



ENVIRONMENTAL DYNAMICS INC.
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Date Received: 31-MAY-13
Report Date: 17-JUN-13 12:20 (MT)
Version: FINAL REV. 2

Client Phone: 867-393-4882

Certificate of Analysis

Lab Work Order #: L1310290
Project P.O. #: NOT SUBMITTED
Job Reference: 13-Y-0215
C of C Numbers: 1, 2, 3, 4
Legal Site Desc:

Comments: This report replaces and supercedes previously sent reprot. This report includes Hardness results for all samples.

17-JUN-13: This report replaces and supercedes previously sent report. This report includes Hardness data for all samples.

Can Dang
Senior Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID	L1310290-1 Water 31-MAY-13 08:58 P96-8A	L1310290-2 Water 31-MAY-13 12:36 XR1H	L1310290-3 Water 31-MAY-13 10:27 SPK05-SP-5	L1310290-4 Water 31-MAY-13 12:32 P01-4B	L1310290-5 Water 31-MAY-13 13:30 P01-4A	
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	7290	7190	7440	2280	1040
	Hardness (as CaCO3) (mg/L)	5440	5200	5990	1460	462
	pH (pH)	6.15	6.13	6.72	7.50	7.53
	Total Suspended Solids (mg/L)	17.4	14.4	424	26.0	<1.0
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	1380	1380	875	27.2	32.7
	Alkalinity, Total (as CaCO3) (mg/L)	114	48.9	219	357	611
	Chloride (Cl) (mg/L)	<25 ^{DLA}	<25 ^{DLA}	<25 ^{DLA}	<10 ^{DLA}	7.5
	Sulfate (SO4) (mg/L)	7180	7080	7230	1320	26.8
Total Metals	Aluminum (Al)-Total (mg/L)	0.73	0.82	5.92	0.0487	0.0040
	Antimony (Sb)-Total (mg/L)	<0.010 ^{DLA}	<0.010 ^{DLA}	<0.0050 ^{DLA}	<0.00020 ^{DLA}	<0.00010
	Arsenic (As)-Total (mg/L)	<0.010 ^{DLA}	<0.010 ^{DLA}	0.0052	0.00186	0.00011
	Barium (Ba)-Total (mg/L)	0.0178	0.0166	0.106	0.0196	0.436
	Beryllium (Be)-Total (mg/L)	<0.010 ^{DLA}	<0.010 ^{DLA}	<0.0050 ^{DLA}	<0.00020 ^{DLA}	0.00024
	Bismuth (Bi)-Total (mg/L)	<0.050 ^{DLA}	<0.050 ^{DLA}	<0.025 ^{DLA}	<0.0010 ^{DLA}	<0.00050
	Boron (B)-Total (mg/L)	<1.0 ^{DLA}	<1.0 ^{DLA}	<0.50 ^{DLA}	<0.020 ^{DLA}	0.025
	Cadmium (Cd)-Total (mg/L)	0.116	0.117	0.203	<0.000020 ^{DLA}	<0.000010
	Calcium (Ca)-Total (mg/L)	407	374	416	466	124
	Chromium (Cr)-Total (mg/L)	<0.010 ^{DLA}	<0.010 ^{DLA}	0.0277	0.00027	0.00014
	Cobalt (Co)-Total (mg/L)	1.34	1.30	1.11	0.00135	0.00012
	Copper (Cu)-Total (mg/L)	<0.050 ^{DLA}	<0.050 ^{DLA}	0.042	<0.0010 ^{DLA}	<0.00050
	Iron (Fe)-Total (mg/L)	140	134	14.7	12.7	0.395
	Lead (Pb)-Total (mg/L)	0.0375	0.0394	0.0144	0.00010	<0.000050
	Lithium (Li)-Total (mg/L)	0.222	0.194	0.154	0.0206	0.174
	Magnesium (Mg)-Total (mg/L)	1120	1050	1150	75.6	43.6
	Manganese (Mn)-Total (mg/L)	105	101	119	7.75	0.246
	Molybdenum (Mo)-Total (mg/L)	<0.0050 ^{DLA}	<0.0050 ^{DLA}	<0.0025 ^{DLA}	0.00046	<0.000050
	Nickel (Ni)-Total (mg/L)	1.33	1.30	2.69	0.0027	<0.00050
	Phosphorus (P)-Total (mg/L)	<30 ^{DLA}	<30 ^{DLA}	<15 ^{DLA}	<0.60 ^{DLA}	<0.30
	Potassium (K)-Total (mg/L)	15.9	14.8	12.9	5.73	3.36
	Selenium (Se)-Total (mg/L)	<0.010 ^{DLA}	<0.010 ^{DLA}	<0.0050 ^{DLA}	<0.00020 ^{DLA}	<0.00010
	Silicon (Si)-Total (mg/L)	13.4	13.0	20.6	8.01	8.97
	Silver (Ag)-Total (mg/L)	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.00050 ^{DLA}	<0.000020 ^{DLA}	0.000144
	Sodium (Na)-Total (mg/L)	55.4	52.9	40.0	42.0	69.5
	Strontium (Sr)-Total (mg/L)	3.91	3.62	1.80	1.18	1.79
	Thallium (Tl)-Total (mg/L)	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.00050 ^{DLA}	<0.000020 ^{DLA}	<0.000010
	Tin (Sn)-Total (mg/L)	<0.010 ^{DLA}	<0.010 ^{DLA}	<0.0050 ^{DLA}	<0.00020 ^{DLA}	<0.00010
Titanium (Ti)-Total (mg/L)	<1.0 ^{DLA}	<1.0 ^{DLA}	<0.50 ^{DLA}	<0.020 ^{DLA}	<0.010	

* 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	L1310290-6 Water 31-MAY-13 09:30 P96-8B	L1310290-7 Water 29-MAY-13 10:55 P01-11	L1310290-8 Water 30-MAY-13 18:03 V37	L1310290-9 Water 30-MAY-13 12:14 P2001-2B	L1310290-10 Water 30-MAY-13 14:03 P2001-3
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	6590	3200	1080	2110	947
	Hardness (as CaCO3) (mg/L)	4670	2180	591	1420	476
	pH (pH)	5.75	7.45	8.18	7.77	8.07
	Total Suspended Solids (mg/L)	27.6	144	25.2	265	5470
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	948	48.3	4.6	26.3	7.2
	Alkalinity, Total (as CaCO3) (mg/L)	24.1	436	453	564	460
	Chloride (Cl) (mg/L)	<25 ^{DLA}	<10 ^{DLA}	<5.0 ^{DLA}	<10 ^{DLA}	<5.0 ^{DLA}
	Sulfate (SO4) (mg/L)	6430	2100	232	902	138
Total Metals	Aluminum (Al)-Total (mg/L)	3.50	1.29	0.573	4.85	71.6
	Antimony (Sb)-Total (mg/L)	<0.010 ^{DLA}	<0.00050 ^{DLA}	0.00011	0.00019	0.00188
	Arsenic (As)-Total (mg/L)	<0.010 ^{DLA}	0.0415	0.00186	0.0236	0.124
	Barium (Ba)-Total (mg/L)	0.0582	0.0464	0.0802	0.0754	2.56
	Beryllium (Be)-Total (mg/L)	<0.010 ^{DLA}	<0.00050 ^{DLA}	<0.00010	0.00035	0.00344
	Bismuth (Bi)-Total (mg/L)	<0.050 ^{DLA}	<0.0025 ^{DLA}	<0.00050	<0.00050	<0.0025 ^{DLA}
	Boron (B)-Total (mg/L)	<1.0 ^{DLA}	<0.050 ^{DLA}	0.039	0.024	<0.050 ^{DLA}
	Cadmium (Cd)-Total (mg/L)	0.177	<0.000050 ^{DLA}	0.000048	0.000068	0.00590
	Calcium (Ca)-Total (mg/L)	691	639	83.3	297	195
	Chromium (Cr)-Total (mg/L)	<0.010 ^{DLA}	0.00318	0.00200	0.00354	0.267
	Cobalt (Co)-Total (mg/L)	0.818	0.0108	0.00072	0.00144	0.0726
	Copper (Cu)-Total (mg/L)	<0.050 ^{DLA}	0.0042	0.00162	0.00468	0.243
	Iron (Fe)-Total (mg/L)	17.5	69.0	1.56	15.6	144
	Lead (Pb)-Total (mg/L)	0.0096	0.00669	0.00141	0.0266	0.124
	Lithium (Li)-Total (mg/L)	0.100	0.0252	0.0287	0.0308	0.105
	Magnesium (Mg)-Total (mg/L)	841	133	93.9	156	114
	Manganese (Mn)-Total (mg/L)	75.4	37.3	0.137	0.855	4.43
	Molybdenum (Mo)-Total (mg/L)	<0.0050 ^{DLA}	0.00108	0.0166	0.00110	0.0195
	Nickel (Ni)-Total (mg/L)	1.71	0.0224	0.00210	0.00558	0.327
	Phosphorus (P)-Total (mg/L)	<30 ^{DLA}	<1.5 ^{DLA}	<0.30	<0.30	5.0
	Potassium (K)-Total (mg/L)	13.7	8.00	5.91	5.59	11.0
	Selenium (Se)-Total (mg/L)	<0.010 ^{DLA}	<0.00050 ^{DLA}	<0.00010	0.00011	0.00262
	Silicon (Si)-Total (mg/L)	12.2	14.1	4.30	16.9	94.8
	Silver (Ag)-Total (mg/L)	<0.0010 ^{DLA}	<0.000050 ^{DLA}	0.000022	0.000049	0.00154
	Sodium (Na)-Total (mg/L)	29.6	39.5	22.3	12.2	32.5
	Strontium (Sr)-Total (mg/L)	3.83	1.54	0.626	1.44	1.04
	Thallium (Tl)-Total (mg/L)	<0.0010 ^{DLA}	<0.000050 ^{DLA}	0.000025	0.000030	0.000713
	Tin (Sn)-Total (mg/L)	<0.010 ^{DLA}	<0.00050 ^{DLA}	0.00024	0.00194	0.00233
Titanium (Ti)-Total (mg/L)	<1.0 ^{DLA}	<0.050 ^{DLA}	0.017	0.042	1.44	

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID	L1310290-11 Water 30-MAY-13 17:04 V34	L1310290-12 Water 31-MAY-13 23:00 SRK05-7	L1310290-13 Water 30-MAY-13 10:49 SRK08-10A	L1310290-14 Water 29-MAY-13 12:23 P01-01A	L1310290-15 Water 30-MAY-13 11:55 P09-ETA2	
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	1970	2660	3660	1610	7340
	Hardness (as CaCO3) (mg/L)	1300	1900	2300	968	3160
	pH (pH)	7.87	7.80	7.22	7.74	5.34
	Total Suspended Solids (mg/L)	73.8	244	58.0	<1.0	118
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	138	22.4	79.6	16.2	2960
	Alkalinity, Total (as CaCO3) (mg/L)	793	447	642	326	24.2
	Chloride (Cl) (mg/L)	12	<10 ^{DLA}	164	<5.0 ^{DLA}	<25 ^{DLA}
	Sulfate (SO4) (mg/L)	509	1540	1790	752	7180
Total Metals	Aluminum (Al)-Total (mg/L)	2.21	6.47	3.15	0.0103	0.24
	Antimony (Sb)-Total (mg/L)	0.00020	0.00161	<0.00050 ^{DLA}	<0.00020 ^{DLA}	<0.0050 ^{DLA}
	Arsenic (As)-Total (mg/L)	0.00225	0.0546	0.00178	0.00022	0.178
	Barium (Ba)-Total (mg/L)	0.0831	0.132	0.0583	0.0426	0.0192
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00020 ^{DLA}	<0.00050 ^{DLA}	<0.00020 ^{DLA}	<0.0050 ^{DLA}
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.0010 ^{DLA}	<0.0025 ^{DLA}	<0.0010 ^{DLA}	<0.025 ^{DLA}
	Boron (B)-Total (mg/L)	0.026	<0.020 ^{DLA}	<0.050 ^{DLA}	<0.020 ^{DLA}	<0.50 ^{DLA}
	Cadmium (Cd)-Total (mg/L)	0.000107	0.000175	0.000561	0.000975	<0.00050 ^{DLA}
	Calcium (Ca)-Total (mg/L)	196	399	769	293	394
	Chromium (Cr)-Total (mg/L)	0.0101	0.124	0.00502	<0.00020 ^{DLA}	<0.0050 ^{DLA}
	Cobalt (Co)-Total (mg/L)	0.00308	0.0252	0.00249	0.00185	0.699
	Copper (Cu)-Total (mg/L)	0.00383	0.0179	0.0058	0.0010	<0.025 ^{DLA}
	Iron (Fe)-Total (mg/L)	4.18	13.4	2.84	<0.020 ^{DLA}	1670
	Lead (Pb)-Total (mg/L)	0.00178	0.0473	0.0134	<0.00010 ^{DLA}	0.0185
	Lithium (Li)-Total (mg/L)	0.0302	0.0148	0.0140	0.0123	0.080
	Magnesium (Mg)-Total (mg/L)	193	231	89.1	61.7	524
	Manganese (Mn)-Total (mg/L)	0.0919	0.345	0.0643	7.13	62.5
	Molybdenum (Mo)-Total (mg/L)	0.00174	0.00106	0.00057	0.00091	<0.0025 ^{DLA}
	Nickel (Ni)-Total (mg/L)	0.00915	0.143	0.0170	0.0100	0.625
	Phosphorus (P)-Total (mg/L)	<0.30	<0.60 ^{DLA}	<1.5 ^{DLA}	<0.60 ^{DLA}	<15 ^{DLA}
	Potassium (K)-Total (mg/L)	4.59	2.23	15.1	6.10	7.5
	Selenium (Se)-Total (mg/L)	<0.00010	0.00105	<0.00050 ^{DLA}	<0.00020 ^{DLA}	<0.0050 ^{DLA}
	Silicon (Si)-Total (mg/L)	9.91	15.3	15.1	7.46	27.1
	Silver (Ag)-Total (mg/L)	0.000031	0.000134	<0.000050 ^{DLA}	<0.000020 ^{DLA}	<0.00050 ^{DLA}
	Sodium (Na)-Total (mg/L)	7.75	11.6	140	19.3	39.3
	Strontium (Sr)-Total (mg/L)	1.56	1.18	1.64	0.912	3.16
	Thallium (Tl)-Total (mg/L)	0.000021	0.000061	<0.000050 ^{DLA}	<0.000020 ^{DLA}	<0.00050 ^{DLA}
	Tin (Sn)-Total (mg/L)	0.00045	0.00089	0.00076	<0.00020 ^{DLA}	<0.0050 ^{DLA}
	Titanium (Ti)-Total (mg/L)	0.042	0.073	0.104	<0.020 ^{DLA}	<0.50 ^{DLA}

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID	L1310290-16 Water 29-MAY-13 15:46 SRK05-8	L1310290-17 Water 28-MAY-13 14:38 S2A	L1310290-18 Water 29-MAY-13 11:57 P01-01B	L1310290-19 Water 28-MAY-13 18:17 P01-03	L1310290-20 Water 28-MAY-13 17:55 X25-96A	
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	2550	1570	1360	3670	1510
	Hardness (as CaCO3) (mg/L)	1780	906	755	2430	855
	pH (pH)	7.63	6.70	7.89	6.52	7.76
	Total Suspended Solids (mg/L)	89.3	200	2.0	806	<1.0
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	76.0	144	9.7	305	14.6
	Alkalinity, Total (as CaCO3) (mg/L)	611	291	269	258	275
	Chloride (Cl) (mg/L)	<10 ^{DLA}	<5.0 ^{DLA}	<5.0 ^{DLA}	<10 ^{DLA}	<5.0 ^{DLA}
	Sulfate (SO4) (mg/L)	1340	708	574	2610	704 ^{DLA}
Total Metals	Aluminum (Al)-Total (mg/L)	3.33	5.90	<0.0030	24.2	<0.0060 ^{DLA}
	Antimony (Sb)-Total (mg/L)	0.00027	0.00058	<0.00010	0.0012	<0.00020 ^{DLA}
	Arsenic (As)-Total (mg/L)	0.00551	0.0124	0.00238	0.0390	<0.00020 ^{DLA}
	Barium (Ba)-Total (mg/L)	0.0947	0.102	0.0508	0.350	0.0568
	Beryllium (Be)-Total (mg/L)	<0.00020 ^{DLA}	0.00046	<0.00010	0.0017	<0.00020 ^{DLA}
	Bismuth (Bi)-Total (mg/L)	<0.0010 ^{DLA}	<0.00050	<0.00050	<0.0050 ^{DLA}	<0.0010 ^{DLA}
	Boron (B)-Total (mg/L)	<0.020 ^{DLA}	0.012	0.012	<0.10 ^{DLA}	<0.020
	Cadmium (Cd)-Total (mg/L)	0.000100	0.000818	0.000037	0.00279	0.000125
	Calcium (Ca)-Total (mg/L)	380	213	237	727	262 ^{DLA}
	Chromium (Cr)-Total (mg/L)	0.0109	0.0348	0.00010	0.0600	<0.00020
	Cobalt (Co)-Total (mg/L)	0.00353	0.0203	0.00017	0.210	0.00633
	Copper (Cu)-Total (mg/L)	0.0179	0.0155	<0.00050	0.0791	0.0011
	Iron (Fe)-Total (mg/L)	5.68	34.0	0.776	171	0.149
	Lead (Pb)-Total (mg/L)	0.0176	0.0168	<0.000050	0.0675	<0.00010 ^{DLA}
	Lithium (Li)-Total (mg/L)	0.0209	0.0595	0.0119	0.0730	0.0047
	Magnesium (Mg)-Total (mg/L)	198	89.8	46.3	182	56.0
	Manganese (Mn)-Total (mg/L)	0.0834	4.23	0.114	84.6	13.3
	Molybdenum (Mo)-Total (mg/L)	0.00073	0.000969	0.000978	0.00338	0.00144
	Nickel (Ni)-Total (mg/L)	0.0107	0.0563	0.00062	0.128	0.0051 ^{DLA}
	Phosphorus (P)-Total (mg/L)	<0.60 ^{DLA}	<0.30	<0.30	<3.0 ^{DLA}	<0.60
	Potassium (K)-Total (mg/L)	2.23	6.41	4.22	11.4	4.88 ^{DLA}
	Selenium (Se)-Total (mg/L)	0.00038	0.00022	<0.00010	<0.0010 ^{DLA}	<0.00020
	Silicon (Si)-Total (mg/L)	11.2	23.3	5.85	44.3	8.03 ^{DLA}
	Silver (Ag)-Total (mg/L)	0.000139	0.000145	<0.000010	0.00034	<0.000020
	Sodium (Na)-Total (mg/L)	10.1	10.8	24.0	30.3	20.5
	Strontium (Sr)-Total (mg/L)	1.42	0.773	0.872	2.23	0.718
	Thallium (Tl)-Total (mg/L)	0.000036	0.000098	<0.000010	0.00056	<0.000020 ^{DLA}
	Tin (Sn)-Total (mg/L)	<0.00020 ^{DLA}	0.00190	<0.00010	0.0016	<0.00020 ^{DLA}
Titanium (Ti)-Total (mg/L)	0.051	0.229	<0.010	0.84	<0.020 ^{DLA}	

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ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1310290-21 Water 31-MAY-13 11:00 TRAVEL BLANK	L1310290-22 Water 28-MAY-13 14:43 SRK08-SP7A	L1310290-23 Water 28-MAY-13 12:37 SRK05-SP-4A	L1310290-24 Water 28-MAY-13 15:22 S1A	L1310290-25 Water 30-MAY-13 14:50 V36
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	<2.0	848	1270	465	3020
	Hardness (as CaCO3) (mg/L)	<0.50	415	641	213	1950
	pH (pH)	7.79	6.59	6.57	6.96	7.68
	Total Suspended Solids (mg/L)	<1.0	15.3	10.4	91.3	81.0
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	1.9	50.7	210	39.7	41.5
	Alkalinity, Total (as CaCO3) (mg/L)	<2.0	112	273	123	713
	Chloride (Cl) (mg/L)	<0.50	<2.5 ^{DLA}	<5.0 ^{DLA}	<0.50	<10 ^{DLA}
	Sulfate (SO4) (mg/L)	<0.50	387	540	13.2	1710
Total Metals	Aluminum (Al)-Total (mg/L)	<0.0030	0.0796	0.0501	1.24	1.54
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010	<0.00020 ^{DLA}	<0.00010	0.00038
	Arsenic (As)-Total (mg/L)	<0.00010	0.00536	0.00153	0.00117	0.0215
	Barium (Ba)-Total (mg/L)	<0.000050	0.0140	0.0146	0.0637	0.0580
	Beryllium (Be)-Total (mg/L)	<0.00010	0.00030	0.00084	0.00016	<0.00020 ^{DLA}
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.0010 ^{DLA}	<0.00050	<0.0010 ^{DLA}
	Boron (B)-Total (mg/L)	<0.010	<0.010	<0.020 ^{DLA}	0.011	0.022
	Cadmium (Cd)-Total (mg/L)	<0.000010	0.000030	0.00640	0.000499	0.000607
	Calcium (Ca)-Total (mg/L)	<0.020	109	118	41.4	444
	Chromium (Cr)-Total (mg/L)	<0.00010	0.00041	0.00023	0.00281	0.0162
	Cobalt (Co)-Total (mg/L)	<0.00010	0.00540	0.0517	0.00285	0.00393
	Copper (Cu)-Total (mg/L)	<0.00050	<0.00050	<0.0010 ^{DLA}	0.00305	0.0127
	Iron (Fe)-Total (mg/L)	<0.010	14.1	15.6	4.81	3.67
	Lead (Pb)-Total (mg/L)	<0.000050	0.000229	0.00070	0.00180	0.0546
	Lithium (Li)-Total (mg/L)	<0.00050	0.0415	0.0632	0.0411	0.0434
	Magnesium (Mg)-Total (mg/L)	<0.0050	36.1	86.9	32.5	230
	Manganese (Mn)-Total (mg/L)	<0.000050	1.11	5.45	3.40	0.220
	Molybdenum (Mo)-Total (mg/L)	<0.000050	0.000126	0.00014	0.000346	0.00118
	Nickel (Ni)-Total (mg/L)	<0.00050	0.0139	0.135	0.0104	0.0208
	Phosphorus (P)-Total (mg/L)	<0.30	<0.30	<0.60 ^{DLA}	<0.30	<0.60 ^{DLA}
	Potassium (K)-Total (mg/L)	<0.050	4.15	4.82	3.30	5.25
	Selenium (Se)-Total (mg/L)	<0.00010	<0.00010	<0.00020 ^{DLA}	<0.00010	0.00026
	Silicon (Si)-Total (mg/L)	<0.050	12.4	15.2	10.4	9.18
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010	<0.000020 ^{DLA}	0.000043	0.000059
	Sodium (Na)-Total (mg/L)	<0.050	7.88	10.2	4.05	8.84
	Strontium (Sr)-Total (mg/L)	<0.00020	0.440	0.571	0.433	2.13
	Thallium (Tl)-Total (mg/L)	<0.000010	<0.000010	<0.000020 ^{DLA}	0.000029	0.000139
Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.00020 ^{DLA}	<0.00010	0.00181	
Titanium (Ti)-Total (mg/L)	<0.010	<0.010	<0.020 ^{DLA}	0.050	0.035	

* 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	L1310290-26 Water 30-MAY-13 17:29 P09-S155	L1310290-27 Water 30-MAY-13 09:23 P09-VC1	L1310290-28 Water 30-MAY-13 10:03 XR-1E	L1310290-29 Water 30-MAY-13 17:30 V35	L1310290-30 Water 29-MAY-13 17:29 SRK05-5C
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	5870	352	350	3780	429
	Hardness (as CaCO3) (mg/L)	4620	139	130	2760	176
	pH (pH)	7.48	8.31	8.30	7.88	8.19
	Total Suspended Solids (mg/L)	336	88.0	80.0	32.8	10800
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	259	<1.0	<1.0	38.0	2.5
	Alkalinity, Total (as CaCO3) (mg/L)	385	130	131	709	143
	Chloride (Cl) (mg/L)	<25 ^{DLA}	<0.50	<0.50	<10 ^{DLA}	<0.50
	Sulfate (SO4) (mg/L)	4970	59.3	60.8	2470	94.4
Total Metals	Aluminum (Al)-Total (mg/L)	1.18	1.54	1.09	0.386	125
	Antimony (Sb)-Total (mg/L)	<0.0010 ^{DLA}	0.00012	<0.00010	0.00044	0.00323
	Arsenic (As)-Total (mg/L)	0.0030	0.00296	0.00263	0.00093	0.319
	Barium (Ba)-Total (mg/L)	0.0370	0.0460	0.0391	0.0157	3.04
	Beryllium (Be)-Total (mg/L)	<0.0010 ^{DLA}	0.00015	0.00010	<0.00020 ^{DLA}	0.00527
	Bismuth (Bi)-Total (mg/L)	<0.0050 ^{DLA}	<0.00050	<0.00050	<0.0010 ^{DLA}	0.0027 ^{DLA}
	Boron (B)-Total (mg/L)	<0.10 ^{DLA}	<0.010	<0.010	<0.020 ^{DLA}	<0.050 ^{DLA}
	Cadmium (Cd)-Total (mg/L)	0.00229	0.000377	0.000339	0.000284	0.00780
	Calcium (Ca)-Total (mg/L)	484	44.0	41.6	555	91.3
	Chromium (Cr)-Total (mg/L)	0.0056	0.00144	0.00107	0.00091	0.394
	Cobalt (Co)-Total (mg/L)	0.0784	0.00057	0.00044	0.00021	0.109
	Copper (Cu)-Total (mg/L)	0.0112	0.00204	0.00185	0.0016	0.424
	Iron (Fe)-Total (mg/L)	15.3	2.02	1.71	0.362	244
	Lead (Pb)-Total (mg/L)	0.00686	0.0132	0.0112	0.00163	2.14
	Lithium (Li)-Total (mg/L)	0.0702	0.00388	0.00390	0.0277	0.189
	Magnesium (Mg)-Total (mg/L)	832	8.96	8.75	301	73.2
	Manganese (Mn)-Total (mg/L)	64.7	0.0381	0.0345	0.0259	4.56
	Molybdenum (Mo)-Total (mg/L)	0.00217	0.000494	0.000416	0.00142	0.0232
	Nickel (Ni)-Total (mg/L)	0.509	0.00153	0.00122	0.0084	0.443
	Phosphorus (P)-Total (mg/L)	<3.0 ^{DLA}	<0.30	<0.30	<0.60 ^{DLA}	5.5
	Potassium (K)-Total (mg/L)	9.23	1.17	1.15	5.01	11.6
	Selenium (Se)-Total (mg/L)	<0.0010 ^{DLA}	<0.00010	<0.00010	0.00030	0.00197
	Silicon (Si)-Total (mg/L)	11.4	8.13	7.52	7.42	127
	Silver (Ag)-Total (mg/L)	<0.00010 ^{DLA}	0.000171	0.000109	<0.000020 ^{DLA}	0.00520
	Sodium (Na)-Total (mg/L)	62.4	20.6	20.3	10.1	19.4
	Strontium (Sr)-Total (mg/L)	2.19	0.578	0.567	1.54	0.990
	Thallium (Tl)-Total (mg/L)	<0.00010 ^{DLA}	0.000018	0.000014	0.000033	0.00214
	Tin (Sn)-Total (mg/L)	0.0011	0.00024	0.00016	0.00507	0.00245
Titanium (Ti)-Total (mg/L)	<0.10 ^{DLA}	0.015	0.010	<0.020 ^{DLA}	1.94	

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ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1310290-31 Water 30-MAY-13 15:30 BH14A	L1310290-32 Water 29-MAY-13 09:43 X25-96B	L1310290-33 Water 30-MAY-13 08:31 XR-ID	L1310290-34 Water 29-MAY-13 11:22 X24-96D	L1310290-35 Water 30-MAY-13 08:30 SRK08-11A
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	3790	1530	815	3610	820
	Hardness (as CaCO3) (mg/L)	2680	815	428	2490	439
	pH (pH)	7.56	8.10	7.97	7.12	7.98
	Total Suspended Solids (mg/L)	14.6	3.4	3.0	8.6	3.4
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	61.9	39.9	7.9	114	6.1
	Alkalinity, Total (as CaCO3) (mg/L)	424	261 ^{DLA}	176 ^{DLA}	441 ^{DLA}	180 ^{DLA}
	Chloride (Cl) (mg/L)	15	<5.0	<2.5	<10	<2.5
	Sulfate (SO4) (mg/L)	2580	700	285	2350	298
Total Metals	Aluminum (Al)-Total (mg/L)	0.170	0.0072	0.0595	0.032	0.0578
	Antimony (Sb)-Total (mg/L)	<0.00020 ^{DLA}	<0.00010	<0.00010	<0.0010 ^{DLA}	<0.00010
	Arsenic (As)-Total (mg/L)	0.00025	0.00069	0.00019	<0.0010 ^{DLA}	0.00020
	Barium (Ba)-Total (mg/L)	0.0179	0.0303	0.0829	0.0251	0.0859
	Beryllium (Be)-Total (mg/L)	<0.00020 ^{DLA}	<0.00010	<0.00010	<0.0010 ^{DLA}	<0.00010
	Bismuth (Bi)-Total (mg/L)	<0.0010 ^{DLA}	<0.00050	<0.00050	<0.0050 ^{DLA}	<0.00050
	Boron (B)-Total (mg/L)	<0.020 ^{DLA}	<0.010	<0.010	<0.10 ^{DLA}	<0.010
	Cadmium (Cd)-Total (mg/L)	0.00312	0.000048	0.000010	0.00425	<0.000010
	Calcium (Ca)-Total (mg/L)	571	269	137	771	138
	Chromium (Cr)-Total (mg/L)	0.00045	0.00012	0.00034	<0.0010 ^{DLA}	0.00031
	Cobalt (Co)-Total (mg/L)	0.00041	0.00023	<0.00010	0.344 ^{DLA}	<0.00010
	Copper (Cu)-Total (mg/L)	0.0068	0.00064	0.00135	<0.0050 ^{DLA}	0.00119
	Iron (Fe)-Total (mg/L)	0.273	1.23	0.081	0.13	0.091
	Lead (Pb)-Total (mg/L)	0.0161	0.000084	0.000195	<0.00050 ^{DLA}	0.000251
	Lithium (Li)-Total (mg/L)	0.0736	0.00924	0.0106	0.0335	0.0108
	Magnesium (Mg)-Total (mg/L)	311	36.8	23.5	187	26.9
	Manganese (Mn)-Total (mg/L)	0.0144	0.264	0.00218	112	0.00271
	Molybdenum (Mo)-Total (mg/L)	0.00031	0.000392	0.000233	0.00066	0.000251
	Nickel (Ni)-Total (mg/L)	0.187	0.00100	0.00145	0.463	0.00138
	Phosphorus (P)-Total (mg/L)	<0.60 ^{DLA}	<0.30	<0.30	<3.0 ^{DLA}	<0.30
	Potassium (K)-Total (mg/L)	3.72	3.74	3.09	8.46	3.54
	Selenium (Se)-Total (mg/L)	0.00041	<0.00010	0.00028	<0.0010 ^{DLA}	0.00026
	Silicon (Si)-Total (mg/L)	9.42	5.58	6.73	10.8	6.94
	Silver (Ag)-Total (mg/L)	0.000043	<0.000010	<0.000010	<0.00010 ^{DLA}	<0.000010
	Sodium (Na)-Total (mg/L)	18.6	47.3	6.14	39.0	6.77
	Strontium (Sr)-Total (mg/L)	2.92	0.628	0.557	2.30	0.558
	Thallium (Tl)-Total (mg/L)	<0.00020 ^{DLA}	<0.000010	<0.000010	0.00021	<0.000010
Tin (Sn)-Total (mg/L)	<0.00020 ^{DLA}	<0.00010	<0.00010	<0.0010 ^{DLA}	<0.00010	
Titanium (Ti)-Total (mg/L)	<0.020 ^{DLA}	<0.010	<0.010	<0.10 ^{DLA}	<0.010	

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ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1310290-36 Water 30-MAY-13 09:13 SRK08-11B	L1310290-37 Water 28-MAY-13 12:15 P09-SIS2	L1310290-38 Water 29-MAY-13 10:15 XR-IC	L1310290-39 Water 29-MAY-13 22:12 P09-C2	L1310290-40 Water 28-MAY-13 16:05 S2B
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	919	9310	2460	2560	8400
	Hardness (as CaCO3) (mg/L)	478	6860	962	961	6780
	pH (pH)	7.88	6.63		7.05	6.73
	Total Suspended Solids (mg/L)	4.0	1210	44.0	38.0	309
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	6.6	1280	163	298	917
	Alkalinity, Total (as CaCO3) (mg/L)	153	168	1530	1620	185
	Chloride (Cl) (mg/L)	<5.0 ^{DLA}	<25 ^{DLA}	23	22	<25 ^{DLA}
	Sulfate (SO4) (mg/L)	385	9480	31	31	8400
Total Metals	Aluminum (Al)-Total (mg/L)	0.153	17.3	0.510	0.487	0.72
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.010 ^{DLA}	<0.00010	<0.00020 ^{DLA}	<0.010 ^{DLA}
	Arsenic (As)-Total (mg/L)	0.00028	0.029	0.00056	0.00048	<0.010 ^{DLA}
	Barium (Ba)-Total (mg/L)	0.0450	0.191	0.732	0.697	0.0285
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.010 ^{DLA}	0.00244	0.00247	<0.010 ^{DLA}
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.050 ^{DLA}	<0.00050	<0.0010 ^{DLA}	<0.050 ^{DLA}
	Boron (B)-Total (mg/L)	<0.010	<1.0 ^{DLA}	0.087	0.090	<1.0 ^{DLA}
	Cadmium (Cd)-Total (mg/L)	0.000361	0.326	<0.000010	<0.000020 ^{DLA}	0.0820
	Calcium (Ca)-Total (mg/L)	135	405	204	206	488
	Chromium (Cr)-Total (mg/L)	0.00047	0.041	0.00098	0.00085	<0.010 ^{DLA}
	Cobalt (Co)-Total (mg/L)	0.00096	1.64	0.00013	<0.00020 ^{DLA}	1.09
	Copper (Cu)-Total (mg/L)	0.00188	0.083	<0.00050	<0.0010 ^{DLA}	<0.050 ^{DLA}
	Iron (Fe)-Total (mg/L)	0.301	37.9	3.77	3.53	11.9
	Lead (Pb)-Total (mg/L)	0.000439	0.0551	0.000656	0.00062	<0.0050 ^{DLA}
	Lithium (Li)-Total (mg/L)	0.0102	0.176	0.803	0.806	0.150
	Magnesium (Mg)-Total (mg/L)	36.2	1370	101	99.0	1360
	Manganese (Mn)-Total (mg/L)	0.335	145	0.149	0.148	146
	Molybdenum (Mo)-Total (mg/L)	0.000152	<0.0050 ^{DLA}	0.000135	<0.00010 ^{DLA}	<0.0050 ^{DLA}
	Nickel (Ni)-Total (mg/L)	0.00862	3.56	0.00055	<0.0010 ^{DLA}	2.58
	Phosphorus (P)-Total (mg/L)	<0.30	<30 ^{DLA}	<0.30	<0.60 ^{DLA}	<30 ^{DLA}
	Potassium (K)-Total (mg/L)	2.98	15.1	11.2	11.2	12.3
	Selenium (Se)-Total (mg/L)	0.00014	<0.010 ^{DLA}	<0.00010	<0.00020 ^{DLA}	<0.010 ^{DLA}
	Silicon (Si)-Total (mg/L)	6.94	35.7	11.5	11.6	12.3
	Silver (Ag)-Total (mg/L)	<0.000010	<0.0010 ^{DLA}	0.000223	0.000251	<0.0010 ^{DLA}
	Sodium (Na)-Total (mg/L)	7.06	46.2	285	280	44.2
	Strontium (Sr)-Total (mg/L)	0.559	1.96	4.27	4.29	2.16
	Thallium (Tl)-Total (mg/L)	0.000024	<0.0010 ^{DLA}	<0.000010	<0.000020 ^{DLA}	<0.0010 ^{DLA}
	Tin (Sn)-Total (mg/L)	<0.00010	<0.010 ^{DLA}	<0.00010	<0.00020 ^{DLA}	<0.010 ^{DLA}
Titanium (Ti)-Total (mg/L)	<0.010	<1.0 ^{DLA}	<0.010	<0.020 ^{DLA}	<1.0 ^{DLA}	

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID	L1310290-41 Water 28-MAY-13 13:47 SRK08-SP7B	L1310290-42 Water 28-MAY-13 11:07 P09-SIS1	L1310290-43 Water 29-MAY-13 13:35 96-7	L1310290-44 Water 29-MAY-13 10:10 XR-1A	L1310290-45 Water 29-MAY-13 12:25 XR-1F	
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	327	6880	2780	1530	1620
	Hardness (as CaCO3) (mg/L)	136	5420	2130	806	926
	pH (pH)	7.89	6.88	8.00	8.08	7.68
	Total Suspended Solids (mg/L)	593	975	394	1.3	<1.0
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	10.4	466	13.2	8.3	22.7
	Alkalinity, Total (as CaCO3) (mg/L)	73.7	284	197	262	299
	Chloride (Cl) (mg/L)	<0.50	<25 ^{DLA}	<10 ^{DLA}	<5.0 ^{DLA}	<5.0 ^{DLA}
	Sulfate (SO4) (mg/L)	103	6430	1950	720	738
Total Metals	Aluminum (Al)-Total (mg/L)	0.0353	5.20	15.8	0.0112	0.0098
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.0050 ^{DLA}	0.00065	<0.00010	<0.00010
	Arsenic (As)-Total (mg/L)	0.00277	0.0067	0.00864	0.00065	0.00020
	Barium (Ba)-Total (mg/L)	0.0717	0.0452	0.239	0.0300	0.0397
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.0050 ^{DLA}	0.00111	<0.00010	<0.00010
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.025 ^{DLA}	<0.0010 ^{DLA}	<0.00050	<0.00050
	Boron (B)-Total (mg/L)	<0.010	<0.50 ^{DLA}	<0.020 ^{DLA}	<0.010	0.012
	Cadmium (Cd)-Total (mg/L)	0.000019	0.103	0.000138	0.000048	0.000918
	Calcium (Ca)-Total (mg/L)	15.5	440	551	276	269
	Chromium (Cr)-Total (mg/L)	0.00032	0.0121	0.0354	0.00016	0.00031
	Cobalt (Co)-Total (mg/L)	0.00109	0.535	0.0244	0.00022	0.00181
	Copper (Cu)-Total (mg/L)	0.00059	0.033	0.0425	0.00050	<0.00050
	Iron (Fe)-Total (mg/L)	3.18	18.3	48.4	1.17	0.018
	Lead (Pb)-Total (mg/L)	0.000350	0.0455	0.0237	0.000079	0.000066
	Lithium (Li)-Total (mg/L)	0.0149	0.096	0.0728	0.0100	0.0117
	Magnesium (Mg)-Total (mg/L)	24.3	993	177	40.9	60.7
	Manganese (Mn)-Total (mg/L)	1.43	60.7	0.724	0.291	7.02
	Molybdenum (Mo)-Total (mg/L)	0.000235	<0.0025 ^{DLA}	0.00174	0.000377	0.000858
	Nickel (Ni)-Total (mg/L)	0.00993	1.35	0.0544	0.00081	0.00919
	Phosphorus (P)-Total (mg/L)	<0.30	<15 ^{DLA}	<0.60 ^{DLA}	<0.30	<0.30
	Potassium (K)-Total (mg/L)	1.78	9.8	7.99	3.82	6.11
	Selenium (Se)-Total (mg/L)	<0.00010	<0.0050 ^{DLA}	0.00138	<0.00010	<0.00010
	Silicon (Si)-Total (mg/L)	6.55	15.4	26.6	5.69	7.14
	Silver (Ag)-Total (mg/L)	<0.000010	<0.00050 ^{DLA}	0.000184	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)	2.89	38.7	17.6	46.9	18.0
	Strontium (Sr)-Total (mg/L)	0.140	1.77	0.811	0.616	0.840
	Thallium (Tl)-Total (mg/L)	<0.000010	<0.00050 ^{DLA}	0.000257	<0.000010	0.000013
	Tin (Sn)-Total (mg/L)	<0.00010	<0.0050 ^{DLA}	0.00076	<0.00010	<0.00010
Titanium (Ti)-Total (mg/L)	<0.010	<0.50 ^{DLA}	0.350	<0.010	<0.010	

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID	L1310290-46 Water 29-MAY-13 15:49 XR-1B	L1310290-47 Water 29-MAY-13 16:35 P96-9A			
Grouping	Analyte				
WATER					
Physical Tests	Conductivity (uS/cm)	2540	2460		
	Hardness (as CaCO3) (mg/L)	1700	1660		
	pH (pH)	7.67	7.69		
	Total Suspended Solids (mg/L)	93.3	3.4		
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	35.6	27.4		
	Alkalinity, Total (as CaCO3) (mg/L)	560	452		
	Chloride (Cl) (mg/L)	<10 ^{DLA}	<10 ^{DLA}		
	Sulfate (SO4) (mg/L)	1310	1430		
Total Metals	Aluminum (Al)-Total (mg/L)	1.56	0.0298		
	Antimony (Sb)-Total (mg/L)	<0.00020 ^{DLA}	0.00013		
	Arsenic (As)-Total (mg/L)	0.00364	0.00135		
	Barium (Ba)-Total (mg/L)	0.0462	0.0435		
	Beryllium (Be)-Total (mg/L)	<0.00020 ^{DLA}	<0.00010		
	Bismuth (Bi)-Total (mg/L)	<0.0010 ^{DLA}	<0.00050		
	Boron (B)-Total (mg/L)	<0.020 ^{DLA}	<0.010		
	Cadmium (Cd)-Total (mg/L)	0.000084	0.000411		
	Calcium (Ca)-Total (mg/L)	361	271		
	Chromium (Cr)-Total (mg/L)	0.00851	0.00055		
	Cobalt (Co)-Total (mg/L)	0.00238	0.00033		
	Copper (Cu)-Total (mg/L)	0.0147	0.00268		
	Iron (Fe)-Total (mg/L)	2.98	0.583		
	Lead (Pb)-Total (mg/L)	0.0128	0.000948		
	Lithium (Li)-Total (mg/L)	0.0183	0.0108		
	Magnesium (Mg)-Total (mg/L)	192	254		
	Manganese (Mn)-Total (mg/L)	0.0548	0.0770		
	Molybdenum (Mo)-Total (mg/L)	0.00059	0.000600		
	Nickel (Ni)-Total (mg/L)	0.0081	0.00813		
	Phosphorus (P)-Total (mg/L)	<0.60 ^{DLA}	<0.30		
	Potassium (K)-Total (mg/L)	2.05	4.31		
	Selenium (Se)-Total (mg/L)	0.00035	0.00046		
	Silicon (Si)-Total (mg/L)	8.89	5.81		
	Silver (Ag)-Total (mg/L)	0.000081	0.000014		
	Sodium (Na)-Total (mg/L)	10.5	11.8		
	Strontium (Sr)-Total (mg/L)	1.44	0.929		
	Thallium (Tl)-Total (mg/L)	0.000025	<0.000010		
	Tin (Sn)-Total (mg/L)	0.00021	<0.00010		
Titanium (Ti)-Total (mg/L)	0.031	<0.010			

* 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	L1310290-1 Water 31-MAY-13 08:58 P96-8A	L1310290-2 Water 31-MAY-13 12:36 XR1H	L1310290-3 Water 31-MAY-13 10:27 SPK05-SP-5	L1310290-4 Water 31-MAY-13 12:32 P01-4B	L1310290-5 Water 31-MAY-13 13:30 P01-4A	
Grouping	Analyte					
WATER						
Total Metals	Uranium (U)-Total (mg/L)	0.0014	0.0013	0.00504	0.00657	0.000280
	Vanadium (V)-Total (mg/L)	<0.10 ^{DLA}	<0.10 ^{DLA}	<0.050 ^{DLA}	<0.0020 ^{DLA}	<0.0010
	Zinc (Zn)-Total (mg/L)	600 ^{DLA}	583 ^{DLA}	468 ^{DLA}	<0.0060 ^{DLA}	<0.0030
	Zirconium (Zr)-Total (mg/L)	<0.080 ^{DLA}	<0.080 ^{DLA}	<0.040 ^{DLA}	<0.0016 ^{DLA}	0.0626
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD ^{DLA}	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.70 ^{DLA}	0.74 ^{DLA}	0.088 ^{DLA}	<0.0020 ^{DLA}	0.0027
	Antimony (Sb)-Dissolved (mg/L)	<0.010 ^{DLA}	<0.010 ^{DLA}	<0.0050 ^{DLA}	<0.00020 ^{DLA}	<0.00010
	Arsenic (As)-Dissolved (mg/L)	<0.010 ^{DLA}	<0.010 ^{DLA}	<0.0050 ^{DLA}	0.00176	0.00010
	Barium (Ba)-Dissolved (mg/L)	0.0171 ^{DLA}	0.0170 ^{DLA}	0.0297 ^{DLA}	0.0182 ^{DLA}	0.394
	Beryllium (Be)-Dissolved (mg/L)	<0.010 ^{DLA}	<0.010 ^{DLA}	<0.0050 ^{DLA}	<0.00020 ^{DLA}	0.00022
	Bismuth (Bi)-Dissolved (mg/L)	<0.050 ^{DLA}	<0.050 ^{DLA}	<0.025 ^{DLA}	<0.0010 ^{DLA}	<0.00050
	Boron (B)-Dissolved (mg/L)	<1.0 ^{DLA}	<1.0 ^{DLA}	<0.50 ^{DLA}	<0.020 ^{DLA}	0.019
	Cadmium (Cd)-Dissolved (mg/L)	0.112	0.120	0.200	<0.000020 ^{DLA}	<0.000010
	Calcium (Ca)-Dissolved (mg/L)	389 ^{DLA}	377 ^{DLA}	424 ^{DLA}	460 ^{DLA}	117
	Chromium (Cr)-Dissolved (mg/L)	<0.010 ^{DLA}	<0.010 ^{DLA}	<0.0050 ^{DLA}	<0.00020 ^{DLA}	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	1.31 ^{DLA}	1.31 ^{DLA}	1.11 ^{DLA}	0.00131 ^{DLA}	0.00011
	Copper (Cu)-Dissolved (mg/L)	<0.020 ^{DLA}	<0.020 ^{DLA}	<0.010 ^{DLA}	<0.00040 ^{DLA}	<0.00020
	Iron (Fe)-Dissolved (mg/L)	137	131	<0.50 ^{DLA}	12.1 ^{DLA}	0.384
	Lead (Pb)-Dissolved (mg/L)	0.0298	0.0317	<0.0025 ^{DLA}	<0.00010 ^{DLA}	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.196	0.202	0.151	0.0195	0.160
	Magnesium (Mg)-Dissolved (mg/L)	1090	1030	1200	75.2	41.2
	Manganese (Mn)-Dissolved (mg/L)	104 ^{DLA}	99.4 ^{DLA}	117 ^{DLA}	7.57	0.233
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0050 ^{DLA}	<0.0050 ^{DLA}	<0.0025 ^{DLA}	0.00043	<0.000050
	Nickel (Ni)-Dissolved (mg/L)	1.32 ^{DLA}	1.32 ^{DLA}	2.69 ^{DLA}	0.0024 ^{DLA}	<0.00050
	Phosphorus (P)-Dissolved (mg/L)	<30 ^{DLA}	<30 ^{DLA}	<15 ^{DLA}	<0.60 ^{DLA}	<0.30
	Potassium (K)-Dissolved (mg/L)	15.2 ^{DLA}	14.8 ^{DLA}	11.8 ^{DLA}	5.58 ^{DLA}	3.14
	Selenium (Se)-Dissolved (mg/L)	<0.010 ^{DLA}	<0.010 ^{DLA}	<0.0050 ^{DLA}	<0.00020 ^{DLA}	0.00030
	Silicon (Si)-Dissolved (mg/L)	14.5 ^{DLA}	12.5 ^{DLA}	11.8 ^{DLA}	7.91 ^{DLA}	8.58
	Silver (Ag)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.00050 ^{DLA}	<0.000020 ^{DLA}	0.000113
	Sodium (Na)-Dissolved (mg/L)	56.5	52.5	39.6	40.7	65.5
	Strontium (Sr)-Dissolved (mg/L)	3.76 ^{DLA}	3.68 ^{DLA}	1.84 ^{DLA}	1.16 ^{DLA}	1.62
	Thallium (Tl)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.00050 ^{DLA}	<0.000020 ^{DLA}	<0.000010
	Tin (Sn)-Dissolved (mg/L)	<0.010 ^{DLA}	<0.010 ^{DLA}	<0.0050 ^{DLA}	<0.00020 ^{DLA}	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<1.0 ^{DLA}	<1.0 ^{DLA}	<0.50 ^{DLA}	<0.020 ^{DLA}	<0.010
	Uranium (U)-Dissolved (mg/L)	0.0012 ^{DLA}	0.0011 ^{DLA}	0.00370 ^{DLA}	0.00637 ^{DLA}	0.000280
	Vanadium (V)-Dissolved (mg/L)	<0.10 ^{DLA}	<0.10 ^{DLA}	<0.050 ^{DLA}	<0.0020 ^{DLA}	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	595	576	464	0.0026	0.0010

* 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	L1310290-6 Water 31-MAY-13 09:30 P96-8B	L1310290-7 Water 29-MAY-13 10:55 P01-11	L1310290-8 Water 30-MAY-13 18:03 V37	L1310290-9 Water 30-MAY-13 12:14 P2001-2B	L1310290-10 Water 30-MAY-13 14:03 P2001-3	
Grouping	Analyte					
WATER						
Total Metals	Uranium (U)-Total (mg/L)	0.0020	0.0118	0.00181	0.0281	0.0179
	Vanadium (V)-Total (mg/L)	<0.10 ^{DLA}	<0.0050 ^{DLA}	0.0019	0.0037	0.203
	Zinc (Zn)-Total (mg/L)	606	0.028	0.0187	0.0216	0.733
	Zirconium (Zr)-Total (mg/L)	<0.080 ^{DLA}	0.0047	<0.00080	0.00162	0.0134
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	3.10	<0.0050 ^{DLA}	0.0022	<0.0010	<0.0050 ^{DLA}
	Antimony (Sb)-Dissolved (mg/L)	<0.010 ^{DLA}	<0.00050 ^{DLA}	<0.00010	<0.00010	<0.00050 ^{DLA}
	Arsenic (As)-Dissolved (mg/L)	<0.010 ^{DLA}	0.0406	0.00074	0.00781	0.00338
	Barium (Ba)-Dissolved (mg/L)	0.0510	0.0268	0.0553	0.0260	0.0311
	Beryllium (Be)-Dissolved (mg/L)	<0.010 ^{DLA}	<0.00050 ^{DLA}	<0.00010	<0.00010	<0.00050 ^{DLA}
	Bismuth (Bi)-Dissolved (mg/L)	<0.050 ^{DLA}	<0.0025 ^{DLA}	<0.00050	<0.00050	<0.0025 ^{DLA}
	Boron (B)-Dissolved (mg/L)	<1.0 ^{DLA}	<0.050 ^{DLA}	0.035	0.018	<0.050 ^{DLA}
	Cadmium (Cd)-Dissolved (mg/L)	0.165	<0.000050 ^{DLA}	0.000018	<0.000010	0.000118
	Calcium (Ca)-Dissolved (mg/L)	609	647	81.6	313	93.6
	Chromium (Cr)-Dissolved (mg/L)	<0.010 ^{DLA}	<0.00050 ^{DLA}	<0.00010	<0.00010	<0.00050 ^{DLA}
	Cobalt (Co)-Dissolved (mg/L)	0.770	0.00980	0.00039	0.00066	<0.00050 ^{DLA}
	Copper (Cu)-Dissolved (mg/L)	0.038	<0.0010 ^{DLA}	0.00023	<0.00020	<0.0010 ^{DLA}
	Iron (Fe)-Dissolved (mg/L)	11.8	67.4	0.044	9.53	<0.050 ^{DLA}
	Lead (Pb)-Dissolved (mg/L)	0.0053	<0.00025 ^{DLA}	<0.000050	0.000215	<0.00025 ^{DLA}
	Lithium (Li)-Dissolved (mg/L)	0.068	0.0216	0.0300	0.0308	0.0102
	Magnesium (Mg)-Dissolved (mg/L)	765	137	94.1	156	58.8
	Manganese (Mn)-Dissolved (mg/L)	70.2	38.4	0.108	0.780	0.438
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0050 ^{DLA}	0.00094	0.0146	0.000996	0.0116
	Nickel (Ni)-Dissolved (mg/L)	1.59	0.0193	0.00096	0.00235	<0.0025 ^{DLA}
	Phosphorus (P)-Dissolved (mg/L)	<30 ^{DLA}	<1.5 ^{DLA}	<0.30	<0.30	<1.5 ^{DLA}
	Potassium (K)-Dissolved (mg/L)	11.8	8.01	5.91	5.14	3.05
	Selenium (Se)-Dissolved (mg/L)	<0.010 ^{DLA}	<0.00050 ^{DLA}	<0.00010	<0.00010	<0.00050 ^{DLA}
	Silicon (Si)-Dissolved (mg/L)	11.4	12.6	3.02	7.19	6.52
	Silver (Ag)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.000050 ^{DLA}	<0.000010	<0.000010	<0.000050 ^{DLA}
	Sodium (Na)-Dissolved (mg/L)	27.3	39.3	22.2	12.2	31.9
	Strontium (Sr)-Dissolved (mg/L)	3.43	1.58	0.622	1.52	0.592
	Thallium (Tl)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.000050 ^{DLA}	0.000011	<0.000010	<0.000050 ^{DLA}
	Tin (Sn)-Dissolved (mg/L)	<0.010 ^{DLA}	<0.00050 ^{DLA}	<0.00010	<0.00010	<0.00050 ^{DLA}
	Titanium (Ti)-Dissolved (mg/L)	<1.0 ^{DLA}	<0.050 ^{DLA}	<0.010	<0.010	<0.050 ^{DLA}
	Uranium (U)-Dissolved (mg/L)	0.0017	0.0114	0.00201	0.0271	0.0123
	Vanadium (V)-Dissolved (mg/L)	<0.10 ^{DLA}	<0.0050 ^{DLA}	<0.0010	<0.0010	<0.0050 ^{DLA}
	Zinc (Zn)-Dissolved (mg/L)	555	0.0132	0.0051	0.0056	0.0096

* 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	L1310290-11 Water 30-MAY-13 17:04 V34	L1310290-12 Water 31-MAY-13 23:00 SRK05-7	L1310290-13 Water 30-MAY-13 10:49 SRK08-10A	L1310290-14 Water 29-MAY-13 12:23 P01-01A	L1310290-15 Water 30-MAY-13 11:55 P09-ETA2	
Grouping	Analyte					
WATER						
Total Metals	Uranium (U)-Total (mg/L)	0.0187	0.0232	0.0398	0.00818	0.00457
	Vanadium (V)-Total (mg/L)	0.0043	0.0167	<0.0050 ^{DLA}	<0.0020 ^{DLA}	<0.050 ^{DLA}
	Zinc (Zn)-Total (mg/L)	0.0138	0.0552 ^{DLA}	0.565 ^{DLA}	0.0069 ^{DLA}	396 ^{DLA}
	Zirconium (Zr)-Total (mg/L)	0.00216	<0.0016	<0.0040	<0.0016	<0.040
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD ^{DLA}	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0032	0.0047	0.0095 ^{DLA}	<0.0020 ^{DLA}	0.203 ^{DLA}
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	0.00041	<0.00050 ^{DLA}	<0.00020 ^{DLA}	<0.0050 ^{DLA}
	Arsenic (As)-Dissolved (mg/L)	0.00128	0.00200	<0.00050 ^{DLA}	<0.00020 ^{DLA}	0.174 ^{DLA}
	Barium (Ba)-Dissolved (mg/L)	0.0474	0.0427 ^{DLA}	0.0221 ^{DLA}	0.0417 ^{DLA}	0.0090 ^{DLA}
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00020 ^{DLA}	<0.00050 ^{DLA}	<0.00020 ^{DLA}	<0.0050 ^{DLA}
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.0010 ^{DLA}	<0.0025 ^{DLA}	<0.0010 ^{DLA}	<0.025 ^{DLA}
	Boron (B)-Dissolved (mg/L)	0.021	<0.020 ^{DLA}	<0.050 ^{DLA}	<0.020 ^{DLA}	<0.50 ^{DLA}
	Cadmium (Cd)-Dissolved (mg/L)	0.000021	0.000073	0.000497	0.000917	<0.00050 ^{DLA}
	Calcium (Ca)-Dissolved (mg/L)	193	395	781 ^{DLA}	287 ^{DLA}	400 ^{DLA}
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	0.00020	<0.00050 ^{DLA}	<0.00020 ^{DLA}	<0.0050 ^{DLA}
	Cobalt (Co)-Dissolved (mg/L)	0.00177	0.00125	0.00155	0.00184	0.709 ^{DLA}
	Copper (Cu)-Dissolved (mg/L)	<0.00020	0.00093 ^{DLA}	0.0022 ^{DLA}	0.00053 ^{DLA}	<0.010 ^{DLA}
	Iron (Fe)-Dissolved (mg/L)	1.09	<0.020 ^{DLA}	<0.050 ^{DLA}	<0.020 ^{DLA}	1690 ^{DLA}
	Lead (Pb)-Dissolved (mg/L)	<0.000050	0.00019	0.00057	<0.00010 ^{DLA}	<0.0025 ^{DLA}
	Lithium (Li)-Dissolved (mg/L)	0.0272	0.0068	0.0104	0.0123	0.082
	Magnesium (Mg)-Dissolved (mg/L)	198	222	84.7	60.9	525
	Manganese (Mn)-Dissolved (mg/L)	0.0507	0.0184	0.0232	7.13	63.1 ^{DLA}
	Molybdenum (Mo)-Dissolved (mg/L)	0.00143	0.00038	0.00041	0.00091	<0.0025 ^{DLA}
	Nickel (Ni)-Dissolved (mg/L)	0.00424	0.0230 ^{DLA}	0.0146 ^{DLA}	0.0096 ^{DLA}	0.635 ^{DLA}
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.60	<1.5	<0.60	<15 ^{DLA}
	Potassium (K)-Dissolved (mg/L)	4.26	1.79	14.1 ^{DLA}	6.06 ^{DLA}	7.7 ^{DLA}
	Selenium (Se)-Dissolved (mg/L)	<0.00010	0.00097	<0.00050 ^{DLA}	<0.00020 ^{DLA}	<0.0050 ^{DLA}
	Silicon (Si)-Dissolved (mg/L)	6.66	6.04 ^{DLA}	9.43 ^{DLA}	7.48 ^{DLA}	10.0 ^{DLA}
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000020 ^{DLA}	<0.000050 ^{DLA}	<0.000020 ^{DLA}	<0.00050 ^{DLA}
	Sodium (Na)-Dissolved (mg/L)	7.69	11.6	137	18.8	39.9
	Strontium (Sr)-Dissolved (mg/L)	1.51	1.14 ^{DLA}	1.63 ^{DLA}	0.912 ^{DLA}	3.35 ^{DLA}
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000020 ^{DLA}	<0.000050 ^{DLA}	<0.000020 ^{DLA}	<0.00050 ^{DLA}
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00020 ^{DLA}	<0.00050 ^{DLA}	<0.00020 ^{DLA}	<0.0050 ^{DLA}
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.020 ^{DLA}	<0.050 ^{DLA}	<0.020 ^{DLA}	<0.50 ^{DLA}
	Uranium (U)-Dissolved (mg/L)	0.0192	0.0236 ^{DLA}	0.0393 ^{DLA}	0.00788 ^{DLA}	0.00409 ^{DLA}
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0020	<0.0050	<0.0020	<0.050
	Zinc (Zn)-Dissolved (mg/L)	0.0019	0.0051	0.552	0.0047	401

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1310290-16	L1310290-17	L1310290-18	L1310290-19	L1310290-20
		Description	Water	Water	Water	Water	Water
		Sampled Date	29-MAY-13	28-MAY-13	29-MAY-13	28-MAY-13	28-MAY-13
		Sampled Time	15:46	14:38	11:57	18:17	17:55
		Client ID	SRK05-8	S2A	P01-01B	P01-03	X25-96A
Grouping	Analyte						
WATER							
Total Metals	Uranium (U)-Total (mg/L)		0.0271	0.00389	0.00946	0.00675	0.0115
	Vanadium (V)-Total (mg/L)		0.0117	0.0154	<0.0010	0.058	<0.0020 ^{DLA}
	Zinc (Zn)-Total (mg/L)		0.0231	4.57	0.0047	0.307	0.0072 ^{DLA}
	Zirconium (Zr)-Total (mg/L)		<0.0016 ^{DLA}	0.00092	0.00095	0.0088	<0.0016 ^{DLA}
Dissolved Metals	Dissolved Metals Filtration Location		FIELD ^{DLA}	FIELD	FIELD	FIELD ^{DLA}	FIELD ^{DLA}
	Aluminum (Al)-Dissolved (mg/L)		<0.0020 ^{DLA}	0.0151	<0.0010	<0.010 ^{DLA}	<0.0020 ^{DLA}
	Antimony (Sb)-Dissolved (mg/L)		<0.00020 ^{DLA}	<0.00010	<0.00010	<0.0010 ^{DLA}	<0.00020 ^{DLA}
	Arsenic (As)-Dissolved (mg/L)		0.00025	0.00019	0.00222	<0.0010 ^{DLA}	<0.00020 ^{DLA}
	Barium (Ba)-Dissolved (mg/L)		0.0117	0.0222	0.0491	0.0129	0.0570 ^{DLA}
	Beryllium (Be)-Dissolved (mg/L)		<0.00020 ^{DLA}	<0.00010	<0.00010	<0.0010 ^{DLA}	<0.00020 ^{DLA}
	Bismuth (Bi)-Dissolved (mg/L)		<0.0010 ^{DLA}	<0.00050	<0.00050	<0.0050 ^{DLA}	<0.0010 ^{DLA}
	Boron (B)-Dissolved (mg/L)		<0.020 ^{DLA}	<0.010	<0.010	<0.10 ^{DLA}	<0.020 ^{DLA}
	Cadmium (Cd)-Dissolved (mg/L)		0.000033	0.000658	<0.000010	0.00184	0.000130
	Calcium (Ca)-Dissolved (mg/L)		383	215	229	699	253 ^{DLA}
	Chromium (Cr)-Dissolved (mg/L)		0.00038	<0.00010	<0.00010	<0.0010 ^{DLA}	<0.00020 ^{DLA}
	Cobalt (Co)-Dissolved (mg/L)		<0.00020 ^{DLA}	0.0169	0.00015	0.185 ^{DLA}	0.00609
	Copper (Cu)-Dissolved (mg/L)		0.00252 ^{DLA}	0.00063	<0.00020	<0.0020 ^{DLA}	0.00057
	Iron (Fe)-Dissolved (mg/L)		<0.020 ^{DLA}	19.8	0.721	120 ^{DLA}	0.129 ^{DLA}
	Lead (Pb)-Dissolved (mg/L)		<0.00010 ^{DLA}	0.000108	<0.000050	<0.00050 ^{DLA}	<0.00010 ^{DLA}
	Lithium (Li)-Dissolved (mg/L)		0.0173	0.0525	0.0112	0.0263	0.0044
	Magnesium (Mg)-Dissolved (mg/L)		201	89.9	44.2	167	54.1
	Manganese (Mn)-Dissolved (mg/L)		<0.00010 ^{DLA}	4.23	0.110	87.6	13.0
	Molybdenum (Mo)-Dissolved (mg/L)		0.00045	0.000081	0.000907	0.00066	0.00139
	Nickel (Ni)-Dissolved (mg/L)		0.0014	0.0352	<0.00050	0.0544 ^{DLA}	0.0049 ^{DLA}
	Phosphorus (P)-Dissolved (mg/L)		<0.60 ^{DLA}	<0.30	<0.30	<3.0 ^{DLA}	<0.60 ^{DLA}
	Potassium (K)-Dissolved (mg/L)		1.77	5.54	4.09	7.42 ^{DLA}	4.76 ^{DLA}
	Selenium (Se)-Dissolved (mg/L)		0.00030	<0.00010	<0.00010	<0.0010 ^{DLA}	<0.00020 ^{DLA}
	Silicon (Si)-Dissolved (mg/L)		6.42	14.7	5.61	10.9 ^{DLA}	7.95 ^{DLA}
	Silver (Ag)-Dissolved (mg/L)		<0.000020 ^{DLA}	<0.000010	<0.000010	<0.00010 ^{DLA}	<0.000020 ^{DLA}
	Sodium (Na)-Dissolved (mg/L)		10.0	10.4	23.3	31.1	20.2
	Strontium (Sr)-Dissolved (mg/L)		1.45	0.775	0.833	2.15 ^{DLA}	0.709 ^{DLA}
	Thallium (Tl)-Dissolved (mg/L)		<0.000020 ^{DLA}	<0.000010	<0.000010	<0.00010 ^{DLA}	<0.000020 ^{DLA}
	Tin (Sn)-Dissolved (mg/L)		<0.00020 ^{DLA}	<0.00010	<0.00010	<0.0010 ^{DLA}	<0.00020 ^{DLA}
	Titanium (Ti)-Dissolved (mg/L)		<0.020 ^{DLA}	<0.010	<0.010	<0.10 ^{DLA}	<0.020 ^{DLA}
	Uranium (U)-Dissolved (mg/L)		0.0265	0.00315	0.00920	0.00506	0.0113 ^{DLA}
	Vanadium (V)-Dissolved (mg/L)		<0.0020 ^{DLA}	<0.0010	<0.0010	<0.010 ^{DLA}	<0.0020 ^{DLA}
	Zinc (Zn)-Dissolved (mg/L)		0.0031	4.56	<0.0010	0.102	0.0059

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1310290-21	L1310290-22	L1310290-23	L1310290-24	L1310290-25
		Description	Water	Water	Water	Water	Water
		Sampled Date	31-MAY-13	28-MAY-13	28-MAY-13	28-MAY-13	30-MAY-13
		Sampled Time	11:00	14:43	12:37	15:22	14:50
		Client ID	TRAVEL BLANK	SRK08-SP7A	SRK05-SP-4A	S1A	V36
Grouping	Analyte						
WATER							
Total Metals	Uranium (U)-Total (mg/L)		<0.000010	0.000324	0.00128	0.000451	0.0646
	Vanadium (V)-Total (mg/L)		<0.0010	<0.0010	<0.0020 ^{DLA}	0.0032	0.0037
	Zinc (Zn)-Total (mg/L)		<0.0030	0.399	20.7	2.03	0.108
	Zirconium (Zr)-Total (mg/L)		<0.00080	<0.00080	<0.0016 ^{DLA}	<0.00080	<0.0016 ^{DLA}
Dissolved Metals	Dissolved Metals Filtration Location			FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)			0.0071	0.0229	0.0042	<0.0020 ^{DLA}
	Antimony (Sb)-Dissolved (mg/L)			<0.00010	<0.00020 ^{DLA}	<0.00010	<0.00020 ^{DLA}
	Arsenic (As)-Dissolved (mg/L)			0.00447	0.00045	<0.00010	0.00212
	Barium (Ba)-Dissolved (mg/L)			0.0127	0.0109	0.0434	0.00653 ^{DLA}
	Beryllium (Be)-Dissolved (mg/L)			0.00027	0.00078	<0.00010	<0.00020 ^{DLA}
	Bismuth (Bi)-Dissolved (mg/L)			<0.00050	<0.0010 ^{DLA}	<0.00050	<0.0010 ^{DLA}
	Boron (B)-Dissolved (mg/L)			<0.010	<0.020 ^{DLA}	<0.010	<0.020 ^{DLA}
	Cadmium (Cd)-Dissolved (mg/L)			0.000027	0.00631	0.000510	0.000282
	Calcium (Ca)-Dissolved (mg/L)			108	117	30.5	421 ^{DLA}
	Chromium (Cr)-Dissolved (mg/L)			<0.00010	<0.00020 ^{DLA}	<0.00010	<0.00020 ^{DLA}
	Cobalt (Co)-Dissolved (mg/L)			0.00531	0.0510	0.00236	0.00228 ^{DLA}
	Copper (Cu)-Dissolved (mg/L)			<0.00020	<0.00040 ^{DLA}	0.00031	<0.00040 ^{DLA}
	Iron (Fe)-Dissolved (mg/L)			13.9	15.5	1.56	<0.020 ^{DLA}
	Lead (Pb)-Dissolved (mg/L)			<0.000050	<0.00010 ^{DLA}	<0.000050	0.00173
	Lithium (Li)-Dissolved (mg/L)			0.0389	0.0625	0.0309	0.0390
	Magnesium (Mg)-Dissolved (mg/L)			35.3	84.5	33.2	217
	Manganese (Mn)-Dissolved (mg/L)			1.10	5.45	3.33	0.164
	Molybdenum (Mo)-Dissolved (mg/L)			0.000093	0.00011	0.000066	0.00087
	Nickel (Ni)-Dissolved (mg/L)			0.0137	0.133	0.00825	0.0131 ^{DLA}
	Phosphorus (P)-Dissolved (mg/L)			<0.30	<0.60 ^{DLA}	<0.30	<0.60 ^{DLA}
	Potassium (K)-Dissolved (mg/L)			4.11	4.79	2.67	4.80
	Selenium (Se)-Dissolved (mg/L)			<0.00010	<0.00020 ^{DLA}	<0.00010	0.00034
	Silicon (Si)-Dissolved (mg/L)			12.6	14.8	8.61	6.54 ^{DLA}
	Silver (Ag)-Dissolved (mg/L)			<0.000010	<0.000020 ^{DLA}	<0.000010	<0.000020 ^{DLA}
	Sodium (Na)-Dissolved (mg/L)			7.73	10.4	3.89	8.07
	Strontium (Sr)-Dissolved (mg/L)			0.430	0.555	0.242	2.03
	Thallium (Tl)-Dissolved (mg/L)			<0.000010	<0.000020 ^{DLA}	<0.000010	0.000060 ^{DLA}
	Tin (Sn)-Dissolved (mg/L)			<0.00010	<0.00020 ^{DLA}	<0.00010	<0.00020 ^{DLA}
	Titanium (Ti)-Dissolved (mg/L)			<0.010	<0.020 ^{DLA}	<0.010	<0.020 ^{DLA}
	Uranium (U)-Dissolved (mg/L)			0.000303	0.00125	0.000295	0.0627 ^{DLA}
	Vanadium (V)-Dissolved (mg/L)			<0.0010	<0.0020 ^{DLA}	<0.0010	<0.0020 ^{DLA}
	Zinc (Zn)-Dissolved (mg/L)			0.407	20.9	2.08	0.0481

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1310290-26	L1310290-27	L1310290-28	L1310290-29	L1310290-30
		Description	Water	Water	Water	Water	Water
		Sampled Date	30-MAY-13	30-MAY-13	30-MAY-13	30-MAY-13	29-MAY-13
		Sampled Time	17:29	09:23	10:03	17:30	17:29
		Client ID	P09-S155	P09-VC1	XR-1E	V35	SRK05-5C
Grouping	Analyte						
WATER							
Total Metals	Uranium (U)-Total (mg/L)		0.0223	0.00653	0.00596	0.123	0.00856
	Vanadium (V)-Total (mg/L)		<0.010 ^{DLA}	0.0030	0.0023	<0.0020 ^{DLA}	0.278
	Zinc (Zn)-Total (mg/L)		57.3	0.138	0.120	0.0127	1.72
	Zirconium (Zr)-Total (mg/L)		<0.0080 ^{DLA}	0.00133	0.00093	0.0016	0.0130
Dissolved Metals	Dissolved Metals Filtration Location		FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)		<0.010 ^{DLA}	0.0016	0.0028	<0.0020 ^{DLA}	<0.0050 ^{DLA}
	Antimony (Sb)-Dissolved (mg/L)		<0.0010 ^{DLA}	<0.00010	<0.00010	0.00037	<0.00050 ^{DLA}
	Arsenic (As)-Dissolved (mg/L)		<0.0010 ^{DLA}	0.00164	0.00155	0.00066	0.00307
	Barium (Ba)-Dissolved (mg/L)		0.0239	0.0272	0.0245	0.0109	0.0551
	Beryllium (Be)-Dissolved (mg/L)		<0.0010 ^{DLA}	<0.00010	<0.00010	<0.00020 ^{DLA}	<0.00050 ^{DLA}
	Bismuth (Bi)-Dissolved (mg/L)		<0.0050 ^{DLA}	<0.00050	<0.00050	<0.0010 ^{DLA}	<0.0025 ^{DLA}
	Boron (B)-Dissolved (mg/L)		<0.10 ^{DLA}	<0.010	<0.010	<0.020 ^{DLA}	<0.050 ^{DLA}
	Cadmium (Cd)-Dissolved (mg/L)		0.00097	<0.000010	<0.000010	0.000244	<0.000050 ^{DLA}
	Calcium (Ca)-Dissolved (mg/L)		473	42.0	39.8	589	50.2
	Chromium (Cr)-Dissolved (mg/L)		<0.0010 ^{DLA}	<0.00010	<0.00010	<0.00020 ^{DLA}	<0.00050 ^{DLA}
	Cobalt (Co)-Dissolved (mg/L)		0.0775	<0.00010	<0.00010	<0.00020 ^{DLA}	<0.00050 ^{DLA}
	Copper (Cu)-Dissolved (mg/L)		<0.0020 ^{DLA}	<0.00020	<0.00020	0.00080	<0.0010 ^{DLA}
	Iron (Fe)-Dissolved (mg/L)		9.46	0.350	0.332	<0.020 ^{DLA}	<0.050 ^{DLA}
	Lead (Pb)-Dissolved (mg/L)		<0.00050 ^{DLA}	<0.000050	0.000139	0.00011	0.00054
	Lithium (Li)-Dissolved (mg/L)		0.0683	0.00291	0.00273	0.0282	0.0066
	Magnesium (Mg)-Dissolved (mg/L)		834	8.41	7.52	312	12.3
	Manganese (Mn)-Dissolved (mg/L)		69.4	0.0144	0.0136	0.0202	0.294
	Molybdenum (Mo)-Dissolved (mg/L)		0.00204	0.000358	0.000348	0.00151	0.0211
	Nickel (Ni)-Dissolved (mg/L)		0.528	<0.00050	<0.00050	0.0080	<0.0025 ^{DLA}
	Phosphorus (P)-Dissolved (mg/L)		<3.0 ^{DLA}	<0.30	<0.30	<0.60 ^{DLA}	<1.5 ^{DLA}
	Potassium (K)-Dissolved (mg/L)		9.14	1.05	0.924	5.09	1.48
	Selenium (Se)-Dissolved (mg/L)		<0.0010 ^{DLA}	<0.00010	<0.00010	0.00029	<0.00050 ^{DLA}
	Silicon (Si)-Dissolved (mg/L)		9.96	5.85	5.82	6.79	4.50
	Silver (Ag)-Dissolved (mg/L)		<0.00010 ^{DLA}	<0.000010	<0.000010	<0.000020 ^{DLA}	<0.000050 ^{DLA}
	Sodium (Na)-Dissolved (mg/L)		62.4	21.0	19.0	10.2	17.7
	Strontium (Sr)-Dissolved (mg/L)		2.11	0.552	0.561	1.64	0.555
	Thallium (Tl)-Dissolved (mg/L)		<0.00010 ^{DLA}	<0.000010	<0.000010	0.000032	<0.000050 ^{DLA}
	Tin (Sn)-Dissolved (mg/L)		<0.0010 ^{DLA}	<0.00010	<0.00010	0.00230	<0.00050 ^{DLA}
	Titanium (Ti)-Dissolved (mg/L)		<0.10 ^{DLA}	<0.010	<0.010	<0.020 ^{DLA}	<0.050 ^{DLA}
	Uranium (U)-Dissolved (mg/L)		0.0217	0.00534	0.00536	0.135	0.00161
	Vanadium (V)-Dissolved (mg/L)		<0.010 ^{DLA}	<0.0010	<0.0010	<0.0020 ^{DLA}	<0.0050 ^{DLA}
	Zinc (Zn)-Dissolved (mg/L)		61.4	0.0016	0.0019	0.0076	0.0061

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1310290-31	L1310290-32	L1310290-33	L1310290-34	L1310290-35
		Description	Water	Water	Water	Water	Water
		Sampled Date	30-MAY-13	29-MAY-13	30-MAY-13	29-MAY-13	30-MAY-13
		Sampled Time	15:30	09:43	08:31	11:22	08:30
		Client ID	BH14A	X25-96B	XR-ID	X24-96D	SRK08-11A
Grouping	Analyte						
WATER							
Total Metals	Uranium (U)-Total (mg/L)		0.124	0.00950	0.00200	0.00412	0.00197
	Vanadium (V)-Total (mg/L)		<0.0020 ^{DLA}	<0.0010	<0.0010	<0.010 ^{DLA}	<0.0010
	Zinc (Zn)-Total (mg/L)		19.4	<0.0030	0.0033	0.175 ^{DLA}	<0.0030
	Zirconium (Zr)-Total (mg/L)		<0.0016 ^{DLA}	<0.00080	<0.00080	<0.0080	<0.00080
Dissolved Metals	Dissolved Metals Filtration Location		FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)		0.0058	0.0010	<0.0010	<0.010 ^{DLA}	<0.0010
	Antimony (Sb)-Dissolved (mg/L)		<0.00020 ^{DLA}	<0.00010	<0.00010	<0.0010 ^{DLA}	<0.00010
	Arsenic (As)-Dissolved (mg/L)		<0.00020 ^{DLA}	0.00061	0.00013	<0.0010 ^{DLA}	0.00014
	Barium (Ba)-Dissolved (mg/L)		0.0143	0.0289	0.0806	0.0215	0.0830
	Beryllium (Be)-Dissolved (mg/L)		<0.00020 ^{DLA}	<0.00010	<0.00010	<0.0010 ^{DLA}	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)		<0.0010 ^{DLA}	<0.00050	<0.00050	<0.0050 ^{DLA}	<0.00050
	Boron (B)-Dissolved (mg/L)		<0.020 ^{DLA}	<0.010	<0.010	<0.10 ^{DLA}	<0.010
	Cadmium (Cd)-Dissolved (mg/L)		0.00310	0.000029	<0.000010	0.00390	<0.000010
	Calcium (Ca)-Dissolved (mg/L)		567	268	133	716	132
	Chromium (Cr)-Dissolved (mg/L)		<0.00020 ^{DLA}	<0.00010	<0.00010	<0.0010 ^{DLA}	<0.00010
	Cobalt (Co)-Dissolved (mg/L)		0.00042	0.00020	<0.00010	0.321	<0.00010
	Copper (Cu)-Dissolved (mg/L)		0.00327	<0.00020	0.00101	0.0027	0.00104
	Iron (Fe)-Dissolved (mg/L)		0.026	1.22	<0.010	<0.10 ^{DLA}	<0.010
	Lead (Pb)-Dissolved (mg/L)		0.00250	<0.000050	<0.000050	<0.00050 ^{DLA}	<0.000050
	Lithium (Li)-Dissolved (mg/L)		0.0655	0.00898	0.0103	0.0279	0.0104
	Magnesium (Mg)-Dissolved (mg/L)		307	35.2	23.2	171	26.4
	Manganese (Mn)-Dissolved (mg/L)		0.0140	0.257	0.000174	106	0.000383
	Molybdenum (Mo)-Dissolved (mg/L)		0.00032	0.000369	0.000217	0.00063	0.000232
	Nickel (Ni)-Dissolved (mg/L)		0.186	0.00084	0.00128	0.428	0.00124
	Phosphorus (P)-Dissolved (mg/L)		<0.60 ^{DLA}	<0.30	<0.30	<3.0 ^{DLA}	<0.30
	Potassium (K)-Dissolved (mg/L)		3.69	3.61	3.05	7.79	3.50
	Selenium (Se)-Dissolved (mg/L)		0.00042	<0.00010	0.00027	<0.0010 ^{DLA}	0.00030
	Silicon (Si)-Dissolved (mg/L)		9.22	5.25	6.51	10.2	6.52
	Silver (Ag)-Dissolved (mg/L)		0.000027	<0.000010	<0.000010	<0.00010 ^{DLA}	<0.000010
	Sodium (Na)-Dissolved (mg/L)		18.4	45.4	6.12	36.0	6.59
	Strontium (Sr)-Dissolved (mg/L)		2.95	0.613	0.558	2.15	0.551
	Thallium (Tl)-Dissolved (mg/L)		<0.000020 ^{DLA}	<0.000010	<0.000010	0.00019	<0.000010
	Tin (Sn)-Dissolved (mg/L)		<0.00020 ^{DLA}	<0.00010	<0.00010	<0.0010 ^{DLA}	<0.00010
	Titanium (Ti)-Dissolved (mg/L)		<0.020 ^{DLA}	<0.010	<0.010	<0.10 ^{DLA}	<0.010
	Uranium (U)-Dissolved (mg/L)		0.125	0.00923	0.00194	0.00377	0.00196
	Vanadium (V)-Dissolved (mg/L)		<0.0020 ^{DLA}	<0.0010	<0.0010	<0.010 ^{DLA}	<0.0010
	Zinc (Zn)-Dissolved (mg/L)		19.3	<0.0010	0.0016	0.159	0.0023

* 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	L1310290-36 Water 30-MAY-13 09:13 SRK08-11B	L1310290-37 Water 28-MAY-13 12:15 P09-SIS2	L1310290-38 Water 29-MAY-13 10:15 XR-IC	L1310290-39 Water 29-MAY-13 22:12 P09-C2	L1310290-40 Water 28-MAY-13 16:05 S2B	
Grouping	Analyte					
WATER						
Total Metals	Uranium (U)-Total (mg/L)	0.00142	0.0064	0.000650	0.000653	<0.0010 ^{DLA}
	Vanadium (V)-Total (mg/L)	<0.0010	<0.10 ^{DLA}	<0.0010	<0.0020 ^{DLA}	<0.10 ^{DLA}
	Zinc (Zn)-Total (mg/L)	0.0777	595	0.0035	<0.0060 ^{DLA}	511 ^{DLA}
	Zirconium (Zr)-Total (mg/L)	<0.00080	<0.080 ^{DLA}	0.0877	0.0942	<0.080 ^{DLA}
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0014	<0.10 ^{DLA}	0.0136	0.0152	<0.10 ^{DLA}
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.010 ^{DLA}	<0.00010	<0.00020 ^{DLA}	<0.010 ^{DLA}
	Arsenic (As)-Dissolved (mg/L)	0.00010	<0.010 ^{DLA}	<0.00010	<0.00020 ^{DLA}	<0.010 ^{DLA}
	Barium (Ba)-Dissolved (mg/L)	0.0418	0.0175	0.681	0.739	0.0204 ^{DLA}
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.010 ^{DLA}	0.00253	0.00245	<0.010 ^{DLA}
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.050 ^{DLA}	<0.00050	<0.0010 ^{DLA}	<0.050 ^{DLA}
	Boron (B)-Dissolved (mg/L)	<0.010	<1.0 ^{DLA}	0.092	0.089	<1.0 ^{DLA}
	Cadmium (Cd)-Dissolved (mg/L)	0.000277	0.326	<0.000010	<0.000020 ^{DLA}	0.0741
	Calcium (Ca)-Dissolved (mg/L)	134	418	222	216	476 ^{DLA}
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	<0.010 ^{DLA}	0.00017	0.00021	<0.010 ^{DLA}
	Cobalt (Co)-Dissolved (mg/L)	<0.00010	1.68	<0.00010	<0.00020 ^{DLA}	1.03 ^{DLA}
	Copper (Cu)-Dissolved (mg/L)	0.00118	<0.020 ^{DLA}	<0.00020	<0.00040 ^{DLA}	<0.020 ^{DLA}
	Iron (Fe)-Dissolved (mg/L)	<0.010	2.5 ^{DLA}	3.09	3.03	7.9 ^{DLA}
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.0050 ^{DLA}	<0.000050	<0.00010 ^{DLA}	<0.0050 ^{DLA}
	Lithium (Li)-Dissolved (mg/L)	0.00966	0.158	0.869	0.863	0.139
	Magnesium (Mg)-Dissolved (mg/L)	34.6	1410	98.7	102	1360
	Manganese (Mn)-Dissolved (mg/L)	0.122	152	0.145	0.150	137 ^{DLA}
	Molybdenum (Mo)-Dissolved (mg/L)	0.000102	<0.0050 ^{DLA}	0.000068	<0.00010 ^{DLA}	<0.0050 ^{DLA}
	Nickel (Ni)-Dissolved (mg/L)	0.00752	3.59 ^{DLA}	<0.00050	<0.0010 ^{DLA}	2.47 ^{DLA}
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<30 ^{DLA}	<0.30	<0.60 ^{DLA}	<30 ^{DLA}
	Potassium (K)-Dissolved (mg/L)	2.90	13.2 ^{DLA}	11.6	11.8	12.2 ^{DLA}
	Selenium (Se)-Dissolved (mg/L)	0.00016	<0.010 ^{DLA}	<0.00010	<0.00020 ^{DLA}	<0.010 ^{DLA}
	Silicon (Si)-Dissolved (mg/L)	6.77	11.4	11.0	11.0	10.8 ^{DLA}
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.0010 ^{DLA}	0.000234	0.000206	<0.0010 ^{DLA}
	Sodium (Na)-Dissolved (mg/L)	7.17	47.6	280	289	42.3
	Strontium (Sr)-Dissolved (mg/L)	0.543	2.00	4.57	4.43	2.06 ^{DLA}
	Thallium (Tl)-Dissolved (mg/L)	0.000022	<0.0010 ^{DLA}	<0.000010	<0.000020 ^{DLA}	<0.0010 ^{DLA}
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.010 ^{DLA}	<0.00010	<0.00020 ^{DLA}	<0.010 ^{DLA}
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<1.0 ^{DLA}	<0.010	<0.020 ^{DLA}	<1.0 ^{DLA}
	Uranium (U)-Dissolved (mg/L)	0.00140	0.0034	0.000462	0.000458	<0.0010 ^{DLA}
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.10 ^{DLA}	<0.0010	<0.0020 ^{DLA}	<0.10 ^{DLA}
	Zinc (Zn)-Dissolved (mg/L)	0.0658	622	<0.0010	<0.0020 ^{DLA}	484

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1310290-41	L1310290-42	L1310290-43	L1310290-44	L1310290-45
		Description	Water	Water	Water	Water	Water
		Sampled Date	28-MAY-13	28-MAY-13	29-MAY-13	29-MAY-13	29-MAY-13
		Sampled Time	13:47	11:07	13:35	10:10	12:25
		Client ID	SRK08-SP7B	P09-SIS1	96-7	XR-1A	XR-1F
Grouping	Analyte						
WATER							
Total Metals	Uranium (U)-Total (mg/L)		0.000094	0.00698	0.0324	0.00973	0.00785
	Vanadium (V)-Total (mg/L)		<0.0010	<0.050 ^{DLA}	0.0335	<0.0010	<0.0010
	Zinc (Zn)-Total (mg/L)		2.58	235	0.144	<0.0030	0.0041
	Zirconium (Zr)-Total (mg/L)		<0.00080	<0.040 ^{DLA}	0.0082	<0.00080	<0.00080
Dissolved Metals	Dissolved Metals Filtration Location		FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)		0.0092	<0.050 ^{DLA}	<0.0020 ^{DLA}	<0.0010	<0.0010
	Antimony (Sb)-Dissolved (mg/L)		<0.00010	<0.0050 ^{DLA}	<0.00020 ^{DLA}	<0.00010	<0.00010
	Arsenic (As)-Dissolved (mg/L)		0.00145	<0.0050 ^{DLA}	<0.00020 ^{DLA}	0.00061	0.00016
	Barium (Ba)-Dissolved (mg/L)		0.0757	0.0224 ^{DLA}	0.00826 ^{DLA}	0.0291	0.0377
	Beryllium (Be)-Dissolved (mg/L)		<0.00010	<0.0050 ^{DLA}	<0.00020 ^{DLA}	<0.00010	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)		<0.00050	<0.025 ^{DLA}	<0.0010 ^{DLA}	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)		<0.010	<0.50 ^{DLA}	<0.020 ^{DLA}	<0.010	<0.010
	Cadmium (Cd)-Dissolved (mg/L)		0.000018	0.0981	<0.000020 ^{DLA}	0.000027	0.000872
	Calcium (Ca)-Dissolved (mg/L)		15.5	464 ^{DLA}	566 ^{DLA}	257	273
	Chromium (Cr)-Dissolved (mg/L)		<0.00010	<0.0050 ^{DLA}	<0.00020 ^{DLA}	<0.00010	<0.00010
	Cobalt (Co)-Dissolved (mg/L)		0.00108	0.564 ^{DLA}	<0.00020 ^{DLA}	0.00021	0.00175
	Copper (Cu)-Dissolved (mg/L)		0.00034	<0.010 ^{DLA}	0.00052 ^{DLA}	<0.00020	0.00034
	Iron (Fe)-Dissolved (mg/L)		2.85	5.16 ^{DLA}	<0.020 ^{DLA}	1.19	<0.010
	Lead (Pb)-Dissolved (mg/L)		<0.000050	<0.0025 ^{DLA}	<0.00010 ^{DLA}	<0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)		0.0151	0.092	0.0391	0.00894	0.0117
	Magnesium (Mg)-Dissolved (mg/L)		23.5	1040	173	39.7	59.5
	Manganese (Mn)-Dissolved (mg/L)		1.45	64.2 ^{DLA}	0.00089	0.280	6.90
	Molybdenum (Mo)-Dissolved (mg/L)		0.000222	<0.0025 ^{DLA}	0.00068	0.000343	0.000824
	Nickel (Ni)-Dissolved (mg/L)		0.00961	1.41 ^{DLA}	0.0014 ^{DLA}	0.00078	0.00908
	Phosphorus (P)-Dissolved (mg/L)		<0.30	<15 ^{DLA}	<0.60 ^{DLA}	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)		1.82	9.9 ^{DLA}	5.88	3.78	5.88
	Selenium (Se)-Dissolved (mg/L)		<0.00010	<0.0050 ^{DLA}	0.00097	<0.00010	<0.00010
	Silicon (Si)-Dissolved (mg/L)		6.55	9.6 ^{DLA}	5.24 ^{DLA}	5.54	7.06
	Silver (Ag)-Dissolved (mg/L)		<0.000010	<0.00050 ^{DLA}	<0.000020 ^{DLA}	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)		3.02	40.8	17.1	46.0	17.5
	Strontium (Sr)-Dissolved (mg/L)		0.143	1.85 ^{DLA}	0.780 ^{DLA}	0.576	0.858
	Thallium (Tl)-Dissolved (mg/L)		<0.000010	<0.00050 ^{DLA}	<0.000020 ^{DLA}	<0.000010	0.000012
	Tin (Sn)-Dissolved (mg/L)		<0.00010	<0.0050 ^{DLA}	<0.00020 ^{DLA}	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)		<0.010	<0.50 ^{DLA}	<0.020 ^{DLA}	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)		0.000082	0.00683 ^{DLA}	0.0316 ^{DLA}	0.00909	0.00777
	Vanadium (V)-Dissolved (mg/L)		<0.0010	<0.050 ^{DLA}	<0.0020 ^{DLA}	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)		2.68	250	<0.0020 ^{DLA}	<0.0010	0.0025

* 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	L1310290-46 Water 29-MAY-13 15:49 XR-1B	L1310290-47 Water 29-MAY-13 16:35 P96-9A			
Grouping	Analyte				
WATER					
Total Metals	Uranium (U)-Total (mg/L)	0.0258	0.0343		
	Vanadium (V)-Total (mg/L)	0.0059	<0.0010		
	Zinc (Zn)-Total (mg/L)	0.0143	0.0347		
	Zirconium (Zr)-Total (mg/L)	<0.0016 ^{DLA}	<0.00080		
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD		
	Aluminum (Al)-Dissolved (mg/L)	<0.0020 ^{DLA}	0.0038		
	Antimony (Sb)-Dissolved (mg/L)	<0.00020 ^{DLA}	0.00012		
	Arsenic (As)-Dissolved (mg/L)	0.00026	0.00032		
	Barium (Ba)-Dissolved (mg/L)	0.0116	0.0353		
	Beryllium (Be)-Dissolved (mg/L)	<0.00020 ^{DLA}	<0.00010		
	Bismuth (Bi)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.00050		
	Boron (B)-Dissolved (mg/L)	<0.020 ^{DLA}	<0.010		
	Cadmium (Cd)-Dissolved (mg/L)	0.000044	0.000386		
	Calcium (Ca)-Dissolved (mg/L)	358	267		
	Chromium (Cr)-Dissolved (mg/L)	0.00045	0.00024		
	Cobalt (Co)-Dissolved (mg/L)	0.00065	0.00024		
	Copper (Cu)-Dissolved (mg/L)	0.00209	0.00220		
	Iron (Fe)-Dissolved (mg/L)	<0.020 ^{DLA}	<0.010		
	Lead (Pb)-Dissolved (mg/L)	<0.00010 ^{DLA}	0.000072		
	Lithium (Li)-Dissolved (mg/L)	0.0172	0.0100		
	Magnesium (Mg)-Dissolved (mg/L)	195	240		
	Manganese (Mn)-Dissolved (mg/L)	0.00011	0.0666		
	Molybdenum (Mo)-Dissolved (mg/L)	0.00049	0.000548		
	Nickel (Ni)-Dissolved (mg/L)	0.0019	0.00750		
	Phosphorus (P)-Dissolved (mg/L)	<0.60 ^{DLA}	<0.30		
	Potassium (K)-Dissolved (mg/L)	1.88	4.16		
	Selenium (Se)-Dissolved (mg/L)	0.00036	0.00043		
	Silicon (Si)-Dissolved (mg/L)	6.29	5.23		
	Silver (Ag)-Dissolved (mg/L)	<0.000020 ^{DLA}	<0.000010		
	Sodium (Na)-Dissolved (mg/L)	10.5	11.2		
	Strontium (Sr)-Dissolved (mg/L)	1.49	0.923		
	Thallium (Tl)-Dissolved (mg/L)	<0.000020 ^{DLA}	<0.000010		
	Tin (Sn)-Dissolved (mg/L)	<0.00020 ^{DLA}	<0.00010		
	Titanium (Ti)-Dissolved (mg/L)	<0.020 ^{DLA}	<0.010		
	Uranium (U)-Dissolved (mg/L)	0.0265	0.0320		
	Vanadium (V)-Dissolved (mg/L)	<0.0020 ^{DLA}	<0.0010		
	Zinc (Zn)-Dissolved (mg/L)	<0.0020 ^{DLA}	0.0319		

* 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	L1310290-1	L1310290-2	L1310290-3	L1310290-4	L1310290-5
					Water 31-MAY-13 08:58 P96-8A	Water 31-MAY-13 12:36 XR1H	Water 31-MAY-13 10:27 SPK05-SP-5	Water 31-MAY-13 12:32 P01-4B	Water 31-MAY-13 13:30 P01-4A
Grouping	Analyte								
WATER									
Dissolved Metals	Zirconium (Zr)-Dissolved (mg/L)	<0.080 ^{DLA}	<0.080 ^{DLA}	<0.040 ^{DLA}	<0.0016 ^{DLA}	0.0531			

* 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	L1310290-6	L1310290-7	L1310290-8	L1310290-9	L1310290-10
					Water 31-MAY-13 09:30 P96-8B	Water 29-MAY-13 10:55 P01-11	Water 30-MAY-13 18:03 V37	Water 30-MAY-13 12:14 P2001-2B	Water 30-MAY-13 14:03 P2001-3
Grouping	Analyte								
WATER									
Dissolved Metals	Zirconium (Zr)-Dissolved (mg/L)	<0.080 ^{DLA}	<0.0040 ^{DLA}	<0.00080	<0.00080	<0.0040 ^{DLA}			

* 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	L1310290-11	L1310290-12	L1310290-13	L1310290-14	L1310290-15
					Water 30-MAY-13 17:04 V34	Water 31-MAY-13 23:00 SRK05-7	Water 30-MAY-13 10:49 SRK08-10A	Water 29-MAY-13 12:23 P01-01A	Water 30-MAY-13 11:55 P09-ETA2
Grouping	Analyte								
WATER									
Dissolved Metals	Zirconium (Zr)-Dissolved (mg/L)	0.00136	<0.0016 ^{DLA}	<0.0040 ^{DLA}	<0.0016 ^{DLA}	<0.040 ^{DLA}			

* 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	L1310290-16 Water 29-MAY-13 15:46 SRK05-8	L1310290-17 Water 28-MAY-13 14:38 S2A	L1310290-18 Water 29-MAY-13 11:57 P01-01B	L1310290-19 Water 28-MAY-13 18:17 P01-03	L1310290-20 Water 28-MAY-13 17:55 X25-96A	
Grouping	Analyte					
WATER						
Dissolved Metals	Zirconium (Zr)-Dissolved (mg/L)	<0.0016 ^{DLA}	<0.00080	0.00089	<0.0080 ^{DLA}	<0.0016 ^{DLA}

* 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	L1310290-21	L1310290-22	L1310290-23	L1310290-24	L1310290-25
					Water 31-MAY-13 11:00 TRAVEL BLANK	Water 28-MAY-13 14:43 SRK08-SP7A	Water 28-MAY-13 12:37 SRK05-SP-4A	Water 28-MAY-13 15:22 S1A	Water 30-MAY-13 14:50 V36
Grouping	Analyte								
WATER									
Dissolved Metals	Zirconium (Zr)-Dissolved (mg/L)		<0.00080	<0.0016 ^{DLA}	<0.00080	<0.0016 ^{DLA}			

* 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	L1310290-26 Water 30-MAY-13 17:29 P09-S155	L1310290-27 Water 30-MAY-13 09:23 P09-VC1	L1310290-28 Water 30-MAY-13 10:03 XR-1E	L1310290-29 Water 30-MAY-13 17:30 V35	L1310290-30 Water 29-MAY-13 17:29 SRK05-5C	
Grouping	Analyte					
WATER						
Dissolved Metals	Zirconium (Zr)-Dissolved (mg/L)	<0.0080 ^{DLA}	<0.00080	<0.00080	<0.0016 ^{DLA}	<0.0040 ^{DLA}

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1310290-31	Sample ID	L1310290-32	Sample ID	L1310290-33	Sample ID	L1310290-34	Sample ID	L1310290-35
Description	Water	Description	Water	Description	Water	Description	Water	Description	Water	
Sampled Date	30-MAY-13	Sampled Date	29-MAY-13	Sampled Date	30-MAY-13	Sampled Date	29-MAY-13	Sampled Date	30-MAY-13	
Sampled Time	15:30	Sampled Time	09:43	Sampled Time	08:31	Sampled Time	11:22	Sampled Time	08:30	
Client ID	BH14A	Client ID	X25-96B	Client ID	XR-ID	Client ID	X24-96D	Client ID	SRK08-11A	
Grouping	Analyte									
WATER										
Dissolved Metals	Zirconium (Zr)-Dissolved (mg/L)	<0.0016 ^{DLA}	<0.00080	<0.00080	<0.0080 ^{DLA}	<0.00080				

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	L1310290-36	L1310290-37	L1310290-38	L1310290-39	L1310290-40
Description	Water	Water	Water	Water	Water
Sampled Date	30-MAY-13	28-MAY-13	29-MAY-13	29-MAY-13	28-MAY-13
Sampled Time	09:13	12:15	10:15	22:12	16:05
Client ID	SRK08-11B	P09-SIS2	XR-IC	P09-C2	S2B
Grouping	Analyte				
WATER					
Dissolved Metals	Zirconium (Zr)-Dissolved (mg/L)				
	<0.00080	<0.080 ^{DLA}	0.162 ^{DTC}	0.158 ^{DTC}	<0.080 ^{DLA}

* 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	L1310290-41 Water 28-MAY-13 13:47 SRK08-SP7B	L1310290-42 Water 28-MAY-13 11:07 P09-SIS1	L1310290-43 Water 29-MAY-13 13:35 96-7	L1310290-44 Water 29-MAY-13 10:10 XR-1A	L1310290-45 Water 29-MAY-13 12:25 XR-1F	
Grouping	Analyte					
WATER						
Dissolved Metals	Zirconium (Zr)-Dissolved (mg/L)	<0.00080	<0.040 ^{DLA}	<0.0016 ^{DLA}	<0.00080	<0.00080

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1310290-46	Description	Water	Sampled Date	29-MAY-13	Sampled Time	15:49	Client ID	XR-1B
	Sample ID	L1310290-47	Description	Water	Sampled Date	29-MAY-13	Sampled Time	16:35	Client ID	P96-9A
Grouping	Analyte									
WATER										
Dissolved Metals	Zirconium (Zr)-Dissolved (mg/L)	<0.0016 ^{DLA}	<0.00080							

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

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Method Blank	Manganese (Mn)-Total	MB-LOR	L1310290-19, -20, -22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35, -36, -37
Matrix Spike	Sulfate (SO4)	MS-B	L1310290-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -4, -5, -6, -7, -8, -9
Matrix Spike	Cadmium (Cd)-Dissolved	MS-B	L1310290-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1310290-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -5, -6, -7, -8, -9
Matrix Spike	Iron (Fe)-Dissolved	MS-B	L1310290-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1310290-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1310290-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -5, -6, -7, -8, -9
Matrix Spike	Zinc (Zn)-Dissolved	MS-B	L1310290-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -5, -6, -7, -8, -9
Matrix Spike	Sulfate (SO4)	MS-B	L1310290-31, -32, -33, -34, -35, -36, -37, -38, -39, -40, -41, -42, -43, -44, -45, -46, -47
Matrix Spike	Barium (Ba)-Total	MS-B	L1310290-11, -12, -13, -14, -15, -16, -17, -18
Matrix Spike	Calcium (Ca)-Total	MS-B	L1310290-11, -12, -13, -14, -15, -16, -17, -18
Matrix Spike	Magnesium (Mg)-Total	MS-B	L1310290-11, -12, -13, -14, -15, -16, -17, -18
Matrix Spike	Strontium (Sr)-Total	MS-B	L1310290-11, -12, -13, -14, -15, -16, -17, -18
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1310290-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1310290-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1310290-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1310290-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1310290-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1310290-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1310290-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1310290-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -5, -6, -7, -8, -9

Reference Information

Parameter	Qualifier	Applies to Sample Number(s)
		44, -45, -46, -47, -5, -6, -7, -8, -9

Qualifiers for Individual Parameters Listed:

Qualifier	Description
DLA	Detection Limit Adjusted For required dilution
DTC	Dissolved concentration exceeds total. Results were confirmed by re-analysis.
MB-LOR	Method Blank exceeds ALS DQO. LORs adjusted for samples with positive hits below 5 times blank level.
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**
ACY-MAN-VA	Water	Acidity by Manual Titration	APHA - ACIDITY (2310)
		This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.	
ACY-PCT-VA	Water	Acidity by Automatic Titration	APHA 2310 "Acidity"
		This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.	
ACY-PCT-VA	Water	Acidity by Automatic Titration	APHA 2310 Acidity
		This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.	
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	EPA 310.2
		This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.	
ANIONS-CL-IC-WR	Water	Chloride by Ion Chromatography	EPA 300.1
		This analysis is carried out using procedures adapted from EPA Method 300.1, "Determination of Inorganic Anions by Ion Chromatography", Revision 1.0, April 1999 and from "Determination of Inorganic Anions in Environmental Waters Using a Hydroxide-Selective Column", Application Note 154 v.19, Dionex 2003.	
ANIONS-SO4-IC-WR	Water	Sulphate by Ion Chromatography	EPA 300.1
		This analysis is carried out using procedures adapted from EPA Method 300.1, "Determination of Inorganic Anions by Ion Chromatography", Revision 1.0, April 1999 and from "Determination of Inorganic Anions in Environmental Waters Using a Hydroxide-Selective Column", Application Note 154 v.19, Dionex 2003.	
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
		This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.	
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
		Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO ₃ equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.	
MET-D-CCMS-VA	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030 B&E / EPA SW-846 6020A
		This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using hotblock, or filtration (APHA 3030B&E). Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A).	
MET-T-CCMS-VA	Water	Total Metals in Water by CRC ICPMS	APHA 3030 B&E / EPA SW-846 6020A
		This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using hotblock, or filtration (APHA 3030B&E). Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A).	
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	

Reference Information

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

TSS-LOW-WR Water Total Suspended Solids by Grav. (1 mg/L) APHA 2540 D
 This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Suspended Solids are determined by filtering a sample through a glass fibre filter and drying the filter at 104 degrees celsius.

ZR-D-MS-VA Water Dissolved Zr in Water by ICPMS EPA SW-846 3005A/6020A
 This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

ZR-T-MS-VA Water Total Zr in Water by ICPMS EPA SW-846 3005A/6020A
 This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

** 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
WR	ALS ENVIRONMENTAL - WHITEHORSE, YUKON, CANADA
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

1 2 3 4

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.*



Report To: EDI Standard Other PDF Excel Digital Fax

Company: Lindsay Doetzel Standard Other PDF Excel Digital Fax

Contact: 2195 2nd Avenue Email 1: ldoetzel@edynamics.com
 Y1A 3T8 Email 2: bsnow@edynamics.com

Phone: 867-393-4882 Fax: Email 3: hvandevosse@edynamics.com

Invoice To: Same as Report? Yes No Client / Project Information Job #: 13-Y-0215

Hardcopy of Invoice with Report? Yes No PO / AFE: LSD:

Company: Contact: Quote #: Q38554

Address: Phone: Fax: ALS Contact: Sean Sluggett

Lab Work Order # (lab use only) Sample Identification (This description will appear on the report)

Sample #	Sample Identification	Date (dd-mm-yy)	Time (hh:mm)	Sampler:	Sample Type	Number of Containers
		31-May-13	8:58	HV, BS, JD, DS	Water	3
	P916-SA	31-May-13	12:36		Water	3
	SRK05-SP-5	"	10:27		Water	3
	P01-04B	"	12:32		Water	3
	P01-04A	"	13:30		"	3
	P916-SB	"	9:30		"	3
	P01-11	29-May-13	10:55		"	3
	V37	30-May-13	18:03		"	3
	P2001-2B	30-May-13	12:14		"	3
	P2001-3	30-May-13	14:03		"	3
	V34	"	17:04		"	3
	SRK05-7					

General: acidity, alkalinity, chloride, conductivity, PH, sulphate, TSS

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.

Released by: Date (dd-mm-yy) Time (hh-mm) Received by: Date: 31-MAY-13 Time: 11:00 AM Temperature: 5.1 °C





ALS Environmental

Chain of Custody / Analytical Request Form
Canada Toll Free: 1 800 668 9878
www.alsglobal.com

COC # 13-Y-0215-1
Page 2 of 4

Report To			Report Format / Distribution				Service Requested (Rush for routine analysis subject to availability)			
Company: EDI			<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Other <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> Excel <input type="checkbox"/> Digital <input type="checkbox"/> Fax				<input checked="" type="radio"/> Regular (Standard Turnaround Times - Business Days) <input type="radio"/> Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT <input type="radio"/> Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT <input type="radio"/> Same Day or Weekend Emergency - Contact ALS to Confirm TAT			
Contact: Lindsay Doetzel			Email 1: ldoetzel@edynamics.com				Please indicate below Filtered, Preserved or both (F, P, F/P)			
Address: 2195 2nd Avenue			Email 2: bsnow@edynamics.com							
Address: Y1A 3T8			Email 3: hvandevosse@edynamics.com				Analysis Request			
Phone: 867-393-4882			Fax: 867-393-4882				F/P P P			
Invoice To Same as Report ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Client / Project Information							
Hardcopy of Invoice with Report? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Job #: 13-Y-0215							
Company:			PO / AFE:							
Contact:			LSD:							
Address:			Quote #: Q 38554							
Phone:			ALS Contact: Sean Sluggett							
Lab Work Order #			Date							
(lab use only)			(dd-mm-yy)							
Sample #			Sample Identification (This description will appear on the report)							
SRK08-10A			30 May 2013 10:49				Water			
PO1-01A			29 May 2013 12:23				Water			
PO9-ETA2			30 May 2013 11:55				Water			
SRK05-8			29 May 2013 15:46				Water			
S2A			28 May 2013 14:38				"			
PO1-01B			29 May 2013 11:57				"			
PO1-03			28 May 2013 18:17				"			
X25-76A			28 May 2013 17:55				"			
Travel Blank							"			
SRK08-SP3A			28 May 2013 14:43				"			
SRK05-SP-4A			" 12:37				"			
PO9-02 S1A			" 15:22				"			

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BCC CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details

General: acidity, alkalinity, floride, conductivity, PH, sulphates, TSS

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

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Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

SHIPPING RELEASE (client use)	SHIPPING RECEIPTION (lab use only)	SHIPPING VERIFICATION (lab use only)
Released by:	Date (dd-mm-yy) Time (hh-mm)	Date: Time: Temperature: °C
Received by:	Date: Time: Temperature: °C	Verified by: Date: Time: Observations: Yes / No ? If Yes add SIF

Barcode: L1310290-COFC

GENF 18.01 Front



Chain of Custody / Analytical Request Form
 Canada Toll Free: 1 800 668 9878
 www.alsglobal.com

13-7-02/5-1
 3084

Report To: EDI
 Company: EDI
 Contact: Lindsay Doetzel
 Address: 2195 2nd Avenue
 Y1A 3T8
 Phone: 867-393-4882 Fax: Same as Report? Yes No
 Hardcopy of Invoice with Report? Yes No
 Company: PO / AFE: LSD:
 Contact: Quote #: 038554
 Address: ALS Contact: Sean Sluggett
 Phone: Date: 30 May 13
 Fax: Time: 17:29
 Sampler: HV, BS, JD, DS
 Sample Type: Water

Report Format / Distribution: Standard Other
 PDF Excel Digital Fax
 Email 1: ldoetzel@edynamics.com
 Email 2: bsnov@edynamics.com
 Email 3: hvandevosse@edynamics.com
 Client / Project Information: Job #: 13-Y-0215
 Service Requested (Rush for a...): Regular (Standard Turnaround Times - Business Days)
 Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT
 Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT
 Same Day or Weekend Emergency - Contact ALS to Confirm TAT
 Analy: P P/P P/P P P

Sample #	Sample Identification (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	Temperature: °C	Verified by:	Date:	Time:	Observations: Yes / No ?
V36		30 May 13	14:50	Water					
SRK05-55	PO9-S/S5	30 May 13	17:29	Water					
PO9-VC1		30 May 13	9:23	Water					
XR-1E		30 May 13	10:08	Water					
V35		30 May 13	17:30	"					
SRK05-5C		29 May 13	17:29	"					
BH14A		30 May 13	15:30	"					
XR-5-96B		29 May 13	9:43	"					
XR-1D		30 May 13	8:31	"					
XR4-96D		29 May 13	11:22	"					
SRK08-11A		30 May 13	8:30	"					
SRK08-11B		30 May 13	9:13	"					



Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details
 General: acidity, alkalinity, fluoride, conductivity, pH, sulphate, TSS

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.
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SHIPMENT RELEASE (client use) SHIPMENT RECEIPT (lab use only) SHIPMENT VERIFICATION (lab use only)

Released by: Date (dd-mm-yy) Time (hh-mm) Received by: Date: Time: Temperature: °C Verified by: Date: Time: Observations: Yes / No ?



ALS Environmental

Chain of Custody / Analytical Request Form
Canada Toll Free: 1 800 668 9878
www.alsglobal.com

COG # 13-Y-0215-1
Page 4 of 4

Report To: EDI

Company: Lindsey Doetzel

Contact: 2195 2nd Avenue

Address: Y1A 3T8

Phone: 867-393-4882 Fax: [blank]

Invoice To: Same as Report? Yes No

Hardcopy of Invoice with Report? Yes No

Company: [blank]

Contact: [blank]

Address: [blank]

Phone: [blank] Fax: [blank]

Lab Work Order # (lab use only): [blank]

Quote #: Q38554

ALS Contact: Sean Sluggert

Client / Project Information: Job #: 13-Y-0215

PO / A/E: [blank]

LSD: [blank]

Report Format / Distribution: Standard Other PDF Excel Digital Fax

Service Requested (Rush for routine analysis subject to availability): Regular (Standard Turnaround Times - Business Days)

Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT

Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT

Same Day or Weekend Emergency - Contact ALS to Confirm TAT

Analysis Request: Please indicate below Filled, Preserved or both (F, P, F/P)

Sample #

Sample Identification (This description will appear on the report)

Date (dd-mm-yy)

Time (hh:mm)

Sample Type

HV, BS, JD, DS

General

Total Metals (6)

Disolved Metals (7)

Number of Containers

L1310290-COFC



Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/B/C CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details

Generated = acidity, alkalinity, chlorides, conductivity, pH, sulphate, TSS

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

SHIPPING RELEASE (client use)	Date (dd-mm-yy)	Time (hh:mm)	SHIPPING RECEPTION (lab use only)	Date:	Time:	Temperature:	Verified by:	Date:	Time:	Observations: Yes / No ? If Yes add SIF
						°C				