HEMMERA ENVIROCHEM INC.
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Date Received: 23-JUN-14
Report Date: 04-JUL-14 14:23 (MT)
Version: FINAL

Client Phone: --

Certificate of Analysis

Lab Work Order #: L1475049

Project P.O. #: NOT SUBMITTED
Job Reference: 1343-005.02
C of C Numbers: 1, 2, 3, 4, 5, 6
Legal Site Desc:

Brent Mack
Account Manager

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1475049-1	L1475049-2	L1475049-3	L1475049-4	L1475049-5
	Description	Water	Water	Water	Water	Water
	Sampled Date	18-JUN-14	21-JUN-14	20-JUN-14	20-JUN-14	20-JUN-14
	Sampled Time	17:50	08:50	14:45	15:26	12:25
	Client ID	SRK08-SP8B	SRK08-10A	P09-GS1A	P09-GS1B	SRK05-5C
Grouping	**Analyte**					
WATER						
Physical Tests	Conductivity (uS/cm)	1550	3560	1180	1530	548
	Hardness (as CaCO3) (mg/L)	890	2190	716	987	271
	pH (pH)	7.24	7.43	7.98	7.94	8.21
	Total Suspended Solids (mg/L)	31.0	88.2	10.2	6.8	34.0
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	32.6	57.6	6.2	7.0	1.1
	Alkalinity, Total (as CaCO3) (mg/L)	236	661	228	253	162
	Chloride (Cl) (mg/L)	<5.0 DLA	135	<5.0 DLA	<5.0 DLA	<0.50
	Sulfate (SO4) (mg/L)	803	1860	516	765	149
	Anion Sum (meq/L)	21.4	55.7	15.3	21.0	6.33
	Cation Sum (meq/L)	19.0	50.9	15.3	20.8	6.29
	Cation - Anion Balance (%)	-6.0	-4.5	0.0	-0.3	-0.3
Total Metals	Aluminum (Al)-Total (mg/L)	0.169	3.12	0.0254	0.0242	1.30
	Antimony (Sb)-Total (mg/L)	0.00018	0.00240	0.0104	0.00126	0.00022
	Arsenic (As)-Total (mg/L)	0.00273	0.00173	0.0956	1.93	0.00729
	Barium (Ba)-Total (mg/L)	0.0141	0.0500	0.0110	0.0256	0.0917
	Beryllium (Be)-Total (mg/L)	0.00011	<0.00050 DLA	<0.00010	<0.00010	<0.00010
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.0025 DLA	<0.00050	<0.00050	<0.00050
	Boron (B)-Total (mg/L)	<0.010	<0.050 DLA	<0.010	0.017	0.015
	Cadmium (Cd)-Total (mg/L)	0.000081	0.00144	0.00288	0.000079	0.000142
	Calcium (Ca)-Total (mg/L)	159	677	170	249	70.5
	Chromium (Cr)-Total (mg/L)	0.00078	0.00665	0.00022	0.00015	0.00397
	Cobalt (Co)-Total (mg/L)	0.00418	0.00308	0.0327	0.00335	0.00118
	Copper (Cu)-Total (mg/L)	0.00100	0.0063	0.00062	<0.00050	0.00354
	Iron (Fe)-Total (mg/L)	9.73	2.88	2.78	4.77	2.20
	Lead (Pb)-Total (mg/L)	0.00207	0.0112	0.0579	0.000473	0.0113
	Lithium (Li)-Total (mg/L)	0.0435	0.0224	0.00585	0.0129	0.00861
	Magnesium (Mg)-Total (mg/L)	87.7	103	68.2	93.0	20.8
	Manganese (Mn)-Total (mg/L)	2.23	0.0868	1.51	0.697	0.607
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	0.000013
	Molybdenum (Mo)-Total (mg/L)	0.000157	0.00095	0.00171	0.00375	0.0208
	Nickel (Ni)-Total (mg/L)	0.00895	0.0352	0.0807	0.0185	0.00490
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050	<0.050	0.081	<0.050
	Potassium (K)-Total (mg/L)	3.36	16.1	3.45	2.77	1.98
	Selenium (Se)-Total (mg/L)	<0.00010	<0.00050 DLA	<0.00010	<0.00010	<0.00010
	Silicon (Si)-Total (mg/L)	9.25	14.6	1.84	7.49	7.59
	Silver (Ag)-Total (mg/L)	0.000020	0.000067	0.000022	<0.000010	0.000036
	Sodium (Na)-Total (mg/L)	10.8	147	13.4	19.1	19.3

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1475049-6 Water 20-JUN-14 10:45 SRK05-07	L1475049-7 Water 20-JUN-14 10:20 P09-VC1	L1475049-8 Water 20-JUN-14 09:50 P09-VC2	L1475049-9 Water 17-JUN-14 18:59 SRK08-SP7A	L1475049-10 Water 17-JUN-14 18:22 SRK08-SP7B
WATER						
Physical Tests	Conductivity (uS/cm)	3160	345	377	609	264
	Hardness (as CaCO3) (mg/L)	2440	152	207	329	134
	pH (pH)	7.94	8.27	8.17	7.31	7.67
	Total Suspended Solids (mg/L)	2.4	27.8	11.8	9.6	1.8
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	18.1	<1.0	1.5	17.5	3.8
	Alkalinity, Total (as CaCO3) (mg/L)	629	136	176	99.2	84.0
	Chloride (Cl) (mg/L)	<10 DLA	<0.50	<0.50	<0.50	<0.50
	Sulfate (SO4) (mg/L)	1950	52.7	41.2	239	63.3
	Anion Sum (meq/L)	53.2	3.81	4.38	6.96	3.00
	Cation Sum (meq/L)	49.4	3.92	4.54	7.54	3.15
	Cation - Anion Balance (%)	-3.7	1.4	1.7	4.0	2.5
Total Metals	Aluminum (Al)-Total (mg/L)	0.0452	0.895	0.291	0.226	0.0282
	Antimony (Sb)-Total (mg/L)	0.00032	<0.00010	0.00072	0.00014	<0.00010
	Arsenic (As)-Total (mg/L)	0.00231	0.00266	0.114	0.00530	0.00256
	Barium (Ba)-Total (mg/L)	0.0485	0.0264	0.0456	0.0164	0.0555
	Beryllium (Be)-Total (mg/L)	<0.00020 DLA	<0.00010	<0.00010	0.00020	<0.00010
	Bismuth (Bi)-Total (mg/L)	<0.0010 DLA	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Total (mg/L)	<0.020 DLA	<0.010	<0.010	<0.010	<0.010
	Cadmium (Cd)-Total (mg/L)	0.000098	0.000135	0.000035	0.000026	<0.000010
	Calcium (Ca)-Total (mg/L)	464	44.3	60.2	78.2	14.2
	Chromium (Cr)-Total (mg/L)	0.00099	0.00079	0.00058	0.00090	0.00031
	Cobalt (Co)-Total (mg/L)	0.00080	0.00030	0.00035	0.00395	0.00095
	Copper (Cu)-Total (mg/L)	0.0012	0.00149	0.00219	0.00054	<0.00050
	Iron (Fe)-Total (mg/L)	0.070	1.16	2.22	10.0	3.43
	Lead (Pb)-Total (mg/L)	0.00060	0.00512	0.0245	0.000376	0.000167
	Lithium (Li)-Total (mg/L)	0.0100	0.00362	0.00782	0.0347	0.0175
	Magnesium (Mg)-Total (mg/L)	307	9.02	11.8	29.5	23.5
	Manganese (Mn)-Total (mg/L)	0.0123	0.0173	0.0872	0.819	1.57
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	0.00075	0.000544	0.0100	0.000184	0.000327
	Nickel (Ni)-Total (mg/L)	0.0143	0.00095	0.00078	0.00975	0.00599
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Total (mg/L)	2.40	1.10	1.20	3.84	1.90
	Selenium (Se)-Total (mg/L)	0.00044	<0.00010	<0.00010	<0.00010	<0.00010
	Silicon (Si)-Total (mg/L)	6.29	8.02	6.86	11.7	7.51
	Silver (Ag)-Total (mg/L)	<0.000020 DLA	0.000154	0.000026	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)	13.6	19.4	6.02	7.11	2.96

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1475049-11 Water 19-JUN-14 08:33 P01-01A	L1475049-12 Water 19-JUN-14 08:57 P01-01B	L1475049-13 Water 19-JUN-14 10:03 P09-C3	L1475049-14 Water 19-JUN-14 11:54 P01-11	L1475049-15 Water 19-JUN-14 13:04 P09-C2
WATER						
Physical Tests	Conductivity (uS/cm)	1590	1400	1360	3200	2560
	Hardness (as CaCO3) (mg/L)	1030	858	734	2270	988
	pH (pH)	7.90	8.07	8.01	7.49	7.55
	Total Suspended Solids (mg/L)	1.2	2.0	10.0	125	48.2
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	10.5	5.7	10.3	45.8	76.2
	Alkalinity, Total (as CaCO3) (mg/L)	323	317	603	434	1760
	Chloride (Cl) (mg/L)	<5.0 DLA	<5.0 DLA	5.1	<10 DLA	25
	Sulfate (SO4) (mg/L)	749	601	244	2050	21
	Anion Sum (meq/L)	22.0	18.9	17.3	51.4	36.4
	Cation Sum (meq/L)	21.8	18.4	17.7	53.2	35.0
	Cation - Anion Balance (%)	-0.6	-1.2	1.4	1.8	-1.9
Total Metals	Aluminum (Al)-Total (mg/L)	0.0116	0.0046	0.0800	1.12	0.897
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00050 DLA	<0.00020 DLA
	Arsenic (As)-Total (mg/L)	0.00026	0.00250	0.00110	0.0402	0.00082
	Barium (Ba)-Total (mg/L)	0.0424	0.0496	0.103	0.0471	0.705
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00010	0.00018	<0.00050 DLA	0.00227
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.0025 DLA	<0.0010 DLA
	Boron (B)-Total (mg/L)	0.011	0.011	0.020	<0.050 DLA	0.080
	Cadmium (Cd)-Total (mg/L)	0.000926	0.000040	<0.000010	0.000128	<0.000020 DLA
	Calcium (Ca)-Total (mg/L)	295	255	169	591	210
	Chromium (Cr)-Total (mg/L)	<0.00010	<0.00010	0.00031	0.00310	0.00152
	Cobalt (Co)-Total (mg/L)	0.00214	0.00021	0.00013	0.0118	0.00030
	Copper (Cu)-Total (mg/L)	0.00053	<0.00050	<0.00050	0.0043	<0.0010 DLA
	Iron (Fe)-Total (mg/L)	0.022	0.742	2.49	65.2	3.88
	Lead (Pb)-Total (mg/L)	0.000093	0.000079	0.000198	0.00740	0.00067
	Lithium (Li)-Total (mg/L)	0.0132	0.0116	0.0972	0.0239	0.734
	Magnesium (Mg)-Total (mg/L)	66.8	53.1	68.1	131	104
	Manganese (Mn)-Total (mg/L)	7.61	0.173	0.358	40.0	0.148
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	0.000865	0.000928	0.000214	0.00112	0.00040
	Nickel (Ni)-Total (mg/L)	0.0102	0.00076	<0.00050	0.0279	0.0013
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Total (mg/L)	6.31	4.32	3.82	8.02	10.9
	Selenium (Se)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00050 DLA	<0.00020 DLA
	Silicon (Si)-Total (mg/L)	7.11	5.77	8.55	13.1	11.2
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010	0.000078	<0.000050 DLA	0.000276
	Sodium (Na)-Total (mg/L)	18.0	25.6	62.7	64.7	297

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1475049-16 Water 19-JUN-14 14:00 P05-01-05	L1475049-17 Water 19-JUN-14 14:50 P05-01-03	L1475049-18 Water 19-JUN-14 18:05 V36	L1475049-19 Water 19-JUN-14 17:40 P2001-3	L1475049-20 Water 19-JUN-14 16:40 V35
WATER						
Physical Tests	Conductivity (uS/cm)	3250	3360	2600	925	3060
	Hardness (as CaCO3) (mg/L)	2360	2450	1980	523	2440
	pH (pH)	7.48	7.44	7.98	8.25	7.93
	Total Suspended Solids (mg/L)	22.0	41.2	11.6	127	3.8
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	44.6	47.0	15.1	1.3	20.3
	Alkalinity, Total (as CaCO3) (mg/L)	445	447	692	461	700
	Chloride (Cl) (mg/L)	<10 DLA	<10 DLA	<10 DLA	<5.0 DLA	<10 DLA
	Sulfate (SO4) (mg/L)	2130	2210	1440	125	1810
	Anion Sum (meq/L)	53.3	55.0	43.8	11.8	51.8
	Cation Sum (meq/L)	52.4	54.3	40.1	12.5	49.3
	Cation - Anion Balance (%)	-0.9	-0.6	-4.4	2.6	-2.5
Total Metals	Aluminum (Al)-Total (mg/L)	<0.015 DLA	0.484	0.199	0.0048	0.0623
	Antimony (Sb)-Total (mg/L)	<0.00050 DLA	<0.00050 DLA	0.00025	<0.00010	0.00037
	Arsenic (As)-Total (mg/L)	0.00573	0.00079 DLA	0.00981	0.00270	0.00081
	Barium (Ba)-Total (mg/L)	0.0195	0.0295	0.0152	0.0274	0.0125
	Beryllium (Be)-Total (mg/L)	<0.00050 DLA	<0.00050 DLA	<0.00020 DLA	<0.00010	<0.00020 DLA
	Bismuth (Bi)-Total (mg/L)	<0.0025 DLA	<0.0025 DLA	<0.0010 DLA	<0.00050	<0.0010 DLA
	Boron (B)-Total (mg/L)	<0.050 DLA	<0.050 DLA	0.024	0.025	<0.020 DLA
	Cadmium (Cd)-Total (mg/L)	0.000574	<0.000050 DLA	0.000381	0.000545	0.000149
	Calcium (Ca)-Total (mg/L)	670	684	359	97.8	481
	Chromium (Cr)-Total (mg/L)	<0.00050 DLA	0.00160	0.00166	0.00010	0.00065
	Cobalt (Co)-Total (mg/L)	0.0240	0.00063	0.00154	0.00062	<0.00020 DLA
	Copper (Cu)-Total (mg/L)	<0.0025 DLA	<0.0025 DLA	0.0033	0.00187	0.0010
	Iron (Fe)-Total (mg/L)	32.3	33.6	0.560	0.019	0.079
	Lead (Pb)-Total (mg/L)	<0.00025 DLA	0.00172	0.0134	0.000123	0.00079
	Lithium (Li)-Total (mg/L)	0.0297	0.0327	0.0480	0.00931	0.0286
	Magnesium (Mg)-Total (mg/L)	155	151	236	65.0	288
	Manganese (Mn)-Total (mg/L)	43.1	44.5	0.0921	0.623	0.00803
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	0.00098	0.00079	0.00108	0.0129	0.00127
	Nickel (Ni)-Total (mg/L)	0.0224	<0.0025 DLA	0.0111	0.00191	0.0060
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Total (mg/L)	8.54	7.91	4.71	3.27	4.84
	Selenium (Se)-Total (mg/L)	<0.00050 DLA	<0.00050 DLA	0.00056	<0.00010	0.00111
	Silicon (Si)-Total (mg/L)	11.5	12.0	6.69	6.79	6.28
	Silver (Ag)-Total (mg/L)	<0.000050 DLA	<0.000050 DLA	<0.000020 DLA	<0.000010	<0.000020 DLA
	Sodium (Na)-Total (mg/L)	34.3	37.1	9.12	33.8	9.43

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1475049-21 Water 19-JUN-14 15:56 V34	L1475049-22 Water 19-JUN-14 11:16 SRK08-P9	L1475049-23 Water 19-JUN-14 08:31 BH13B	L1475049-24 Water 19-JUN-14 08:46 BH14B	L1475049-25 Water 19-JUN-14 09:16 BH14A
WATER						
Physical Tests	Conductivity (uS/cm)	2010	1360	1100	3620	4160
	Hardness (as CaCO3) (mg/L)	1500	901	707	2720	3130
	pH (pH)	7.98	8.11	7.94	7.91	7.74
	Total Suspended Solids (mg/L)	111	4.6	1.6	11.4	19.8
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	16.0	4.2	3.0	20.8	50.3
	Alkalinity, Total (as CaCO3) (mg/L)	904	289	111	487	582
	Chloride (Cl) (mg/L)	<10 DLA	<5.0 DLA	<5.0 DLA	<10 DLA	<10 DLA
	Sulfate (SO4) (mg/L)	548	588	580	2240	2750
	Anion Sum (meq/L)	29.5	18.0	14.3	56.3	69.0
	Cation Sum (meq/L)	30.6	18.5	14.4	55.2	64.1
	Cation - Anion Balance (%)	1.8	1.3	0.5	-0.9	-3.6
Total Metals	Aluminum (Al)-Total (mg/L)	2.64	0.168	0.0386	0.0444	0.724
	Antimony (Sb)-Total (mg/L)	0.00023	<0.00010	<0.00010	<0.00020 DLA	0.00101
	Arsenic (As)-Total (mg/L)	0.00296	0.00042	0.00013	0.00028	0.00347
	Barium (Ba)-Total (mg/L)	0.0863	0.0289	0.0317	0.0206	0.0845
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00020 DLA	<0.00050 DLA
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.0010 DLA	<0.0025 DLA
	Boron (B)-Total (mg/L)	0.025	<0.010	<0.010	<0.020 DLA	<0.050 DLA
	Cadmium (Cd)-Total (mg/L)	0.000116	0.000030	0.000042	0.000110	0.00437
	Calcium (Ca)-Total (mg/L)	209	280	153	552	484
	Chromium (Cr)-Total (mg/L)	0.0125	0.00100	0.00012	<0.00020 DLA	0.00180
	Cobalt (Co)-Total (mg/L)	0.00397	0.00046	0.00273	<0.00020 DLA	0.00618
	Copper (Cu)-Total (mg/L)	0.00623	0.00171	0.00415	0.0011	0.0119
	Iron (Fe)-Total (mg/L)	5.36	0.266	0.075	0.083	1.72
	Lead (Pb)-Total (mg/L)	0.00312	0.000389	0.000101	0.0136	0.473
	Lithium (Li)-Total (mg/L)	0.0309	0.0115	0.0219	0.0806	0.0957
	Magnesium (Mg)-Total (mg/L)	220	52.7	80.7	343	390
	Manganese (Mn)-Total (mg/L)	0.113	0.0121	0.00342	0.00298	0.315
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	0.000261
	Molybdenum (Mo)-Total (mg/L)	0.00178	0.00159	0.00338	0.00022	0.00041
	Nickel (Ni)-Total (mg/L)	0.0121	0.0208	0.00653	0.0068	0.252
	Phosphorus (P)-Total (mg/L)	0.075	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Total (mg/L)	5.08	5.53	3.20	4.64	4.04
	Selenium (Se)-Total (mg/L)	<0.00010	0.00111	0.00489	0.00062	0.00082
	Silicon (Si)-Total (mg/L)	11.0	6.73	3.07	9.52	10.5
	Silver (Ag)-Total (mg/L)	0.000037	<0.000010	<0.000010	<0.000020 DLA	0.000689
	Sodium (Na)-Total (mg/L)	7.99	9.14	4.71	18.3	17.1

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1475049-26 Water 18-JUN-14 11:50 P09-SIS4	L1475049-27 Water 18-JUN-14 12:30 P09-SIS5	L1475049-28 Water 18-JUN-14 11:36 SRK05-SP-4A	L1475049-29 Water 18-JUN-14 10:30 P09-SIS3	L1475049-30 Water 18-JUN-14 08:30 P09-SIS2
WATER						
Physical Tests	Conductivity (uS/cm)	5860	5140	1430	11500	11100
	Hardness (as CaCO3) (mg/L)	4750	3860	849	9500	9100
	pH (pH)	7.43	7.58	7.16	7.02	6.96
	Total Suspended Solids (mg/L)	46.2	34.6	12.8	5.2	22.4
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	146	61.8	73.6	1240	1040
	Alkalinity, Total (as CaCO3) (mg/L)	329	461	268	180	130
	Chloride (Cl) (mg/L)	<10 DLA	11	<5.0 DLA	<25 DLA	<25 DLA
	Sulfate (SO4) (mg/L)	4970	3980	669	12300	11800
	Anion Sum (meq/L)	110	92.4	19.3	260	248
	Cation Sum (meq/L)	99.9	82.4	19.1	229	217
	Cation - Anion Balance (%)	-4.8	-5.7	-0.4	-6.3	-6.7
Total Metals	Aluminum (Al)-Total (mg/L)	0.966 DLA	0.475 DLA	0.152 DLA	<0.30 DLA	0.97 DLA
	Antimony (Sb)-Total (mg/L)	<0.0020 DLA	<0.00050	<0.00050	<0.010 DLA	<0.010 DLA
	Arsenic (As)-Total (mg/L)	<0.0020 DLA	0.00136	0.00169	<0.010 DLA	<0.010 DLA
	Barium (Ba)-Total (mg/L)	0.0212	0.0259	0.0111	0.0195	0.0231
	Beryllium (Be)-Total (mg/L)	<0.0020 DLA	<0.00050 DLA	0.00071	<0.010 DLA	<0.010 DLA
	Bismuth (Bi)-Total (mg/L)	<0.010 DLA	<0.0025 DLA	<0.0025 DLA	<0.050 DLA	<0.050 DLA
	Boron (B)-Total (mg/L)	<0.20 DLA	<0.050 DLA	<0.050 DLA	<1.0 DLA	<1.0 DLA
	Cadmium (Cd)-Total (mg/L)	0.0195	0.000698	0.00600	0.638	0.647
	Calcium (Ca)-Total (mg/L)	395	459	132	469	453
	Chromium (Cr)-Total (mg/L)	0.0032	0.00308	<0.00050 DLA	<0.010 DLA	<0.010 DLA
	Cobalt (Co)-Total (mg/L)	<0.0020 DLA	0.0374	0.0701	3.01	3.02
	Copper (Cu)-Total (mg/L)	<0.010 DLA	0.0054	<0.0025 DLA	<0.050 DLA	<0.050 DLA
	Iron (Fe)-Total (mg/L)	1.70	15.8	9.22	0.256	0.929
	Lead (Pb)-Total (mg/L)	0.0016	0.00312	0.00216	<0.0050 DLA	<0.0050 DLA
	Lithium (Li)-Total (mg/L)	0.104	0.0518	0.0822	0.236	0.238
	Magnesium (Mg)-Total (mg/L)	884	633	121	2060	2070
	Manganese (Mn)-Total (mg/L)	5.31	40.4	6.86	229	199
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	<0.0010 DLA	0.00113	0.00029	<0.0050 DLA	<0.0050 DLA
	Nickel (Ni)-Total (mg/L)	0.726	0.164	0.173	5.53	4.89
	Phosphorus (P)-Total (mg/L)	<0.15 DLA	<0.10 DLA	<0.050	<0.25 DLA	<0.25 DLA
	Potassium (K)-Total (mg/L)	8.94	8.11	5.85	17.4	19.5
	Selenium (Se)-Total (mg/L)	<0.0020 DLA	<0.00050 DLA	<0.00050 DLA	<0.010 DLA	<0.010 DLA
	Silicon (Si)-Total (mg/L)	12.5	10.5	13.6	14.1	15.2
	Silver (Ag)-Total (mg/L)	<0.00020 DLA	<0.000050 DLA	<0.000050 DLA	<0.0010 DLA	<0.0010 DLA
	Sodium (Na)-Total (mg/L)	32.7	67.8	11.3	61.4	77.4

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1475049-31 Water 18-JUN-14 09:20 P09-SIS1	L1475049-32 Water 18-JUN-14 15:45 P96-6	L1475049-33 Water 18-JUN-14 17:50 SRK08-SP8A	L1475049-34 Water 18-JUN-14 16:56 P96-7	L1475049-35 Water 18-JUN-14 09:00 S1A
WATER						
Physical Tests	Conductivity (uS/cm)	8600	1910	1620	2850	5300
	Hardness (as CaCO3) (mg/L)	7700	1330	1030	2140	4010
	pH (pH)	7.35	7.81	7.65	8.09	7.07
	Total Suspended Solids (mg/L)	66.4	9.0	28.8	3.0	13.0
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	273	24.9	32.3	5.6	170
	Alkalinity, Total (as CaCO3) (mg/L)	285	335	213	238	196
	Chloride (Cl) (mg/L)	<25 DLA	<5.0 DLA	<5.0 DLA	<10 DLA	<10 DLA
	Sulfate (SO4) (mg/L)	8400	995	869	1960	4450
	Anion Sum (meq/L)	181	27.4	22.3	45.5	96.5
	Cation Sum (meq/L)	166	27.0	22.3	43.6	87.7
	Cation - Anion Balance (%)	-4.2	-0.8	0.0	-2.2	-4.8
Total Metals	Aluminum (Al)-Total (mg/L)	1.22	0.226	0.111	0.0430	0.265
	Antimony (Sb)-Total (mg/L)	<0.0020 DLA	<0.00020 DLA	0.00012	<0.00020 DLA	<0.0010 DLA
	Arsenic (As)-Total (mg/L)	0.0039	0.00276	0.0241	0.00024	<0.0010 DLA
	Barium (Ba)-Total (mg/L)	0.0399	0.0285	0.0122	0.0102	0.0418
	Beryllium (Be)-Total (mg/L)	<0.0020 DLA	<0.00020 DLA	0.00041	<0.00020 DLA	<0.0010 DLA
	Bismuth (Bi)-Total (mg/L)	<0.010 DLA	<0.0010 DLA	<0.00050	<0.0010 DLA	<0.0050 DLA
	Boron (B)-Total (mg/L)	<0.20 DLA	<0.020 DLA	<0.010	<0.020 DLA	<0.10 DLA
	Cadmium (Cd)-Total (mg/L)	0.0510	0.000304	0.000026	0.000036	0.00794
	Calcium (Ca)-Total (mg/L)	526	312	219	496	504
	Chromium (Cr)-Total (mg/L)	0.0107	0.00044	0.00072	0.00078	<0.0010 DLA
	Cobalt (Co)-Total (mg/L)	0.199	<0.00020 DLA	0.00465	<0.00020 DLA	0.169
	Copper (Cu)-Total (mg/L)	0.033	<0.0010 DLA	0.00064	<0.0010 DLA	<0.0050 DLA
	Iron (Fe)-Total (mg/L)	19.8	0.754	25.1	0.099	45.5
	Lead (Pb)-Total (mg/L)	0.0040	0.00082	0.00283	0.00017	<0.00050 DLA
	Lithium (Li)-Total (mg/L)	0.223	0.0352	0.0638	0.0237	0.0994
	Magnesium (Mg)-Total (mg/L)	1480	132	99.6	208	629
	Manganese (Mn)-Total (mg/L)	81.5	0.00417	1.77	0.00168	53.3
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	0.000021
	Molybdenum (Mo)-Total (mg/L)	0.0018	0.00012	0.000197	0.00099	<0.00050 DLA
	Nickel (Ni)-Total (mg/L)	0.618	0.0127	0.0136	<0.0010 DLA	0.378
	Phosphorus (P)-Total (mg/L)	<0.25 DLA	<0.050	<0.050	<0.050	<0.10 DLA
	Potassium (K)-Total (mg/L)	7.76	4.59	3.50	4.76	8.50
	Selenium (Se)-Total (mg/L)	<0.0020 DLA	0.00711	<0.00010	0.00047	<0.0010 DLA
	Silicon (Si)-Total (mg/L)	12.4	9.34	9.27	5.85	13.8
	Silver (Ag)-Total (mg/L)	0.00020	<0.000020 DLA	0.000020	<0.000020 DLA	<0.00010 DLA
	Sodium (Na)-Total (mg/L)	52.5	6.02	13.5	14.4	22.9

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1475049-36 Water 18-JUN-14 12:22 P09-ETA-2	L1475049-37 Water 18-JUN-14 17:15 X25-96A	L1475049-38 Water 18-JUN-14 16:50 X25-96B	L1475049-39 Water 18-JUN-14 15:52 X24-96D	L1475049-40 Water 18-JUN-14 13:10 S1B
WATER						
Physical Tests	Conductivity (uS/cm)	7340	1590	1650	3650	1700
	Hardness (as CaCO3) (mg/L)	4410	973	998	2610	1030
	pH (pH)	6.35	7.91	8.14	7.24	6.54
	Total Suspended Solids (mg/L)	131	6.6	3.8	36.6	121
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	1570	10.0	3.4	58.8	58.8
	Alkalinity, Total (as CaCO3) (mg/L)	26.5	299	298	406	99.3
	Chloride (Cl) (mg/L)	28	<5.0 DLA	<5.0 DLA	<10 DLA	<5.0
	Sulfate (SO4) (mg/L)	7260	753	800	2570	1060
	Anion Sum (meq/L)	152	21.7	22.6	61.7	24.0
	Cation Sum (meq/L)	156	21.2	22.3	58.7	22.5
	Cation - Anion Balance (%)	1.3	-1.2	-0.7	-2.5	-3.2
Total Metals	Aluminum (Al)-Total (mg/L)	<0.15 DLA	0.0213	0.0119	<0.060 DLA	1.93
	Antimony (Sb)-Total (mg/L)	<0.0050 DLA	<0.00020 DLA	<0.00020 DLA	<0.0020 DLA	0.00197
	Arsenic (As)-Total (mg/L)	0.159	0.00032	0.00076	<0.0020 DLA	0.00164
	Barium (Ba)-Total (mg/L)	0.0143	0.0641	0.0293	0.0309	0.0534
	Beryllium (Be)-Total (mg/L)	<0.0050 DLA	<0.00020 DLA	<0.00020 DLA	<0.0020 DLA	0.00020
	Bismuth (Bi)-Total (mg/L)	<0.025 DLA	<0.0010 DLA	<0.0010 DLA	<0.010 DLA	<0.0010 DLA
	Boron (B)-Total (mg/L)	<0.50 DLA	<0.020 DLA	<0.020 DLA	<0.20 DLA	<0.020 DLA
	Cadmium (Cd)-Total (mg/L)	<0.00050 DLA	0.000144	0.000047	0.00715	0.00193
	Calcium (Ca)-Total (mg/L)	444	288	327	687	119
	Chromium (Cr)-Total (mg/L)	<0.0050 DLA	<0.00020 DLA	<0.00020 DLA	<0.0020 DLA	0.00467
	Cobalt (Co)-Total (mg/L)	1.10	0.00934	0.00023	0.539	0.0253
	Copper (Cu)-Total (mg/L)	<0.025 DLA	<0.0010 DLA	<0.0010 DLA	<0.010 DLA	0.0064
	Iron (Fe)-Total (mg/L)	905	2.91	1.59	12.1	18.8
	Lead (Pb)-Total (mg/L)	0.0063	0.00029	0.00013	<0.0010 DLA	0.00493
	Lithium (Li)-Total (mg/L)	0.090	0.0046	0.0092	0.023	0.0454
	Magnesium (Mg)-Total (mg/L)	796	63.9	49.7	210	164
	Manganese (Mn)-Total (mg/L)	83.3	15.9	0.325	115	12.5
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	0.000011	<0.000050 DLM
	Molybdenum (Mo)-Total (mg/L)	<0.0025 DLA	0.00124	0.00037	<0.0010 DLA	0.00073
	Nickel (Ni)-Total (mg/L)	0.962	0.0050	<0.0010 DLA	0.729	0.0714
	Phosphorus (P)-Total (mg/L)	<0.25 DLA	<0.050	<0.050	<0.050	0.092
	Potassium (K)-Total (mg/L)	8.18	5.21	4.43	8.26	4.27
	Selenium (Se)-Total (mg/L)	<0.0050 DLA	<0.00020 DLA	<0.00020 DLA	<0.0020 DLA	<0.00020 DLA
	Silicon (Si)-Total (mg/L)	11.9	8.67	5.59	9.18	11.2
	Silver (Ag)-Total (mg/L)	<0.00050 DLA	<0.000020 DLA	<0.000020 DLA	<0.00020 DLA	0.000059
	Sodium (Na)-Total (mg/L)	46.2	20.7	49.4	35.5	7.11

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1475049-41 Water 20-JUN-14 11:26 SRK05-08	L1475049-42 Water 19-JUN-14 13:26 P96-8B	L1475049-43 Water 19-JUN-14 13:01 P96-8A	L1475049-44 Water 18-JUN-14 18:00 P01-04A	L1475049-45 Water 20-JUN-14 12:25 P09-LCD6
WATER						
Physical Tests	Conductivity (uS/cm)	2430	9670	9690	1100	984
	Hardness (as CaCO3) (mg/L)	1900	6700	6250	504	622
	pH (pH)	7.88	5.85	4.16	7.72	8.09
	Total Suspended Solids (mg/L)	18.4	21.6	2.2	<1.0	153
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	22.6	1830	2130	28.7	4.4
	Alkalinity, Total (as CaCO3) (mg/L)	582	37.2	<1.0	672	277
	Chloride (Cl) (mg/L)	<10 DLA	<25 DLA	<25 DLA	8.7	<5.0 DLA
	Sulfate (SO4) (mg/L)	1260	10100	10100	25.8	344
	Anion Sum (meq/L)	37.8	212	210	14.2	12.7
	Cation Sum (meq/L)	38.4	194	189	13.1	13.2
	Cation - Anion Balance (%)	0.8	-4.4	-5.3	-4.1	2.0
Total Metals	Aluminum (Al)-Total (mg/L)	0.137	4.36	24.0	0.0035	1.87
	Antimony (Sb)-Total (mg/L)	<0.00020 DLA	<0.010 DLA	<0.020 DLA	<0.00010	0.00030
	Arsenic (As)-Total (mg/L)	0.00058	<0.010 DLA	<0.020 DLA	0.00011	0.132
	Barium (Ba)-Total (mg/L)	0.0145	0.0190	0.019	0.403	0.120
	Beryllium (Be)-Total (mg/L)	<0.00020 DLA	<0.010 DLA	<0.020 DLA	0.00025	<0.00010
	Bismuth (Bi)-Total (mg/L)	<0.0010 DLA	<0.050 DLA	<0.10 DLA	<0.00050	<0.00050
	Boron (B)-Total (mg/L)	<0.020 DLA	<1.0 DLA	<2.0 DLA	0.026	0.016
	Cadmium (Cd)-Total (mg/L)	0.000029	0.278	0.456	0.000010	0.000090
	Calcium (Ca)-Total (mg/L)	380	410	393	134	165
	Chromium (Cr)-Total (mg/L)	0.00118	<0.010 DLA	<0.020 DLA	<0.00010	0.00826
	Cobalt (Co)-Total (mg/L)	0.00028	2.05	2.30	0.00013	0.00263
	Copper (Cu)-Total (mg/L)	0.0032	<0.050 DLA	0.31	<0.00050	0.00431
	Iron (Fe)-Total (mg/L)	0.306	383	370	0.454	11.4
	Lead (Pb)-Total (mg/L)	0.00119	0.0873	0.111	<0.000050	0.0517
	Lithium (Li)-Total (mg/L)	0.0167	0.181	0.15	0.160	0.0110
	Magnesium (Mg)-Total (mg/L)	216	1340	1260	46.0	50.0
	Manganese (Mn)-Total (mg/L)	0.00552	136	148	0.279	0.640
	Mercury (Hg)-Total (mg/L)	<0.000010	0.000011	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	0.00044	<0.0050 DLA	<0.010 DLA	<0.000050	0.00247
	Nickel (Ni)-Total (mg/L)	0.0018	2.16	2.51	<0.00050	0.00778
	Phosphorus (P)-Total (mg/L)	<0.050	<0.25 DLA	<0.25 DLA	<0.050	0.162
	Potassium (K)-Total (mg/L)	2.01	20.3	18.2	3.38	2.77
	Selenium (Se)-Total (mg/L)	0.00030	<0.010 DLA	<0.020 DLA	<0.00010	<0.00010
	Silicon (Si)-Total (mg/L)	6.38	18.1	24.6	8.58	10.5
	Silver (Ag)-Total (mg/L)	<0.000020 DLA	<0.0010 DLA	<0.0020 DLA	0.000121	0.000057
	Sodium (Na)-Total (mg/L)	9.94	55.9	58	69.5	6.94

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1475049-46	L1475049-47	L1475049-48	L1475049-49	L1475049-50
	Description	Water	Water	Water	Water	Water
	Sampled Date	20-JUN-14	20-JUN-14	19-JUN-14	20-JUN-14	20-JUN-14
	Sampled Time	08:44	10:42	17:50	08:15	13:26
	Client ID	V37	P09-LCD1	P2001-02A	P2001-02B	BH05-9B-R
Grouping	**Analyte**					
WATER						
Physical Tests	Conductivity (uS/cm)	1100	902	2750	2640	603
	Hardness (as CaCO3) (mg/L)	687	518	2080	1960	228
	pH (pH)	8.36	8.20	7.80	7.85	8.27
	Total Suspended Solids (mg/L)	6.4	24.6	21.2	313	3.8
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	<1.0	2.4	32.6	31.7	<1.0
	Alkalinity, Total (as CaCO3) (mg/L)	473	325	758	713	155
	Chloride (Cl) (mg/L)	<5.0 DLA	<5.0 DLA	<10 DLA	<10 DLA	1.17
	Sulfate (SO4) (mg/L)	262	252	1440	1460	171
	Anion Sum (meq/L)	14.9	11.7	45.1	44.7	6.70
	Cation Sum (meq/L)	14.9	11.4	42.1	40.0	6.75
	Cation - Anion Balance (%)	0.0	-1.7	-3.5	-5.6	0.4
Total Metals	Aluminum (Al)-Total (mg/L)	0.0832	0.214	0.498	4.98	0.0829
	Antimony (Sb)-Total (mg/L)	<0.00010	0.00024	0.00031	<0.00020 DLA	<0.00010
	Arsenic (As)-Total (mg/L)	0.00142	0.104	0.00510	0.0238	0.0207
	Barium (Ba)-Total (mg/L)	0.0625	0.0609	0.0305	0.0707	0.0176
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00010	<0.00020 DLA	0.00042	<0.00010
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.0010 DLA	<0.0010 DLA	<0.00050
	Boron (B)-Total (mg/L)	0.042	0.017	<0.020 DLA	0.023	0.044
	Cadmium (Cd)-Total (mg/L)	0.000019	0.000056	0.000032	0.000057	0.000030
	Calcium (Ca)-Total (mg/L)	87.7	137	427	402	52.4
	Chromium (Cr)-Total (mg/L)	0.00063	0.00106	0.00150	0.00274	0.00025
	Cobalt (Co)-Total (mg/L)	0.00058	0.00074	0.00107	0.00126	0.00013
	Copper (Cu)-Total (mg/L)	0.00054	0.00071	0.0019	0.0037	<0.00050
	Iron (Fe)-Total (mg/L)	1.22	4.78	2.25	8.75	1.08
	Lead (Pb)-Total (mg/L)	0.00191	0.0504	0.00858	0.0223	0.00729
	Lithium (Li)-Total (mg/L)	0.0281	0.00987	0.0366	0.0374	0.0223
	Magnesium (Mg)-Total (mg/L)	107	39.7	237	220	23.7
	Manganese (Mn)-Total (mg/L)	0.120	0.684	0.118	0.303	0.109
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	0.0174	0.00515	0.00063	0.00069	0.0116
	Nickel (Ni)-Total (mg/L)	0.00109	0.00143	0.0072	0.0063	0.00054
	Phosphorus (P)-Total (mg/L)	0.073	0.053	<0.050	0.102	<0.050
	Potassium (K)-Total (mg/L)	6.03	2.74	5.11	5.45	1.96
	Selenium (Se)-Total (mg/L)	<0.00010	<0.00010	<0.00020 DLA	<0.00020 DLA	<0.00010
	Silicon (Si)-Total (mg/L)	3.11	7.50	8.09	19.6	6.74
	Silver (Ag)-Total (mg/L)	<0.000010	0.000017	0.000020	0.000040	<0.000010
	Sodium (Na)-Total (mg/L)	22.1	15.6	9.59	13.1	47.8

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1475049-51 Water 20-JUN-14 14:05 P96-9A	L1475049-52 Water 20-JUN-14 15:40 SRK05-9	L1475049-53 Water 20-JUN-14 17:10 SRK05-SP-5	L1475049-54 Water 20-JUN-14 17:30 S2B	L1475049-55 Water 21-JUN-14 10:45 S2A
WATER						
Physical Tests	Conductivity (uS/cm)	2970	1710	10800	9400	2700
	Hardness (as CaCO3) (mg/L)	2280	1190	8900	7710	1800
	pH (pH)	7.89	8.20	6.84	7.05	7.28
	Total Suspended Solids (mg/L)	1.6	5.4	54.6	30.8	6.2
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	19.9	2.3	1190	748	107
	Alkalinity, Total (as CaCO3) (mg/L)	494	286	197	208	287
	Chloride (Cl) (mg/L)	<10 DLA	<5.0 DLA	<25 DLA	<25 DLA	<10 DLA
	Sulfate (SO4) (mg/L)	1860	877	11400	9430	1760
	Anion Sum (meq/L)	48.5	24.0	242	200	42.3
	Cation Sum (meq/L)	46.3	24.1	213	179	39.3
	Cation - Anion Balance (%)	-2.3	0.4	-6.3	-5.7	-3.6
Total Metals	Aluminum (Al)-Total (mg/L)	0.0078	0.0831	0.57	0.35	0.137
	Antimony (Sb)-Total (mg/L)	<0.00020 DLA	0.00025	<0.010 DLA	<0.010 DLA	<0.00050 DLA
	Arsenic (As)-Total (mg/L)	0.00107	0.00116	<0.010 DLA	<0.010 DLA	<0.00050 DLA
	Barium (Ba)-Total (mg/L)	0.0495	0.0457	0.0290	0.0500	0.0204
	Beryllium (Be)-Total (mg/L)	<0.00020 DLA	<0.00010	<0.010 DLA	<0.010 DLA	<0.00050 DLA
	Bismuth (Bi)-Total (mg/L)	<0.0010 DLA	<0.00050	<0.050 DLA	<0.050 DLA	<0.0025 DLA
	Boron (B)-Total (mg/L)	<0.020 DLA	<0.010	<1.0 DLA	<1.0 DLA	<0.050 DLA
	Cadmium (Cd)-Total (mg/L)	0.000596	0.000160	0.366	0.117	0.00143
	Calcium (Ca)-Total (mg/L)	355	213	465	524	324
	Chromium (Cr)-Total (mg/L)	0.00044	0.00059	<0.010 DLA	<0.010 DLA	0.00071
	Cobalt (Co)-Total (mg/L)	<0.00020 DLA	0.00014	3.26	1.78	0.0687
	Copper (Cu)-Total (mg/L)	0.0025	0.00232	<0.050 DLA	<0.050 DLA	<0.0025 DLA
	Iron (Fe)-Total (mg/L)	0.073	0.167	2.64	18.1	22.8
	Lead (Pb)-Total (mg/L)	0.00025	0.00223	<0.0050 DLA	<0.0050 DLA	0.00130
	Lithium (Li)-Total (mg/L)	0.0111	0.00610	0.147	0.116	0.0603
	Magnesium (Mg)-Total (mg/L)	337	158	1820	1500	215
	Manganese (Mn)-Total (mg/L)	0.0454	0.00298	198	152	12.2
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	0.00063	0.00173	<0.0050 DLA	<0.0050 DLA	<0.00025 DLA
	Nickel (Ni)-Total (mg/L)	0.0137	0.00140	4.27	2.74	0.125
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050	<0.25 DLA	<0.25 DLA	<0.050
	Potassium (K)-Total (mg/L)	4.88	3.17	16.0	14.3	6.32
	Selenium (Se)-Total (mg/L)	0.00026	0.00059	<0.010 DLA	<0.010 DLA	<0.00050 DLA
	Silicon (Si)-Total (mg/L)	5.27	3.81	13.7	12.1	13.3
	Silver (Ag)-Total (mg/L)	<0.000020 DLA	<0.000010	<0.0010 DLA	<0.0010 DLA	<0.000050 DLA
	Sodium (Na)-Total (mg/L)	14.4	7.64	53.1	43.5	14.2

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1475049-56	L1475049-57	L1475049-58	L1475049-59	L1475049-60
	Description	Water	Water	Water	Water	Water
	Sampled Date	21-JUN-14	21-JUN-14	21-JUN-14	19-JUN-14	18-JUN-14
	Sampled Time	09:15	10:08	10:44	13:01	12:22
	Client ID	P09-LCD4	SRK08-11B	SRK08-11A	DUP-6	DUP-3
Grouping	**Analyte**					
WATER						
Physical Tests	Conductivity (uS/cm)	869	1150	1110	9740	7370
	Hardness (as CaCO3) (mg/L)	344	705	676	6270	4580
	pH (pH)	8.34	8.00	8.14	3.96	5.81
	Total Suspended Solids (mg/L)	1200	6.2	2.2	2.6	146
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	<1.0	5.4	2.7	2210	1540
	Alkalinity, Total (as CaCO3) (mg/L)	46.2	153	179	<1.0	25.8
	Chloride (Cl) (mg/L)	<2.5 DLA	<5.0 DLA	<5.0 DLA	<25 DLA	<25 DLA
	Sulfate (SO4) (mg/L)	161	570	521	9990	7180
	Anion Sum (meq/L)	4.27	14.9	14.4	208	150
	Cation Sum (meq/L)	10.2	14.5	13.9	190	160
	Cation - Anion Balance (%)	41.0	-1.4	-1.8	-4.5	3.2
Total Metals	Aluminum (Al)-Total (mg/L)	6.36	0.110	0.0651	23.6 DLA	<0.30 DLA
	Antimony (Sb)-Total (mg/L)	0.00203	<0.00010	0.00011	<0.020 DLA	<0.010 DLA
	Arsenic (As)-Total (mg/L)	0.0217	0.00025	0.00020	<0.020 DLA	0.153
	Barium (Ba)-Total (mg/L)	0.269	0.0412	0.121	0.019	0.0125
	Beryllium (Be)-Total (mg/L)	0.00030	<0.00010	<0.00010	<0.020 DLA	<0.010 DLA
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.10 DLA	<0.050 DLA
	Boron (B)-Total (mg/L)	0.019	<0.010	<0.010	<2.0 DLA	<1.0 DLA
	Cadmium (Cd)-Total (mg/L)	0.000264	0.000552	0.000032	0.442	<0.0010
	Calcium (Ca)-Total (mg/L)	92.2	184	190	387	434
	Chromium (Cr)-Total (mg/L)	0.0210	0.00030	0.00028	<0.020 DLA	<0.010 DLA
	Cobalt (Co)-Total (mg/L)	0.00698	0.00049	<0.00010	2.28	1.05
	Copper (Cu)-Total (mg/L)	0.0178	0.00170	0.00128	0.31	<0.050 DLA
	Iron (Fe)-Total (mg/L)	11.1	0.210	0.084	363	892
	Lead (Pb)-Total (mg/L)	0.120	0.000482	0.000775	0.111	0.0057
	Lithium (Li)-Total (mg/L)	0.0167	0.0125	0.0140	0.16	0.060
	Magnesium (Mg)-Total (mg/L)	26.9	56.7	43.6	1250	829
	Manganese (Mn)-Total (mg/L)	0.991	0.369	0.00284	146	84.5
	Mercury (Hg)-Total (mg/L)	0.000047	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	0.00564	0.000193	0.000219	<0.010 DLA	<0.0050 DLA
	Nickel (Ni)-Total (mg/L)	0.0241	0.0117	0.00219	2.50	0.910
	Phosphorus (P)-Total (mg/L)	0.256	<0.050	<0.050	<0.25 DLA	<0.15 DLA
	Potassium (K)-Total (mg/L)	2.72	3.66	3.84	17.8	9.07
	Selenium (Se)-Total (mg/L)	0.00027	0.00012	0.00023	<0.020 DLA	<0.010 DLA
	Silicon (Si)-Total (mg/L)	15.9	7.15	6.76	23.6	11.5
	Silver (Ag)-Total (mg/L)	0.000240	<0.000010	0.000015	<0.0020 DLA	<0.0010 DLA
	Sodium (Na)-Total (mg/L)	68.5	8.12	7.18	57	44.3

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1475049-61 Water 18-JUN-14 08:30 DUP-2	L1475049-62 Water 19-JUN-14 11:16 DUP-4	L1475049-63 Water 19-JUN-14 10:03 DUP-5	L1475049-64 Water 17-JUN-14 18:22 DUP-1	L1475049-65 Water 20-JUN-14 09:50 DUP-7
WATER						
Physical Tests	Conductivity (uS/cm)	11100	1350	1340	271	378
	Hardness (as CaCO3) (mg/L)	9730	867	736	136	205
	pH (pH)	6.53	8.14	7.79	7.93	8.22
	Total Suspended Solids (mg/L)	21.0	5.6	11.2	2.4	12.6
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	1130	4.2	27.0	4.1	1.3
	Alkalinity, Total (as CaCO3) (mg/L)	131	297	688	83.5	173
	Chloride (Cl) (mg/L)	<25 DLA	<5.0 DLA	5.3	<0.50	<0.50
	Sulfate (SO4) (mg/L)	11700	569	247	63.4	41.3
	Anion Sum (meq/L)	246	17.8	19.0	2.99	4.32
	Cation Sum (meq/L)	230	17.8	17.6	3.19	4.48
	Cation - Anion Balance (%)	-3.2	0.1	-3.8	3.3	1.8
Total Metals	Aluminum (Al)-Total (mg/L)	0.98	0.152	0.0735	0.0289	0.277
	Antimony (Sb)-Total (mg/L)	<0.010 DLA	<0.00010	<0.00010	<0.00010	0.00068
	Arsenic (As)-Total (mg/L)	<0.010 DLA	0.00043	0.00104	0.00253	0.115
	Barium (Ba)-Total (mg/L)	0.0244	0.0283	0.107	0.0584	0.0462
	Beryllium (Be)-Total (mg/L)	<0.010 DLA	<0.00010	0.00018	<0.00010	<0.00010
	Bismuth (Bi)-Total (mg/L)	<0.050 DLA	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Total (mg/L)	<1.0 DLA	<0.010	0.021	<0.010	<0.010
	Cadmium (Cd)-Total (mg/L)	0.575	0.000034	<0.000010	<0.000010	0.000039
	Calcium (Ca)-Total (mg/L)	420	267	171	14.4	60.4
	Chromium (Cr)-Total (mg/L)	<0.010 DLA	0.00098	0.00032	0.00033	0.00055
	Cobalt (Co)-Total (mg/L)	2.79	0.00044	0.00012	0.00094	0.00036
	Copper (Cu)-Total (mg/L)	<0.050 DLA	0.00164	<0.00050	<0.00050	0.00216
	Iron (Fe)-Total (mg/L)	0.821	0.259	2.54	3.52	2.24
	Lead (Pb)-Total (mg/L)	<0.0050 DLA	0.000325	0.000200	0.000127	0.0243
	Lithium (Li)-Total (mg/L)	0.182	0.0110	0.0991	0.0177	0.00762
	Magnesium (Mg)-Total (mg/L)	1830	52.1	67.6	23.6	11.7
	Manganese (Mn)-Total (mg/L)	186	0.0111	0.356	1.53	0.0860
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	<0.0050 DLA	0.00153	0.000217	0.000303	0.00984
	Nickel (Ni)-Total (mg/L)	4.43	0.0198	<0.00050	0.00619	0.00076
	Phosphorus (P)-Total (mg/L)	<0.25 DLA	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Total (mg/L)	16.8	5.13	4.11	2.03	1.14
	Selenium (Se)-Total (mg/L)	<0.010 DLA	0.00112	<0.00010	<0.00010	<0.00010
	Silicon (Si)-Total (mg/L)	13.5	6.52	8.52	7.51	6.94
	Silver (Ag)-Total (mg/L)	<0.0010 DLA	<0.000010	0.000069	0.000011	0.000020
	Sodium (Na)-Total (mg/L)	71.0	8.24	58.6	2.94	5.76

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1475049-66	L1475049-67			
	Description	Water	Water			
	Sampled Date	18-JUN-14				
	Sampled Time	16:56				
	Client ID	FIELD BLANK	TRIP BLANK			
Grouping	**Analyte**					
WATER						
Physical Tests	Conductivity (uS/cm)	<2.0	<2.0			
	Hardness (as CaCO3) (mg/L)	<0.50	<0.50			
	pH (pH)	5.57	5.79			
	Total Suspended Solids (mg/L)	<1.0	<1.0			
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	<1.0	1.3			
	Alkalinity, Total (as CaCO3) (mg/L)	<2.0	<2.0			
	Chloride (Cl) (mg/L)	<0.50	<0.50			
	Sulfate (SO4) (mg/L)	<0.50	<0.50			
	Anion Sum (meq/L)	<0.10	<0.10			
	Cation Sum (meq/L)	<0.10	<0.10			
	Cation - Anion Balance (%)	0.0	0.0			
Total Metals	Aluminum (Al)-Total (mg/L)	<0.0030	<0.0030			
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010			
	Arsenic (As)-Total (mg/L)	<0.00010	<0.00010			
	Barium (Ba)-Total (mg/L)	<0.000050	<0.000050			
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00010			
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050			
	Boron (B)-Total (mg/L)	<0.010	<0.010			
	Cadmium (Cd)-Total (mg/L)	<0.000010	<0.000010			
	Calcium (Ca)-Total (mg/L)	<0.050	<0.050			
	Chromium (Cr)-Total (mg/L)	<0.00010	<0.00010			
	Cobalt (Co)-Total (mg/L)	<0.00010	<0.00010			
	Copper (Cu)-Total (mg/L)	<0.00050	<0.00050			
	Iron (Fe)-Total (mg/L)	<0.010	<0.010			
	Lead (Pb)-Total (mg/L)	<0.000050	<0.000050			
	Lithium (Li)-Total (mg/L)	<0.00050	<0.00050			
	Magnesium (Mg)-Total (mg/L)	<0.10	<0.10			
	Manganese (Mn)-Total (mg/L)	<0.000050	<0.000050			
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010			
	Molybdenum (Mo)-Total (mg/L)	<0.000050	<0.000050			
	Nickel (Ni)-Total (mg/L)	<0.00050	<0.00050			
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050			
	Potassium (K)-Total (mg/L)	<0.10	<0.10			
	Selenium (Se)-Total (mg/L)	<0.00010	<0.00010			
	Silicon (Si)-Total (mg/L)	<0.050	<0.050			
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010			
	Sodium (Na)-Total (mg/L)	<0.050	<0.050			

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1475049-1	L1475049-2	L1475049-3	L1475049-4	L1475049-5
	Description	Water	Water	Water	Water	Water
	Sampled Date	18-JUN-14	21-JUN-14	20-JUN-14	20-JUN-14	20-JUN-14
	Sampled Time	17:50	08:50	14:45	15:26	12:25
	Client ID	SRK08-SP8B	SRK08-10A	P09-GS1A	P09-GS1B	SRK05-5C
Grouping	**Analyte**					
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	0.629	1.58	0.522	1.79	0.690
	Sulfur (S)-Total (mg/L)	193	565	162	248	47.3
	Thallium (Tl)-Total (mg/L)	<0.000010	0.000086	0.00352	0.000079	0.000033
	Tin (Sn)-Total (mg/L)	0.00079	0.00183	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)	<0.010	0.115	<0.010	<0.010	0.033
	Uranium (U)-Total (mg/L)	0.00114	0.0351	0.0158	0.00332	0.00222
	Vanadium (V)-Total (mg/L)	<0.0010	<0.0050 DLA	<0.0010	<0.0010	0.0030
	Zinc (Zn)-Total (mg/L)	0.266	2.38	3.18	0.313	0.0181
	Zirconium (Zr)-Total (mg/L)	<0.00080	<0.0040 DLA	<0.00080	<0.00080	<0.00080
Dissolved Metals	Dissolved Mercury Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0041	0.0058	0.0024	0.0014	0.0024
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	0.00053	0.00974	0.00042	<0.00010
	Arsenic (As)-Dissolved (mg/L)	0.00048	<0.00050 DLA	0.0953	1.79	0.00426
	Barium (Ba)-Dissolved (mg/L)	0.0117	0.0240	0.00903	0.0249	0.0684
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00050 DLA	<0.00010	<0.00010	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.0025 DLA	<0.00050	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)	<0.010	<0.050 DLA	<0.010	0.013	0.011
	Cadmium (Cd)-Dissolved (mg/L)	0.000077	0.00148	0.00148	0.000055	0.000027
	Calcium (Ca)-Dissolved (mg/L)	186	705	172	246	73.8
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	0.00090	<0.00010	<0.00010	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	0.00454	0.00208	0.0333	0.00237	0.00031
	Copper (Cu)-Dissolved (mg/L)	0.00030	0.0031	<0.00020	<0.00020	<0.00020
	Iron (Fe)-Dissolved (mg/L)	9.12	<0.010	2.60	4.35	0.176
	Lead (Pb)-Dissolved (mg/L)	<0.000050	0.00136	0.0385	0.000059	0.000080
	Lithium (Li)-Dissolved (mg/L)	0.0487	0.0192	0.00667	0.0126	0.00754
	Magnesium (Mg)-Dissolved (mg/L)	103	105	69.8	90.4	21.0
	Manganese (Mn)-Dissolved (mg/L)	2.64	0.0442	1.55	0.644	0.551
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.000076	0.00080	0.00183	0.00339	0.0198
	Nickel (Ni)-Dissolved (mg/L)	0.00971	0.0333	0.0826	0.0164	0.00119
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.050	0.074	<0.050
	Potassium (K)-Dissolved (mg/L)	3.71	16.5	3.43	2.68	1.74
	Selenium (Se)-Dissolved (mg/L)	<0.00010	<0.00050 DLA	<0.00010	<0.00010	<0.00010
	Silicon (Si)-Dissolved (mg/L)	9.74	9.90	1.81	7.33	5.07
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000050 DLA	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	12.2	151	14.0	18.0	18.5

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1475049-6 Water 20-JUN-14 10:45 SRK05-07	L1475049-7 Water 20-JUN-14 10:20 P09-VC1	L1475049-8 Water 20-JUN-14 09:50 P09-VC2	L1475049-9 Water 17-JUN-14 18:59 SRK08-SP7A	L1475049-10 Water 17-JUN-14 18:22 SRK08-SP7B
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	1.49	0.567	0.856	0.315	0.118
	Sulfur (S)-Total (mg/L)	618	17.0	13.2	79.3	20.4
	Thallium (Tl)-Total (mg/L)	<0.000020 DLA	0.000011	0.000011	<0.000010	<0.000010
	Tin (Sn)-Total (mg/L)	<0.00020 DLA	0.00021	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)	<0.020 DLA	<0.010	0.011	<0.010	<0.010
	Uranium (U)-Total (mg/L)	0.0316	0.00609	0.00415	0.000184	0.000137
	Vanadium (V)-Total (mg/L)	<0.0020 DLA	0.0015	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Total (mg/L)	<0.0060 DLA	0.0444	0.106	0.287	1.49
	Zirconium (Zr)-Total (mg/L)	<0.0016 DLA	<0.00080	<0.00080	<0.00080	<0.00080
Dissolved Metals	Dissolved Mercury Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0024	0.0021	0.0014	0.0057	0.0135
	Antimony (Sb)-Dissolved (mg/L)	0.00028	<0.00010	0.00044	<0.00010	<0.00010
	Arsenic (As)-Dissolved (mg/L)	0.00185	0.00192	0.114	0.00408	0.00223
	Barium (Ba)-Dissolved (mg/L)	0.0476	0.0200	0.0411	0.0138	0.0576
	Beryllium (Be)-Dissolved (mg/L)	<0.00020 DLA	<0.00010	<0.00010	0.00019	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	<0.0010 DLA	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)	<0.020 DLA	<0.010	<0.010	<0.010	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	0.000104	<0.000010	<0.000010	0.000019	<0.000010
	Calcium (Ca)-Dissolved (mg/L)	478	45.9	63.0	81.2	14.4
	Chromium (Cr)-Dissolved (mg/L)	0.00032	<0.00010	<0.00010	<0.00010	0.00016
	Cobalt (Co)-Dissolved (mg/L)	0.00050	<0.00010	0.00024	0.00382	0.00096
	Copper (Cu)-Dissolved (mg/L)	0.00089	<0.00020	<0.00020	<0.00020	0.00024
	Iron (Fe)-Dissolved (mg/L)	<0.010	0.420	1.89	9.76	3.30
	Lead (Pb)-Dissolved (mg/L)	0.00015	<0.000050	0.000203	<0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.0101	0.00321	0.00799	0.0350	0.0180
	Magnesium (Mg)-Dissolved (mg/L)	302	8.99	12.1	30.6	23.9
	Manganese (Mn)-Dissolved (mg/L)	0.00649	0.0108	0.0837	0.814	1.55
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.00047	0.000393	0.00969	0.000122	0.000285
	Nickel (Ni)-Dissolved (mg/L)	0.0129	<0.00050	<0.00050	0.00903	0.00619
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	2.45	1.03	1.20	3.83	1.93
	Selenium (Se)-Dissolved (mg/L)	0.00046	<0.00010	<0.00010	<0.00010	<0.00010
	Silicon (Si)-Dissolved (mg/L)	6.27	5.74	6.56	11.5	7.50
	Silver (Ag)-Dissolved (mg/L)	<0.000020 DLA	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	13.3	19.3	6.00	7.13	2.96

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1475049-11 Water 19-JUN-14 08:33 P01-01A	L1475049-12 Water 19-JUN-14 08:57 P01-01B	L1475049-13 Water 19-JUN-14 10:03 P09-C3	L1475049-14 Water 19-JUN-14 11:54 P01-11	L1475049-15 Water 19-JUN-14 13:04 P09-C2
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	0.897	0.890	2.30	1.46	4.44
	Sulfur (S)-Total (mg/L)	244	192	76.9	570	8.88
	Thallium (Tl)-Total (mg/L)	0.000016	<0.000010	<0.000010	<0.000050 DLA	<0.000020 DLA
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	0.00012	<0.00050 DLA	<0.00020 DLA
	Titanium (Ti)-Total (mg/L)	<0.010	<0.010	<0.010	<0.050 DLA	0.030
	Uranium (U)-Total (mg/L)	0.00748	0.0101	0.000935	0.0105	0.000617
	Vanadium (V)-Total (mg/L)	<0.0010	<0.0010	<0.0010	<0.0050 DLA	<0.0020 DLA
	Zinc (Zn)-Total (mg/L)	0.0036	<0.0030	<0.0030	0.020	<0.0060 DLA
	Zirconium (Zr)-Total (mg/L)	<0.00080	0.00143	0.0327	<0.0040 DLA	0.0746
Dissolved Metals	Dissolved Mercury Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0016	<0.0010	0.0019	<0.0050 DLA	0.0142
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00050 DLA	<0.00020 DLA
	Arsenic (As)-Dissolved (mg/L)	0.00021	0.00204	0.00105	0.0386	0.00021
	Barium (Ba)-Dissolved (mg/L)	0.0432	0.0485	0.105	0.0269	0.733
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00010	0.00017	<0.00050 DLA	0.00268
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.0025 DLA	<0.0010 DLA
	Boron (B)-Dissolved (mg/L)	<0.010	<0.010	0.017	<0.050 DLA	0.095
	Cadmium (Cd)-Dissolved (mg/L)	0.000834	<0.000010	<0.000010	<0.000050 DLA	<0.000020 DLA
	Calcium (Ca)-Dissolved (mg/L)	302	257	178	667	221
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00050 DLA	<0.00020 DLA
	Cobalt (Co)-Dissolved (mg/L)	0.00202	0.00022	<0.00010	0.0115	<0.00020 DLA
	Copper (Cu)-Dissolved (mg/L)	0.00035	<0.00020	<0.00020	<0.0010 DLA	<0.00040 DLA
	Iron (Fe)-Dissolved (mg/L)	<0.010	0.713	2.51	73.0	3.33
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.00025 DLA	<0.00010 DLA
	Lithium (Li)-Dissolved (mg/L)	0.0132	0.0118	0.101	0.0235	0.761
	Magnesium (Mg)-Dissolved (mg/L)	66.8	52.3	70.5	147	106
	Manganese (Mn)-Dissolved (mg/L)	7.70	0.164	0.365	41.0	0.151
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.000808	0.000853	0.000155	0.00110	<0.00010 DLA
	Nickel (Ni)-Dissolved (mg/L)	0.0103	0.00068	<0.00050	0.0254	<0.0010 DLA
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	6.40	4.37	4.07	8.66	10.9
	Selenium (Se)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00050 DLA	<0.00020 DLA
	Silicon (Si)-Dissolved (mg/L)	7.03	5.84	8.92	12.6	10.0
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	0.000068	<0.000050 DLA	0.000277
	Sodium (Na)-Dissolved (mg/L)	17.9	25.0	65.2	50.2	340

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1475049-16	L1475049-17	L1475049-18	L1475049-19	L1475049-20
	Description	Water	Water	Water	Water	Water
	Sampled Date	19-JUN-14	19-JUN-14	19-JUN-14	19-JUN-14	19-JUN-14
	Sampled Time	14:00	14:50	18:05	17:40	16:40
	Client ID	P05-01-05	P05-01-03	V36	P2001-3	V35
Grouping	**Analyte**					
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	1.69	1.69	1.60	0.663	1.24
	Sulfur (S)-Total (mg/L)	661	655	424	41.5	554
	Thallium (Tl)-Total (mg/L)	<0.000050 DLA	<0.000050 DLA	0.000059	0.000013	0.000026
	Tin (Sn)-Total (mg/L)	<0.00050 DLA	<0.00050 DLA	0.00049	<0.00010	<0.00020 DLA
	Titanium (Ti)-Total (mg/L)	<0.050 DLA	<0.050 DLA	<0.020 DLA	<0.010	<0.020 DLA
	Uranium (U)-Total (mg/L)	0.00764	0.00119	0.0526	0.0127	0.102
	Vanadium (V)-Total (mg/L)	<0.0050 DLA	<0.0050 DLA	<0.0020 DLA	<0.0010	<0.0020 DLA
	Zinc (Zn)-Total (mg/L)	<0.015 DLA	<0.015 DLA	0.0862	0.0061	0.0094
	Zirconium (Zr)-Total (mg/L)	<0.0040 DLA	<0.0040 DLA	0.0021	<0.00080	<0.0016 DLA
Dissolved Metals	Dissolved Mercury Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0069	<0.0050 DLA	<0.0020 DLA	2.89	<0.0020 DLA
	Antimony (Sb)-Dissolved (mg/L)	<0.00050 DLA	<0.00050 DLA	<0.00020 DLA	0.00018	0.00033
	Arsenic (As)-Dissolved (mg/L)	0.00587	<0.00050 DLA	0.00165	0.00690	0.00067
	Barium (Ba)-Dissolved (mg/L)	0.0190	0.0241	0.00828	0.116	0.0111
	Beryllium (Be)-Dissolved (mg/L)	<0.00050 DLA	<0.00050 DLA	<0.00020 DLA	0.00014	<0.00020 DLA
	Bismuth (Bi)-Dissolved (mg/L)	<0.0025 DLA	<0.0025 DLA	<0.0010 DLA	<0.00050	<0.0010 DLA
	Boron (B)-Dissolved (mg/L)	<0.050 DLA	<0.050 DLA	<0.020 DLA	0.023	<0.020 DLA
	Cadmium (Cd)-Dissolved (mg/L)	0.000481	<0.000050 DLA	0.000396	0.000735	0.000152
	Calcium (Ca)-Dissolved (mg/L)	686	724	381	101	494
	Chromium (Cr)-Dissolved (mg/L)	<0.00050 DLA	<0.00050 DLA	<0.00020 DLA	0.00660	0.00041
	Cobalt (Co)-Dissolved (mg/L)	0.0249	<0.00050 DLA	0.00128	0.00234	<0.00020 DLA
	Copper (Cu)-Dissolved (mg/L)	<0.0010 DLA	<0.0010 DLA	0.00167	0.00952	0.00062
	Iron (Fe)-Dissolved (mg/L)	33.0	34.6	<0.010	2.96 DTC	<0.010
	Lead (Pb)-Dissolved (mg/L)	<0.00025 DLA	<0.00025 DLA	0.00210	0.00385	<0.00010 DLA
	Lithium (Li)-Dissolved (mg/L)	0.0290	0.0328	0.0453	0.0127	0.0284
	Magnesium (Mg)-Dissolved (mg/L)	159	155	249	66.0	292
	Manganese (Mn)-Dissolved (mg/L)	44.5	46.5	0.0814	0.715	0.00638
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.00096	0.00076	0.00107	0.00839	0.00119
	Nickel (Ni)-Dissolved (mg/L)	0.0236	<0.0025 DLA	0.0102	0.00978	0.0060
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.050	0.124	<0.050
	Potassium (K)-Dissolved (mg/L)	8.75	8.11	5.06	4.09 DTC	5.01
	Selenium (Se)-Dissolved (mg/L)	<0.00050 DLA	<0.00050 DLA	0.00048	<0.00010	0.00110
	Silicon (Si)-Dissolved (mg/L)	11.7	11.5	6.58	14.2 DTC	6.16
	Silver (Ag)-Dissolved (mg/L)	<0.000050 DLA	<0.000050 DLA	<0.000020 DLA	0.000045	<0.000020 DLA
	Sodium (Na)-Dissolved (mg/L)	35.6	38.3	9.22	32.5	9.51

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1475049-21	L1475049-22	L1475049-23	L1475049-24	L1475049-25
	Description	Water	Water	Water	Water	Water
	Sampled Date	19-JUN-14	19-JUN-14	19-JUN-14	19-JUN-14	19-JUN-14
	Sampled Time	15:56	11:16	08:31	08:46	09:16
	Client ID	V34	SRK08-P9	BH13B	BH14B	BH14A
Grouping	**Analyte**					
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	1.60	3.28	0.860	3.60	3.08
	Sulfur (S)-Total (mg/L)	169	193	188	694	751
	Thallium (Tl)-Total (mg/L)	0.000028	0.000013	<0.000010	<0.000020 DLA	0.000116
	Tin (Sn)-Total (mg/L)	0.00037	<0.00010	<0.00010	0.00022	<0.00050 DLA
	Titanium (Ti)-Total (mg/L)	0.060	<0.010	<0.010	<0.020 DLA	<0.050 DLA
	Uranium (U)-Total (mg/L)	0.0199	0.00830	0.00155	0.211	0.132
	Vanadium (V)-Total (mg/L)	0.0050	<0.0010	<0.0010	<0.0020 DLA	<0.0050 DLA
	Zinc (Zn)-Total (mg/L)	0.0263	0.0047	<0.0030	0.433	21.5
	Zirconium (Zr)-Total (mg/L)	0.00271	<0.00080	<0.00080	<0.0016 DLA	<0.0040 DLA
Dissolved Metals	Dissolved Mercury Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0019	0.0011	0.0067	<0.0020 DLA	<0.0050 DLA
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00020 DLA	<0.00050 DLA
	Arsenic (As)-Dissolved (mg/L)	0.00167	0.00024	<0.00010	<0.00020 DLA	<0.00050 DLA
	Barium (Ba)-Dissolved (mg/L)	0.0419	0.0258	0.0304	0.0171	0.0155
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00020 DLA	<0.00050 DLA
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.0010 DLA	<0.0025 DLA
	Boron (B)-Dissolved (mg/L)	0.021	<0.010	<0.010	<0.020 DLA	<0.050 DLA
	Cadmium (Cd)-Dissolved (mg/L)	<0.000010	0.000026	0.000045	0.000097	0.00260
	Calcium (Ca)-Dissolved (mg/L)	219	278	152	544	544
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	0.00031	<0.00010	<0.00020 DLA	<0.00050 DLA
	Cobalt (Co)-Dissolved (mg/L)	0.00235	0.00023	0.00286	<0.00020 DLA	<0.00050 DLA
	Copper (Cu)-Dissolved (mg/L)	<0.00020	0.00101	0.00371	0.00060	0.0027
	Iron (Fe)-Dissolved (mg/L)	1.68	<0.010	<0.010	<0.010	<0.010
	Lead (Pb)-Dissolved (mg/L)	<0.000050	0.000151	<0.000050	0.00735	0.0636
	Lithium (Li)-Dissolved (mg/L)	0.0287	0.0110	0.0213	0.0768	0.102
	Magnesium (Mg)-Dissolved (mg/L)	232	50.1	79.8	331	429
	Manganese (Mn)-Dissolved (mg/L)	0.0568	0.00346	0.00275	0.00243	0.0303
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.00127	0.00140	0.00287	0.00020	0.00033
	Nickel (Ni)-Dissolved (mg/L)	0.00527	0.0184	0.00629	0.0065	0.271
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	4.97	5.55	3.14	4.62	4.21
	Selenium (Se)-Dissolved (mg/L)	<0.00010	0.00106	0.00481	0.00054	0.00086
	Silicon (Si)-Dissolved (mg/L)	6.96	6.23	2.91	9.13	10.3
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000020 DLA	<0.000050 DLA
	Sodium (Na)-Dissolved (mg/L)	7.99	8.63	4.56	17.6	19.1

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1475049-26 Water 18-JUN-14 11:50 P09-SIS4	L1475049-27 Water 18-JUN-14 12:30 P09-SIS5	L1475049-28 Water 18-JUN-14 11:36 SRK05-SP-4A	L1475049-29 Water 18-JUN-14 10:30 P09-SIS3	L1475049-30 Water 18-JUN-14 08:30 P09-SIS2
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	1.88	1.95	0.564	2.48	2.27
	Sulfur (S)-Total (mg/L)	1480	1150	209	3810	3770
	Thallium (Tl)-Total (mg/L)	DLA <0.00020	DLA <0.000050	DLA <0.000050	DLA <0.0010	DLA <0.0010
	Tin (Sn)-Total (mg/L)	DLA <0.0020	DLA <0.00050	DLA <0.00050	DLA <0.010	DLA <0.010
	Titanium (Ti)-Total (mg/L)	DLA <0.20	DLA <0.050	DLA <0.050	DLA <1.0	DLA <1.0
	Uranium (U)-Total (mg/L)	0.00948	0.0172	0.00174	0.0029	0.0014
	Vanadium (V)-Total (mg/L)	DLA <0.020	DLA <0.0050	DLA <0.0050	DLA <0.10	DLA <0.10
	Zinc (Zn)-Total (mg/L)	107	13.7	25.6	1000	888
	Zirconium (Zr)-Total (mg/L)	DLA <0.016	DLA <0.0040	DLA <0.0040	DLA <0.080	DLA <0.080
Dissolved Metals	Dissolved Mercury Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	DLA <0.020	0.0131	0.0198	0.11	0.83
	Antimony (Sb)-Dissolved (mg/L)	DLA <0.0020	DLA <0.00050	DLA <0.00050	DLA <0.010	DLA <0.010
	Arsenic (As)-Dissolved (mg/L)	DLA <0.0020	0.00063	DLA <0.00050	DLA <0.010	DLA <0.010
	Barium (Ba)-Dissolved (mg/L)	0.0109	0.0173	0.00955	0.0182	0.0211
	Beryllium (Be)-Dissolved (mg/L)	DLA <0.0020	DLA <0.00050	0.00064	DLA <0.010	DLA <0.010
	Bismuth (Bi)-Dissolved (mg/L)	DLA <0.010	DLA <0.0025	DLA <0.0025	DLA <0.050	DLA <0.050
	Boron (B)-Dissolved (mg/L)	DLA <0.20	DLA <0.050	DLA <0.050	DLA <1.0	DLA <1.0
	Cadmium (Cd)-Dissolved (mg/L)	0.0191	0.000676	0.00576	0.581	0.569
	Calcium (Ca)-Dissolved (mg/L)	396	470	138	461	427
	Chromium (Cr)-Dissolved (mg/L)	DLA <0.0020	DLA <0.00050	DLA <0.00050	DLA <0.010	DLA <0.010
	Cobalt (Co)-Dissolved (mg/L)	DLA <0.0020	0.0426	0.0693	2.82	2.73
	Copper (Cu)-Dissolved (mg/L)	0.0048	DLA <0.0010	0.0010	DLA <0.020	DLA <0.020
	Iron (Fe)-Dissolved (mg/L)	0.036	7.26	8.51	0.141	0.249
	Lead (Pb)-Dissolved (mg/L)	DLA <0.0010	DLA <0.00025	0.00027	DLA <0.0050	DLA <0.0050
	Lithium (Li)-Dissolved (mg/L)	0.102	0.0501	0.0790	0.218	0.217
	Magnesium (Mg)-Dissolved (mg/L)	914	652	123	2030	1950
	Manganese (Mn)-Dissolved (mg/L)	5.15	41.4	6.76	212	180
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	DLA <0.0010	0.00099	DLA <0.00025	DLA <0.0050	DLA <0.0050
	Nickel (Ni)-Dissolved (mg/L)	0.695	0.167	0.172	5.09	4.46
	Phosphorus (P)-Dissolved (mg/L)	DLA <0.15	DLA <0.10	<0.050	DLA <0.25	DLA <0.25
	Potassium (K)-Dissolved (mg/L)	8.58	8.20	6.05	17.0	18.2
	Selenium (Se)-Dissolved (mg/L)	DLA <0.0020	DLA <0.00050	DLA <0.00050	DLA <0.010	DLA <0.010
	Silicon (Si)-Dissolved (mg/L)	10.6	10.1	13.5	13.7	14.0
	Silver (Ag)-Dissolved (mg/L)	DLA <0.00020	DLA <0.000050	DLA <0.000050	DLA <0.0010	DLA <0.0010
	Sodium (Na)-Dissolved (mg/L)	32.1	66.0	11.2	57.1	69.7

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1475049-31	L1475049-32	L1475049-33	L1475049-34	L1475049-35
	Description	Water	Water	Water	Water	Water
	Sampled Date	18-JUN-14	18-JUN-14	18-JUN-14	18-JUN-14	18-JUN-14
	Sampled Time	09:20	15:45	17:50	16:56	09:00
	Client ID	P09-SIS1	P96-6	SRK08-SP8A	P96-7	S1A
Grouping	**Analyte**					
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	2.29	0.730	0.971	0.522	1.96
	Sulfur (S)-Total (mg/L)	2480	313	246	592	1290
	Thallium (Tl)-Total (mg/L)	DLA <0.00020	DLA <0.000020	<0.000010	DLA <0.000020	DLA <0.00010
	Tin (Sn)-Total (mg/L)	DLA <0.0020	DLA <0.00020	0.00046	DLA <0.00020	DLA <0.0010
	Titanium (Ti)-Total (mg/L)	DLA <0.20	DLA <0.020	<0.010	DLA <0.020	DLA <0.10
	Uranium (U)-Total (mg/L)	0.00740	0.0587	0.00114	0.0200	0.00481
	Vanadium (V)-Total (mg/L)	DLA <0.020	DLA <0.0020	<0.0010	DLA <0.0020	DLA <0.010
	Zinc (Zn)-Total (mg/L)	166	0.395	0.278	DLA <0.0060	64.0
	Zirconium (Zr)-Total (mg/L)	DLA <0.016	DLA <0.0016	0.00585	DLA <0.0016	DLA <0.0080
Dissolved Metals	Dissolved Mercury Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.031	DLA <0.0020	0.0039	0.0020	0.044
	Antimony (Sb)-Dissolved (mg/L)	DLA <0.0020	DLA <0.00020	<0.00010	DLA <0.00020	DLA <0.0010
	Arsenic (As)-Dissolved (mg/L)	DLA <0.0020	DLA <0.00020	0.00375	DLA <0.00020	DLA <0.0010
	Barium (Ba)-Dissolved (mg/L)	0.0229	0.0205	0.00995	0.00908	0.0367
	Beryllium (Be)-Dissolved (mg/L)	DLA <0.0020	DLA <0.00020	0.00024	DLA <0.00020	DLA <0.0010
	Bismuth (Bi)-Dissolved (mg/L)	DLA <0.010	DLA <0.0010	<0.00050	DLA <0.0010	DLA <0.0050
	Boron (B)-Dissolved (mg/L)	DLA <0.20	DLA <0.020	<0.010	DLA <0.020	DLA <0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.0280	0.000284	0.000020	0.000036	0.00793
	Calcium (Ca)-Dissolved (mg/L)	535	316	236	510	529
	Chromium (Cr)-Dissolved (mg/L)	0.0045	DLA <0.00020	0.00011	0.00042	DLA <0.0010
	Cobalt (Co)-Dissolved (mg/L)	DTC 0.282	DLA <0.00020	0.00473	DLA <0.00020	0.183
	Copper (Cu)-Dissolved (mg/L)	0.0052	DLA <0.00040	<0.00020	0.00043	DLA <0.0020
	Iron (Fe)-Dissolved (mg/L)	13.6	<0.010	19.0	<0.010	43.3
	Lead (Pb)-Dissolved (mg/L)	DLA <0.0010	DLA <0.00010	<0.000050	DLA <0.00010	DLA <0.00050
	Lithium (Li)-Dissolved (mg/L)	0.218	0.0338	0.0681	0.0230	0.0949
	Magnesium (Mg)-Dissolved (mg/L)	1550	132	106	211	652
	Manganese (Mn)-Dissolved (mg/L)	88.9	0.00152	1.84	0.00028	54.2
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	0.000013
	Molybdenum (Mo)-Dissolved (mg/L)	0.0014	0.00011	0.000101	0.00099	DLA <0.00050
	Nickel (Ni)-Dissolved (mg/L)	0.738	0.0117	0.0137	DLA <0.0010	0.403
	Phosphorus (P)-Dissolved (mg/L)	DLA <0.25	<0.050	<0.050	<0.050	DLA <0.10
	Potassium (K)-Dissolved (mg/L)	7.87	4.60	3.73	4.78	8.50
	Selenium (Se)-Dissolved (mg/L)	DLA <0.0020	0.00683	<0.00010	0.00045	DLA <0.0010
	Silicon (Si)-Dissolved (mg/L)	10.6	8.90	9.26	5.73	13.1
	Silver (Ag)-Dissolved (mg/L)	DLA <0.00020	DLA <0.000020	<0.000010	DLA <0.000020	DLA <0.00010
	Sodium (Na)-Dissolved (mg/L)	53.4	5.63	14.3	14.1	23.4

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1475049-36	L1475049-37	L1475049-38	L1475049-39	L1475049-40
	Sample ID	L1475049-36	L1475049-37	L1475049-38	L1475049-39	L1475049-40
	Description	Water	Water	Water	Water	Water
	Sampled Date	18-JUN-14	18-JUN-14	18-JUN-14	18-JUN-14	18-JUN-14
	Sampled Time	12:22	17:15	16:50	15:52	13:10
	Client ID	P09-ETA-2	X25-96A	X25-96B	X24-96D	S1B
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	3.22	0.717	0.630	2.16	0.524
	Sulfur (S)-Total (mg/L)	2240	238	259	820	293
	Thallium (Tl)-Total (mg/L)	DLA <0.00050	DLA <0.000020	DLA <0.000020	0.00033	0.000036
	Tin (Sn)-Total (mg/L)	DLA <0.0050	DLA <0.00020	DLA <0.00020	DLA <0.0020	0.00089
	Titanium (Ti)-Total (mg/L)	DLA <0.50	DLA <0.020	<0.020	DLA <0.20	0.086
	Uranium (U)-Total (mg/L)	0.00349	0.0119	0.00986	0.00276	0.00118
	Vanadium (V)-Total (mg/L)	DLA <0.050	DLA <0.0020	DLA <0.0020	DLA <0.020	0.0046
	Zinc (Zn)-Total (mg/L)	447	DLA <0.0060	DLA <0.0060	0.226	12.6
	Zirconium (Zr)-Total (mg/L)	DLA <0.040	DLA <0.0016	DLA <0.0016	DLA <0.016	DLA <0.0016
Dissolved Metals	Dissolved Mercury Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.097	0.0069	DLA <0.0020	0.032	0.0118
	Antimony (Sb)-Dissolved (mg/L)	DLA <0.0050	DLA <0.00020	DLA <0.00020	DLA <0.0020	0.00060
	Arsenic (As)-Dissolved (mg/L)	0.162	0.00024	0.00072	DLA <0.0020	DLA <0.00020
	Barium (Ba)-Dissolved (mg/L)	0.0086	0.0615	0.0294	0.0289	0.0276
	Beryllium (Be)-Dissolved (mg/L)	DLA <0.0050	DLA <0.00020	DLA <0.00020	DLA <0.0020	DLA <0.00020
	Bismuth (Bi)-Dissolved (mg/L)	DLA <0.025	DLA <0.0010	DLA <0.0010	DLA <0.010	DLA <0.0010
	Boron (B)-Dissolved (mg/L)	DLA <0.50	DLA <0.020	DLA <0.020	DLA <0.20	DLA <0.020
	Cadmium (Cd)-Dissolved (mg/L)	DLA <0.00050	0.000129	0.000035	0.00700	0.00187
	Calcium (Ca)-Dissolved (mg/L)	444	285	320	697	128
	Chromium (Cr)-Dissolved (mg/L)	DLA <0.0050	DLA <0.00020	DLA <0.00020	DLA <0.0020	DLA <0.00020
	Cobalt (Co)-Dissolved (mg/L)	1.13	0.00915	0.00021	0.524	0.0246
	Copper (Cu)-Dissolved (mg/L)	DLA <0.010	DLA <0.00040	DLA <0.00040	DLA <0.0040	0.00111
	Iron (Fe)-Dissolved (mg/L)	906	2.89	1.50	12.1	13.8
	Lead (Pb)-Dissolved (mg/L)	DLA <0.0025	DLA <0.00010	DLA <0.00010	DLA <0.0010	DLA <0.00010
	Lithium (Li)-Dissolved (mg/L)	0.090	0.0044	0.0090	0.022	0.0462
	Magnesium (Mg)-Dissolved (mg/L)	802	63.6	48.4	211	173
	Manganese (Mn)-Dissolved (mg/L)	87.9	15.4	0.316	113	12.1
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	DLA <0.0025	0.00117	0.00038	DLA <0.0010	DLA <0.00010
	Nickel (Ni)-Dissolved (mg/L)	0.994	0.0048	DLA <0.0010	0.719	0.0662
	Phosphorus (P)-Dissolved (mg/L)	DLA <0.25	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	8.33	5.11	4.25	8.42	4.12
	Selenium (Se)-Dissolved (mg/L)	DLA <0.0050	DLA <0.00020	DLA <0.00020	DLA <0.0020	DLA <0.00020
	Silicon (Si)-Dissolved (mg/L)	12.0	8.54	5.45	9.26	8.65
	Silver (Ag)-Dissolved (mg/L)	DLA <0.00050	DLA <0.000020	DLA <0.000020	DLA <0.00020	DLA <0.000020
	Sodium (Na)-Dissolved (mg/L)	47.6	20.2	49.3	34.8	7.38

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1475049-41 Water 20-JUN-14 11:26 SRK05-08	L1475049-42 Water 19-JUN-14 13:26 P96-8B	L1475049-43 Water 19-JUN-14 13:01 P96-8A	L1475049-44 Water 18-JUN-14 18:00 P01-04A	L1475049-45 Water 20-JUN-14 12:25 P09-LCD6
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	1.22	4.18	3.64	1.74	0.819
	Sulfur (S)-Total (mg/L)	389	3040	3080	9.53	107
	Thallium (Tl)-Total (mg/L)	DLA <0.000020	DLA <0.0010	DLA <0.0020	<0.000010	0.000024
	Tin (Sn)-Total (mg/L)	DLA <0.00020	DLA <0.010	DLA <0.020	<0.00010	0.00011
	Titanium (Ti)-Total (mg/L)	DLA <0.020	DLA <1.0	DLA <2.0	<0.010	0.044
	Uranium (U)-Total (mg/L)	0.0243	0.0024	0.0305	0.000292	0.00378
	Vanadium (V)-Total (mg/L)	DLA <0.0020	DLA <0.10	DLA <0.20	<0.0010	0.0038
	Zinc (Zn)-Total (mg/L)	DLA <0.0060	982	1100	<0.0030	0.0194
	Zirconium (Zr)-Total (mg/L)	DLA <0.0016	DLA <0.080	DLA <0.16	0.0682	0.00460
Dissolved Metals	Dissolved Mercury Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	DLA <0.0020	4.60	22.7	0.0019	0.0015
	Antimony (Sb)-Dissolved (mg/L)	DLA <0.00020	DLA <0.010	DLA <0.020	<0.00010	<0.00010
	Arsenic (As)-Dissolved (mg/L)	0.00024	DLA <0.010	DLA <0.020	<0.00010	0.117
	Barium (Ba)-Dissolved (mg/L)	0.0114	0.0197	0.018	0.392	0.0460
	Beryllium (Be)-Dissolved (mg/L)	DLA <0.00020	DLA <0.010	DLA <0.020	0.00025	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	DLA <0.0010	DLA <0.050	DLA <0.10	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)	DLA <0.020	DLA <1.0	DLA <2.0	0.021	0.012
	Cadmium (Cd)-Dissolved (mg/L)	0.000028	0.292	0.438	<0.000010	0.000022
	Calcium (Ca)-Dissolved (mg/L)	400	417	396	129	166
	Chromium (Cr)-Dissolved (mg/L)	0.00036	DLA <0.010	DLA <0.020	<0.00010	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	DLA <0.00020	2.15	2.25	0.00012	0.00106
	Copper (Cu)-Dissolved (mg/L)	0.00247	DLA <0.020	0.310	<0.00020	<0.00020
	Iron (Fe)-Dissolved (mg/L)	<0.010	379	377	0.427	7.60
	Lead (Pb)-Dissolved (mg/L)	0.00014	0.0906	0.115	<0.000050	0.00371
	Lithium (Li)-Dissolved (mg/L)	0.0167	0.202	0.15	0.160	0.00811
	Magnesium (Mg)-Dissolved (mg/L)	218	1370	1280	44.5	50.2
	Manganese (Mn)-Dissolved (mg/L)	0.00016	143	144	0.270	0.573
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.00046	DLA <0.0050	DLA <0.010	<0.000050	0.00224
	Nickel (Ni)-Dissolved (mg/L)	0.0013	2.26	2.47	<0.00050	0.00127
	Phosphorus (P)-Dissolved (mg/L)	<0.050	DLA <0.25	DLA <0.25	<0.050	0.062
	Potassium (K)-Dissolved (mg/L)	2.15	19.9	18.2	3.14	2.60
	Selenium (Se)-Dissolved (mg/L)	0.00032	DLA <0.010	DLA <0.020	<0.00010	<0.00010
	Silicon (Si)-Dissolved (mg/L)	6.39	17.9	24.6	8.12	7.51
	Silver (Ag)-Dissolved (mg/L)	DLA <0.000020	DLA <0.0010	DLA <0.0020	0.000109	<0.000010
	Sodium (Na)-Dissolved (mg/L)	10.3	59.2	57	66.7	6.95

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1475049-46	L1475049-47	L1475049-48	L1475049-49	L1475049-50
	Description	Water	Water	Water	Water	Water
	Sampled Date	20-JUN-14	20-JUN-14	19-JUN-14	20-JUN-14	20-JUN-14
	Sampled Time	08:44	10:42	17:50	08:15	13:26
	Client ID	V37	P09-LCD1	P2001-02A	P2001-02B	BH05-9B-R
Grouping	**Analyte**					
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	0.620	0.804	2.03	1.89	1.12
	Sulfur (S)-Total (mg/L)	81.1	79.0	431	392	55.5
	Thallium (Tl)-Total (mg/L)	<0.000010	0.000015	<0.000020 DLA	0.000031	<0.000010
	Tin (Sn)-Total (mg/L)	0.00019	<0.00010	<0.00020 DLA	0.00072	<0.00010
	Titanium (Ti)-Total (mg/L)	<0.010	<0.010	<0.020 DLA	0.035	<0.010
	Uranium (U)-Total (mg/L)	0.00188	0.00794	0.0659	0.0590	0.000887
	Vanadium (V)-Total (mg/L)	<0.0010	<0.0010	<0.0020 DLA	0.0031	<0.0010
	Zinc (Zn)-Total (mg/L)	0.0098	0.0094	0.0123	0.0218	0.0049
	Zirconium (Zr)-Total (mg/L)	0.00101	<0.00080	<0.0016 DLA	<0.0016 DLA	0.00084
Dissolved Metals	Dissolved Mercury Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0017	0.0116	<0.0020 DLA	0.0028	0.0012
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	0.00014	0.00027	<0.00020 DLA	<0.00010
	Arsenic (As)-Dissolved (mg/L)	0.00133	0.104	0.00393	0.0106	0.0187
	Barium (Ba)-Dissolved (mg/L)	0.0535	0.0403	0.0218	0.0149	0.0156
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00020 DLA	<0.00020 DLA	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	<0.0010 DLA	<0.0010 DLA	<0.00050
	Boron (B)-Dissolved (mg/L)	0.037	0.012	<0.020 DLA	<0.020 DLA	0.038
	Cadmium (Cd)-Dissolved (mg/L)	0.000014	0.000042	<0.000020 DLA	<0.000020 DLA	<0.000010
	Calcium (Ca)-Dissolved (mg/L)	92.0	142	444	414	52.6
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00020 DLA	<0.00020 DLA	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	0.00054	0.00054	0.00071	0.00034	<0.00010
	Copper (Cu)-Dissolved (mg/L)	0.00024	<0.00020	<0.00040 DLA	<0.00040 DLA	0.00023
	Iron (Fe)-Dissolved (mg/L)	0.930	4.50	1.55	3.91	0.866
	Lead (Pb)-Dissolved (mg/L)	0.000057	0.0244	0.00058	0.00030	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.0277	0.00980	0.0364	0.0362	0.0220
	Magnesium (Mg)-Dissolved (mg/L)	111	39.7	235	224	23.6
	Manganese (Mn)-Dissolved (mg/L)	0.117	0.673	0.106	0.196	0.104
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.0169	0.00489	0.00064	0.00053	0.0108
	Nickel (Ni)-Dissolved (mg/L)	0.00114	0.00070	0.0059	0.0024	<0.00050
	Phosphorus (P)-Dissolved (mg/L)	0.051	0.054	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	6.29	2.74	5.07	5.04	1.90
	Selenium (Se)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00020 DLA	<0.00020 DLA	<0.00010
	Silicon (Si)-Dissolved (mg/L)	3.05	7.26	6.79	6.80	6.48
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000020 DLA	<0.000020 DLA	<0.000010
	Sodium (Na)-Dissolved (mg/L)	22.1	15.3	9.54	13.2	47.9

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1475049-51	L1475049-52	L1475049-53	L1475049-54	L1475049-55
	Description	Water	Water	Water	Water	Water
	Sampled Date	20-JUN-14	20-JUN-14	20-JUN-14	20-JUN-14	21-JUN-14
	Sampled Time	14:05	15:40	17:10	17:30	10:45
	Client ID	P96-9A	SRK05-9	SRK05-SP-5	S2B	S2A
Grouping	**Analyte**					
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	1.17	0.622	2.23	2.36	1.10
	Sulfur (S)-Total (mg/L)	559	278	3390	2810	500
	Thallium (Tl)-Total (mg/L)	<0.000020 DLA	<0.000010	<0.0010 DLA	<0.0010 DLA	<0.000050 DLA
	Tin (Sn)-Total (mg/L)	<0.00020 DLA	<0.00010	<0.010 DLA	<0.010 DLA	<0.00050 DLA
	Titanium (Ti)-Total (mg/L)	<0.020 DLA	<0.010	<1.0 DLA	<1.0 DLA	<0.050 DLA
	Uranium (U)-Total (mg/L)	0.0433	0.0224	0.0030	<0.0010 DLA	0.00406
	Vanadium (V)-Total (mg/L)	<0.0020 DLA	<0.0010	<0.10 DLA	<0.10 DLA	<0.0050 DLA
	Zinc (Zn)-Total (mg/L)	0.0855	0.0043	783	557	21.7
	Zirconium (Zr)-Total (mg/L)	<0.0016 DLA	<0.00080	<0.080 DLA	<0.080 DLA	<0.0040 DLA
Dissolved Metals	Dissolved Mercury Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0030	0.0021	<0.10 DLA	<0.10 DLA	0.0158
	Antimony (Sb)-Dissolved (mg/L)	<0.00020 DLA	0.00025	<0.010 DLA	<0.010 DLA	<0.00050 DLA
	Arsenic (As)-Dissolved (mg/L)	0.00034	0.00073	<0.010 DLA	<0.010 DLA	<0.00050 DLA
	Barium (Ba)-Dissolved (mg/L)	0.0443	0.0427	0.0216	0.0430	0.0193
	Beryllium (Be)-Dissolved (mg/L)	<0.00020 DLA	<0.00010	<0.010 DLA	<0.010 DLA	<0.00050 DLA
	Bismuth (Bi)-Dissolved (mg/L)	<0.0010 DLA	<0.00050	<0.050 DLA	<0.050 DLA	<0.0025 DLA
	Boron (B)-Dissolved (mg/L)	<0.020 DLA	<0.010	<1.0 DLA	<1.0 DLA	<0.050 DLA
	Cadmium (Cd)-Dissolved (mg/L)	0.000532	0.000157	0.385	0.115	0.00144
	Calcium (Ca)-Dissolved (mg/L)	363	216	480	535	339
	Chromium (Cr)-Dissolved (mg/L)	0.00030	0.00020	<0.010 DLA	<0.010 DLA	<0.00050 DLA
	Cobalt (Co)-Dissolved (mg/L)	<0.00020 DLA	<0.00010	3.44	1.80	0.0715
	Copper (Cu)-Dissolved (mg/L)	0.00222	0.00181	<0.020 DLA	<0.020 DLA	<0.0010 DLA
	Iron (Fe)-Dissolved (mg/L)	<0.010	<0.010	1.33	7.82	23.7
	Lead (Pb)-Dissolved (mg/L)	<0.00010 DLA	0.000319	<0.0050 DLA	<0.0050 DLA	0.00035
	Lithium (Li)-Dissolved (mg/L)	0.0103	0.00576	0.173	0.120	0.0630
	Magnesium (Mg)-Dissolved (mg/L)	335	157	1870	1550	233
	Manganese (Mn)-Dissolved (mg/L)	0.0437	0.000197	207	152	13.1
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.00057	0.00157	<0.0050 DLA	<0.0050 DLA	<0.00025 DLA
	Nickel (Ni)-Dissolved (mg/L)	0.0122	0.00104	4.49	2.75	0.130
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.25 DLA	<0.25 DLA	<0.050
	Potassium (K)-Dissolved (mg/L)	4.96	3.29	16.1	13.3	6.58
	Selenium (Se)-Dissolved (mg/L)	0.00025	0.00069	<0.010 DLA	<0.010 DLA	<0.00050 DLA
	Silicon (Si)-Dissolved (mg/L)	5.26	3.69	13.2	11.5	13.6
	Silver (Ag)-Dissolved (mg/L)	<0.000020 DLA	<0.000010	<0.0010 DLA	<0.0010 DLA	<0.000050 DLA
	Sodium (Na)-Dissolved (mg/L)	12.6	7.40	55.9	43.8	14.4

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1475049-56 Water 21-JUN-14 09:15 P09-LCD4	L1475049-57 Water 21-JUN-14 10:08 SRK08-11B	L1475049-58 Water 21-JUN-14 10:44 SRK08-11A	L1475049-59 Water 19-JUN-14 13:01 DUP-6	L1475049-60 Water 18-JUN-14 12:22 DUP-3
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	0.447	0.640	0.738	3.59	3.30
	Sulfur (S)-Total (mg/L)	47.0	181	162	3010	2210
	Thallium (Tl)-Total (mg/L)	0.000098	0.000026	<0.000010	<0.0020 DLA	<0.0010 DLA
	Tin (Sn)-Total (mg/L)	0.00116	<0.00010	<0.00010	<0.020 DLA	<0.010 DLA
	Titanium (Ti)-Total (mg/L)	0.142	<0.010	<0.010	<2.0 DLA	<1.0 DLA
	Uranium (U)-Total (mg/L)	0.00378	0.00146	0.00229	0.0298	0.0033
	Vanadium (V)-Total (mg/L)	0.0145	<0.0010	<0.0010	<0.20 DLA	<0.10 DLA
	Zinc (Zn)-Total (mg/L)	0.0740	0.0918	0.0202	1070	425
	Zirconium (Zr)-Total (mg/L)	0.00268	<0.00080	<0.00080	<0.16 DLA	<0.080 DLA
Dissolved Metals	Dissolved Mercury Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0050	0.0016	<0.0010	22.9	0.27
	Antimony (Sb)-Dissolved (mg/L)	0.00061	<0.00010	<0.00010	<0.020 DLA	<0.010 DLA
	Arsenic (As)-Dissolved (mg/L)	0.00522	0.00011	0.00012	<0.020 DLA	0.161
	Barium (Ba)-Dissolved (mg/L)	0.0793	0.0380	0.115	0.019	0.0094
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.020 DLA	<0.010 DLA
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.10 DLA	<0.050 DLA
	Boron (B)-Dissolved (mg/L)	0.014	<0.010	<0.010	<2.0 DLA	<1.0 DLA
	Cadmium (Cd)-Dissolved (mg/L)	0.000080	0.000495	0.000036	0.438	<0.0010 DLA
	Calcium (Ca)-Dissolved (mg/L)	94.9	188	196	399	447
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.020 DLA	<0.010 DLA
	Cobalt (Co)-Dissolved (mg/L)	0.00067	<0.00010	<0.00010	2.31	1.14
	Copper (Cu)-Dissolved (mg/L)	0.00364	0.00123	0.00114	0.308	<0.020 DLA
	Iron (Fe)-Dissolved (mg/L)	<0.010	<0.010	<0.010	377	906
	Lead (Pb)-Dissolved (mg/L)	0.00143	<0.000050	<0.000050	0.115	<0.0050 DLA
	Lithium (Li)-Dissolved (mg/L)	0.00814	0.0123	0.0136	0.17	0.067
	Magnesium (Mg)-Dissolved (mg/L)	26.1	57.4	45.4	1280	842
	Manganese (Mn)-Dissolved (mg/L)	0.710	0.268	0.000678	146	91.9
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.00560	0.000128	0.000192	<0.010 DLA	<0.0050 DLA
	Nickel (Ni)-Dissolved (mg/L)	0.00459	0.0111	0.00219	2.55	0.990
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.25 DLA	<0.15 DLA
	Potassium (K)-Dissolved (mg/L)	1.78	3.74	3.91	17.9	9.04
	Selenium (Se)-Dissolved (mg/L)	0.00017	0.00011	0.00024	<0.020 DLA	<0.010 DLA
	Silicon (Si)-Dissolved (mg/L)	4.63	6.93	6.70	24.0	11.8
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.0020 DLA	<0.0010 DLA
	Sodium (Na)-Dissolved (mg/L)	75.1	7.94	7.04	57	48.4

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1475049-61 Water 18-JUN-14 08:30 DUP-2	L1475049-62 Water 19-JUN-14 11:16 DUP-4	L1475049-63 Water 19-JUN-14 10:03 DUP-5	L1475049-64 Water 17-JUN-14 18:22 DUP-1	L1475049-65 Water 20-JUN-14 09:50 DUP-7
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	2.15	3.05	2.15	0.112	0.787
	Sulfur (S)-Total (mg/L)	3360	200	78.3	21.0	13.9
	Thallium (Tl)-Total (mg/L)	<0.0010 DLA	0.000013	<0.000010	<0.000010	0.000012
	Tin (Sn)-Total (mg/L)	<0.010 DLA	<0.00010	0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)	<1.0 DLA	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Total (mg/L)	0.0015	0.00783	0.000891	0.000140	0.00411
	Vanadium (V)-Total (mg/L)	<0.10 DLA	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Total (mg/L)	802	0.0042	<0.0030	1.53	0.109
	Zirconium (Zr)-Total (mg/L)	<0.080 DLA	<0.00080	0.0316	0.00292	<0.00080
Dissolved Metals	Dissolved Mercury Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.86	0.0010	0.0033	0.0142	0.0012
	Antimony (Sb)-Dissolved (mg/L)	<0.010 DLA	<0.00010	<0.00010	<0.00010	0.00044
	Arsenic (As)-Dissolved (mg/L)	<0.010 DLA	0.00026	0.00104	0.00231	0.113
	Barium (Ba)-Dissolved (mg/L)	0.0218	0.0260	0.108	0.0600	0.0413
	Beryllium (Be)-Dissolved (mg/L)	<0.010 DLA	<0.00010	0.00017	<0.00010	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	<0.050 DLA	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)	<1.0 DLA	<0.010	0.018	<0.010	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	0.604	0.000029	<0.000010	<0.000010	<0.000010
	Calcium (Ca)-Dissolved (mg/L)	446	265	180	14.7	62.3
	Chromium (Cr)-Dissolved (mg/L)	<0.010 DLA	0.00028	<0.00010	0.00017	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	2.87	0.00025	<0.00010	0.00093	0.00023
	Copper (Cu)-Dissolved (mg/L)	<0.020 DLA	0.00101	<0.00020	0.00029	<0.00020
	Iron (Fe)-Dissolved (mg/L)	0.261	<0.010	2.57	3.44	1.90
	Lead (Pb)-Dissolved (mg/L)	<0.0050 DLA	0.000082	<0.000050	<0.000050	0.000172
	Lithium (Li)-Dissolved (mg/L)	0.191	0.0104	0.102	0.0175	0.00713
	Magnesium (Mg)-Dissolved (mg/L)	2090	49.8	69.6	24.1	11.9
	Manganese (Mn)-Dissolved (mg/L)	195	0.00339	0.361	1.51	0.0809
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0050 DLA	0.00141	0.000159	0.000271	0.0102
	Nickel (Ni)-Dissolved (mg/L)	4.61	0.0178	<0.00050	0.00614	<0.00050
	Phosphorus (P)-Dissolved (mg/L)	<0.25 DLA	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	19.3	5.22	4.21	2.07	1.14
	Selenium (Se)-Dissolved (mg/L)	<0.010 DLA	0.00109	<0.00010	<0.00010	<0.00010
	Silicon (Si)-Dissolved (mg/L)	14.1	6.23	8.61	7.55	6.63
	Silver (Ag)-Dissolved (mg/L)	<0.0010 DLA	<0.000010	0.000065	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	74.0	7.91	61.1	2.89	5.76

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1475049-66	L1475049-67			
	Description	Water	Water			
	Sampled Date	18-JUN-14				
	Sampled Time	16:56				
	Client ID	FIELD BLANK	TRIP BLANK			
Grouping	**Analyte**					
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	<0.00020	<0.00020			
	Sulfur (S)-Total (mg/L)	<0.50	<0.50			
	Thallium (Tl)-Total (mg/L)	<0.000010	<0.000010			
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010			
	Titanium (Ti)-Total (mg/L)	<0.010	<0.010			
	Uranium (U)-Total (mg/L)	<0.000010	<0.000010			
	Vanadium (V)-Total (mg/L)	<0.0010	<0.0010			
	Zinc (Zn)-Total (mg/L)	<0.0030	<0.0030			
	Zirconium (Zr)-Total (mg/L)	<0.00080	<0.00080			
Dissolved Metals	Dissolved Mercury Filtration Location	FIELD				
	Dissolved Metals Filtration Location	FIELD				
	Aluminum (Al)-Dissolved (mg/L)	<0.0010				
	Antimony (Sb)-Dissolved (mg/L)	<0.00010				
	Arsenic (As)-Dissolved (mg/L)	<0.00010				
	Barium (Ba)-Dissolved (mg/L)	<0.000050				
	Beryllium (Be)-Dissolved (mg/L)	<0.00010				
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050				
	Boron (B)-Dissolved (mg/L)	<0.010				
	Cadmium (Cd)-Dissolved (mg/L)	<0.000010				
	Calcium (Ca)-Dissolved (mg/L)	<0.050				
	Chromium (Cr)-Dissolved (mg/L)	<0.00010				
	Cobalt (Co)-Dissolved (mg/L)	<0.00010				
	Copper (Cu)-Dissolved (mg/L)	<0.00020				
	Iron (Fe)-Dissolved (mg/L)	<0.010				
	Lead (Pb)-Dissolved (mg/L)	<0.000050				
	Lithium (Li)-Dissolved (mg/L)	<0.00050				
	Magnesium (Mg)-Dissolved (mg/L)	<0.10				
	Manganese (Mn)-Dissolved (mg/L)	<0.000050				
	Mercury (Hg)-Dissolved (mg/L)	<0.000010				
	Molybdenum (Mo)-Dissolved (mg/L)	<0.000050				
	Nickel (Ni)-Dissolved (mg/L)	<0.00050				
	Phosphorus (P)-Dissolved (mg/L)	<0.050				
	Potassium (K)-Dissolved (mg/L)	<0.10				
	Selenium (Se)-Dissolved (mg/L)	<0.00010				
	Silicon (Si)-Dissolved (mg/L)	<0.050				
	Silver (Ag)-Dissolved (mg/L)	<0.000010				
	Sodium (Na)-Dissolved (mg/L)	<0.050				

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1475049-1	L1475049-2	L1475049-3	L1475049-4	L1475049-5
	Description	Water	Water	Water	Water	Water
	Sampled Date	18-JUN-14	21-JUN-14	20-JUN-14	20-JUN-14	20-JUN-14
	Sampled Time	17:50	08:50	14:45	15:26	12:25
	Client ID	SRK08-SP8B	SRK08-10A	P09-GS1A	P09-GS1B	SRK05-5C
Grouping	**Analyte**					
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	0.701	1.60	0.596	1.73	0.680
	Sulfur (S)-Dissolved (mg/L)	224	543	164	240	47.6
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000050 DLA	0.00391	0.000060	0.000011
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00050 DLA	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.050 DLA	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.00124	0.0353	0.0170	0.00279	0.00211
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0050 DLA	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	0.297	2.42	3.25	0.250	0.0028
	Zirconium (Zr)-Dissolved (mg/L)	<0.00080	<0.0040 DLA	<0.00080	<0.00080	<0.00080

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1475049-6 Water 20-JUN-14 10:45 SRK05-07	L1475049-7 Water 20-JUN-14 10:20 P09-VC1	L1475049-8 Water 20-JUN-14 09:50 P09-VC2	L1475049-9 Water 17-JUN-14 18:59 SRK08-SP7A	L1475049-10 Water 17-JUN-14 18:22 SRK08-SP7B
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	1.45	0.568	0.847	0.308	0.113
	Sulfur (S)-Dissolved (mg/L)	572	17.4	13.2	79.4	20.8
	Thallium (Tl)-Dissolved (mg/L)	<0.000020 DLA	<0.000010	<0.000010	<0.000010	<0.000010
	Tin (Sn)-Dissolved (mg/L)	<0.00020 DLA	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<0.020 DLA	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.0313	0.00564	0.00382	0.000159	0.000120
	Vanadium (V)-Dissolved (mg/L)	<0.0020 DLA	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	0.0029	<0.0010	0.0809	0.292	1.65
	Zirconium (Zr)-Dissolved (mg/L)	<0.0016 DLA	<0.00080	<0.00080	<0.00080	<0.00080

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1475049-11 Water 19-JUN-14 08:33 P01-01A	L1475049-12 Water 19-JUN-14 08:57 P01-01B	L1475049-13 Water 19-JUN-14 10:03 P09-C3	L1475049-14 Water 19-JUN-14 11:54 P01-11	L1475049-15 Water 19-JUN-14 13:04 P09-C2
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	0.881	0.864	2.29	1.60	4.51
	Sulfur (S)-Dissolved (mg/L)	232	187	81.6	637	8.06
	Thallium (Tl)-Dissolved (mg/L)	0.000016	<0.000010	<0.000010	<0.000050 DLA	<0.000020 DLA
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00050 DLA	<0.00020 DLA
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.050 DLA	<0.020 DLA
	Uranium (U)-Dissolved (mg/L)	0.00713	0.00970	0.000876	0.0108	0.000450
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0050 DLA	<0.0020 DLA
	Zinc (Zn)-Dissolved (mg/L)	0.0031	<0.0010	<0.0010	0.0072	<0.0020 DLA
	Zirconium (Zr)-Dissolved (mg/L)	<0.00080	0.00099	0.0315	<0.0040 DLA	0.154 DTC

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1475049-16	L1475049-17	L1475049-18	L1475049-19	L1475049-20
	Description	Water	Water	Water	Water	Water
	Sampled Date	19-JUN-14	19-JUN-14	19-JUN-14	19-JUN-14	19-JUN-14
	Sampled Time	14:00	14:50	18:05	17:40	16:40
	Client ID	P05-01-05	P05-01-03	V36	P2001-3	V35
Grouping	**Analyte**					
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	1.69	1.72	1.62	0.652	1.21
	Sulfur (S)-Dissolved (mg/L)	671	662	425	41.3	521
	Thallium (Tl)-Dissolved (mg/L)	<0.000050 DLA	<0.000050 DLA	0.000056	0.000056	0.000026
	Tin (Sn)-Dissolved (mg/L)	<0.00050 DLA	<0.00050 DLA	<0.00020 DLA	0.00014	<0.00020 DLA
	Titanium (Ti)-Dissolved (mg/L)	<0.050 DLA	<0.050 DLA	<0.020 DLA	0.106	<0.020 DLA
	Uranium (U)-Dissolved (mg/L)	0.00722	0.00113	0.0540	0.0127	0.0992
	Vanadium (V)-Dissolved (mg/L)	<0.0050 DLA	<0.0050 DLA	<0.0020 DLA	0.0106	<0.0020 DLA
	Zinc (Zn)-Dissolved (mg/L)	<0.0050 DLA	<0.0050 DLA	0.0826	0.0247	0.0106
	Zirconium (Zr)-Dissolved (mg/L)	<0.0040 DLA	<0.0040 DLA	<0.0016 DLA	0.00320	<0.0016 DLA

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1475049-21	L1475049-22	L1475049-23	L1475049-24	L1475049-25
	Description	Water	Water	Water	Water	Water
	Sampled Date	19-JUN-14	19-JUN-14	19-JUN-14	19-JUN-14	19-JUN-14
	Sampled Time	15:56	11:16	08:31	08:46	09:16
	Client ID	V34	SRK08-P9	BH13B	BH14B	BH14A
Grouping	**Analyte**					
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	1.60	2.99	0.804	3.46	3.38
	Sulfur (S)-Dissolved (mg/L)	166	177	178	639	828
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	0.000011	<0.000010	<0.000020 DLA	<0.000050 DLA
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00020 DLA	<0.00050 DLA
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.020 DLA	<0.050 DLA
	Uranium (U)-Dissolved (mg/L)	0.0199	0.00802	0.00144	0.206	0.144
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0020 DLA	<0.0050 DLA
	Zinc (Zn)-Dissolved (mg/L)	0.0082	0.0031	0.0025	0.416	23.6
	Zirconium (Zr)-Dissolved (mg/L)	0.00139	<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	L1475049-26	L1475049-27	L1475049-28	L1475049-29	L1475049-30
	Description	Water	Water	Water	Water	Water
	Sampled Date	18-JUN-14	18-JUN-14	18-JUN-14	18-JUN-14	18-JUN-14
	Sampled Time	11:50	12:30	11:36	10:30	08:30
	Client ID	P09-SIS4	P09-SIS5	SRK05-SP-4A	P09-SIS3	P09-SIS2
Grouping	**Analyte**					
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	1.83	1.92	0.547	2.33	2.05
	Sulfur (S)-Dissolved (mg/L)	1520 DLA	1170 DLA	193 DLA	3760 DLA	3560 DLA
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.000050	<0.000050	<0.0010	<0.0010
	Tin (Sn)-Dissolved (mg/L)	<0.0020 DLA	<0.00050 DLA	<0.00050 DLA	<0.010 DLA	<0.010 DLA
	Titanium (Ti)-Dissolved (mg/L)	<0.20 DLA	<0.050 DLA	<0.050 DLA	<1.0 DLA	<1.0 DLA
	Uranium (U)-Dissolved (mg/L)	0.00934	0.0169	0.00157	0.0026	0.0014
	Vanadium (V)-Dissolved (mg/L)	<0.020 DLA	<0.0050 DLA	<0.0050 DLA	<0.10 DLA	<0.10 DLA
	Zinc (Zn)-Dissolved (mg/L)	103	14.5	25.9	934	812
	Zirconium (Zr)-Dissolved (mg/L)	<0.016 DLA	<0.0040 DLA	<0.0040 DLA	<0.080 DLA	<0.080 DLA

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1475049-31	L1475049-32	L1475049-33	L1475049-34	L1475049-35
	Description	Water	Water	Water	Water	Water
	Sampled Date	18-JUN-14	18-JUN-14	18-JUN-14	18-JUN-14	18-JUN-14
	Sampled Time	09:20	15:45	17:50	16:56	09:00
	Client ID	P09-SIS1	P96-6	SRK08-SP8A	P96-7	S1A
Grouping	**Analyte**					
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	2.34	0.739	0.988	0.495	1.97
	Sulfur (S)-Dissolved (mg/L)	2590 DLA	297 DLA	250	583 DLA	1340 DLA
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.000020	<0.000010	<0.000020	<0.00010
	Tin (Sn)-Dissolved (mg/L)	<0.0020 DLA	<0.00020 DLA	<0.00010	<0.00020 DLA	<0.0010 DLA
	Titanium (Ti)-Dissolved (mg/L)	<0.20 DLA	<0.020 DLA	<0.010	<0.020 DLA	<0.10 DLA
	Uranium (U)-Dissolved (mg/L)	0.00700	0.0575	0.000980	0.0198	0.00499
	Vanadium (V)-Dissolved (mg/L)	<0.020 DLA	<0.0020 DLA	<0.0010	<0.0020 DLA	<0.010 DLA
	Zinc (Zn)-Dissolved (mg/L)	189 DLA	0.368 DLA	0.292	<0.0020 DLA	68.8 DLA
	Zirconium (Zr)-Dissolved (mg/L)	<0.016	<0.0016	<0.00080	<0.0016	<0.0080

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1475049-36	L1475049-37	L1475049-38	L1475049-39	L1475049-40
	Description	Water	Water	Water	Water	Water
	Sampled Date	18-JUN-14	18-JUN-14	18-JUN-14	18-JUN-14	18-JUN-14
	Sampled Time	12:22	17:15	16:50	15:52	13:10
	Client ID	P09-ETA-2	X25-96A	X25-96B	X24-96D	S1B
Grouping	**Analyte**					
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	3.43	0.700	0.628	2.10	0.488
	Sulfur (S)-Dissolved (mg/L)	2240 DLA	230 DLA	254 DLA	803	295 DLA
	Thallium (Tl)-Dissolved (mg/L)	<0.00050 DLA	<0.000020 DLA	<0.000020 DLA	0.00030 DLA	<0.000020 DLA
	Tin (Sn)-Dissolved (mg/L)	<0.0050 DLA	<0.00020 DLA	<0.00020 DLA	<0.0020 DLA	<0.00020 DLA
	Titanium (Ti)-Dissolved (mg/L)	<0.50	<0.020	<0.020	<0.20	<0.020
	Uranium (U)-Dissolved (mg/L)	0.00366 DLA	0.0113 DLA	0.00965 DLA	0.00280 DLA	0.000898 DLA
	Vanadium (V)-Dissolved (mg/L)	<0.050	<0.0020	<0.0020	<0.020	<0.0020
	Zinc (Zn)-Dissolved (mg/L)	460 DLA	0.0023 DLA	<0.0020 DLA	0.223 DLA	11.9 DLA
	Zirconium (Zr)-Dissolved (mg/L)	<0.040	<0.0016	<0.0016	<0.016	<0.0016

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1475049-41 Water 20-JUN-14 11:26 SRK05-08	L1475049-42 Water 19-JUN-14 13:26 P96-8B	L1475049-43 Water 19-JUN-14 13:01 P96-8A	L1475049-44 Water 18-JUN-14 18:00 P01-04A	L1475049-45 Water 20-JUN-14 12:25 P09-LCD6
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	1.27	4.52	3.59	1.69	0.799
	Sulfur (S)-Dissolved (mg/L)	370 DLA	3100 DLA	3120 DLA	19.0 DTC	105
	Thallium (Tl)-Dissolved (mg/L)	<0.000020 DLA	<0.0010 DLA	<0.0020 DLA	<0.000010	<0.000010
	Tin (Sn)-Dissolved (mg/L)	<0.00020 DLA	<0.010 DLA	<0.020 DLA	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<0.020 DLA	<1.0 DLA	<2.0 DLA	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.0261	0.0027	0.0292	0.000269	0.00368
	Vanadium (V)-Dissolved (mg/L)	<0.0020 DLA	<0.10 DLA	<0.20 DLA	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	<0.0020 DLA	1010 DLA	1080 DLA	<0.0010	0.0025
	Zirconium (Zr)-Dissolved (mg/L)	<0.0016 DLA	<0.080 DLA	<0.16 DLA	0.0601	<0.00080

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1475049-46 Water 20-JUN-14 08:44 V37	L1475049-47 Water 20-JUN-14 10:42 P09-LCD1	L1475049-48 Water 19-JUN-14 17:50 P2001-02A	L1475049-49 Water 20-JUN-14 08:15 P2001-02B	L1475049-50 Water 20-JUN-14 13:26 BH05-9B-R
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	0.609	0.804	2.02	1.95	1.09
	Sulfur (S)-Dissolved (mg/L)	79.2	78.9	411	388	54.1
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	0.000012	<0.000020 DLA	<0.000020 DLA	<0.000010
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00020 DLA	<0.00020 DLA	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.020 DLA	<0.020 DLA	<0.010
	Uranium (U)-Dissolved (mg/L)	0.00186	0.00786	0.0687	0.0579	0.000824
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0020 DLA	<0.0020 DLA	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	0.0134	0.0059	0.0067	0.0049	<0.0010
	Zirconium (Zr)-Dissolved (mg/L)	<0.00080	<0.00080	<0.0016 DLA	<0.0016 DLA	<0.00080

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1475049-51	L1475049-52	L1475049-53	L1475049-54	L1475049-55
	Description	Water	Water	Water	Water	Water
	Sampled Date	20-JUN-14	20-JUN-14	20-JUN-14	20-JUN-14	21-JUN-14
	Sampled Time	14:05	15:40	17:10	17:30	10:45
	Client ID	P96-9A	SRK05-9	SRK05-SP-5	S2B	S2A
Grouping	**Analyte**					
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	1.14	0.621	2.41	2.35	1.13
	Sulfur (S)-Dissolved (mg/L)	528	268	3490	2890	518
	Thallium (Tl)-Dissolved (mg/L)	DLA <0.000020	<0.000010	DLA <0.0010	DLA <0.0010	DLA <0.000050
	Tin (Sn)-Dissolved (mg/L)	DLA <0.00020	<0.00010	DLA <0.010	DLA <0.010	DLA <0.00050
	Titanium (Ti)-Dissolved (mg/L)	DLA <0.020	<0.010	DLA <1.0	DLA <1.0	DLA <0.050
	Uranium (U)-Dissolved (mg/L)	0.0417	0.0220	0.0031	DLA <0.0010	0.00408
	Vanadium (V)-Dissolved (mg/L)	DLA <0.0020	<0.0010	DLA <0.10	DLA <0.10	DLA <0.0050
	Zinc (Zn)-Dissolved (mg/L)	0.0742	0.0046	812	549	23.3
	Zirconium (Zr)-Dissolved (mg/L)	DLA <0.0016	<0.00080	DLA <0.080	DLA <0.080	DLA <0.0040

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1475049-56 Water 21-JUN-14 09:15 P09-LCD4	L1475049-57 Water 21-JUN-14 10:08 SRK08-11B	L1475049-58 Water 21-JUN-14 10:44 SRK08-11A	L1475049-59 Water 19-JUN-14 13:01 DUP-6	L1475049-60 Water 18-JUN-14 12:22 DUP-3
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	0.443	0.628	0.706	3.60	3.53
	Sulfur (S)-Dissolved (mg/L)	49.7	175	159	3080	2230
	Thallium (Tl)-Dissolved (mg/L)	0.000012	0.000031	<0.000010	<0.0020 DLA	<0.0010 DLA
	Tin (Sn)-Dissolved (mg/L)	0.00020	<0.00010	<0.00010	<0.020 DLA	<0.010 DLA
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<2.0 DLA	<1.0 DLA
	Uranium (U)-Dissolved (mg/L)	0.00357	0.00137	0.00222	0.0291	0.0035
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.20 DLA	<0.10 DLA
	Zinc (Zn)-Dissolved (mg/L)	0.0052	0.0900	0.0310 DTC	1090	463
	Zirconium (Zr)-Dissolved (mg/L)	<0.00080	<0.00080	<0.00080	<0.16 DLA	0.115

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1475049-61	L1475049-62	L1475049-63	L1475049-64	L1475049-65
	Description	Water	Water	Water	Water	Water
	Sampled Date	18-JUN-14	19-JUN-14	19-JUN-14	17-JUN-14	20-JUN-14
	Sampled Time	08:30	11:16	10:03	18:22	09:50
	Client ID	DUP-2	DUP-4	DUP-5	DUP-1	DUP-7
Grouping	**Analyte**					
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	2.21	2.76	2.16	0.106	0.850
	Sulfur (S)-Dissolved (mg/L)	3720	188	80.3	21.5	13.9
	Thallium (Tl)-Dissolved (mg/L)	<0.0010 DLA	0.000010	<0.000010	<0.000010	<0.000010
	Tin (Sn)-Dissolved (mg/L)	<0.010 DLA	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<1.0 DLA	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.0014	0.00784	0.000865	0.000122	0.00368
	Vanadium (V)-Dissolved (mg/L)	<0.10 DLA	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	827	0.0030	0.0010	1.65	0.0791
	Zirconium (Zr)-Dissolved (mg/L)	<0.080 DLA	<0.00080	0.0307	<0.00080	<0.00080

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1475049-66	L1475049-67			
	Description	Water	Water			
	Sampled Date	18-JUN-14				
	Sampled Time	16:56				
	Client ID	FIELD BLANK	TRIP BLANK			
Grouping	**Analyte**					
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	<0.00020				
	Sulfur (S)-Dissolved (mg/L)	<0.50				
	Thallium (Tl)-Dissolved (mg/L)	<0.000010				
	Tin (Sn)-Dissolved (mg/L)	<0.00010				
	Titanium (Ti)-Dissolved (mg/L)	<0.010				
	Uranium (U)-Dissolved (mg/L)	<0.000010				
	Vanadium (V)-Dissolved (mg/L)	<0.0010				
	Zinc (Zn)-Dissolved (mg/L)	<0.0010				
	Zirconium (Zr)-Dissolved (mg/L)	<0.00080				

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

Reference Information

Qualifiers for Sample Submission Listed:

Qualifier	Description
WSMT	Water sample(s) for total mercury analysis was not submitted in glass container with HCl preservative. Results may be biased low.
WSMD	Water sample(s) for dissolved mercury analysis was not submitted in glass container with HCl preservative. Results may be biased low.

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Duplicate	Chloride (Cl)	DLA	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -67, -7, -8, -9
Duplicate	Beryllium (Be)-Dissolved	DLA	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -7, -8, -9
Duplicate	Bismuth (Bi)-Dissolved	DLA	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -7, -8, -9
Duplicate	Silver (Ag)-Dissolved	DLA	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -7, -8, -9
Duplicate	Thallium (Tl)-Dissolved	DLA	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -7, -8, -9
Duplicate	Tin (Sn)-Dissolved	DLA	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -7, -8, -9
Duplicate	Titanium (Ti)-Dissolved	DLA	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -7, -8, -9
Duplicate	Vanadium (V)-Dissolved	DLA	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19,

Reference Information

	Parameter	Qualifier	Applies to Sample Number(s)
			-2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -7, -8, -9
Matrix Spike	Sulfate (SO4)	MS-B	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -67, -7, -8, -9
Matrix Spike	Sulfate (SO4)	MS-B	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -67, -7, -8, -9
Matrix Spike	Sulfate (SO4)	MS-B	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -67, -7, -8, -9
Matrix Spike	Sulfate (SO4)	MS-B	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -67, -7, -8, -9
Matrix Spike	Aluminum (Al)-Total	MS-B	L1475049-52, -53, -54, -55, -56, -57, -58, -59, -60, -61, -62, -63, -64, -65
Matrix Spike	Barium (Ba)-Total	MS-B	L1475049-52, -53, -54, -55, -56, -57, -58, -59, -60, -61, -62, -63, -64, -65
Matrix Spike	Boron (B)-Total	MS-B	L1475049-52, -53, -54, -55, -56, -57, -58, -59, -60, -61, -62, -63, -64, -65
Matrix Spike	Manganese (Mn)-Total	MS-B	L1475049-52, -53, -54, -55, -56, -57, -58, -59, -60, -61, -62, -63, -64, -65
Matrix Spike	Sodium (Na)-Total	MS-B	L1475049-52, -53, -54, -55, -56, -57, -58, -59, -60, -61, -62, -63, -64, -65
Matrix Spike	Strontium (Sr)-Total	MS-B	L1475049-52, -53, -54, -55, -56, -57, -58, -59, -60, -61, -62, -63, -64, -65
Matrix Spike	Aluminum (Al)-Dissolved	MS-B	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -

Reference Information

	Parameter	Qualifier	Applies to Sample Number(s)
			43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -7, -8, -9
Matrix Spike	Strontium (Sr)-Total	MS-B	L1475049-6, -7, -8, -9
Matrix Spike	Barium (Ba)-Total	MS-B	L1475049-10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -20, -21
Matrix Spike	Molybdenum (Mo)-Total	MS-B	L1475049-10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -20, -21
Matrix Spike	Sodium (Na)-Total	MS-B	L1475049-10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -20, -21
Matrix Spike	Strontium (Sr)-Total	MS-B	L1475049-10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -20, -21
Matrix Spike	Uranium (U)-Total	MS-B	L1475049-10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -20, -21
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -7, -8, -9
Matrix Spike	Sulfur (S)-Dissolved	MS-B	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -7, -8, -9
Matrix Spike	Aluminum (Al)-Dissolved	MS-B	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -7, -8, -9

Reference Information

	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1475049-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -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, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -60, -61, -62, -63, -64, -65, -66, -7, -8, -9
Matrix Spike	Aluminum (Al)-Total	MS-B	L1475049-22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35, -36, -37, -38
Matrix Spike	Barium (Ba)-Total	MS-B	L1475049-22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35, -36, -37, -38
Matrix Spike	Manganese (Mn)-Total	MS-B	L1475049-22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35, -36, -37, -38
Matrix Spike	Strontium (Sr)-Total	MS-B	L1475049-22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35, -36, -37, -38

Qualifiers for Individual Parameters Listed:

Qualifier	Description
DLA	Detection Limit adjusted for required dilution
DLM	Detection Limit Adjusted due to sample matrix effects.
DTC	Dissolved concentration exceeds total. Results were confirmed by re-analysis.
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-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.

ALK-PCT-VA	Water	Alkalinity by Auto. Titration	APHA 2320 "Alkalinity"

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

ALK-PCT-VA	Water	Alkalinity by Auto. Titration	APHA 2320 Alkalinity

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

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.

Reference Information

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 CaCO3 equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.

HG-DIS-LOW-CVAFS-VA Water Dissolved Mercury in Water by CVAFS(Low) EPA SW-846 3005A & EPA 245.7

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 filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).

HG-TOT-LOW-CVAFS-VA Water Total Mercury in Water by CVAFS(Low) EPA 245.7

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 procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).

IONBALANCE-VA Water Ion Balance Calculation APHA 1030E

Cation Sum, Anion Sum, and Ion Balance (as % difference) are calculated based on guidance from APHA Standard Methods (1030E Checking Correctness of Analysis). Because all aqueous solutions are electrically neutral, the calculated ion balance (% difference of cations minus anions) should be near-zero.

Cation and Anion Sums are the total meq/L concentration of major cations and anions. Dissolved species are used where available. Minor ions are included where data is present. Ion Balance is calculated as:

Ion Balance (%) = [Cation Sum-Anion Sum] / [Cation Sum+Anion Sum]

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-DIS-LOW-ICP-VA Water Dissolved Metals in Water by ICPOES EPA 3005A/6010B

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 procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

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).

MET-TOT-LOW-ICP-VA Water Total Metals in Water by ICPOES EPA 3005A/6010B

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 (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

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

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

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

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

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

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

S-DIS-ICP-VA Water Dissolved Sulfur in Water by ICPOES EPA SW-846 3005A/6010B

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the

Reference Information

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 - optical emission spectrophotometry (EPA Method 6010B).

Method Limitation: This method will not give total sulfur results for all samples. Sulfide or other volatile forms of sulfur that may be present in submitted samples, is often lost during the sampling, preservation and analysis process. The data reported as total and/or dissolved sulfur represents all non-volatile forms of sulfur present in a particular sample.

S-TOT-ICP-VA Water Total Sulfur in Water by ICPOES EPA SW-846 3005A/6010B

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 - optical emission spectrophotometry (EPA Method 6010B).

Method Limitation: This method will not give total sulfur results for all samples. Sulfide or other volatile forms of sulfur that may be present in submitted samples, is often lost during the sampling, preservation and analysis process. The data reported as total and/or dissolved sulfur represents all non-volatile forms of sulfur present in a particular sample.

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 5
6

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.

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L1475049-COFC

COC Number: 1 -

Page 1 of 6

Report To		Report Form.	
Company:	Hemmera Environchem Inc.	Select Report Format:	☑PDF ☑EXCEL ☑EDD (DIGITAL)
Contact:	Natasha Sandys	Quality Control (QC) Report with Report	☑ Yes ☐ No
Address:	230 - 2237 2nd Avenue Whitehorse, YT	☐Criteria on Report - provide details below if box checked	
Phone:	867-456-4865	Select Distribution:	☑EMAIL ☐MAIL ☐FAX
		Email 1 or Fax	nsandys@hemmera.com, rmartinka@hemmera.com
		Email 2	chris@elr.ca

Invoice To	Same as Report To	☑ Yes ☐ No
	Copy of Invoice with Report	☐ Yes ☑ No
Company:	Hemmera Environchem Inc.	
Contact:	Natasha Sandys	

Project Information	
ALS Quote #:	Q45291
Job #:	1343-005.02
PO / AFE:	
LSD:	

Invoice Distribution		
Select Invoice Distribution:	☑EMAIL	☑MAIL ☐FAX
Email 1 or Fax	nsandys@hemmera.com	
Email 2	chris@elr.ca	

Oil and Gas Required Fields (client use)	
Approver ID:	Cost Center:
GL Account:	Routing Code:
Activity Code:	
Location:	

ALS Lab Work Order # (lab use only)		ALS Contact:	Sampler: RM, AB, AN, MI

Turnaround Time (TAT) Required (Rush Turnaround Time (TAT) is not available for all tests)

- R ☑Regular (Standard TAT if received by 3 pm - business days)
- P ☐Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT
- E ☐Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT
- E2 ☐Same day or weekend emergency - contact ALS to confirm TAT and surcharge

Specify Date Required for E2,E or P:

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	acidity (to pH 8.3)	alkalinity	chloride	conductivity	pH	sulphate	suspended solids, total (TSS)	dissolved metals (F/P)	total metals (P)	Number of Containers
	SRK08-SP8B	18-Jun-14	17:50	Water	R	R	R	R	R	R	R	R	R	3
	SRK08-10A	21-Jun-14	8:50	Water	R	R	R	R	R	R	R	R	R	3
	P09-GS1A	20-Jun-14	14:45	Water	R	R	R	R	R	R	R	R	R	3
	P09-GS1B	20-Jun-14	15:26	Water	R	R	R	R	R	R	R	R	R	3
	SRK05-5C	20-Jun-14	12:25	Water	R	R	R	R	R	R	R	R	R	3
	SRK05-07	20-Jun-14	10:45	Water	R	R	R	R	R	R	R	R	R	3
	P09-VC1	20-Jun-14	10:20	Water	R	R	R	R	R	R	R	R	R	3
	P09-VC2	20-Jun-14	9:50	Water	R	R	R	R	R	R	R	R	R	3
	SRK08-SP7A	17-Jun-14	18:59	Water	R	R	R	R	R	R	R	R	R	3
	SRK08-SP7B	17-Jun-14	18:22	Water	R	R	R	R	R	R	R	R	R	3
	P01-01A	19-Jun-14	8:33	Water	R	R	R	R	R	R	R	R	R	3
	P01-01B	19-Jun-14	8:57	Water	R	R	R	R	R	R	R	R	R	3

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System?
☐ Yes ☑ No

Are samples for human drinking water use?
☐ Yes ☑ No

Special Instructions / Specify Criteria to add on report (client Use)

- EDD must be in EQuIS format common to Faro Mine Remediation Project. Contact client if clarification is required.
- See attached parameter sheet for required detection limits.

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen	☐	SIF Observations	Yes ☐	No ☐	
Ice packs	Yes ☐	No ☐	Custody seal intact	Yes ☐	No ☐
Cooling Initiated	☐				

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		
2.0	1.9	0.5	2.5	3.1	2.1

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date: 25-Jun-14	Time: 10:15

FINAL SHIPMENT RECEPTION (lab use only)		
Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NA-FM-0326e v09 Front/04 January 2014

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 specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L1475049-COFC

COC Number: 1 -

Report To		Report Format / Distribution		Turnaround Time (TAT) (Rush Turnaround Time (TAT) is not available for all tests)
Company:	Hemmera Environchem Inc.	Select Report Format: ☑PDF ☑EXCEL ☑EDD (DIGITAL)		R ☑Regular (Standard TAT if received by 3 pm - business days)
Contact:	Natasha Sandys	Quality Control (QC) Report with Report ☑ Yes ☐ No		P ☐Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT
Address:	230 - 2237 2nd Avenue Whitehorse, YT	☐Criteria on Report - provide details below if box checked		E ☐Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT
Phone:	867-456-4865	Select Distribution: ☑EMAIL ☐MAIL ☐FAX		E2 ☐Same day or weekend emergency - contact ALS to confirm TAT and surcharge
		Email 1 or Fax nsandys@hemmera.com, rmartinka@hemmera.com		Specify Date Required for E2,E or P:
		Email 2 chris@elr.ca		

Invoice To		Invoice Distribution	
	Same as Report To ☑ Yes ☐ No	Select Invoice Distribution: ☑EMAIL ☐MAIL ☐FAX	
	Copy of Invoice with Report ☐ Yes ☑ No	Email 1 or Fax nsandys@hemmera.com	
Company:	Hemmera Environchem Inc.	Email 2 chris@elr.ca	
Contact:	Natasha Sandys		

Project Information		Oil and Gas Required Fields (client use)	
ALS Quote #:	Q45291	Approver ID:	Cost Center:
Job #:	1343-005.02	GL Account:	Routing Code:
PO / AFE:		Activity Code:	
LSD:		Location:	

ALS Lab Work Order # (lab use only)		ALS Contact:		Sampler:	RM, AB, AN, MI

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	acidity (to pH 8.3)	alkalinity	chloride	conductivity	pH	sulphate	suspended solids, total (TSS)	dissolved metals F/P	total metals P					Number of Containers
	P09-C3	19-Jun-14	10:03	Water	R	R	R	R	R	R	R	R	R					3
	P01-11	19-Jun-14	11:54	Water	R	R	R	R	R	R	R	R	R					3
	P09-C2	19-Jun-14	13:04	Water	R	R	R	R	R	R	R	R	R					3
	P05-01-05	19-Jun-14	14:00	Water	R	R	R	R	R	R	R	R	R					3
	P05-01-03	19-Jun-14	14:50	Water	R	R	R	R	R	R	R	R	R					3
	V36	19-Jun-14	18:05	Water	R	R	R	R	R	R	R	R	R					3
	P2001-3	19-Jun-14	17:40	Water	R	R	R	R	R	R	R	R	R					3
	V35	19-Jun-14	16:40	Water	R	R	R	R	R	R	R	R	R					3
	V34	19-Jun-14	15:56	Water	R	R	R	R	R	R	R	R	R					3
	SRK08-P9	19-Jun-14	11:16	Water	R	R	R	R	R	R	R	R	R					3
	BH13B	19-Jun-14	8:31	Water	R	R	R	R	R	R	R	R	R					3
	BH14B	19-Jun-14	9:46	Water	R	R	R	R	R	R	R	R	R					3

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report (client Use)
Are samples taken from a Regulated DW System? ☐ Yes ☑ No Are samples for human drinking water use? ☐ Yes ☑ No	- EDD must be in EQuIS format common to Faro Mine Remediation Project. Contact client if clarification is required. - See attached parameter sheet for required detection limits.

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐			SIF Observations	Yes ☐	No ☐
Ice packs	Yes ☐	No ☐	Custody seal intact	Yes ☐	No ☐
Cooling Initiated ☐					

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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NA-FM-0326a v09 Front/04 January 2014

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1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L1475049-COFC

COC Number: 1 -

Page 3 of 6

Report To		Report Format / Distribution		Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)
Company:	Hemmera Environchem Inc.	Select Report Format:	☑PDF ☑EXCEL ☑EDD (DIGITAL)	R ☑Regular (Standard TAT if received by 3 pm - business days)
Contact:	Natasha Sandys	Quality Control (QC) Report with Report	☑ Yes ☐ No	P ☐Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT
Address:	230 - 2237 2nd Avenue Whitehorse, YT	☐Criteria on Report - provide details below if box checked		E ☐Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT
		Select Distribution:	☑EMAIL ☐MAIL ☐FAX	E2 ☐Same day or weekend emergency - contact ALS to confirm TAT and surcharge
Phone:	867-456-4865	Email 1 or Fax	nsandys@hemmera.com, rmartinka@hemmera.com	Specify Date Required for E2,E or P:
		Email 2	chris@elr.ca	

Invoice To			Invoice Distribution		
	Same as Report To	☑ Yes ☐ No	Select Invoice Distribution:	☑EMAIL ☐MAIL ☐FAX	
	Copy of Invoice with Report	☐ Yes ☑ No	Email 1 or Fax	nsandys@hemmera.com	
Company:	Hemmera Environchem Inc.		Email 2	chris@elr.ca	
Contact:	Natasha Sandys				

Project Information		Oil and Gas Required Fields (client use)	
ALS Quote #:	Q45291	Approver ID:	Cost Center:
Job #:	1343-005.02	GL Account:	Routing Code:
PO / AFE:		Activity Code:	
LSD:		Location:	

ALS Lab Work Order # (lab use only)		ALS Contact:		Sampler:	RM, AB, AN, MI

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	acidity (to pH 8.3)	alkalinity	chloride	conductivity	pH	sulphate	suspended solids, total (TSS)	dissolved metals (F/P)	total metals (P)					Number of Containers
	BH14A	19-Jun-14	9:16	Water	R	R	R	R	R	R	R	R	R					3
	P09-SIS4	18-Jun-14	11:50	Water	R	R	R	R	R	R	R	R	R					3
	P09-SIS5	18-Jun-14	12:30	Water	R	R	R	R	R	R	R	R	R					3
	SRK05-SP-4A	18-Jun-14	11:36	Water	R	R	R	R	R	R	R	R	R					3
	P09-SIS3	18-Jun-14	10:30	Water	R	R	R	R	R	R	R	R	R					3
	P09-SIS2	18-Jun-14	8:30	Water	R	R	R	R	R	R	R	R	R					3
	P09-SIS1	18-Jun-14	9:20	Water	R	R	R	R	R	R	R	R	R					3
	P96-6	18-Jun-14	15:45	Water	R	R	R	R	R	R	R	R	R					3
	SRK08-SP8A	18-Jun-14	17:50	Water	R	R	R	R	R	R	R	R	R					3
	P96-7	18-Jun-14	16:56	Water	R	R	R	R	R	R	R	R	R					3
	S1A	18-Jun-14	9:00	Water	R	R	R	R	R	R	R	R	R					3
	P09-ETA-2	18-Jun-14	12:22	Water	R	R	R	R	R	R	R	R	R					3

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report (client Use)
Are samples taken from a Regulated DW System? ☐ Yes ☑ No Are samples for human drinking water use? ☐ Yes ☑ No	- EDD must be in EQuIS format common to Faro Mine Remediation Project. Contact client if clarification is required. - See attached parameter sheet for required detection limits.

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen	☐		SIF Observations	Yes ☐	No ☐
Ice packs	Yes ☐	No ☐	Custody seal intact	Yes ☐	No ☐
Cooling Initiated	☐				

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date:	Time:

FINAL SHIPMENT RECEPTION (lab use only)		
Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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NA-FM-0325e r09 Front/04 January 2014

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1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L1475049-COFC

COC Number: 1 -

Page 4 of 6

Report To		Report Format / D		Turnaround Time (TAT) (Rush Turnaround Time (TAT) is not available for all tests)
Company:	Hemmera Environchem Inc.	Select Report Format:	☑PDF ☑EXCEL ☑EDD (DIGITAL)	R ☑Regular (Standard TAT if received by 3 pm - business days)
Contact:	Natasha Sandys	Quality Control (QC) Report with Report	☑ Yes ☐ No	P ☐Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT
Address:	230 - 2237 2nd Avenue Whitehorse, YT	☐Criteria on Report - provide details below if box checked		E ☐Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT
Phone:	867-456-4865	Select Distribution:	☑EMAIL ☐MAIL ☐FAX	E2 ☐Same day or weekend emergency - contact ALS to confirm TAT and surcharge
		Email 1 or Fax	nsandys@hemmera.com, rmartinka@hemmera.com	Specify Date Required for E2,E or P:
		Email 2	chris@elr.ca	

Invoice To			
	Same as Report To	☑ Yes	☐ No
	Copy of Invoice with Report	☐ Yes	☑ No
Company:	Hemmera Environchem Inc.		
Contact:	Natasha Sandys		

Invoice Distribution	
Select Invoice Distribution:	☑EMAIL ☐MAIL ☐FAX
Email 1 or Fax	nsandys@hemmera.com
Email 2	chris@elr.ca

Project Information	
ALS Quote #:	Q45291
Job #:	1343-005.02
PO / AFE:	
LSD:	

Oil and Gas Required Fields (client use)	
Approver ID:	Cost Center:
GL Account:	Routing Code:
Activity Code:	
Location:	

ALS Lab Work Order # (lab use only)		ALS Contact:	Sampler: RM, AB, AN, MI

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	acidity (to pH 8.3)	alkalinity	chloride	conductivity	pH	sulphate	suspended solids, total (TSS)	dissolved metals (F/P)	total metals (P)	Number of Containers
	x25-96A	18-Jun-14	17:15	Water	R	R	R	R	R	R	R	R	R	3
	x25-96B	18-Jun-14	16:50	Water	R	R	R	R	R	R	R	R	R	3
	x24-96D	18-Jun-14	15:52	Water	R	R	R	R	R	R	R	R	R	3
	S1B	18-Jun-14	13:10	Water	R	R	R	R	R	R	R	R	R	3
	SRK05-08	20-Jun-14	11:26	Water	R	R	R	R	R	R	R	R	R	3
	P96-8B	19-Jun-14	13:26	Water	R	R	R	R	R	R	R	R	R	3
	P96-8A	19-Jun-14	13:01	Water	R	R	R	R	R	R	R	R	R	3
	P01-04A	18-Jun-14	18:00	Water	R	R	R	R	R	R	R	R	R	3
	P09-LCD6	20-Jun-14	12:25	Water	R	R	R	R	R	R	R	R	R	3
	V37	20-Jun-14	8:44	Water	R	R	R	R	R	R	R	R	R	3
	P09-LCD1	20-Jun-14	10:42	Water	R	R	R	R	R	R	R	R	R	3
	P2001-02A	19-Jun-14	17:50	Water	R	R	R	R	R	R	R	R	R	3

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report (client Use)
Are samples taken from a Regulated DW System? ☐ Yes ☑ No Are samples for human drinking water use? ☐ Yes ☑ No	- EDD must be in EQuIS format common to Faro Mine Remediation Project. Contact client if clarification is required. - See attached parameter sheet for required detection limits.

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen	☐	SIF Observations	Yes ☐	No ☐	
Ice packs	Yes ☐	No ☐	Custody seal intact	Yes ☐	No ☐
Cooling Initiated	☐				

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date:	Time:

FINAL SHIPMENT RECEPTION (lab use only)		
Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L1475049-COFC

COC Number: 1 -

Page 5 of 6

Report To		Report Format / D...		(Rush Turnaround Time (TAT) is not available for all tests)
Company:	Hemmera Environchem Inc.	Select Report Format: ☑PDF ☑EXCEL ☑EDD (DIGITAL)		R ☑Regular (Standard TAT if received by 3 pm - business days)
Contact:	Natasha Sandys	Quality Control (QC) Report with Report ☑ Yes ☐ No		P ☐Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT
Address:	230 - 2237 2nd Avenue Whitehorse, YT	☐Criteria on Report - provide details below if box checked		E ☐Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT
Phone:	867-456-4865	Select Distribution: ☑EMAIL ☐MAIL ☐FAX		E2 ☐Same day or weekend emergency - contact ALS to confirm TAT and surcharge
		Email 1 or Fax nsandys@hemmera.com, rmartinka@hemmera.com		Specify Date Required for E2,E or P:
Invoice To	Same as Report To ☑ Yes ☐ No	Email 2 chris@elr.ca		
	Copy of Invoice with Report ☐ Yes ☑ No	**Invoice Distribution**		**Analysis Request**
Company:	Hemmera Environchem Inc.	Select Invoice Distribution: ☑EMAIL ☐MAIL ☐FAX		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below
Contact:	Natasha Sandys	Email 1 or Fax nsandys@hemmera.com		
Project Information		Email 2 chris@elr.ca		
ALS Quote #:	Q45291	**Oil and Gas Required Fields (client use)**		
Job #:	1343-005.02	Approver ID:	Cost Center:	
PO / AFE:		GL Account:	Routing Code:	
LSD:		Activity Code:		
ALS Lab Work Order # (lab use only)		Location:		
		ALS Contact:	Sampler: RM, AB, AN, MI	

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	acidity (to pH 8.3)	alkalinity	chloride	conductivity	pH	sulphate	suspended solids, total (TSS)	dissolved metals F/P	total metals P					Number of Containers
	P2001-02B	20-Jun-14	8:15	Water	R	R	R	R	R	R	R	R	R					3
	BH05-9B-R	20-Jun-14	13:26	Water	R	R	R	R	R	R	R	R	R					3
	P96-9A	20-Jun-14	14:05	Water	R	R	R	R	R	R	R	R	R					3
	SRK05-9	20-Jun-14	15:40	Water	R	R	R	R	R	R	R	R	R					3
	SRK05-SP-5	20-Jun-14	17:10	Water	R	R	R	R	R	R	R	R	R					3
	S2B	20-Jun-14	17:30	Water	R	R	R	R	R	R	R	R	R					3
	S2A	21-Jun-14	10:45	Water	R	R	R	R	R	R	R	R	R					3
	P09-LCD4	21-Jun-14	9:15	Water	R	R	R	R	R	R	R	R	R					3
	SRK08-11B	21-Jun-14	10:08	Water	R	R	R	R	R	R	R	R	R					3
	SRK08-11A	21-Jun-14	10:44	Water	R	R	R	R	R	R	R	R	R					3
	DUP-6	19-Jun-14	13:01	Water	R	R	R	R	R	R	R	R	R					
	DUP-3	18-Jun-14	12:22	Water	R	R	R	R	R	R	R	R	R					

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report (client Use)	SAMPLE CONDITION AS RECEIVED (lab use only)
Are samples taken from a Regulated DW System? ☐ Yes ☑ No	- EDD must be in EQuIS format common to Faro Mine Remediation Project. Contact client if clarification is required. - See attached parameter sheet for required detection limits.	Frozen ☐ SIF Observations Yes ☐ No ☐ Ice packs Yes ☐ No ☐ Custody seal intact Yes ☐ No ☐ Cooling Initiated ☐
Are samples for human drinking water use? ☐ Yes ☑ No		INITIAL COOLER TEMPERATURES °C | FINAL COOLER TEMPERATURES °C

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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NA-FM-0326e v09 Front/04 January 2014

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1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L1475049-COFC

COC Number: 1 -

Page 6 of 6

Report To		Report Format		Turnaround Time (TAT) (Rush TAT is not available for all tests)
Company:	Hemmera Environchem Inc.	Select Report Format:	☑PDF ☑EXCEL ☑EDD (DIGITAL)	R ☑Regular (Standard TAT if received by 3 pm - business days)
Contact:	Natasha Sandys	Quality Control (QC) Report with Report	☑ Yes ☐ No	P ☐Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT
Address:	230 - 2237 2nd Avenue Whitehorse, YT	☐Criteria on Report - provide details below if box checked		E ☐Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT
Phone:	867-456-4865	Select Distribution:	☑EMAIL ☐MAIL ☐FAX	E2 ☐Same day or weekend emergency - contact ALS to confirm TAT and surcharge
		Email 1 or Fax	nsandys@hemmera.com, rmartinka@hemmera.com	Specify Date Required for E2,E or P:
		Email 2	chris@elr.ca	

Invoice To	Same as Report To ☑ Yes ☐ No	Invoice Distribution	
	Copy of Invoice with Report ☐ Yes ☑ No	Select Invoice Distribution:	☑EMAIL ☐MAIL ☐FAX
Company:	Hemmera Environchem Inc.	Email 1 or Fax	nsandys@hemmera.com
Contact:	Natasha Sandys	Email 2	chris@elr.ca

Project Information		Oil and Gas Required Fields (client use)	
ALS Quote #:	Q45291	Approver ID:	Cost Center:
Job #:	1343-005.02	GL Account:	Routing Code:
PO / AFE:		Activity Code:	
LSD:		Location:	

ALS Lab Work Order # (lab use only)

ALS Contact: **Sampler:** RM, AB, AN, MI

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	acidity (to pH 8.3)	alkalinity	chloride	conductivity	pH	sulphate	suspended solids, total (TSS)	dissolved metals F/P	total metals P					Number of Containers
	DUP-2	18-Jun-14	8:30	Water	R	R	R	R	R	R	R	R	R					3
	DUP-4	19-Jun-14	11:16	Water	R	R	R	R	R	R	R	R	R					3
	DUP-5	19-Jun-14	10:03	Water	R	R	R	R	R	R	R	R	R					3
	DUP-1	17-Jun-14	18:22	Water	R	R	R	R	R	R	R	R	R					3
	DUP-7	20-Jun-14	9:50	Water	R	R	R	R	R	R	R	R	R					3
	Field Blank	18-Jun-14	16:56	Water	R	R	R	R	R	R	R	R	R					3
	Trip Blank			Water	R	R	R	R	R	R	R	R	R					3
																		3
																		3
																		3
																		3

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System?
☐ Yes ☑ No

Are samples for human drinking water use?
☐ Yes ☑ No

Special Instructions / Specify Criteria to add on report (client Use)

- EDD must be in EQuIS format common to Faro Mine Remediation Project. Contact client if clarification is required.
- See attached parameter sheet for required detection limits.

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen	☐		SIF Observations	Yes ☐	No ☐
Ice packs	Yes ☐	No ☐	Custody seal intact	Yes ☐	No ☐
Cooling Initiated	☐				

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

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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 specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.