 55 | 0.5 | 300 | 285 | 7.35 | 91 | | | | | | | | | | | | |
| 23-May-12 | 56 | 0.5 | 300 | 290 | 7.85 | 269 | #N/A | 5.7 | 119.6 | 25 | 0.3 | < 0.06 | < 0.3 | < 0.01 | < 0.01 | 113 | 0.107 | 0.0039 |
| 30-May-12 | 57 | 0.5 | 300 | 295 | 7.94 | 274 | | | | | | | | | | | | |
| 6-Jun-12 | 58 | 0.5 | 300 | 300 | 7.88 | 267 | | | | | | | | | | | | |
| 13-Jun-12 | 59 | 0.5 | 300 | 295 | 7.86 | 267 | | | | | | | | | | | | |
| 20-Jun-12 | 60 | 0.5 | 300 | 295 | 7.94 | 269 | #N/A | 6.1 | 125.7 | 24 | < 0.2 | < 0.06 | < 0.3 | < 0.01 | < 0.01 | 120 | 0.0833 | 0.0041 |
| 27-Jun-12 | 61 | 0.5 | 300 | 295 | 7.67 | 273 | | | | | | | | | | | | |
| 4-Jul-12 | 62 | 0.5 | 300 | 290 | 7.84 | 275 | | | | | | | | | | | | |
| 11-Jul-12 | 63 | 0.5 | 300 | 290 | 7.95 | 268 | | | | | | | | | | | | |
| 18-Jul-12 | 64 | 0.5 | 300 | 290 | 7.91 | 254 | #N/A | 5.3 | 121.7 | 21 | < 0.2 | < 0.06 | < 0.3 | < 0.01 | < 0.01 | 115 | 0.0696 | 0.0042 |
| 25-Jul-12 | 65 | 0.5 | 300 | 300 | 7.79 | 262 | | | | | | | | | | | | |
| 1-Aug-12 | 66 | 0.5 | 300 | 300 | 8.00 | 263 | | | | | | | | | | | | |
| 8-Aug-12 | 67 | 0.5 | 300 | 295 | 7.96 | 260 | | | | | | | | | | | | |
| 15-Aug-12 | 68 | 0.5 | 300 | 290 | 7.92 | 255 | #N/A | 5.4 | 116.9 | 20 | < 0.2 | < 0.06 | < 0.3 | < 0.01 | < 0.01 | 111 | 0.0771 | 0.0044 |
| 22-Aug-12 | 69 | 0.5 | 300 | 290 | 7.88 | 255 | | | | | | | | | | | | |
| 29-Aug-12 | 70 | 0.5 | 300 | 295 | 7.90 | 251 | | | | | | | | | | | | |
| 5-Sep-12 | 71 | 0.5 | 300 | 300 | 7.91 | 261 | | | | | | | | | | | | |
| 12-Sep-12 | 72 | 0.5 | 300 | 285 | 7.90 | 261 | #N/A | 5.4 | 118.2 | 22 | < 0.2 | < 0.06 | < 0.3 | < 0.01 | < 0.01 | 111 | 0.0362 | 0.0043 |
| 19-Sep-12 | 73 | 0.5 | 300 | 295 | 7.87 | 257 | | | | | | | | | | | | |
| 26-Sep-12 | 74 | 0.5 | 300 | 300 | 7.91 | 260 | | | | | | | | | | | | |
| 3-Oct-12 | 75 | 0.5 | 300 | 295 | 7.91 | 260 | | | | | | | | | | | | |
| 10-Oct-12 | 76 | 0.5 | 300 | 295 | 7.75 | 253 | #N/A | 9.5 | 128.1 | 21 | < 0.2 | < 0.06 | < 0.3 | < 0.01 | < 0.01 | 111 | 0.0567 | 0.0048 |
| 17-Oct-12 | 77 | 0.5 | 300 | 305 | 7.93 | 260 | | | | | | | | | | | | |
| 24-Oct-12 | 78 | 0.5 | 300 | 295 | 7.95 | 270 | | | | | | | | | | | | |
| 31-Oct-12 | 79 | 0.5 | 300 | 300 | 7.98 | 253 | | | | | | | | | | | | |
| 7-Nov-12 | 80 | 0.5 | 300 | 295 | 7.85 | 235 | #N/A | 6.5 | 123.1 | 22 | < 0.2 | < 0.06 | < 0.3 | < 0.01 | < 0.01 | 112 | 0.0295 | 0.0044 |
| 14-Nov-12 | 81 | 0.5 | 300 | 290 | 7.87 | 253 | | | | | | | | | | | | |
| 21-Nov-12 | 82 | 0.5 | 300 | 300 | 7.90 | 237 | | | | | | | | | | | | |
| 28-Nov-12 | 83 | 0.5 | 300 | 295 | 7.81 | 261 | | | | | | | | | | | | |
| 5-Dec-12 | 84 | 0.5 | 300 | 305 | 7.87 | 246 | #N/A | 11.6 | 124.7 | 19 | < 0.2 | < 0.06 | < 0.3 | < 0.01 | < 0.01 | 112 | 0.0301 | 0.0046 |

Cell Terminated

May 18/11 Titrator malfunction, samples being repeated.
 Feb, 2012 Change in analytical schedule.

Col 5

| Sample = Pyrite Rougher Tails (>75 µm) | | | | | | | | | | | | | | | | | | | | | |
|--|-----------|--------|--------|-----------|-----------|--------|----------|------|----------|----------|--------|---------|-----------|---------|------|--------|--------|--------|----------|-------|------|
| Date | Cycle No. | As | Ba | Be | Bi | B | Cd | Ca | Cr | Co | Cu | Fe | Pb | Li | Mg | Mn | Hg | Mo | Ni | P | K |
| | | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | ug/L | mg/L | mg/L | mg/L | mg/L |
| 4-May-11 | 1 | 0.0049 | 0.0799 | < 0.00002 | < 0.00001 | 0.0735 | 0.00332 | 445 | 0.0011 | 0.0031 | 0.316 | 0.003 | 0.00244 | < 0.001 | 14.8 | 0.109 | 0.03 | 1.10 | 0.0178 | 1.32 | 69.9 |
| 11-May-11 | 2 | 0.0036 | 0.0288 | < 0.00002 | 0.00008 | 0.0663 | 0.00112 | 118 | < 0.0005 | 0.0014 | 0.173 | < 0.002 | 0.00028 | < 0.001 | 4.30 | 0.0367 | 0.01 | 0.559 | 0.0010 | 0.196 | 33.9 |
| 18-May-11 | 3 | 0.0035 | 0.0266 | < 0.00002 | 0.00004 | 0.0720 | 0.000634 | 72.0 | 0.0008 | 0.0008 | 0.138 | < 0.002 | 0.00017 | < 0.001 | 3.74 | 0.0276 | 0.01 | 0.425 | 0.0024 | 0.280 | 29.1 |
| 25-May-11 | 4 | 0.0035 | 0.0295 | < 0.00002 | 0.00002 | 0.0654 | 0.000488 | 58.7 | < 0.0005 | 0.0008 | 0.115 | < 0.002 | 0.00010 | < 0.001 | 2.44 | 0.0221 | < 0.01 | 0.365 | 0.0029 | 0.276 | 23.8 |
| 1-Jun-11 | 5 | | | | | | | | | | | | | | | | | | | | |
| 8-Jun-11 | 6 | 0.0037 | 0.0281 | < 0.00002 | 0.00002 | 0.0690 | 0.000472 | 48.2 | < 0.0005 | 0.0006 | 0.0949 | < 0.002 | 0.00019 | < 0.001 | 2.21 | 0.0208 | 0.01 | 0.308 | 0.0016 | 0.278 | 21.4 |
| 15-Jun-11 | 7 | | | | | | | | | | | | | | | | | | | | |
| 22-Jun-11 | 8 | 0.0032 | 0.0281 | < 0.00002 | 0.00003 | 0.0667 | 0.000386 | 46.2 | < 0.0005 | 0.0004 | 0.0739 | < 0.002 | 0.00014 | < 0.001 | 2.15 | 0.0202 | 0.01 | 0.262 | 0.0001 | 0.174 | 20.4 |
| 29-Jun-11 | 9 | | | | | | | | | | | | | | | | | | | | |
| 6-Jul-11 | 10 | 0.0030 | 0.0326 | < 0.00002 | < 0.00001 | 0.0672 | 0.000318 | 44.6 | < 0.0005 | 0.0005 | 0.0980 | 0.002 | 0.00037 | < 0.001 | 2.16 | 0.0197 | < 0.01 | 0.238 | 0.0011 | 0.141 | 19.7 |
| 13-Jul-11 | 11 | | | | | | | | | | | | | | | | | | | | |
| 20-Jul-11 | 12 | 0.0034 | 0.0382 | < 0.00002 | 0.00001 | 0.0609 | 0.000431 | 44.3 | < 0.0005 | 0.0003 | 0.0515 | < 0.002 | 0.00008 | < 0.001 | 2.20 | 0.0206 | < 0.01 | 0.209 | 0.0015 | 0.125 | 19.2 |
| 27-Jul-11 | 13 | | | | | | | | | | | | | | | | | | | | |
| 3-Aug-11 | 14 | 0.0043 | 0.0384 | < 0.00002 | < 0.00001 | 0.0647 | 0.000229 | 42.7 | 0.0023 | 0.0004 | 0.0460 | < 0.002 | 0.00013 | < 0.001 | 2.13 | 0.0209 | 0.01 | 0.152 | 0.0001 | 0.096 | 18.9 |
| 10-Aug-11 | 15 | | | | | | | | | | | | | | | | | | | | |
| 17-Aug-11 | 16 | 0.0032 | 0.0450 | < 0.00002 | 0.00001 | 0.0623 | 0.000183 | 39.0 | 0.0018 | 0.0003 | 0.0413 | 0.009 | 0.00008 | < 0.001 | 2.05 | 0.0193 | 0.01 | 0.134 | 0.0002 | 0.098 | 18.1 |
| 24-Aug-11 | 17 | | | | | | | | | | | | | | | | | | | | |
| 31-Aug-11 | 18 | 0.0041 | 0.0516 | < 0.00002 | < 0.00001 | 0.0726 | 0.000190 | 45.7 | 0.0014 | 0.0003 | 0.0428 | 0.002 | 0.00019 | < 0.001 | 2.40 | 0.0231 | 0.01 | 0.118 | 0.0016 | 0.070 | 21.4 |
| 7-Sep-11 | 19 | | | | | | | | | | | | | | | | | | | | |
| 14-Sep-11 | 20 | 0.0033 | 0.0507 | < 0.00002 | < 0.00001 | 0.0607 | 0.000172 | 40.8 | 0.0014 | 0.0003 | 0.0356 | < 0.002 | 0.00020 | < 0.001 | 2.22 | 0.0197 | < 0.01 | 0.103 | < 0.0001 | 0.074 | 18.2 |
| 21-Sep-11 | 21 | | | | | | | | | | | | | | | | | | | | |
| 28-Sep-11 | 22 | 0.0033 | 0.0534 | < 0.00002 | < 0.00001 | 0.0506 | 0.000184 | 41.0 | 0.0016 | 0.00036 | 0.0336 | 0.002 | 0.00021 | < 0.001 | 2.28 | 0.0225 | < 0.01 | 0.0927 | 0.0001 | 0.074 | 18.7 |
| 5-Oct-11 | 23 | | | | | | | | | | | | | | | | | | | | |
| 12-Oct-11 | 24 | 0.0037 | 0.0592 | < 0.00002 | < 0.00001 | 0.0556 | 0.000151 | 44.5 | 0.0017 | 0.000200 | 0.0321 | 0.002 | 0.00015 | < 0.001 | 2.54 | 0.0239 | < 0.01 | 0.0987 | 0.0011 | 0.086 | 21.0 |
| 19-Oct-11 | 25 | | | | | | | | | | | | | | | | | | | | |
| 26-Oct-11 | 26 | 0.0033 | 0.0635 | < 0.00002 | < 0.00001 | 0.0537 | 0.000127 | 43.4 | 0.0092 | 0.000309 | 0.0323 | 0.008 | 0.00010 | < 0.001 | 2.53 | 0.0246 | 0.01 | 0.0842 | 0.0012 | 0.093 | 19.4 |
| 2-Nov-11 | 27 | | | | | | | | | | | | | | | | | | | | |
| 9-Nov-11 | 28 | 0.0033 | 0.0606 | < 0.00002 | < 0.00001 | 0.0434 | 0.000140 | 42.8 | < 0.0005 | 0.000252 | 0.0292 | < 0.003 | 0.00006 | < 0.001 | 2.61 | 0.0287 | < 0.01 | 0.0913 | 0.0018 | 0.091 | 18.1 |
| 16-Nov-11 | 29 | | | | | | | | | | | | | | | | | | | | |
| 23-Nov-11 | 30 | 0.0032 | 0.0610 | < 0.00002 | 0.00001 | 0.0430 | 0.000148 | 40.9 | < 0.0005 | 0.000302 | 0.0297 | < 0.003 | 0.00006 | < 0.001 | 2.45 | 0.0266 | < 0.01 | 0.0852 | 0.0012 | 0.076 | 17.1 |
| 30-Nov-11 | 31 | | | | | | | | | | | | | | | | | | | | |
| 7-Dec-11 | 32 | 0.0032 | 0.0635 | < 0.00002 | < 0.00001 | 0.0410 | 0.000131 | 42.8 | < 0.0005 | 0.000195 | 0.0279 | < 0.003 | < 0.00002 | < 0.001 | 2.65 | 0.0279 | 0.01 | 0.0890 | 0.0003 | 0.087 | 18.1 |
| 14-Dec-11 | 33 | | | | | | | | | | | | | | | | | | | | |
| 21-Dec-11 | 34 | 0.0033 | 0.0647 | < 0.00002 | < 0.00001 | 0.0367 | 0.000103 | 43.8 | < 0.0005 | 0.000212 | 0.0266 | < 0.003 | < 0.00002 | < 0.001 | 2.75 | 0.0285 | < 0.01 | 0.0748 | 0.0012 | 0.093 | 19.1 |
| 28-Dec-11 | 35 | | | | | | | | | | | | | | | | | | | | |
| 4-Jan-12 | 36 | 0.0033 | 0.0652 | < 0.00002 | < 0.00001 | 0.0379 | 0.000105 | 40.1 | < 0.0005 | 0.000219 | 0.0237 | < 0.003 | 0.00003 | < 0.001 | 2.61 | 0.0278 | < 0.01 | 0.0809 | 0.0020 | 0.071 | 17.4 |
| 11-Jan-12 | 37 | | | | | | | | | | | | | | | | | | | | |
| 18-Jan-12 | 38 | 0.0039 | 0.0655 | < 0.00002 | < 0.00001 | 0.0376 | 0.000097 | 41.7 | < 0.0005 | 0.000301 | 0.0272 | < 0.003 | 0.00004 | < 0.001 | 2.62 | 0.0294 | 0.01 | 0.0732 | 0.0002 | 0.085 | 15.5 |
| 25-Jan-12 | 39 | | | | | | | | | | | | | | | | | | | | |
| 1-Feb-12 | 40 | 0.0033 | 0.0680 | < 0.00002 | < 0.00001 | 0.0314 | 0.000103 | 42.1 | < 0.0005 | 0.000173 | 0.0209 | < 0.003 | 0.00004 | < 0.001 | 2.73 | 0.0311 | < 0.01 | 0.0768 | 0.0008 | 0.081 | 17.1 |
| 8-Feb-12 | 41 | | | | | | | | | | | | | | | | | | | | |

Col 5

| Sample = Pyrite Rougher Tails (>75 µm) | | | | | | | | | | | | | | | | | | | | | |
|--|-------|--------|--------|-----------|-----------|--------|------------|------|----------|----------|--------|---------|-----------|---------|------|--------|--------|--------|--------|-------|------|
| Date | Cycle | As | Ba | Be | Bi | B | Cd | Ca | Cr | Co | Cu | Fe | Pb | Li | Mg | Mn | Hg | Mo | Ni | P | K |
| | No. | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | ug/L | mg/L | mg/L | mg/L | mg/L |
| 15-Feb-12 | 42 | | | | | | | | | | | | | | | | | | | | |
| 22-Feb-12 | 43 | | | | | | | | | | | | | | | | | | | | |
| 29-Feb-12 | 44 | 0.0034 | 0.0676 | < 0.00002 | < 0.00001 | 0.0254 | 0.000085 | 41.6 | < 0.0005 | 0.0002 | 0.0194 | < 0.003 | 0.00035 | < 0.001 | 2.83 | 0.0317 | < 0.01 | 0.0700 | 0.0004 | 0.079 | 16.2 |
| 7-Mar-12 | 45 | | | | | | | | | | | | | | | | | | | | |
| 14-Mar-12 | 46 | | | | | | | | | | | | | | | | | | | | |
| 21-Mar-12 | 47 | | | | | | | | | | | | | | | | | | | | |
| 28-Mar-12 | 48 | 0.0033 | 0.0717 | < 0.00002 | < 0.00001 | 0.0256 | 0.000075 | 44.3 | 0.0017 | 0.000142 | 0.0178 | 0.080 | 0.00032 | < 0.001 | 3.02 | 0.0354 | < 0.01 | 0.0662 | 0.0010 | 0.076 | 16.4 |
| 4-Apr-12 | 49 | | | | | | | | | | | | | | | | | | | | |
| 11-Apr-12 | 50 | | | | | | | | | | | | | | | | | | | | |
| 18-Apr-12 | 51 | | | | | | | | | | | | | | | | | | | | |
| 25-Apr-12 | 52 | 0.0034 | 0.0780 | < 0.00002 | < 0.00001 | 0.0241 | 0.000050 | 45.7 | < 0.0005 | 0.000134 | 0.0173 | < 0.003 | 0.00013 | < 0.001 | 3.10 | 0.0372 | 0.02 | 0.0642 | 0.0006 | 0.077 | 15.8 |
| 2-May-12 | 53 | | | | | | | | | | | | | | | | | | | | |
| 9-May-12 | 54 | | | | | | | | | | | | | | | | | | | | |
| 16-May-12 | 55 | | | | | | | | | | | | | | | | | | | | |
| 23-May-12 | 56 | 0.0033 | 0.0707 | < 0.00002 | < 0.00001 | 0.0217 | 0.000040 | 40.7 | < 0.0005 | 0.000140 | 0.0145 | < 0.003 | 0.00004 | < 0.001 | 2.86 | 0.0351 | 0.01 | 0.0634 | 0.0016 | 0.083 | 14.1 |
| 30-May-12 | 57 | | | | | | | | | | | | | | | | | | | | |
| 6-Jun-12 | 58 | | | | | | | | | | | | | | | | | | | | |
| 13-Jun-12 | 59 | | | | | | | | | | | | | | | | | | | | |
| 20-Jun-12 | 60 | 0.0032 | 0.0822 | < 0.00002 | < 0.00001 | 0.0253 | 0.000039 | 43.1 | < 0.0005 | 0.000138 | 0.0139 | < 0.003 | 0.00003 | < 0.001 | 2.98 | 0.0378 | < 0.01 | 0.0602 | 0.0009 | 0.085 | 12.9 |
| 27-Jun-12 | 61 | | | | | | | | | | | | | | | | | | | | |
| 4-Jul-12 | 62 | | | | | | | | | | | | | | | | | | | | |
| 11-Jul-12 | 63 | | | | | | | | | | | | | | | | | | | | |
| 18-Jul-12 | 64 | 0.0032 | 0.0777 | < 0.00002 | < 0.00001 | 0.0147 | 0.000053 | 41.2 | < 0.0005 | 0.000167 | 0.0125 | < 0.003 | < 0.00002 | < 0.001 | 2.94 | 0.0377 | 0.02 | 0.0588 | 0.0003 | 0.085 | 10.5 |
| 25-Jul-12 | 65 | | | | | | | | | | | | | | | | | | | | |
| 1-Aug-12 | 66 | | | | | | | | | | | | | | | | | | | | |
| 8-Aug-12 | 67 | | | | | | | | | | | | | | | | | | | | |
| 15-Aug-12 | 68 | 0.0028 | 0.0820 | < 0.00002 | < 0.00001 | 0.0138 | < 0.000003 | 39.7 | < 0.0005 | 0.000123 | 0.0113 | 0.004 | < 0.00002 | < 0.001 | 2.89 | 0.0375 | 0.01 | 0.0608 | 0.0004 | 0.071 | 10.6 |
| 22-Aug-12 | 69 | | | | | | | | | | | | | | | | | | | | |
| 29-Aug-12 | 70 | | | | | | | | | | | | | | | | | | | | |
| 5-Sep-12 | 71 | | | | | | | | | | | | | | | | | | | | |
| 12-Sep-12 | 72 | 0.0028 | 0.0808 | < 0.00002 | < 0.00001 | 0.0130 | 0.000076 | 39.8 | < 0.0005 | 0.000101 | 0.0110 | < 0.003 | 0.00006 | < 0.001 | 2.87 | 0.0388 | < 0.01 | 0.0595 | 0.0005 | 0.066 | 9.22 |
| 19-Sep-12 | 73 | | | | | | | | | | | | | | | | | | | | |
| 26-Sep-12 | 74 | | | | | | | | | | | | | | | | | | | | |
| 3-Oct-12 | 75 | | | | | | | | | | | | | | | | | | | | |
| 10-Oct-12 | 76 | 0.0048 | 0.0874 | < 0.00002 | < 0.00001 | 0.0211 | 0.000064 | 39.8 | < 0.0005 | 0.000138 | 0.0115 | < 0.003 | 0.00002 | < 0.001 | 2.91 | 0.0411 | < 0.01 | 0.0598 | 0.0002 | 0.070 | 9.20 |
| 17-Oct-12 | 77 | | | | | | | | | | | | | | | | | | | | |
| 24-Oct-12 | 78 | | | | | | | | | | | | | | | | | | | | |
| 31-Oct-12 | 79 | | | | | | | | | | | | | | | | | | | | |
| 7-Nov-12 | 80 | 0.0027 | 0.0804 | < 0.00002 | < 0.00001 | 0.0112 | 0.000059 | 39.8 | < 0.0005 | 0.000127 | 0.0102 | < 0.003 | 0.00037 | < 0.001 | 2.98 | 0.0427 | < 0.01 | 0.0580 | 0.0003 | 0.076 | 7.97 |
| 14-Nov-12 | 81 | | | | | | | | | | | | | | | | | | | | |
| 21-Nov-12 | 82 | | | | | | | | | | | | | | | | | | | | |
| 28-Nov-12 | 83 | | | | | | | | | | | | | | | | | | | | |
| 5-Dec-12 | 84 | 0.0031 | 0.0874 | < 0.00002 | < 0.00001 | 0.0116 | 0.000078 | 39.9 | < 0.0005 | 0.000193 | 0.0118 | < 0.003 | 0.00006 | < 0.001 | 3.05 | 0.0433 | < 0.01 | 0.0593 | 0.0004 | 0.073 | 8.39 |

Cell Terminated
 May 18/11 Titrator malfunction, samples being repeated.
 Feb, 2012 Change in analytical schedule.

Col 5

| Sample = Pyrite Rougher Tails (>75 µm) | | | | | | | | | | | | | | | | | | | |
|--|-----------|-----------|---------|-----------|---------|---------|--------|----------|---------|---------|---------|---------|---------|-----------|---------------|--------------|---------------|-------|----------|
| Date | Cycle No. | Se mg/L | Si mg/L | Ag mg/L | Na mg/L | Sr mg/L | S mg/L | Tl mg/L | Sn mg/L | Ti mg/L | U mg/L | V mg/L | Zn mg/L | Zr mg/L | SGS File # | Major Anions | Major Cations | Diff | Diff (%) |
| 4-May-11 | 1 | 0.0255 | 2.31 | 0.00061 | 89.7 | 1.52 | 458 | < 0.0002 | 0.00402 | 0.0021 | 0.136 | 0.00128 | 0.039 | 0.00005 | CA14310-MAY11 | 29.03 | 29.19 | 0.16 | 0.3% |
| 11-May-11 | 2 | 0.00105 | 1.66 | 0.00007 | 35.8 | 0.413 | 129 | < 0.0002 | 0.00220 | 0.0007 | 0.0262 | 0.00128 | 0.004 | 0.00003 | CA14451-MAY11 | 9.29 | 8.71 | -0.58 | -3.2% |
| 18-May-11 | 3 | 0.00099 | 1.83 | 0.00087 | 32.3 | 0.270 | 77.0 | < 0.0002 | 0.00291 | 0.0006 | 0.0155 | 0.00163 | 0.002 | 0.00001 | CA14792-MAY11 | #N/A | 6.09 | #N/A | #N/A |
| 25-May-11 | 4 | 0.00145 | 1.57 | 0.00003 | 19.8 | 0.222 | 56.0 | < 0.0002 | 0.00944 | 0.0008 | 0.0131 | 0.00144 | 0.002 | 0.00001 | CA10944-JUN11 | 4.38 | 4.63 | 0.25 | 2.8% |
| 1-Jun-11 | 5 | | | | | | | | | | | | | | | | | | |
| 8-Jun-11 | 6 | 0.00034 | 1.61 | 0.00004 | 13.1 | 0.190 | 38.2 | 0.00006 | 0.0651 | 0.0006 | 0.0120 | 0.00147 | 0.004 | 0.00002 | CA11140-JUN11 | 4.20 | 3.74 | -0.46 | -5.8% |
| 15-Jun-11 | 7 | | | | | | | | | | | | | | | | | | |
| 22-Jun-11 | 8 | 0.00025 | 1.47 | < 0.00001 | 7.89 | 0.184 | 30.8 | 0.00005 | 0.197 | 0.0005 | 0.0103 | 0.00147 | 0.011 | 0.00001 | CA10468-JUN11 | 3.76 | 3.39 | -0.37 | -5.2% |
| 29-Jun-11 | 9 | | | | | | | | | | | | | | | | | | |
| 6-Jul-11 | 10 | 0.00026 | 1.55 | < 0.00001 | 4.55 | 0.183 | 25.0 | 0.00006 | 0.390 | 0.0004 | 0.00904 | 0.00136 | 0.004 | < 0.00001 | CA15474-JUL11 | 3.54 | 3.15 | -0.38 | -5.7% |
| 13-Jul-11 | 11 | | | | | | | | | | | | | | | | | | |
| 20-Jul-11 | 12 | 0.00094 | 1.48 | < 0.00001 | 3.30 | 0.186 | 21.8 | 0.00005 | 0.381 | 0.0004 | 0.00920 | 0.00150 | 0.002 | 0.00001 | CA16183-JUL11 | 3.28 | 3.07 | -0.21 | -3.3% |
| 27-Jul-11 | 13 | | | | | | | | | | | | | | | | | | |
| 3-Aug-11 | 14 | 0.00056 | 1.46 | < 0.00001 | 2.38 | 0.180 | 18.2 | 0.00006 | 0.380 | 0.0003 | 0.00905 | 0.00135 | 0.002 | 0.00001 | CA14195-AUG11 | 3.30 | 2.93 | -0.36 | -5.8% |
| 10-Aug-11 | 15 | | | | | | | | | | | | | | | | | | |
| 17-Aug-11 | 16 | 0.00023 | 1.26 | < 0.00001 | 2.21 | 0.166 | 17.4 | 0.00005 | 0.466 | 0.0004 | 0.00944 | 0.00131 | < 0.001 | 0.00001 | CA14769-AUG11 | 2.90 | 2.72 | -0.18 | -3.2% |
| 24-Aug-11 | 17 | | | | | | | | | | | | | | | | | | |
| 31-Aug-11 | 18 | 0.00036 | 1.59 | < 0.00001 | 1.86 | 0.200 | 16.9 | 0.00006 | 0.454 | 0.0004 | 0.00873 | 0.00147 | 0.003 | 0.00001 | CA14272-SEP11 | 3.30 | 3.15 | -0.15 | -2.3% |
| 7-Sep-11 | 19 | | | | | | | | | | | | | | | | | | |
| 14-Sep-11 | 20 | 0.00034 | 1.35 | < 0.00001 | 1.39 | 0.179 | 14.1 | 0.00005 | 0.414 | 0.0004 | 0.00910 | 0.00133 | 0.002 | 0.00001 | CA17319-SEP11 | 3.21 | 2.79 | -0.42 | -7.0% |
| 21-Sep-11 | 21 | | | | | | | | | | | | | | | | | | |
| 28-Sep-11 | 22 | 0.00043 | 1.39 | < 0.00001 | 1.22 | 0.181 | 13.1 | 0.00006 | 0.418 | 0.0003 | 0.00899 | 0.00127 | 0.003 | 0.00002 | CA18914-SEP11 | 3.17 | 2.81 | -0.36 | -6.0% |
| 5-Oct-11 | 23 | | | | | | | | | | | | | | | | | | |
| 12-Oct-11 | 24 | 0.00039 | 1.57 | < 0.00001 | 1.23 | 0.201 | 13.9 | 0.00006 | 0.427 | 0.0003 | 0.00906 | 0.00131 | 0.003 | 0.00003 | CA14526-OCT11 | 3.20 | 3.06 | -0.14 | -2.2% |
| 19-Oct-11 | 25 | | | | | | | | | | | | | | | | | | |
| 26-Oct-11 | 26 | 0.00035 | 1.38 | < 0.00001 | 1.11 | 0.197 | 13.5 | 0.00006 | 0.411 | 0.0003 | 0.00944 | 0.00130 | 0.004 | 0.00002 | CA18601-OCT11 | 3.26 | 2.96 | -0.30 | -4.8% |
| 2-Nov-11 | 27 | | | | | | | | | | | | | | | | | | |
| 9-Nov-11 | 28 | 0.00062 | 1.39 | < 0.00001 | 1.13 | 0.198 | 11.9 | 0.00006 | 0.396 | 0.0005 | 0.00895 | 0.00150 | 0.002 | < 0.00001 | CA18507-NOV11 | 3.18 | 2.90 | -0.28 | -4.6% |
| 16-Nov-11 | 29 | | | | | | | | | | | | | | | | | | |
| 23-Nov-11 | 30 | 0.00009 | 1.39 | < 0.00001 | 0.83 | 0.188 | 11.2 | 0.00006 | 0.435 | 0.0004 | 0.00818 | 0.00184 | 0.003 | < 0.00001 | CA18847-NOV11 | 3.14 | 2.76 | -0.39 | -6.5% |
| 30-Nov-11 | 31 | | | | | | | | | | | | | | | | | | |
| 7-Dec-11 | 32 | 0.00045 | 1.42 | 0.00005 | 0.83 | 0.197 | 12.4 | 0.00006 | 0.394 | 0.0003 | 0.00810 | 0.00147 | 0.002 | 0.00001 | CA14307-DEC11 | 3.04 | 2.89 | -0.15 | -2.6% |
| 14-Dec-11 | 33 | | | | | | | | | | | | | | | | | | |
| 21-Dec-11 | 34 | < 0.00004 | 1.39 | < 0.00001 | 0.84 | 0.198 | 12.2 | 0.00005 | 0.416 | 0.0006 | 0.00855 | 0.00174 | 0.004 | < 0.00001 | CA10461-DEC11 | 3.15 | 2.98 | -0.18 | -2.9% |
| 28-Dec-11 | 35 | | | | | | | | | | | | | | | | | | |
| 4-Jan-12 | 36 | 0.00038 | 1.40 | < 0.00001 | 0.75 | 0.193 | 10.8 | 0.00006 | 0.377 | 0.0006 | 0.00825 | 0.00178 | 0.002 | 0.00001 | CA10145-JAN12 | 3.51 | 2.73 | -0.77 | -12.4% |
| 11-Jan-12 | 37 | | | | | | | | | | | | | | | | | | |
| 18-Jan-12 | 38 | 0.00035 | 1.33 | < 0.00001 | 0.74 | 0.190 | 11.0 | 0.00007 | 0.364 | 0.0005 | 0.00796 | 0.00175 | 0.002 | < 0.00001 | CA11259-JAN12 | 3.52 | 2.76 | -0.76 | -12.1% |
| 25-Jan-12 | 39 | | | | | | | | | | | | | | | | | | |
| 1-Feb-12 | 40 | 0.00037 | 1.49 | < 0.00001 | 0.70 | 0.197 | 11.3 | 0.00005 | 0.361 | 0.0003 | 0.00776 | 0.00178 | 0.002 | < 0.00001 | CA14084-FEB12 | 3.51 | 2.83 | -0.68 | -10.8% |
| 8-Feb-12 | 41 | | | | | | | | | | | | | | | | | | |

Col 5

| Sample = Pyrite Rougher Tails (>75 µm) | | | | | | | | | | | | | | | | | | | |
|--|-------|---------|------|-----------|------|-------|------|---------|-------|--------|---------|---------|-------|-----------|---------------|--------------|---------------|-------|----------|
| Date | Cycle | Se | Si | Ag | Na | Sr | S | Tl | Sn | Ti | U | V | Zn | Zr | SGS File # | Major Anions | Major Cations | Diff | Diff (%) |
| | No. | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | | | | | |
| 15-Feb-12 | 42 | | | | | | | | | | | | | | | | | | |
| 22-Feb-12 | 43 | | | | | | | | | | | | | | | | | | |
| 29-Feb-12 | 44 | 0.00031 | 2.01 | < 0.00001 | 0.70 | 0.197 | 10.3 | 0.00005 | 0.302 | 0.0004 | 0.00780 | 0.00155 | 0.003 | < 0.00001 | CA14028-MAR12 | 3.43 | 2.78 | -0.65 | -10.5% |
| 7-Mar-12 | 45 | | | | | | | | | | | | | | | | | | |
| 14-Mar-12 | 46 | | | | | | | | | | | | | | | | | | |
| 21-Mar-12 | 47 | | | | | | | | | | | | | | | | | | |
| 28-Mar-12 | 48 | 0.00039 | 1.63 | < 0.00001 | 0.90 | 0.214 | 10.7 | 0.00007 | 0.387 | 0.0003 | 0.00834 | 0.00158 | 0.001 | < 0.00001 | CA14955-MAR12 | 3.11 | 2.95 | -0.16 | -2.6% |
| 4-Apr-12 | 49 | | | | | | | | | | | | | | | | | | |
| 11-Apr-12 | 50 | | | | | | | | | | | | | | | | | | |
| 18-Apr-12 | 51 | | | | | | | | | | | | | | | | | | |
| 25-Apr-12 | 52 | 0.00036 | 1.68 | < 0.00001 | 0.66 | 0.222 | 10.6 | 0.00005 | 0.326 | 0.0004 | 0.00729 | 0.00205 | 0.003 | < 0.00001 | CA15000-APR12 | 3.12 | 3.00 | -0.12 | -1.9% |
| 2-May-12 | 53 | | | | | | | | | | | | | | | | | | |
| 9-May-12 | 54 | | | | | | | | | | | | | | | | | | |
| 16-May-12 | 55 | | | | | | | | | | | | | | | | | | |
| 23-May-12 | 56 | 0.00024 | 1.56 | < 0.00001 | 0.53 | 0.202 | 9.70 | 0.00006 | 0.278 | 0.0004 | 0.00763 | 0.00200 | 0.010 | < 0.00001 | CA14956-MAY12 | 2.91 | 2.68 | -0.23 | -4.1% |
| 30-May-12 | 57 | | | | | | | | | | | | | | | | | | |
| 6-Jun-12 | 58 | | | | | | | | | | | | | | | | | | |
| 13-Jun-12 | 59 | | | | | | | | | | | | | | | | | | |
| 20-Jun-12 | 60 | 0.00049 | 1.68 | < 0.00001 | 0.57 | 0.216 | 9.42 | 0.00006 | 0.260 | 0.0003 | 0.00763 | 0.00186 | 0.006 | < 0.00001 | CA15313-JUN12 | 3.01 | 2.78 | -0.23 | -4.0% |
| 27-Jun-12 | 61 | | | | | | | | | | | | | | | | | | |
| 4-Jul-12 | 62 | | | | | | | | | | | | | | | | | | |
| 11-Jul-12 | 63 | | | | | | | | | | | | | | | | | | |
| 18-Jul-12 | 64 | 0.00039 | 1.53 | < 0.00001 | 0.53 | 0.202 | 9.17 | 0.00004 | 0.251 | 0.0003 | 0.00697 | 0.00177 | 0.002 | 0.00004 | CA15227-JUL12 | 2.87 | 2.62 | -0.25 | -4.6% |
| 25-Jul-12 | 65 | | | | | | | | | | | | | | | | | | |
| 1-Aug-12 | 66 | | | | | | | | | | | | | | | | | | |
| 8-Aug-12 | 67 | | | | | | | | | | | | | | | | | | |
| 15-Aug-12 | 68 | 0.00045 | 1.52 | < 0.00001 | 0.49 | 0.201 | 8.62 | 0.00005 | 0.210 | 0.0003 | 0.00679 | 0.00169 | 0.003 | 0.00002 | CA15197-AUG12 | 2.75 | 2.54 | -0.22 | -4.1% |
| 22-Aug-12 | 69 | | | | | | | | | | | | | | | | | | |
| 29-Aug-12 | 70 | | | | | | | | | | | | | | | | | | |
| 5-Sep-12 | 71 | | | | | | | | | | | | | | | | | | |
| 12-Sep-12 | 72 | 0.00032 | 1.49 | < 0.00001 | 0.52 | 0.202 | 8.46 | 0.00006 | 0.196 | 0.0002 | 0.00719 | 0.00128 | 0.003 | 0.00010 | CA15471-SEP12 | 2.82 | 2.50 | -0.32 | -6.0% |
| 19-Sep-12 | 73 | | | | | | | | | | | | | | | | | | |
| 26-Sep-12 | 74 | | | | | | | | | | | | | | | | | | |
| 3-Oct-12 | 75 | | | | | | | | | | | | | | | | | | |
| 10-Oct-12 | 76 | 0.00035 | 1.65 | < 0.00001 | 0.47 | 0.204 | 8.17 | 0.00005 | 0.194 | 0.0003 | 0.00665 | 0.00159 | 0.002 | < 0.00001 | CA15509-OCT12 | 3.00 | 2.51 | -0.49 | -8.9% |
| 17-Oct-12 | 77 | | | | | | | | | | | | | | | | | | |
| 24-Oct-12 | 78 | | | | | | | | | | | | | | | | | | |
| 31-Oct-12 | 79 | | | | | | | | | | | | | | | | | | |
| 7-Nov-12 | 80 | 0.00025 | 1.46 | < 0.00001 | 0.42 | 0.209 | 7.86 | 0.00005 | 0.161 | 0.0002 | 0.00544 | 0.00135 | 0.002 | < 0.00001 | CA15211-NOV12 | 2.92 | 2.47 | -0.45 | -8.3% |
| 14-Nov-12 | 81 | | | | | | | | | | | | | | | | | | |
| 21-Nov-12 | 82 | | | | | | | | | | | | | | | | | | |
| 28-Nov-12 | 83 | | | | | | | | | | | | | | | | | | |
| 5-Dec-12 | 84 | 0.00030 | 1.48 | < 0.00001 | 0.44 | 0.210 | 7.95 | 0.00005 | 0.140 | 0.0002 | 0.00616 | 0.00140 | 0.002 | < 0.00001 | CA15126-DEC12 | 2.89 | 2.50 | -0.39 | -7.3% |

Cell Terminated
 May 18/11 Titrator malfunction, samples being repeated.
 Feb, 2012 Change in analytical schedule.

Col 6

| Sample = HPY Pyrite Rougher Sands | | | | | | | | | | | | | | | | | |
|-----------------------------------|-------|-----------|-----------|--------|------|----------|-----------|-----------|------------|----------|------|------|-------|----------|--------|--------|--------|
| Date | Cycle | Approx. | Volume mL | | pH | Cond. | Acidity | Acidity | Alkalinity | Sulphate | Cl | F | Br | Hardness | Al | Sb | As |
| | No. | Flow Rate | Input | Output | | umhos/cm | (pH 4.5) | (pH 8.3) | | | | | | CaCO3 | | | |
| | | (mL/min) | | | | | mgCaCO3/L | mgCaCO3/L | mgCaCO3/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| 19-Dec-12 | 1 | 1.0 | 300 | 220 | 7.66 | 2145 | #N/A | 11.1 | 154.2 | 1177 | 42 | 0.52 | < 0.3 | 1300 | 0.0328 | 0.0030 | 0.0033 |
| 26-Dec-12 | 2 | 1.0 | 300 | 330 | 7.72 | 896 | #N/A | 9.9 | 116.2 | 276 | 5.3 | 0.65 | < 0.3 | 409 | 0.0228 | 0.0029 | 0.0025 |
| 2-Jan-13 | 3 | 1.0 | 300 | 275 | 7.73 | 745 | #N/A | 8.7 | 107.6 | 270 | 1.6 | 0.67 | < 0.3 | 319 | 0.0363 | 0.0030 | 0.0023 |
| 9-Jan-13 | 4 | 1.0 | 300 | 300 | 7.74 | 753 | #N/A | 11.3 | 109.4 | 309 | 0.8 | 0.64 | < 0.3 | 351 | 0.0306 | 0.0034 | 0.0023 |
| 16-Jan-13 | 5 | 1.0 | 300 | 295 | 7.83 | 744 | | | | | | | | | | | |
| 23-Jan-13 | 6 | 1.0 | 300 | 300 | 7.71 | 715 | #N/A | 12.2 | 114.6 | 288 | 0.6 | 0.60 | < 0.3 | 319 | 0.0344 | 0.0068 | 0.0024 |
| 30-Jan-13 | 7 | 1.0 | 300 | 300 | 7.81 | 646 | | | | | | | | | | | |
| 6-Feb-13 | 8 | 1.0 | 300 | 270 | 7.75 | 584 | #N/A | 10.1 | 114.0 | 159 | 1.0 | 0.66 | < 0.3 | 242 | 0.0120 | 0.0119 | 0.0029 |
| 13-Feb-13 | 9 | 1.0 | 300 | 295 | 7.71 | 476 | | | | | | | | | | | |
| 20-Feb-13 | 10 | 1.0 | 300 | 290 | 7.83 | 431 | #N/A | 7.9 | 133.6 | 102 | 0.9 | 0.77 | < 0.3 | 213 | 0.0151 | 0.0150 | 0.0029 |
| 27-Feb-13 | 11 | 1.0 | 300 | 295 | 7.79 | 391 | | | | | | | | | | | |
| 6-Mar-13 | 12 | 1.0 | 300 | 300 | 7.64 | 380 | #N/A | 8.2 | 129.6 | 65 | 0.8 | 0.80 | < 0.3 | 170 | 0.0138 | 0.0212 | 0.0033 |
| 13-Mar-13 | 13 | 1.0 | 300 | 295 | 7.86 | 336 | | | | | | | | | | | |
| 20-Mar-13 | 14 | 1.0 | 300 | 305 | 7.98 | 319 | #N/A | 8.1 | 117.1 | 61 | 0.8 | 0.75 | < 0.3 | 152 | 0.0103 | 0.0205 | 0.0040 |
| 27-Mar-13 | 15 | 1.0 | 300 | 295 | 7.96 | 318 | | | | | | | | | | | |
| 3-Apr-13 | 16 | 1.0 | 300 | 290 | 7.86 | 313 | #N/A | 9.1 | 116.6 | 46 | 0.8 | 0.71 | < 0.3 | 150 | 0.0141 | 0.0205 | 0.0030 |
| 10-Apr-13 | 17 | 1.0 | 300 | 290 | 7.92 | 301 | | | | | | | | | | | |
| 17-Apr-13 | 18 | 1.0 | 300 | 290 | 7.63 | 301 | #N/A | #N/A | 92.1 | 52 | 0.7 | 0.65 | < 0.3 | 139 | 0.0159 | 0.0218 | 0.0033 |
| 24-Apr-13 | 19 | 1.0 | 300 | 300 | 7.83 | 296 | | | | | | | | | | | |
| 1-May-13 | 20 | 1.0 | 300 | 295 | 7.88 | 284 | #N/A | 8.6 | 113.8 | 49 | 0.6 | 0.58 | < 0.3 | 133 | 0.0118 | 0.0182 | 0.0027 |
| 8-May-13 | 21 | 1.0 | 300 | 300 | 7.71 | 275 | | | | | | | | | | | |
| 15-May-13 | 22 | 1.0 | 300 | 300 | 7.76 | 248 | #N/A | 11.2 | 114.1 | 39 | 0.7 | 0.52 | < 0.3 | 133 | 0.0132 | 0.0188 | 0.0027 |
| 22-May-13 | 23 | 1.0 | 300 | 300 | 7.82 | 258 | | | | | | | | | | | |
| 29-May-13 | 24 | 1.0 | 300 | 300 | 7.82 | 262 | #N/A | 9.6 | 113.0 | 33 | 0.6 | 0.47 | < 0.3 | 121 | 0.0136 | 0.0170 | 0.0025 |
| 5-Jun-13 | 25 | 1.0 | 300 | 295 | 7.76 | 268 | | | | | | | | | | | |
| 12-Jun-13 | 26 | 1.0 | 300 | 295 | 7.70 | 260 | #N/A | 13.7 | 112.9 | 29 | 0.6 | 0.45 | < 0.3 | 116 | 0.0082 | 0.0167 | 0.0025 |
| 19-Jun-13 | 27 | 1.0 | 300 | 295 | 7.75 | 275 | | | | | | | | | | | |
| 26-Jun-13 | 28 | 1.0 | 300 | 295 | 7.85 | 272 | #N/A | 6.3 | 105.8 | 30 | 0.7 | 0.42 | < 0.3 | 124 | 0.0109 | 0.0153 | 0.0023 |
| 3-Jul-13 | 29 | 1.0 | 300 | 305 | 7.80 | 261 | | | | | | | | | | | |
| 10-Jul-13 | 30 | 1.0 | 300 | 300 | 7.69 | 259 | #N/A | 12.6 | 111.9 | 31 | 0.7 | 0.39 | < 0.3 | 128 | 0.0124 | 0.0152 | 0.0024 |
| 17-Jul-13 | 31 | 1.0 | 300 | 295 | 7.80 | 261 | | | | | | | | | | | |
| 24-Jul-13 | 32 | 1.0 | 300 | 305 | 7.65 | 261 | #N/A | 13.2 | 106.4 | 28 | 0.7 | 0.37 | < 0.3 | 122 | 0.0107 | 0.0136 | 0.0021 |
| 31-Jul-13 | 33 | 1.0 | 300 | 300 | 7.75 | 267 | | | | | | | | | | | |
| 7-Aug-13 | 34 | 1.0 | 300 | 300 | 7.67 | 268 | #N/A | 12.2 | 105.8 | 32 | 0.6 | 0.33 | < 0.3 | 118 | 0.0099 | 0.0137 | 0.0021 |
| 14-Aug-13 | 35 | 1.0 | 300 | 300 | 7.80 | 273 | | | | | | | | | | | |
| 21-Aug-13 | 36 | 1.0 | 300 | 295 | 7.69 | 275 | #N/A | 10.7 | 102.4 | 27 | 0.6 | 0.34 | < 0.3 | 124 | 0.0128 | 0.0132 | 0.0019 |
| 28-Aug-13 | 37 | 1.0 | 300 | 295 | 7.88 | 253 | | | | | | | | | | | |
| 4-Sep-13 | 38 | 1.0 | 300 | 295 | 7.78 | 249 | #N/A | 7.9 | 102.5 | 25 | 0.6 | 0.29 | < 0.3 | 126 | 0.0097 | 0.0116 | 0.0017 |
| 11-Sep-13 | 39 | 1.0 | 300 | 305 | 7.81 | 250 | | | | | | | | | | | |
| 18-Sep-13 | 40 | 1.0 | 300 | 300 | 7.79 | 258 | #N/A | 8.8 | 103.4 | 27 | 0.6 | 0.33 | < 0.3 | 126 | 0.0418 | 0.0122 | 0.0020 |
| 25-Sep-13 | 41 | 1.0 | 300 | 300 | 8.06 | 259 | | | | | | | | | | | |
| 2-Oct-13 | 42 | 1.0 | 300 | 295 | 7.93 | 259 | #N/A | 5.0 | 105.4 | | | | | | | | |
| 9-Oct-13 | 43 | 1.0 | 300 | 295 | 7.93 | 257 | | | | | | | | | | | |

Apr 17/13. Acidity 33.1 Suspect instrumental error, not repeated.

Col 6

| Sample = HPY Pyrite Rougher Sands | | | | | | | | | | | | | | | | | | |
|-----------------------------------|-------|--------|-----------|-----------|--------|----------|------|----------|----------|--------|---------|---------|-------|------|--------|--------|--------|----------|
| Date | Cycle | Ba | Be | Bi | B | Cd | Ca | Cr | Co | Cu | Fe | Pb | Li | Mg | Mn | Hg | Mo | Ni |
| | No. | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | ug/L | mg/L | mg/L |
| 19-Dec-12 | 1 | 0.0550 | < 0.00002 | < 0.00001 | 0.0354 | 0.000406 | 457 | < 0.0005 | 0.000475 | 0.0063 | < 0.003 | 0.00162 | 0.002 | 39.8 | 0.194 | < 0.01 | 0.0482 | 0.0007 |
| 26-Dec-12 | 2 | 0.0253 | < 0.00002 | < 0.00001 | 0.0398 | 0.000173 | 141 | < 0.0005 | 0.000218 | 0.0018 | < 0.003 | 0.00047 | 0.001 | 13.8 | 0.0640 | < 0.01 | 0.0329 | 0.0014 |
| 2-Jan-13 | 3 | 0.0292 | < 0.00002 | < 0.00001 | 0.0320 | 0.000123 | 111 | < 0.0005 | 0.000192 | 0.0011 | 0.005 | 0.00028 | 0.001 | 10.1 | 0.0574 | < 0.01 | 0.0258 | 0.0009 |
| 9-Jan-13 | 4 | 0.0349 | < 0.00002 | < 0.00001 | 0.0332 | 0.000125 | 122 | < 0.0005 | 0.000232 | 0.0024 | < 0.003 | 0.00020 | 0.001 | 11.0 | 0.0675 | < 0.01 | 0.0253 | 0.0018 |
| 16-Jan-13 | 5 | | | | | | | | | | | | | | | | | |
| 23-Jan-13 | 6 | 0.0329 | < 0.00002 | 0.00001 | 0.0282 | 0.000162 | 111 | < 0.0005 | 0.000313 | 0.0027 | < 0.003 | 0.00018 | 0.001 | 10.2 | 0.0749 | < 0.01 | 0.0351 | 0.0032 |
| 30-Jan-13 | 7 | | | | | | | | | | | | | | | | | |
| 6-Feb-13 | 8 | 0.0332 | < 0.00002 | < 0.00001 | 0.0303 | 0.000138 | 83.1 | < 0.0005 | 0.000270 | 0.0030 | 0.004 | 0.00021 | 0.001 | 8.50 | 0.0709 | < 0.01 | 0.0553 | 0.0009 |
| 13-Feb-13 | 9 | | | | | | | | | | | | | | | | | |
| 20-Feb-13 | 10 | 0.0304 | < 0.00002 | < 0.00001 | 0.0231 | 0.000124 | 74.6 | < 0.0005 | 0.000185 | 0.0048 | < 0.003 | 0.00014 | 0.001 | 6.48 | 0.0601 | < 0.01 | 0.0800 | 0.0004 |
| 27-Feb-13 | 11 | | | | | | | | | | | | | | | | | |
| 6-Mar-13 | 12 | 0.0377 | < 0.00002 | < 0.00001 | 0.0204 | 0.000135 | 58.5 | < 0.0005 | 0.000248 | 0.0032 | < 0.003 | 0.00014 | 0.001 | 5.72 | 0.0587 | < 0.01 | 0.119 | 0.0004 |
| 13-Mar-13 | 13 | | | | | | | | | | | | | | | | | |
| 20-Mar-13 | 14 | 0.0440 | < 0.00002 | < 0.00001 | 0.0146 | 0.000119 | 52.2 | < 0.0005 | 0.000236 | 0.0035 | < 0.003 | 0.00011 | 0.001 | 5.21 | 0.0556 | < 0.01 | 0.137 | 0.0002 |
| 27-Mar-13 | 15 | | | | | | | | | | | | | | | | | |
| 3-Apr-13 | 16 | 0.0495 | < 0.00002 | < 0.00001 | 0.0138 | 0.000122 | 51.7 | < 0.0005 | 0.000227 | 0.0035 | < 0.003 | 0.00011 | 0.001 | 5.09 | 0.0553 | < 0.01 | 0.131 | 0.0003 |
| 10-Apr-13 | 17 | | | | | | | | | | | | | | | | | |
| 17-Apr-13 | 18 | 0.0576 | < 0.00002 | < 0.00001 | 0.0174 | 0.000111 | 47.2 | < 0.0005 | 0.000527 | 0.0040 | < 0.003 | 0.00012 | 0.001 | 5.02 | 0.0537 | < 0.01 | 0.143 | 0.0005 |
| 24-Apr-13 | 19 | | | | | | | | | | | | | | | | | |
| 1-May-13 | 20 | 0.0511 | < 0.00002 | < 0.00001 | 0.0178 | 0.000093 | 45.5 | < 0.0005 | 0.000221 | 0.0039 | < 0.003 | 0.00006 | 0.001 | 4.70 | 0.0529 | < 0.01 | 0.121 | 0.0004 |
| 8-May-13 | 21 | | | | | | | | | | | | | | | | | |
| 15-May-13 | 22 | 0.0627 | < 0.00002 | < 0.00001 | 0.0157 | 0.000135 | 45.5 | < 0.0005 | 0.000182 | 0.0038 | < 0.003 | 0.00036 | 0.001 | 4.62 | 0.0520 | < 0.01 | 0.0878 | 0.0005 |
| 22-May-13 | 23 | | | | | | | | | | | | | | | | | |
| 29-May-13 | 24 | 0.0668 | < 0.00002 | < 0.00001 | 0.0120 | 0.000103 | 40.9 | < 0.0005 | 0.000157 | 0.0060 | 0.011 | 0.00019 | 0.001 | 4.53 | 0.0548 | < 0.01 | 0.0774 | 0.0010 |
| 5-Jun-13 | 25 | | | | | | | | | | | | | | | | | |
| 12-Jun-13 | 26 | 0.0721 | < 0.00002 | < 0.00001 | 0.0090 | 0.000098 | 39.5 | < 0.0005 | 0.000168 | 0.0046 | < 0.003 | 0.00005 | 0.001 | 4.19 | 0.0457 | < 0.01 | 0.0655 | 0.0003 |
| 19-Jun-13 | 27 | | | | | | | | | | | | | | | | | |
| 26-Jun-13 | 28 | 0.0747 | < 0.00002 | < 0.00001 | 0.0102 | 0.000071 | 42.1 | < 0.0005 | 0.000168 | 0.0042 | < 0.003 | 0.00020 | 0.001 | 4.50 | 0.0514 | < 0.01 | 0.0580 | 0.0004 |
| 3-Jul-13 | 29 | | | | | | | | | | | | | | | | | |
| 10-Jul-13 | 30 | 0.0801 | < 0.00002 | < 0.00001 | 0.0106 | 0.000103 | 43.4 | < 0.0005 | 0.000261 | 0.0046 | < 0.003 | 0.00004 | 0.001 | 4.67 | 0.0543 | < 0.01 | 0.0546 | 0.0006 |
| 17-Jul-13 | 31 | | | | | | | | | | | | | | | | | |
| 24-Jul-13 | 32 | 0.0762 | < 0.00002 | < 0.00001 | 0.0124 | 0.000100 | 41.3 | < 0.0005 | 0.000178 | 0.0043 | < 0.003 | 0.00006 | 0.001 | 4.52 | 0.0534 | < 0.01 | 0.0506 | 0.0006 |
| 31-Jul-13 | 33 | | | | | | | | | | | | | | | | | |
| 7-Aug-13 | 34 | 0.0807 | < 0.00002 | < 0.00001 | 0.0103 | 0.000096 | 40.1 | < 0.0005 | 0.000190 | 0.0045 | < 0.003 | 0.00005 | 0.001 | 4.30 | 0.0512 | < 0.01 | 0.0488 | 0.0009 |
| 14-Aug-13 | 35 | | | | | | | | | | | | | | | | | |
| 21-Aug-13 | 36 | 0.0768 | < 0.00002 | < 0.00001 | 0.0146 | 0.000119 | 41.6 | < 0.0005 | 0.000160 | 0.0048 | 0.087 | 0.00003 | 0.001 | 4.79 | 0.0520 | < 0.01 | 0.0455 | < 0.0001 |
| 28-Aug-13 | 37 | | | | | | | | | | | | | | | | | |
| 4-Sep-13 | 38 | 0.0781 | < 0.00002 | < 0.00001 | 0.0194 | 0.000102 | 42.6 | < 0.0005 | 0.000171 | 0.0049 | < 0.003 | 0.00007 | 0.001 | 4.70 | 0.0563 | < 0.01 | 0.0389 | 0.0006 |
| 11-Sep-13 | 39 | | | | | | | | | | | | | | | | | |
| 18-Sep-13 | 40 | 0.0832 | < 0.00002 | < 0.00001 | 0.0176 | 0.000080 | 42.5 | < 0.0005 | 0.000255 | 0.0045 | < 0.003 | 0.00005 | 0.001 | 4.79 | 0.0512 | < 0.01 | 0.0378 | 0.0003 |
| 25-Sep-13 | 41 | | | | | | | | | | | | | | | | | |
| 2-Oct-13 | 42 | | | | | | | | | | | | | | | | | |
| 9-Oct-13 | 43 | | | | | | | | | | | | | | | | | |

Apr 17/13. Acidity 33.1 Suspect instrumental error, not repeated.

Col 6

| Sample = HPY Pyrite Rougher Sands | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|-------|-------|------|---------|------|-----------|------|-------|------|-----------|---------|----------|--------|---------|---------|-----------|---------------|--------------|---------------|-------|----------|
| Date | Cycle | P | K | Se | Si | Ag | Na | Sr | S | Tl | Sn | Ti | U | V | Zn | Zr | SGS File # | Major Anions | Major Cations | Diff | Diff (%) |
| | No. | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | | | | | |
| 19-Dec-12 | 1 | 0.235 | 38.5 | 0.00316 | 3.11 | 0.00007 | 46.7 | 1.76 | 414 | 0.00005 | 0.00042 | 0.0005 | 0.254 | 0.00089 | 0.004 | 0.00010 | CA15305-DEC12 | 28.82 | 29.13 | 0.32 | 0.5% |
| 26-Dec-12 | 2 | 0.135 | 20.3 | 0.00081 | 2.73 | 0.00002 | 16.2 | 0.748 | 120 | 0.00003 | 0.00026 | 0.0002 | 0.0851 | 0.00061 | 0.002 | 0.00002 | CA15366-DEC12 | 8.26 | 9.41 | 1.16 | 6.5% |
| 2-Jan-13 | 3 | 0.112 | 17.7 | 0.00044 | 3.02 | 0.00008 | 9.76 | 0.621 | 91.6 | 0.00003 | 0.00038 | 0.0005 | 0.0773 | 0.00085 | 0.003 | 0.00003 | CA15062-JAN13 | 7.86 | 7.27 | -0.58 | -3.9% |
| 9-Jan-13 | 4 | 0.092 | 19.0 | 0.00052 | 2.73 | < 0.00001 | 6.78 | 0.692 | 82.5 | 0.00003 | 0.00031 | 0.0003 | 0.0838 | 0.00081 | 0.002 | 0.00004 | CA15248-JAN13 | 8.68 | 7.80 | -0.88 | -5.3% |
| 16-Jan-13 | 5 | | | | | | | | | | | | | | | | | | | | |
| 23-Jan-13 | 6 | 0.086 | 17.1 | 0.00049 | 2.95 | 0.00013 | 2.85 | 0.676 | 86.8 | 0.00003 | 0.00062 | 0.0005 | 0.0780 | 0.00076 | 0.002 | 0.00006 | CA15419-JAN13 | 8.34 | 6.97 | -1.37 | -9.0% |
| 30-Jan-13 | 7 | | | | | | | | | | | | | | | | | | | | |
| 6-Feb-13 | 8 | 0.064 | 15.1 | 0.00058 | 3.22 | < 0.00001 | 1.70 | 0.591 | 60.6 | 0.00003 | 0.00105 | 0.0002 | 0.0728 | 0.00049 | 0.002 | 0.00005 | CA15098-FEB13 | 5.66 | 5.33 | -0.33 | -3.0% |
| 13-Feb-13 | 9 | | | | | | | | | | | | | | | | | | | | |
| 20-Feb-13 | 10 | 0.083 | 13.4 | 0.00070 | 3.03 | < 0.00001 | 1.26 | 0.470 | 36.9 | 0.00003 | 0.00179 | 0.0002 | 0.0466 | 0.00058 | 0.004 | 0.00005 | CA15261-FEB13 | 4.86 | 4.67 | -0.19 | -2.0% |
| 27-Feb-13 | 11 | | | | | | | | | | | | | | | | | | | | |
| 6-Mar-13 | 12 | 0.072 | 11.5 | 0.00087 | 3.13 | < 0.00001 | 0.88 | 0.426 | 25.6 | 0.00003 | 0.00242 | < 0.0001 | 0.0371 | 0.00058 | < 0.001 | 0.00006 | CA15116-MAR13 | 4.01 | 3.74 | -0.27 | -3.5% |
| 13-Mar-13 | 13 | | | | | | | | | | | | | | | | | | | | |
| 20-Mar-13 | 14 | 0.070 | 11.5 | 0.00081 | 2.98 | < 0.00001 | 0.80 | 0.393 | 20.0 | 0.00003 | 0.00329 | 0.0001 | 0.0328 | 0.00031 | 0.001 | 0.00002 | CA15327-MAR13 | 3.68 | 3.38 | -0.30 | -4.2% |
| 27-Mar-13 | 15 | | | | | | | | | | | | | | | | | | | | |
| 3-Apr-13 | 16 | 0.070 | 11.3 | 0.00052 | 3.08 | < 0.00001 | 0.66 | 0.392 | 17.5 | 0.00003 | 0.00445 | 0.0001 | 0.0290 | 0.00046 | < 0.001 | 0.00002 | CA15081-APR13 | 3.35 | 3.33 | -0.02 | -0.3% |
| 10-Apr-13 | 17 | | | | | | | | | | | | | | | | | | | | |
| 17-Apr-13 | 18 | 0.075 | 11.1 | 0.00079 | 3.13 | < 0.00001 | 0.62 | 0.391 | 16.1 | 0.00003 | 0.00546 | 0.0001 | 0.0327 | 0.00054 | 0.002 | < 0.00001 | CA15252-APR13 | 2.98 | 3.10 | 0.12 | 1.9% |
| 24-Apr-13 | 19 | | | | | | | | | | | | | | | | | | | | |
| 1-May-13 | 20 | 0.058 | 9.66 | 0.00072 | 3.00 | < 0.00001 | 0.56 | 0.364 | 13.8 | 0.00002 | 0.00620 | 0.0001 | 0.0260 | 0.00059 | 0.001 | 0.00001 | CA15086-MAY13 | 3.34 | 2.94 | -0.40 | -6.4% |
| 8-May-13 | 21 | | | | | | | | | | | | | | | | | | | | |
| 15-May-13 | 22 | 0.062 | 9.66 | 0.00078 | 2.90 | < 0.00001 | 0.47 | 0.354 | 12.1 | 0.00003 | 0.00783 | 0.0001 | 0.0260 | 0.00051 | 0.002 | < 0.00001 | CA15254-MAY13 | 3.14 | 2.93 | -0.21 | -3.4% |
| 22-May-13 | 23 | | | | | | | | | | | | | | | | | | | | |
| 29-May-13 | 24 | 0.060 | 9.00 | 0.00063 | 2.78 | < 0.00001 | 0.45 | 0.349 | 10.7 | 0.00002 | 0.00923 | 0.0003 | 0.0229 | 0.00050 | 0.002 | 0.00001 | CA15422-MAY13 | 2.99 | 2.68 | -0.31 | -5.5% |
| 5-Jun-13 | 25 | | | | | | | | | | | | | | | | | | | | |
| 12-Jun-13 | 26 | 0.060 | 7.93 | 0.00069 | 2.73 | < 0.00001 | 0.38 | 0.320 | 9.08 | 0.00003 | 0.00942 | < 0.0001 | 0.0224 | 0.00046 | 0.004 | < 0.00001 | CA15169-JUN13 | 2.90 | 2.55 | -0.36 | -6.5% |
| 19-Jun-13 | 27 | | | | | | | | | | | | | | | | | | | | |
| 26-Jun-13 | 28 | 0.057 | 8.25 | 0.00080 | 2.90 | < 0.00001 | 0.40 | 0.347 | 10.6 | 0.00002 | 0.00971 | < 0.0001 | 0.0202 | 0.00045 | < 0.001 | < 0.00001 | CA15012-JUL13 | 2.78 | 2.71 | -0.07 | -1.3% |
| 3-Jul-13 | 29 | | | | | | | | | | | | | | | | | | | | |
| 10-Jul-13 | 30 | 0.052 | 8.20 | 0.00078 | 2.97 | < 0.00001 | 0.38 | 0.358 | 10.6 | 0.00003 | 0.0104 | < 0.0001 | 0.0227 | 0.00048 | 0.002 | 0.00002 | CA15234-JUL13 | 2.92 | 2.79 | -0.13 | -2.3% |
| 17-Jul-13 | 31 | | | | | | | | | | | | | | | | | | | | |
| 24-Jul-13 | 32 | 0.054 | 7.50 | 0.00087 | 2.84 | < 0.00001 | 0.34 | 0.345 | 10.1 | 0.00002 | 0.00943 | 0.0001 | 0.0225 | 0.00050 | 0.002 | 0.00002 | CA15472-JUL13 | 2.75 | 2.65 | -0.10 | -1.8% |
| 31-Jul-13 | 33 | | | | | | | | | | | | | | | | | | | | |
| 7-Aug-13 | 34 | 0.038 | 7.10 | 0.00098 | 2.84 | < 0.00001 | 0.34 | 0.335 | 9.60 | 0.00002 | 0.00854 | < 0.0001 | 0.0236 | 0.00036 | < 0.001 | < 0.00001 | CA15097-AUG13 | 2.82 | 2.56 | -0.25 | -4.7% |
| 14-Aug-13 | 35 | | | | | | | | | | | | | | | | | | | | |
| 21-Aug-13 | 36 | 0.051 | 6.12 | 0.00085 | 2.72 | 0.00001 | 0.43 | 0.388 | 9.84 | 0.00003 | 0.00768 | < 0.0001 | 0.0222 | 0.00054 | 0.001 | 0.00001 | CA15287-AUG13 | 2.64 | 2.66 | 0.02 | 0.3% |
| 28-Aug-13 | 37 | | | | | | | | | | | | | | | | | | | | |
| 4-Sep-13 | 38 | 0.057 | 6.70 | 0.00080 | 2.90 | < 0.00001 | 0.32 | 0.358 | 9.75 | 0.00002 | 0.00646 | < 0.0001 | 0.0209 | 0.00043 | 0.002 | 0.00001 | CA15053-SEP13 | 2.60 | 2.71 | 0.11 | 2.1% |
| 11-Sep-13 | 39 | | | | | | | | | | | | | | | | | | | | |
| 18-Sep-13 | 40 | 0.050 | 6.44 | 0.00091 | 2.77 | < 0.00001 | 0.37 | 0.349 | 9.72 | < 0.00002 | 0.00701 | < 0.0001 | 0.0230 | 0.00041 | 0.001 | < 0.00001 | CA15265-SEP13 | 2.66 | 2.72 | 0.05 | 0.9% |
| 25-Sep-13 | 41 | | | | | | | | | | | | | | | | | | | | |
| 2-Oct-13 | 42 | | | | | | | | | | | | | | | | | | | | |
| 9-Oct-13 | 43 | | | | | | | | | | | | | | | | | | | | |

Apr 17/13. Acidity 33.1 Suspect instrumental error, not repeated.

Col 7

| Sample = CL-01 L Residue | | | | | | | | | | | | | | | |
|--------------------------|-------|-----------|-----------|--------|------|----------|-----------|-----------|------------|----------|----------|--------|------|------|---------|
| Date | Cycle | Approx. | Volume mL | | pH | Cond. | Acidity | Acidity | Alkalinity | Sulphate | Total CN | WAD CN | SCN | CNO | Nitrate |
| | No. | Flow Rate | Input | Output | | | (pH 4.5) | (pH 8.3) | | | | | | | |
| | | (mL/min) | | | | umhos/cm | mgCaCO3/L | mgCaCO3/L | mgCaCO3/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| 20-Mar-13 | 1 | 1.0 | 470 | 490 | 7.51 | 3710 | #N/A | 17.1 | 69.2 | 2010 | 0.13 | < 0.01 | < 2 | < 1 | 60.8 |
| 27-Mar-13 | 2 | 1.0 | 470 | 480 | 7.58 | 3765 | #N/A | 13.7 | 65.3 | 1851 | 0.15 | 0.02 | < 1 | < 2 | 60.8 |
| 3-Apr-13 | 3 | 1.0 | 495 | 475 | 7.55 | 3257 | #N/A | 15.7 | 61.8 | 1428 | 0.12 | 0.02 | < 2 | < 1 | 36.4 |
| 10-Apr-13 | 4 | 1.0 | 470 | 480 | 7.57 | 2729 | #N/A | 12.2 | 53.1 | 1716 | 0.06 | < 0.01 | < 2 | < 1 | 20.1 |
| 17-Apr-13 | 5 | 1.0 | 470 | 560 | 7.56 | 2183 | | | | | | | | | |
| 24-Apr-13 | 6 | 1.0 | 470 | 460 | 7.65 | 1943 | #N/A | 12.4 | 52.3 | 991 | 0.11 | < 0.01 | < 1 | < 2 | 6.28 |
| 1-May-13 | 7 | 1.0 | 470 | 460 | 7.59 | 1789 | | | | | | | | | |
| 8-May-13 | 8 | 1.0 | 470 | 485 | 7.60 | 1513 | #N/A | 15.4 | 48.2 | 1011 | 0.03 | < 0.01 | < 2 | < 1 | 2.87 |
| 15-May-13 | 9 | 1.0 | 470 | 520 | 7.55 | 1335 | | | | | | | | | |
| 22-May-13 | 10 | 1.0 | 470 | 520 | 7.62 | 1302 | #N/A | 11.5 | 48.6 | 779 | 0.03 | < 0.01 | < 2 | < 1 | 1.59 |
| 29-May-13 | 11 | 1.0 | 470 | 490 | 7.62 | 1396 | | | | | | | | | |
| 5-Jun-13 | 12 | 1.0 | 470 | 490 | 7.58 | 1206 | #N/A | 11.6 | 51.4 | 704 | 0.03 | #N/A | #N/A | #N/A | 1.06 |
| 12-Jun-13 | 13 | 1.0 | 470 | 490 | 7.71 | 1182 | | | | | | | | | |
| 19-Jun-13 | 14 | 1.0 | 470 | 520 | 7.58 | 1202 | #N/A | 9.6 | 46.9 | 583 | 0.02 | #N/A | #N/A | #N/A | < 0.6 |
| 26-Jun-13 | 15 | 1.0 | 470 | 520 | 7.66 | 1068 | | | | | | | | | |
| 3-Jul-13 | 16 | 1.0 | 470 | 455 | 7.61 | 978 | #N/A | 10.9 | 48.4 | 506 | 0.02 | #N/A | #N/A | #N/A | 1.16 |
| 10-Jul-13 | 17 | 1.0 | 470 | 495 | 7.69 | 908 | | | | | | | | | |
| 17-Jul-13 | 18 | 1.0 | 470 | 495 | 7.30 | 854 | #N/A | 9.0 | 43.3 | 433 | 0.02 | #N/A | #N/A | #N/A | 1.17 |
| 24-Jul-13 | 19 | 1.0 | 470 | 515 | 7.66 | 790 | | | | | | | | | |
| 31-Jul-13 | 20 | 1.0 | 470 | 495 | 7.66 | 728 | #N/A | 9.2 | 46.3 | 294 | 0.01 | #N/A | #N/A | #N/A | 0.77 |
| 7-Aug-13 | 21 | 1.0 | 470 | 490 | 7.63 | 716 | | | | | | | | | |
| 14-Aug-13 | 22 | 1.0 | 470 | 490 | 7.64 | 702 | #N/A | 7.8 | 43.7 | 312 | 0.02 | #N/A | #N/A | #N/A | 0.56 |
| 21-Aug-13 | 23 | 1.0 | 470 | 500 | 7.65 | 696 | | | | | | | | | |
| 28-Aug-13 | 24 | 1.0 | 470 | 490 | 7.70 | 630 | #N/A | 5.7 | 43.0 | 251 | 0.02 | #N/A | #N/A | #N/A | 0.43 |
| 4-Sep-13 | 25 | 1.0 | 470 | 480 | 7.70 | 606 | | | | | | | | | |
| 11-Sep-13 | 26 | 1.0 | 470 | 495 | 7.68 | 581 | #N/A | 7.4 | 48.2 | 251 | 0.01 | #N/A | #N/A | #N/A | 0.27 |
| 18-Sep-13 | 27 | 1.0 | 470 | 500 | 7.71 | 537 | | | | | | | | | |
| 25-Sep-13 | 28 | 1.0 | 470 | 495 | 7.79 | 561 | #N/A | 4.1 | 46.8 | 212 | 0.02 | #N/A | #N/A | #N/A | 0.20 |
| 2-Oct-13 | 29 | 1.0 | 470 | 500 | 7.78 | 537 | | | | | | | | | |
| 9-Oct-13 | 30 | 1.0 | 470 | 475 | 7.75 | 518 | #N/A | 7.2 | 49.7 | | | | | | |

May 22/13 Change in analytical schedule

Col 7

| Sample = CL-01 L Residue | | | | | | | | | | | | | | | | |
|--------------------------|-------|---------|---------|------|------|-------|---------------|--------|--------|--------|---------|-----------|-----------|--------|----------|------|
| Date | Cycle | Nitrite | Ammonia | Cl | F | Br | Hardness | Al | Sb | As | Ba | Be | Bi | B | Cd | Ca |
| | No. | mg/L | mg/L | mg/L | mg/L | mg/L | CaCO3 mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| 20-Mar-13 | 1 | 0.90 | < 0.1 | 130 | 0.52 | < 0.3 | 1270 | 0.0046 | 0.0076 | 0.0094 | 0.0117 | < 0.00002 | < 0.00001 | 0.0845 | 0.000433 | 476 |
| 27-Mar-13 | 2 | 0.12 | 0.1 | 130 | 0.55 | < 0.3 | 1310 | 0.0072 | 0.0091 | 0.0089 | 0.0113 | < 0.00002 | < 0.00001 | 0.0858 | 0.000035 | 490 |
| 3-Apr-13 | 3 | < 0.3 | < 0.1 | 80 | 0.61 | < 3 | 1210 | 0.0062 | 0.0096 | 0.0091 | 0.0111 | < 0.00002 | < 0.00001 | 0.0634 | 0.000063 | 455 |
| 10-Apr-13 | 4 | < 0.3 | < 0.1 | 43 | 0.60 | < 3 | 1040 | 0.0052 | 0.0079 | 0.0077 | 0.00966 | < 0.00002 | 0.00001 | 0.0579 | 0.000060 | 390 |
| 17-Apr-13 | 5 | | | | | | | | | | | | | | | |
| 24-Apr-13 | 6 | < 0.3 | 0.1 | 19 | 0.58 | < 3 | 742 | 0.0066 | 0.0068 | 0.0084 | 0.00946 | < 0.00002 | < 0.00001 | 0.0415 | 0.000068 | 279 |
| 1-May-13 | 7 | | | | | | | | | | | | | | | |
| 8-May-13 | 8 | < 0.3 | < 0.1 | 11 | 0.54 | < 3 | 614 | 0.0077 | 0.0055 | 0.0073 | 0.00906 | < 0.00002 | < 0.00001 | 0.0360 | 0.000043 | 232 |
| 15-May-13 | 9 | | | | | | | | | | | | | | | |
| 22-May-13 | 10 | < 0.3 | < 0.1 | 6.3 | 0.55 | < 3 | 590 | 0.0067 | 0.0059 | 0.0075 | 0.0110 | < 0.00002 | < 0.00001 | 0.0270 | 0.000035 | 223 |
| 29-May-13 | 11 | | | | | | | | | | | | | | | |
| 5-Jun-13 | 12 | #N/A | #N/A | 4.6 | 0.52 | < 3 | 536 | 0.0056 | 0.0051 | 0.0076 | 0.0101 | < 0.00002 | < 0.00001 | 0.0289 | 0.000178 | 203 |
| 12-Jun-13 | 13 | | | | | | | | | | | | | | | |
| 19-Jun-13 | 14 | #N/A | #N/A | 4.3 | 0.53 | < 3 | 509 | 0.0061 | 0.0050 | 0.0074 | 0.0102 | < 0.00002 | < 0.00001 | 0.0326 | 0.000015 | 194 |
| 26-Jun-13 | 15 | | | | | | | | | | | | | | | |
| 3-Jul-13 | 16 | #N/A | #N/A | 3.0 | 0.46 | < 3 | 428 | 0.0073 | 0.0048 | 0.0074 | 0.00928 | < 0.00002 | < 0.00001 | 0.0268 | 0.000036 | 163 |
| 10-Jul-13 | 17 | | | | | | | | | | | | | | | |
| 17-Jul-13 | 18 | #N/A | #N/A | 2.7 | 0.44 | < 3 | 354 | 0.0111 | 0.0048 | 0.0085 | 0.00989 | < 0.00002 | < 0.00001 | 0.0189 | 0.000028 | 135 |
| 24-Jul-13 | 19 | | | | | | | | | | | | | | | |
| 31-Jul-13 | 20 | #N/A | #N/A | 2.0 | 0.46 | < 0.3 | 309 | 0.0108 | 0.0042 | 0.0074 | 0.00939 | < 0.00002 | < 0.00001 | 0.0276 | 0.000030 | 118 |
| 7-Aug-13 | 21 | | | | | | | | | | | | | | | |
| 14-Aug-13 | 22 | #N/A | #N/A | 1.9 | 0.47 | < 0.3 | 285 | 0.0112 | 0.0043 | 0.0063 | 0.00978 | < 0.00002 | < 0.00001 | 0.0223 | 0.000065 | 109 |
| 21-Aug-13 | 23 | | | | | | | | | | | | | | | |
| 28-Aug-13 | 24 | #N/A | #N/A | 1.6 | 0.49 | < 0.3 | 266 | 0.0098 | 0.0045 | 0.0079 | 0.0108 | < 0.00002 | < 0.00001 | 0.0261 | 0.000032 | 102 |
| 4-Sep-13 | 25 | | | | | | | | | | | | | | | |
| 11-Sep-13 | 26 | #N/A | #N/A | 1.7 | 0.55 | < 0.3 | 251 | 0.0089 | 0.0047 | 0.0081 | 0.0111 | < 0.00002 | < 0.00001 | 0.0232 | 0.000033 | 96.8 |
| 18-Sep-13 | 27 | | | | | | | | | | | | | | | |
| 25-Sep-13 | 28 | #N/A | #N/A | 1.4 | 0.53 | < 0.3 | 242 | 0.0103 | 0.0052 | 0.0089 | 0.0136 | < 0.00002 | < 0.00001 | 0.0245 | 0.000031 | 92.8 |
| 2-Oct-13 | 29 | | | | | | | | | | | | | | | |
| 9-Oct-13 | 30 | | | | | | | | | | | | | | | |

May 22/13 Change in analytical schedule

Col 7

| Sample = CL-01 L Residue | | | | | | | | | | | | | | | | | |
|--------------------------|-------|----------|--------|--------|---------|-----------|---------|------|--------|--------|-------|----------|---------|------|---------|------|-----------|
| Date | Cycle | Cr | Co | Cu | Fe | Pb | Li | Mg | Mn | Hg | Mo | Ni | P | K | Se | Si | Ag |
| | No. | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | ug/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| 20-Mar-13 | 1 | 0.0008 | 0.390 | 0.0213 | 0.014 | 0.00005 | 0.003 | 20.8 | 0.0210 | 0.01 | 1.90 | 0.0019 | < 0.009 | 8.89 | 0.0581 | 16.7 | < 0.00001 |
| 27-Mar-13 | 2 | < 0.0005 | 0.404 | 0.0211 | 0.014 | 0.00008 | 0.003 | 21.8 | 0.0189 | 0.02 | 2.10 | 0.0020 | < 0.009 | 7.94 | 0.0529 | 19.5 | 0.00001 |
| 3-Apr-13 | 3 | < 0.0005 | 0.272 | 0.0178 | 0.005 | 0.00007 | 0.002 | 19.2 | 0.0183 | < 0.01 | 1.88 | 0.0015 | < 0.009 | 8.15 | 0.0382 | 19.9 | < 0.00001 |
| 10-Apr-13 | 4 | < 0.0005 | 0.178 | 0.0133 | 0.005 | 0.00008 | 0.002 | 16.3 | 0.0142 | < 0.01 | 1.42 | 0.0011 | < 0.009 | 6.00 | 0.0259 | 20.3 | < 0.00001 |
| 17-Apr-13 | 5 | | | | | | | | | | | | | | | | |
| 24-Apr-13 | 6 | < 0.0005 | 0.111 | 0.0093 | < 0.003 | 0.00007 | 0.002 | 10.8 | 0.0094 | < 0.01 | 1.16 | 0.0020 | 0.017 | 4.18 | 0.0128 | 17.8 | 0.00001 |
| 1-May-13 | 7 | | | | | | | | | | | | | | | | |
| 8-May-13 | 8 | < 0.0005 | 0.0696 | 0.0151 | < 0.003 | 0.00002 | 0.001 | 8.66 | 0.0069 | < 0.01 | 0.831 | 0.0013 | 0.018 | 3.21 | 0.00860 | 15.9 | 0.00002 |
| 15-May-13 | 9 | | | | | | | | | | | | | | | | |
| 22-May-13 | 10 | < 0.0005 | 0.0577 | 0.0054 | < 0.003 | < 0.00002 | 0.001 | 8.12 | 0.0055 | < 0.01 | 0.697 | 0.0016 | 0.025 | 2.52 | 0.00638 | 16.2 | < 0.00001 |
| 29-May-13 | 11 | | | | | | | | | | | | | | | | |
| 5-Jun-13 | 12 | 0.0007 | 0.0482 | 0.0041 | 0.006 | 0.00004 | 0.001 | 7.03 | 0.0045 | < 0.01 | 0.654 | 0.0021 | 0.013 | 2.08 | 0.00445 | 15.6 | 0.00006 |
| 12-Jun-13 | 13 | | | | | | | | | | | | | | | | |
| 19-Jun-13 | 14 | < 0.0005 | 0.0452 | 0.0049 | < 0.003 | < 0.00002 | 0.001 | 6.35 | 0.0046 | < 0.01 | 0.663 | 0.0012 | 0.015 | 1.95 | 0.00526 | 17.4 | 0.00002 |
| 26-Jun-13 | 15 | | | | | | | | | | | | | | | | |
| 3-Jul-13 | 16 | < 0.0005 | 0.0367 | 0.0057 | < 0.003 | 0.00013 | < 0.001 | 5.06 | 0.0039 | < 0.01 | 0.560 | 0.0016 | 0.031 | 1.62 | 0.00401 | 15.3 | 0.00002 |
| 10-Jul-13 | 17 | | | | | | | | | | | | | | | | |
| 17-Jul-13 | 18 | < 0.0005 | 0.0373 | 0.0042 | < 0.003 | 0.00004 | < 0.001 | 4.17 | 0.0030 | < 0.01 | 0.622 | 0.0005 | 0.009 | 1.18 | 0.00294 | 14.9 | 0.00007 |
| 24-Jul-13 | 19 | | | | | | | | | | | | | | | | |
| 31-Jul-13 | 20 | < 0.0005 | 0.0311 | 0.0046 | < 0.003 | 0.00004 | < 0.001 | 3.43 | 0.0029 | < 0.01 | 0.540 | 0.0015 | 0.015 | 1.26 | 0.00229 | 16.1 | 0.00002 |
| 7-Aug-13 | 21 | | | | | | | | | | | | | | | | |
| 14-Aug-13 | 22 | < 0.0005 | 0.0285 | 0.0052 | < 0.003 | 0.00065 | < 0.001 | 3.13 | 0.0030 | < 0.01 | 0.469 | 0.0024 | 0.020 | 1.20 | 0.00195 | 15.7 | < 0.00001 |
| 21-Aug-13 | 23 | | | | | | | | | | | | | | | | |
| 28-Aug-13 | 24 | < 0.0005 | 0.0272 | 0.0060 | < 0.003 | < 0.00002 | < 0.001 | 2.77 | 0.0031 | < 0.01 | 0.490 | 0.0004 | 0.018 | 1.10 | 0.00185 | 15.4 | < 0.00001 |
| 4-Sep-13 | 25 | | | | | | | | | | | | | | | | |
| 11-Sep-13 | 26 | < 0.0005 | 0.0138 | 0.0032 | < 0.003 | < 0.00002 | < 0.001 | 2.60 | 0.0026 | < 0.01 | 0.484 | < 0.0001 | 0.012 | 1.08 | 0.00148 | 16.6 | < 0.00001 |
| 18-Sep-13 | 27 | | | | | | | | | | | | | | | | |
| 25-Sep-13 | 28 | < 0.0005 | 0.0190 | 0.0032 | < 0.003 | 0.00034 | < 0.001 | 2.50 | 0.0027 | < 0.01 | 0.523 | 0.0011 | 0.011 | 1.10 | 0.00143 | 17.0 | < 0.00001 |
| 2-Oct-13 | 29 | | | | | | | | | | | | | | | | |
| 9-Oct-13 | 30 | | | | | | | | | | | | | | | | |

May 22/13 Change in analytical schedule

Col 7

| Sample = CL-01 L Residue | | | | | | | | | | | | | | | | |
|--------------------------|-------|------|--------|------|-----------|---------|--------|---------|---------|-------|-----------|---------------|--------------|---------------|-------|----------|
| Date | Cycle | Na | Sr | S | Tl | Sn | Ti | U | V | Zn | Zr | SGS File # | Major Anions | Major Cations | Diff | Diff (%) |
| | No. | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | | | | | |
| 20-Mar-13 | 1 | 416 | 0.256 | 625 | 0.00010 | 0.00012 | 0.0005 | 0.0207 | 0.00041 | 0.003 | 0.00004 | CA15325-MAR13 | 46.95 | 43.87 | 3.08 | 3.4% |
| 27-Mar-13 | 2 | 429 | 0.260 | 623 | 0.00008 | 0.00019 | 0.0006 | 0.0273 | 0.00046 | 0.003 | 0.00003 | CA15432-MAR13 | 43.56 | 45.19 | -1.63 | -1.8% |
| 3-Apr-13 | 3 | 322 | 0.240 | 575 | 0.00008 | 0.00017 | 0.0004 | 0.0212 | 0.00052 | 0.002 | 0.00002 | CA15081-APR13 | 33.27 | 38.57 | -5.30 | -7.4% |
| 10-Apr-13 | 4 | 241 | 0.205 | 486 | 0.00007 | 0.00033 | 0.0004 | 0.0148 | 0.00044 | 0.002 | 0.00003 | CA15189-APR13 | 38.06 | 31.50 | 6.55 | 9.4% |
| 17-Apr-13 | 5 | | | | | | | | | | | | | | | |
| 24-Apr-13 | 6 | 146 | 0.146 | 342 | 0.00006 | 0.00041 | 0.0005 | 0.0114 | 0.00052 | 0.003 | 0.00001 | CA15395-APR13 | 22.26 | 21.31 | 0.94 | 2.2% |
| 1-May-13 | 7 | | | | | | | | | | | | | | | |
| 8-May-13 | 8 | 98.3 | 0.117 | 259 | 0.00004 | 0.00004 | 0.0005 | 0.00829 | 0.00048 | 0.003 | 0.00002 | CA15170-MAY13 | 22.36 | 16.68 | 5.68 | 14.5% |
| 15-May-13 | 9 | | | | | | | | | | | | | | | |
| 22-May-13 | 10 | 73.8 | 0.106 | 234 | 0.00003 | 0.00015 | 0.0005 | 0.00796 | 0.00049 | 0.002 | < 0.00001 | CA15349-MAY13 | 17.41 | 15.10 | 2.30 | 7.1% |
| 29-May-13 | 11 | | | | | | | | | | | | | | | |
| 5-Jun-13 | 12 | 59.1 | 0.102 | 220 | 0.00002 | 0.00006 | 0.0004 | 0.00785 | 0.00045 | 0.004 | < 0.00001 | CA15084-JUN13 | 15.85 | 13.36 | 2.49 | 8.5% |
| 12-Jun-13 | 13 | | | | | | | | | | | | | | | |
| 19-Jun-13 | 14 | 47.9 | 0.0959 | 192 | < 0.00002 | 0.00010 | 0.0005 | 0.00620 | 0.00037 | 0.002 | 0.00002 | CA15342-JUN13 | 13.23 | 12.37 | 0.86 | 3.4% |
| 26-Jun-13 | 15 | | | | | | | | | | | | | | | |
| 3-Jul-13 | 16 | 36.7 | 0.0800 | 156 | < 0.00002 | 0.00015 | 0.0006 | 0.00528 | 0.00044 | 0.003 | 0.00003 | CA15109-JUL13 | 11.62 | 10.21 | 1.40 | 6.4% |
| 10-Jul-13 | 17 | | | | | | | | | | | | | | | |
| 17-Jul-13 | 18 | 25.6 | 0.0741 | 129 | < 0.00002 | 0.00005 | 0.0004 | 0.00463 | 0.00045 | 0.002 | 0.00003 | CA15360-JUL13 | 9.99 | 8.25 | 1.74 | 9.5% |
| 24-Jul-13 | 19 | | | | | | | | | | | | | | | |
| 31-Jul-13 | 20 | 22.6 | 0.0606 | 108 | < 0.00002 | 0.00013 | 0.0007 | 0.00392 | 0.00041 | 0.001 | 0.00003 | CA15038-AUG13 | 7.13 | 7.21 | -0.08 | -0.5% |
| 7-Aug-13 | 21 | | | | | | | | | | | | | | | |
| 14-Aug-13 | 22 | 19.6 | 0.0554 | 93.8 | 0.00004 | 0.00008 | 0.0012 | 0.00374 | 0.00038 | 0.002 | 0.00001 | CA15209-AUG13 | 7.45 | 6.60 | 0.85 | 6.1% |
| 21-Aug-13 | 23 | | | | | | | | | | | | | | | |
| 28-Aug-13 | 24 | 15.2 | 0.0531 | 81.2 | < 0.00002 | 0.00030 | 0.0004 | 0.00365 | 0.00045 | 0.001 | < 0.00001 | CA15449-AUG13 | 6.16 | 6.03 | 0.13 | 1.1% |
| 4-Sep-13 | 25 | | | | | | | | | | | | | | | |
| 11-Sep-13 | 26 | 15.0 | 0.0489 | 77.8 | < 0.00002 | 0.00010 | 0.0006 | 0.00415 | 0.00044 | 0.001 | 0.00004 | CA15177-SEP13 | 6.27 | 5.74 | 0.53 | 4.4% |
| 18-Sep-13 | 27 | | | | | | | | | | | | | | | |
| 25-Sep-13 | 28 | 15.3 | 0.0473 | 73.5 | < 0.00002 | 0.00035 | 0.0005 | 0.00390 | 0.00048 | 0.004 | 0.00002 | CA15348-SEP13 | 5.42 | 5.55 | -0.13 | -1.2% |
| 2-Oct-13 | 29 | | | | | | | | | | | | | | | |
| 9-Oct-13 | 30 | | | | | | | | | | | | | | | |

May 22/13 Change in analytical schedulei

Col 8

| Sample = CL-01 L Residue | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------|-----------|-----------|--------|------|----------|-----------|-----------|------------|----------|----------|--------|-------------|---------|---------|---------|---------|------|------|-------|
| Date | Cycle | Approx. | Volume mL | | pH | Cond. | Acidity | Acidity | Alkalinity | Sulphate | Total CN | WAD CN | Thiocyanate | Cyanate | Nitrate | Nitrite | Ammonia | Cl | F | Br |
| | No. | Flow Rate | Input | Output | | umhos/cm | (pH 4.5) | (pH 8.3) | | | | | | | | | | | | |
| | | (mL/min) | | | | | mgCaCO3/L | mgCaCO3/L | mgCaCO3/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| 20-Mar-13 | 1 | 1.0 | 470 | 850 | 7.65 | 4170 | #N/A | 18.1 | 57.1 | 2187 | 0.12 | < 0.01 | < 2 | < 1 | 68.1 | 2.05 | 0.1 | 140 | 0.55 | < 0.3 |
| 27-Mar-13 | 2 | 1.0 | 570 | 480 | 7.67 | 4128 | #N/A | 15.8 | 70.1 | 2095 | 0.12 | 0.01 | < 1 | < 2 | 68.9 | 0.71 | < 0.1 | 150 | 0.52 | < 0.3 |
| 3-Apr-13 | 3 | 1.0 | 495 | 480 | 7.75 | 4275 | #N/A | 15.8 | 70.6 | 1658 | 0.20 | 0.03 | < 2 | < 1 | 82.3 | < 0.3 | < 0.1 | 180 | 0.52 | < 3 |
| 10-Apr-13 | 4 | 1.0 | 470 | 485 | 7.69 | 3748 | #N/A | 12.7 | 65.5 | 2852 | 0.11 | 0.02 | < 2 | < 1 | 56.3 | < 0.3 | < 0.1 | 110 | 0.53 | < 3 |
| 17-Apr-13 | 5 | 1.0 | 470 | 490 | 7.61 | 3169 | | | | | | | | | | | | | | |
| 24-Apr-13 | 6 | 1.0 | 470 | 500 | 7.66 | 2957 | #N/A | 11.9 | 52.0 | 1967 | 0.12 | 0.01 | < 1 | < 2 | 28.7 | < 0.3 | 0.2 | 56 | 0.53 | < 3 |
| 1-May-13 | 7 | 1.0 | 470 | 555 | 7.69 | 2588 | | | | | | | | | | | | | | |
| 8-May-13 | 8 | 1.0 | 470 | 460 | 7.69 | 2437 | #N/A | 16.3 | 54.4 | 2437 | 0.06 | < 0.01 | < 2 | < 1 | 16.7 | < 0.3 | 0.2 | 37 | 0.49 | < 3 |
| 15-May-13 | 9 | 1.0 | 470 | 460 | 7.56 | 2353 | | | | | | | | | | | | | | |
| 22-May-13 | 10 | 1.0 | 470 | 480 | 7.57 | 2421 | #N/A | 14.1 | 54.3 | 1489 | 0.06 | < 0.01 | < 2 | < 1 | 14.5 | < 0.3 | < 0.1 | 33 | 0.55 | < 3 |
| 29-May-13 | 11 | 1.0 | 470 | 470 | 7.64 | 2353 | | | | | | | | | | | | | | |
| 5-Jun-13 | 12 | 1.0 | 470 | 470 | 7.58 | 2280 | #N/A | 13.2 | 52.6 | 1435 | 0.06 | #N/A | #N/A | #N/A | 11.7 | #N/A | #N/A | 21 | 0.52 | < 3 |
| 12-Jun-13 | 13 | 1.0 | 470 | 465 | 7.73 | 2022 | | | | | | | | | | | | | | |
| 19-Jun-13 | 14 | 1.0 | 470 | 440 | 7.62 | 2169 | #N/A | 12.1 | 51.5 | 1219 | 0.05 | #N/A | #N/A | #N/A | 9.42 | #N/A | #N/A | < 20 | 0.52 | < 3 |

Cell Terminated

May 22/13 Change in analytical schedule.

Col 8

| Sample = CL-01 L Residue | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------|----------|--------|--------|--------|--------|-----------|-----------|--------|------------|------|----------|-------|--------|---------|-----------|-------|------|--------|--------|------|--------|
| Date | Cycle | Hardness | Al | Sb | As | Ba | Be | Bi | B | Cd | Ca | Cr | Co | Cu | Fe | Pb | Li | Mg | Mn | Hg | Mo | Ni |
| | No. | CaCO3 | | | | | | | | | | | | | | | | | | | | |
| | | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | ug/L | mg/L | mg/L |
| 20-Mar-13 | 1 | 1520 | 0.0053 | 0.0074 | 0.0096 | 0.0126 | < 0.00002 | < 0.00001 | 0.0709 | 0.000342 | 551 | 0.0010 | 0.311 | 0.0308 | 0.017 | 0.00011 | 0.005 | 24.6 | 0.0207 | 0.02 | 1.59 | 0.0021 |
| 27-Mar-13 | 2 | 1540 | 0.0083 | 0.0077 | 0.0089 | 0.0131 | < 0.00002 | < 0.00001 | 0.0755 | < 0.000003 | 576 | < 0.0005 | 0.318 | 0.0265 | 0.016 | 0.00006 | 0.004 | 24.0 | 0.0178 | < 0.01 | 1.71 | 0.0023 |
| 3-Apr-13 | 3 | 1460 | 0.0073 | 0.0078 | 0.0098 | 0.0145 | < 0.00002 | < 0.00001 | 0.0646 | < 0.000003 | 543 | 0.0006 | 0.393 | 0.0251 | 0.017 | 0.00011 | 0.004 | 25.3 | 0.0251 | 0.01 | 2.02 | 0.0016 |
| 10-Apr-13 | 4 | 1490 | 0.0057 | 0.0070 | 0.0081 | 0.0124 | < 0.00002 | < 0.00001 | 0.0609 | 0.000035 | 558 | < 0.0005 | 0.289 | 0.0187 | 0.018 | 0.00007 | 0.004 | 22.9 | 0.0191 | 0.01 | 1.78 | 0.0014 |
| 17-Apr-13 | 5 | | | | | | | | | | | | | | | | | | | | | |
| 24-Apr-13 | 6 | 1070 | 0.0046 | 0.0058 | 0.0076 | 0.0113 | < 0.00002 | < 0.00001 | 0.0411 | 0.000026 | 400 | < 0.0005 | 0.224 | 0.0123 | 0.007 | 0.00006 | 0.003 | 16.6 | 0.0146 | < 0.01 | 1.52 | 0.0025 |
| 1-May-13 | 7 | | | | | | | | | | | | | | | | | | | | | |
| 8-May-13 | 8 | 960 | 0.0087 | 0.0056 | 0.0072 | 0.0110 | < 0.00002 | < 0.00001 | 0.0418 | 0.000047 | 362 | < 0.0005 | 0.162 | 0.0262 | 0.003 | 0.00002 | 0.003 | 13.4 | 0.0130 | < 0.01 | 1.24 | 0.0020 |
| 15-May-13 | 9 | | | | | | | | | | | | | | | | | | | | | |
| 22-May-13 | 10 | 998 | 0.0057 | 0.0068 | 0.0078 | 0.0127 | < 0.00002 | < 0.00001 | 0.0302 | 0.000061 | 378 | < 0.0005 | 0.161 | 0.0097 | 0.004 | 0.00015 | 0.002 | 13.1 | 0.0120 | < 0.01 | 1.26 | 0.0022 |
| 29-May-13 | 11 | | | | | | | | | | | | | | | | | | | | | |
| 5-Jun-13 | 12 | 921 | 0.0068 | 0.0061 | 0.0082 | 0.0118 | < 0.00002 | < 0.00001 | 0.0330 | 0.000016 | 348 | < 0.0005 | 0.155 | 0.0101 | < 0.003 | < 0.00002 | 0.002 | 12.5 | 0.0110 | < 0.01 | 1.21 | 0.0024 |
| 12-Jun-13 | 13 | | | | | | | | | | | | | | | | | | | | | |
| 19-Jun-13 | 14 | 923 | 0.0046 | 0.0058 | 0.0076 | 0.0131 | < 0.00002 | < 0.00001 | 0.0385 | 0.000041 | 349 | < 0.0005 | 0.131 | 0.0093 | < 0.003 | < 0.00002 | 0.003 | 12.3 | 0.0119 | < 0.01 | 1.22 | 0.0020 |

Cell Terminated
 May 22/13 Change in analytical schedule.

Col 8

| Sample = CL-01 LResidue | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------|---------|------|--------|------|-----------|------|-------|------|---------|---------|--------|--------|---------|-------|-----------|---------------|--------------|---------------|--------|----------|
| Date | Cycle | P | K | Se | Si | Ag | Na | Sr | S | TI | Sn | Ti | U | V | Zn | Zr | SGS File # | Major Anions | Major Cations | Diff | Diff (%) |
| | No. | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | | | | | |
| 20-Mar-13 | 1 | < 0.009 | 10.7 | 0.0662 | 15.8 | < 0.00001 | 469 | 0.315 | 703 | 0.00011 | 0.00009 | 0.0004 | 0.0226 | 0.00046 | 0.003 | 0.00004 | CA15325-MAR13 | 50.68 | 50.26 | -0.42 | -0.4% |
| 27-Mar-13 | 2 | < 0.009 | 9.07 | 0.0593 | 16.9 | 0.00002 | 473 | 0.303 | 687 | 0.00009 | 0.00016 | 0.0005 | 0.0372 | 0.00057 | 0.002 | 0.00002 | CA15432-MAR13 | 49.30 | 51.60 | 2.29 | 2.3% |
| 3-Apr-13 | 3 | < 0.009 | 11.2 | 0.0753 | 17.5 | 0.00001 | 461 | 0.339 | 673 | 0.00011 | 0.00021 | 0.0004 | 0.0339 | 0.00057 | 0.002 | 0.00002 | CA15081-APR13 | 41.05 | 49.60 | 8.55 | 9.4% |
| 10-Apr-13 | 4 | < 0.009 | 9.04 | 0.0646 | 18.6 | < 0.00001 | 441 | 0.304 | 689 | 0.00008 | 0.00064 | 0.0004 | 0.0261 | 0.00048 | 0.012 | 0.00002 | CA15189-APR13 | 63.85 | 49.21 | -14.64 | -13.0% |
| 17-Apr-13 | 5 | | | | | | | | | | | | | | | | | | | | |
| 24-Apr-13 | 6 | < 0.009 | 6.88 | 0.0392 | 16.1 | < 0.00001 | 278 | 0.235 | 498 | 0.00007 | 0.00017 | 0.0005 | 0.0168 | 0.00052 | 0.001 | < 0.00001 | CA15395-APR13 | 43.63 | 33.65 | -9.97 | -12.9% |
| 1-May-13 | 7 | | | | | | | | | | | | | | | | | | | | |
| 8-May-13 | 8 | 0.022 | 5.71 | 0.0313 | 15.8 | < 0.00001 | 219 | 0.198 | 436 | 0.00007 | 0.00006 | 0.0006 | 0.0144 | 0.00059 | 0.002 | 0.00001 | CA15170-MAY13 | 52.93 | 28.89 | -24.04 | -29.4% |
| 15-May-13 | 9 | | | | | | | | | | | | | | | | | | | | |
| 22-May-13 | 10 | 0.023 | 4.91 | 0.0278 | 17.1 | < 0.00001 | 207 | 0.188 | 436 | 0.00006 | 0.00009 | 0.0005 | 0.0143 | 0.00055 | 0.001 | < 0.00001 | CA15349-MAY13 | 33.07 | 29.12 | -3.95 | -6.4% |
| 29-May-13 | 11 | | | | | | | | | | | | | | | | | | | | |
| 5-Jun-13 | 12 | 0.026 | 4.61 | 0.0235 | 17.4 | < 0.00001 | 185 | 0.174 | 382 | 0.00005 | 0.00009 | 0.0004 | 0.0143 | 0.00055 | 0.002 | 0.00001 | CA15084-JUN13 | 31.57 | 26.60 | -4.96 | -8.5% |
| 12-Jun-13 | 13 | | | | | | | | | | | | | | | | | | | | |
| 19-Jun-13 | 14 | 0.018 | 3.99 | 0.0243 | 18.8 | 0.00001 | 344 | 0.175 | 393 | 0.00004 | 0.00012 | 0.0006 | 0.0117 | 0.00047 | 0.002 | < 0.00001 | CA15342-JUN13 | 26.45 | 33.54 | 7.08 | 11.8% |

Cell Terminated

May 22/13 Change in analytical schedule.