HEMMERA ENVIROCHEM INC.
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Date Received: 16-SEP-14
Report Date: 29-SEP-14 15:52 (MT)
Version: FINAL

Client Phone: --

Certificate of Analysis

Lab Work Order #: L1518297

Project P.O. #: NOT SUBMITTED
Job Reference: 1343-005.02
C of C Numbers: 1, 2, 3, 4, 5, 6, 7
Legal Site Desc:

Brent Mack
Account Manager

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1518297-1 Water TRAVEL BLANK	L1518297-2 Water 12-SEP-14 DUP 8	L1518297-3 Water 15-SEP-14 09:33 P03-06-6	L1518297-4 Water 13-SEP-14 DUP 7	L1518297-5 Water 11-SEP-14 DUP 5
WATER						
Physical Tests	Conductivity (uS/cm)	<2.0	519	20000	2590	2110
	Hardness (as CaCO3) (mg/L)	<0.50	262	15700	1740	1540
	pH (pH)	5.84	6.49	4.09	6.55	7.58
	Total Suspended Solids (mg/L)	<1.0	7.6	3690	40.8	10.4
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	1.9	72.5	10300	71.6	59.2
	Alkalinity, Total (as CaCO3) (mg/L)	<2.0	106	<2.0	138	929
	Chloride (Cl) (mg/L)	<0.50	<0.50	38	<10 DLA	<10 DLA
	Sulfate (SO4) (mg/L)	<0.50	174	25300	1730	565
	Anion Sum (meq/L)	<0.10	5.74	529	38.8	30.3
	Cation Sum (meq/L)	<0.10	6.07	536	38.7	31.3
	Cation - Anion Balance (%)	0.0	2.7	0.7	0.0	1.6
Total Metals	Aluminum (Al)-Total (mg/L)	<0.0030	0.213	16.1	<0.0060 DLA	0.839
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010	0.099	<0.00020 DLA	0.00013
	Arsenic (As)-Total (mg/L)	<0.00010	0.00031	0.807	0.00032	0.00220
	Barium (Ba)-Total (mg/L)	<0.000050	0.0300	0.886	0.0382	0.0537
	Beryllium (Be)-Total (mg/L)	<0.00010	0.00011	<0.050 DLA	<0.00020 DLA	<0.00010
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.25 DLA	<0.0010 DLA	<0.00050
	Boron (B)-Total (mg/L)	<0.010	<0.010	<5.0 DLA	<0.020 DLA	0.025
	Cadmium (Cd)-Total (mg/L)	<0.000010	0.00205	0.250	0.000250	0.000025
	Calcium (Ca)-Total (mg/L)	<0.050	70.4	380	522	215
	Chromium (Cr)-Total (mg/L)	<0.00010	0.00066	0.119	<0.00020 DLA	0.00340
	Cobalt (Co)-Total (mg/L)	<0.00010	0.0478	1.79	0.0477	0.00240
	Copper (Cu)-Total (mg/L)	<0.00050	0.00091	2.94	<0.0010 DLA	0.00199
	Iron (Fe)-Total (mg/L)	<0.010	5.92	2490	31.6	3.25
	Lead (Pb)-Total (mg/L)	<0.000050	0.00618	16.4	0.00014	0.00110
	Lithium (Li)-Total (mg/L)	<0.00050	0.0285	0.47	0.0145	0.0282
	Magnesium (Mg)-Total (mg/L)	<0.10	19.2	3490	105	243
	Manganese (Mn)-Total (mg/L)	<0.000050	1.66	652	5.41	0.0744
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	<0.000050	0.000142	<0.025 DLA	0.00016	0.00155
	Nickel (Ni)-Total (mg/L)	<0.00050	0.0515	1.83	0.0401	0.00615
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050	<0.50 DLA	0.170	<0.050
	Potassium (K)-Total (mg/L)	<0.10	2.18	12.3	3.91	4.95
	Selenium (Se)-Total (mg/L)	<0.00010	<0.00010	<0.050 DLA	<0.00020 DLA	<0.00010
	Silicon (Si)-Total (mg/L)	<0.050	8.23	27.9	8.70	8.63
	Silver (Ag)-Total (mg/L)	<0.000010	0.000014	0.0366	0.000029	0.000025
	Sodium (Na)-Total (mg/L)	<0.050	5.90	120	32.7	8.11

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1518297-6	L1518297-7	L1518297-8	L1518297-9	L1518297-10
	Description	Water	Water	Water	Water	Water
	Sampled Date	14-SEP-14	11-SEP-14	15-SEP-14	15-SEP-14	11-SEP-14
	Sampled Time			09:48	11:06	17:21
	Client ID	DUP 9	DUP 6	MW14-02S	MW14-02D	P96-8B
Grouping	**Analyte**					
WATER						
Physical Tests	Conductivity (uS/cm)	1990	1080	164	495	9430
	Hardness (as CaCO3) (mg/L)	1440	643	84.4	232	7100
	pH (pH)	7.71	6.91	7.85	6.45	5.44
	Total Suspended Solids (mg/L)	6.6	8.4	31.0	4.6	12.8
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	19.0	89.4	3.6	153	2330
	Alkalinity, Total (as CaCO3) (mg/L)	280	379	70.5	195	36.9
	Chloride (Cl) (mg/L)	<5.0 DLA	<5.0 DLA	<0.50	<0.50	31
	Sulfate (SO4) (mg/L)	1060	277	11.2	74.7	9560
	Anion Sum (meq/L)	27.6	13.3	1.64	5.46	201
	Cation Sum (meq/L)	29.1	14.2	1.79	5.94	201
	Cation - Anion Balance (%)	2.7	3.0	4.4	4.2	0.0
Total Metals	Aluminum (Al)-Total (mg/L)	0.366	0.148	0.478	0.180	3.11
	Antimony (Sb)-Total (mg/L)	0.00026	<0.00010	0.00011	<0.00010	<0.020 DLA
	Arsenic (As)-Total (mg/L)	0.00054	0.0246	0.00066	0.00208	<0.020 DLA
	Barium (Ba)-Total (mg/L)	0.0618	0.0479	0.0524	0.0339	0.016
	Beryllium (Be)-Total (mg/L)	<0.00020 DLA	0.00020	<0.00010	0.00102	<0.020 DLA
	Bismuth (Bi)-Total (mg/L)	<0.0010 DLA	<0.00050	<0.00050	<0.00050	<0.10 DLA
	Boron (B)-Total (mg/L)	<0.020 DLA	0.014	<0.010	<0.010	<2.0 DLA
	Cadmium (Cd)-Total (mg/L)	0.000056	0.000202	0.000043	0.000081	0.297
	Calcium (Ca)-Total (mg/L)	401	154	25.9	60.5	436
	Chromium (Cr)-Total (mg/L)	0.00365	0.00052	0.00335	0.00121	<0.020 DLA
	Cobalt (Co)-Total (mg/L)	0.00055	0.00314	0.00032	0.00442	2.21
	Copper (Cu)-Total (mg/L)	0.0050	0.00051	0.00181	0.00107	<0.10 DLA
	Iron (Fe)-Total (mg/L)	0.724	14.7	0.960	15.1	401
	Lead (Pb)-Total (mg/L)	0.00094	0.000178	0.000848	0.000356	0.106
	Lithium (Li)-Total (mg/L)	0.0099	0.0329	0.00386	0.0414	0.30
	Magnesium (Mg)-Total (mg/L)	104	62.0	5.31	20.1	1470
	Manganese (Mn)-Total (mg/L)	0.00918	0.772	0.0366	0.904	156
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	0.000011	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	0.00099	0.000608	0.000839	0.000180	<0.010 DLA
	Nickel (Ni)-Total (mg/L)	0.0033	0.00819	0.00288	0.0129	2.44
	Phosphorus (P)-Total (mg/L)	<0.050	0.217	<0.050	<0.050	<0.25 DLA
	Potassium (K)-Total (mg/L)	1.25	5.02	0.76	2.76	20.1
	Selenium (Se)-Total (mg/L)	0.00116	0.00026	0.00024	<0.00010	<0.020 DLA
	Silicon (Si)-Total (mg/L)	6.72	13.7	5.91	11.2	17.6
	Silver (Ag)-Total (mg/L)	<0.000020 DLA	<0.000010	0.000012	<0.000010	<0.0020 DLA
	Sodium (Na)-Total (mg/L)	5.76	9.55	2.05	8.99	68

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ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1518297-11	L1518297-12	L1518297-13	L1518297-14	L1518297-15
	Description	Water	Water	Water	Water	Water
	Sampled Date	11-SEP-14	11-SEP-14	11-SEP-14	11-SEP-14	11-SEP-14
	Sampled Time	16:46	15:34	14:35	13:18	12:18
	Client ID	P96-8A	SRK08-P9	SRK08-SBR2	SRK08-SBR3	SRK05-SP-1B
Grouping	**Analyte**					
WATER						
Physical Tests	Conductivity (uS/cm)	9270	2290	3530	3340	1070
	Hardness (as CaCO3) (mg/L)	6590	1590	2590	2510	646
	pH (pH)	3.61	7.74	6.63	7.39	6.93
	Total Suspended Solids (mg/L)	7.8	55.2	579	20.0	10.6
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	2890	16.2	299	74.7	102
	Alkalinity, Total (as CaCO3) (mg/L)	<2.0	232	284	765	378
	Chloride (Cl) (mg/L)	<25 DLA	<10 DLA	<10 DLA	<10 DLA	<5.0 DLA
	Sulfate (SO4) (mg/L)	9530	1370	2530	1850	277
	Anion Sum (meq/L)	198	33.1	58.3	53.7	13.3
	Cation Sum (meq/L)	191	32.8	58.1	52.6	14.2
	Cation - Anion Balance (%)	-1.9	-0.5	-0.2	-1.1	3.3
Total Metals	Aluminum (Al)-Total (mg/L)	22.9	1.71	8.87	0.390	0.142
	Antimony (Sb)-Total (mg/L)	<0.020 DLA	<0.00020 DLA	0.0021	<0.00020 DLA	<0.00010
	Arsenic (As)-Total (mg/L)	<0.020 DLA	0.00214	0.0288	0.00039	0.0255
	Barium (Ba)-Total (mg/L)	0.013	0.0433	0.174	0.0213	0.0495
	Beryllium (Be)-Total (mg/L)	<0.020 DLA	<0.00020 DLA	<0.0020 DLA	<0.00020 DLA	0.00019
	Bismuth (Bi)-Total (mg/L)	<0.10 DLA	<0.0010 DLA	<0.010 DLA	<0.0010 DLA	<0.00050
	Boron (B)-Total (mg/L)	<2.0 DLA	<0.020 DLA	<0.20 DLA	<0.020 DLA	0.014
	Cadmium (Cd)-Total (mg/L)	0.398	0.000044	0.0660	<0.000020 DLA	0.000206
	Calcium (Ca)-Total (mg/L)	423	424	308	416	154
	Chromium (Cr)-Total (mg/L)	<0.020 DLA	0.0116	0.0366	0.00165	0.00050
	Cobalt (Co)-Total (mg/L)	2.45	0.00637	0.312	0.00243	0.00324
	Copper (Cu)-Total (mg/L)	0.28	0.0079	0.062	0.0017	0.00051
	Iron (Fe)-Total (mg/L)	307	4.55	49.4	1.27	14.3
	Lead (Pb)-Total (mg/L)	0.209	0.00244	0.354	0.00069	0.000171
	Lithium (Li)-Total (mg/L)	0.33	0.0167	0.090	0.0798	0.0323
	Magnesium (Mg)-Total (mg/L)	1370	132	413	355	63.0
	Manganese (Mn)-Total (mg/L)	160	0.768	31.2	0.0352	0.815
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	<0.010 DLA	0.00345	0.0020	0.00012	0.000604
	Nickel (Ni)-Total (mg/L)	2.79	0.0178	0.663	0.0367	0.00864
	Phosphorus (P)-Total (mg/L)	<0.25 DLA	0.110	0.384	<0.050	0.226
	Potassium (K)-Total (mg/L)	18.5	2.20	9.21	7.57	4.86
	Selenium (Se)-Total (mg/L)	<0.020 DLA	<0.00020 DLA	<0.0020 DLA	0.00074	0.00020
	Silicon (Si)-Total (mg/L)	35.6	10.3	29.1	5.62	13.3
	Silver (Ag)-Total (mg/L)	<0.0020 DLA	0.000024	0.00545	0.000321	<0.000010
	Sodium (Na)-Total (mg/L)	71	19.2	20.1	52.8	9.84

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1518297-16 Water 11-SEP-14 09:35 MW14-09	L1518297-17 Water 11-SEP-14 10:13 MW14-10	L1518297-18 Water 11-SEP-14 08:52 SRK05-SP-2	L1518297-19 Water 11-SEP-14 10:30 S1B	L1518297-20 Water 11-SEP-14 16:48 FB1
WATER						
Physical Tests	Conductivity (uS/cm)	720	1040	513	772	<2.0
	Hardness (as CaCO3) (mg/L)	374	325	270	417	<0.50
	pH (pH)	7.29	8.06	7.28	7.27	6.08
	Total Suspended Solids (mg/L)	16.6	39.2	<1.0	1.8	<1.0
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	21.3	4.7	32.3	39.0	2.0
	Alkalinity, Total (as CaCO3) (mg/L)	249	372	131	266	<1.0
	Chloride (Cl) (mg/L)	1.39	<5.0 DLA	<0.50	<0.50	<0.50
	Sulfate (SO4) (mg/L)	175	240	150	187	<0.50
	Anion Sum (meq/L)	8.67	12.4	5.75	9.20	<0.10
	Cation Sum (meq/L)	9.01	12.6	5.95	9.45	<0.10
	Cation - Anion Balance (%)	1.9	0.5	1.7	1.3	0.0
Total Metals	Aluminum (Al)-Total (mg/L)	0.564	1.53	0.0187	0.0449	<0.0030
	Antimony (Sb)-Total (mg/L)	0.00013	0.00020	<0.00010	0.00020	<0.00010
	Arsenic (As)-Total (mg/L)	0.00210	0.00112	<0.00010	0.00030	<0.00010
	Barium (Ba)-Total (mg/L)	0.0653	0.0602	0.0867	0.0473	<0.000050
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Total (mg/L)	0.023	0.012	<0.010	<0.010	<0.010
	Cadmium (Cd)-Total (mg/L)	0.000129	0.000087	0.000205	0.000168	<0.000010
	Calcium (Ca)-Total (mg/L)	94.5	85.8	75.4	113	<0.050
	Chromium (Cr)-Total (mg/L)	0.00126	0.00441	0.00011	0.00024	<0.00010
	Cobalt (Co)-Total (mg/L)	0.00530	0.00129	0.00779	0.00010	<0.00010
	Copper (Cu)-Total (mg/L)	0.00256	0.00387	0.00098	0.00378	<0.00050
	Iron (Fe)-Total (mg/L)	1.49	2.16	0.034	0.083	<0.010
	Lead (Pb)-Total (mg/L)	0.00124	0.00102	0.000055	0.000140	<0.000050
	Lithium (Li)-Total (mg/L)	0.0137	0.0251	0.0124	0.0130	<0.00050
	Magnesium (Mg)-Total (mg/L)	32.1	22.2	18.7	31.1	<0.10
	Manganese (Mn)-Total (mg/L)	2.09	0.0384	1.97	0.0129	<0.000050
	Mercury (Hg)-Total (mg/L)	<0.000010	0.000018	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	0.00191	0.000944	0.000140	0.000197	<0.000050
	Nickel (Ni)-Total (mg/L)	0.0134	0.00501	0.00695	0.00418	<0.00050
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Total (mg/L)	3.00	4.05	2.05	2.63	<0.10
	Selenium (Se)-Total (mg/L)	0.00023	0.00265	<0.00010	0.00014	<0.00010
	Silicon (Si)-Total (mg/L)	7.96	7.48	7.03	6.14	<0.050
	Silver (Ag)-Total (mg/L)	0.000016	0.000019	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)	33.1	133	10.2	27.4	<0.050

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ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1518297-21	L1518297-22	L1518297-23	L1518297-24	L1518297-25
	Description	Water	Water	Water	Water	Water
	Sampled Date	11-SEP-14	11-SEP-14	11-SEP-14	11-SEP-14	11-SEP-14
	Sampled Time	14:25	09:37	10:46	15:44	12:10
	Client ID	P2001-2B	V34	V35	V36	P2001-3
Grouping	**Analyte**					
WATER						
Physical Tests	Conductivity (uS/cm)	2900	2080	2630	3250	936
	Hardness (as CaCO3) (mg/L)	2150	1450	1920	2460	507
	pH (pH)	7.32	7.53	7.57	7.69	8.12
	Total Suspended Solids (mg/L)	23.2	10.2	2.6	14.0	107
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	72.9	58.1	47.4	43.0	4.9
	Alkalinity, Total (as CaCO3) (mg/L)	741	928	544	622	450
	Chloride (Cl) (mg/L)	<10 DLA	<5.0 DLA	<10 DLA	<10 DLA	<2.5 DLA
	Sulfate (SO4) (mg/L)	1500	553	1440	2010	124
	Anion Sum (meq/L)	46.1	30.1	40.8	54.2	11.6
	Cation Sum (meq/L)	43.6	29.5	38.8	49.6	11.7
	Cation - Anion Balance (%)	-2.8	-1.0	-2.6	-4.4	0.6
Total Metals	Aluminum (Al)-Total (mg/L)	0.464	0.831	0.0595	0.259	2.66
	Antimony (Sb)-Total (mg/L)	<0.00020 DLA	0.00010	0.00028	0.00033	0.00031
	Arsenic (As)-Total (mg/L)	0.0135	0.00228	0.00053	0.00672	0.00680
	Barium (Ba)-Total (mg/L)	0.0182	0.0572	0.0119	0.0148	0.108
	Beryllium (Be)-Total (mg/L)	<0.00020 DLA	<0.00010	<0.00020 DLA	<0.00020 DLA	0.00012
	Bismuth (Bi)-Total (mg/L)	<0.0010 DLA	<0.00050	<0.0010 DLA	<0.0010 DLA	<0.00050
	Boron (B)-Total (mg/L)	<0.020 DLA	0.025	<0.020 DLA	0.022	0.026
	Cadmium (Cd)-Total (mg/L)	<0.000020 DLA	0.000033	0.000147	0.000520	0.000792
	Calcium (Ca)-Total (mg/L)	438	217	417	457	97.2
	Chromium (Cr)-Total (mg/L)	0.00071	0.00337	0.00108	0.00195	0.00779
	Cobalt (Co)-Total (mg/L)	0.00045	0.00265	<0.00020 DLA	0.00230	0.00245
	Copper (Cu)-Total (mg/L)	0.0010	0.00209	0.0011	0.0037	0.0101
	Iron (Fe)-Total (mg/L)	3.20	3.18	0.083	0.545	4.05
	Lead (Pb)-Total (mg/L)	0.00388	0.00105	0.00064	0.0114	0.00344
	Lithium (Li)-Total (mg/L)	0.0379	0.0279	0.0232	0.0451	0.0123
	Magnesium (Mg)-Total (mg/L)	255	230	223	335	65.1
	Manganese (Mn)-Total (mg/L)	0.117	0.0815	0.00384	0.128	0.786
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	0.00049	0.00158	0.00103	0.00135	0.0134
	Nickel (Ni)-Total (mg/L)	0.0033	0.00676	0.0047	0.0153	0.0103
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050	<0.050	<0.050	0.111
	Potassium (K)-Total (mg/L)	5.09	4.98	4.09	5.87	3.87
	Selenium (Se)-Total (mg/L)	<0.00020 DLA	<0.00010	0.00176	0.00058	0.00013
	Silicon (Si)-Total (mg/L)	8.02	8.51	6.16	7.60	12.4
	Silver (Ag)-Total (mg/L)	<0.000020 DLA	0.000012	<0.000020 DLA	<0.000020 DLA	0.000050
	Sodium (Na)-Total (mg/L)	9.25	8.57	8.24	9.28	33.3

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1518297-26 Water 12-SEP-14 15:49 SRK05-5C	L1518297-27 Water 12-SEP-14 14:39 BH05-9B-R	L1518297-28 Water 12-SEP-14 13:56 P96-9A	L1518297-29 Water 12-SEP-14 12:00 SRK05-07	L1518297-30 Water 12-SEP-14 09:29 P09-VC2
WATER						
Physical Tests	Conductivity (uS/cm)	647	599	3140	3230	390
	Hardness (as CaCO3) (mg/L)	332	226	2540	2610	212
	pH (pH)	8.10	8.19	7.83	7.61	8.02
	Total Suspended Solids (mg/L)	15.6	8.6	<1.0	<1.0	7.4
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	3.2	1.8	28.6	54.8	3.8
	Alkalinity, Total (as CaCO3) (mg/L)	169	147	569	692	175
	Chloride (Cl) (mg/L)	<0.50	1.12	<10 DLA	<10 DLA	<0.50
	Sulfate (SO4) (mg/L)	189	168	1900	1910	41.1
	Anion Sum (meq/L)	7.32	6.46	51.0	53.6	4.36
	Cation Sum (meq/L)	7.49	6.64	51.5	52.9	4.64
	Cation - Anion Balance (%)	1.2	1.4	0.4	-0.7	3.2
Total Metals	Aluminum (Al)-Total (mg/L)	0.616	0.192	0.0101	0.0311	0.0832
	Antimony (Sb)-Total (mg/L)	0.00017	<0.00010	<0.00020 DLA	0.00060	0.00070
	Arsenic (As)-Total (mg/L)	0.00533	0.0319	0.00110	0.00341	0.125
	Barium (Ba)-Total (mg/L)	0.102	0.0211	0.0560	0.0471	0.0438
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00010	<0.00020 DLA	<0.00020 DLA	<0.00010
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.0010 DLA	<0.0010 DLA	<0.00050
	Boron (B)-Total (mg/L)	0.015	0.043	<0.020 DLA	<0.020 DLA	<0.010
	Cadmium (Cd)-Total (mg/L)	0.000124	0.000021	0.000710	0.000109	0.000017
	Calcium (Ca)-Total (mg/L)	82.4	50.1	369	493	62.7
	Chromium (Cr)-Total (mg/L)	0.00189	0.00059	0.00043	0.00085	0.00023
	Cobalt (Co)-Total (mg/L)	0.00102	0.00017	<0.00020 DLA	0.00230	0.00031
	Copper (Cu)-Total (mg/L)	0.00182	0.00114	0.0029	0.0012	0.00063
	Iron (Fe)-Total (mg/L)	0.999	1.93	0.142	0.085	2.27
	Lead (Pb)-Total (mg/L)	0.00535	0.00734	0.00039	0.00064	0.00669
	Lithium (Li)-Total (mg/L)	0.00903	0.0222	0.0140	0.0108	0.00813
	Magnesium (Mg)-Total (mg/L)	25.4	23.2	330	332	12.3
	Manganese (Mn)-Total (mg/L)	0.997	0.0953	0.0535	0.0645	0.0957
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	0.0218	0.0114	0.00091	0.00058	0.0109
	Nickel (Ni)-Total (mg/L)	0.00345	0.00077	0.0146	0.0541	0.00051
	Phosphorus (P)-Total (mg/L)	<0.050	0.061	<0.050	<0.050	<0.050
	Potassium (K)-Total (mg/L)	1.91	1.91	5.65	2.66	1.18
	Selenium (Se)-Total (mg/L)	<0.00010	<0.00010	<0.00020 DLA	<0.00020 DLA	<0.00010
	Silicon (Si)-Total (mg/L)	6.47	6.94	6.00	7.37	6.71
	Silver (Ag)-Total (mg/L)	0.000017	0.000017	<0.000020 DLA	<0.000020 DLA	<0.000010
	Sodium (Na)-Total (mg/L)	18.6	47.5	14.1	14.5	6.16

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1518297-31 Water 12-SEP-14 10:40 P09-VC1	L1518297-32 Water 12-SEP-14 12:56 SRK05-8	L1518297-33 Water 12-SEP-14 14:59 BH14B	L1518297-34 Water 12-SEP-14 18:16 P96-6	L1518297-35 Water 12-SEP-14 15:04 BH13B
WATER						
Physical Tests	Conductivity (uS/cm)	345	2610	3780	2160	1160
	Hardness (as CaCO3) (mg/L)	151	1920	2790	1470	681
	pH (pH)	8.19	7.60	7.37	7.23	7.53
	Total Suspended Solids (mg/L)	23.0	1.0	33.8	1.8	<1.0
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	1.6	41.8	55.9	50.3	8.1
	Alkalinity, Total (as CaCO3) (mg/L)	133	605	476	289	99.5
	Chloride (Cl) (mg/L)	<0.50	<10 DLA	<10 DLA	<10 DLA	<5.0 DLA
	Sulfate (SO4) (mg/L)	51.3	1400	2440	1260	603
	Anion Sum (meq/L)	3.72	41.2	60.3	32.1	14.5
	Cation Sum (meq/L)	3.91	38.8	56.6	29.8	14.0
	Cation - Anion Balance (%)	2.4	-3.0	-3.2	-3.7	-1.9
Total Metals	Aluminum (Al)-Total (mg/L)	0.630	0.0419	0.0377	0.0314	0.0310
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00020 DLA	<0.00020 DLA	<0.00020 DLA	<0.00010
	Arsenic (As)-Total (mg/L)	0.00256	0.00042	0.00031	0.00060	<0.00010
	Barium (Ba)-Total (mg/L)	0.0249	0.0127	0.0260	0.0226	0.0308
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00020 DLA	<0.00020 DLA	<0.00020 DLA	<0.00010
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.0010 DLA	<0.0010 DLA	<0.0010 DLA	<0.00050
	Boron (B)-Total (mg/L)	<0.010	<0.020 DLA	<0.020 DLA	<0.020 DLA	<0.010
	Cadmium (Cd)-Total (mg/L)	0.000132	0.000037	0.000254	0.000336	0.000047
	Calcium (Ca)-Total (mg/L)	44.5	394	551	343	159
	Chromium (Cr)-Total (mg/L)	0.00071	0.00071	0.00038	<0.00020 DLA	0.00014
	Cobalt (Co)-Total (mg/L)	0.00028	0.00044	<0.00020 DLA	<0.00020 DLA	0.00144
	Copper (Cu)-Total (mg/L)	0.00143	0.0029	0.0011	<0.0010 DLA	0.00511
	Iron (Fe)-Total (mg/L)	1.02	0.081	0.135	0.136	0.072
	Lead (Pb)-Total (mg/L)	0.00493	0.00045	0.0265	0.00025	0.000084
	Lithium (Li)-Total (mg/L)	0.00377	0.0185	0.0760	0.0331	0.0162
	Magnesium (Mg)-Total (mg/L)	8.83	221	349	153	70.2
	Manganese (Mn)-Total (mg/L)	0.0188	0.00172	0.0100	0.00279	0.00138
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	0.000547	0.00047	0.00023	0.00010	0.00375
	Nickel (Ni)-Total (mg/L)	0.00090	0.0017	0.0147	0.0132	0.00787
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Total (mg/L)	1.01	1.91	4.38	4.57	3.01
	Selenium (Se)-Total (mg/L)	<0.00010	0.00031	0.00069	0.00393	0.00990
	Silicon (Si)-Total (mg/L)	7.09	6.19	9.23	8.69	3.93
	Silver (Ag)-Total (mg/L)	0.000147	<0.000020 DLA	0.000027	<0.000020 DLA	<0.000010
	Sodium (Na)-Total (mg/L)	19.2	10.7	18.3	6.03	7.16

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1518297-36	L1518297-37	L1518297-38	L1518297-39	L1518297-40
	Description	Water	Water	Water	Water	Water
	Sampled Date	12-SEP-14	12-SEP-14	12-SEP-14	12-SEP-14	12-SEP-14
	Sampled Time	16:00	13:20	12:18	11:45	10:49
	Client ID	BH14A	BH5	SRK08-P12A	SRK08-P12B	BH10A
Grouping	**Analyte**					
WATER						
Physical Tests	Conductivity (uS/cm)	4190	681	1250	857	452
	Hardness (as CaCO3) (mg/L)	3220	324	727	477	251
	pH (pH)	7.45	6.66	6.53	6.31	7.12
	Total Suspended Solids (mg/L)	8.8	3.0	83.4	6.8	3.6
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	81.8	210	220	210	33.9
	Alkalinity, Total (as CaCO3) (mg/L)	587	258	647	415	161
	Chloride (Cl) (mg/L)	<10 DLA	0.61	<5.0 DLA	<2.5 DLA	<0.50
	Sulfate (SO4) (mg/L)	2800	127	170	107	86.3
	Anion Sum (meq/L)	70.0	7.81	16.5	10.5	5.02
	Cation Sum (meq/L)	66.1	8.55	16.7	10.7	5.29
	Cation - Anion Balance (%)	-2.8	4.5	0.6	0.8	2.6
Total Metals	Aluminum (Al)-Total (mg/L)	0.197	0.101	1.76	0.175	0.0736
	Antimony (Sb)-Total (mg/L)	<0.00050 DLA	<0.00010	0.00066	<0.00010	<0.00010
	Arsenic (As)-Total (mg/L)	0.00101	0.00088	0.00652	0.00035	0.00026
	Barium (Ba)-Total (mg/L)	0.0369	0.0438	0.0575	0.127	0.0234
	Beryllium (Be)-Total (mg/L)	<0.00050 DLA	0.00030	0.00100	0.00056	<0.00010
	Bismuth (Bi)-Total (mg/L)	<0.0025 DLA	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Total (mg/L)	<0.050 DLA	<0.010	0.011	<0.010	<0.010
	Cadmium (Cd)-Total (mg/L)	0.00302	0.00103	0.000099	0.000092	0.00454
	Calcium (Ca)-Total (mg/L)	513	81.3	197	136	70.8
	Chromium (Cr)-Total (mg/L)	0.00074	0.00047	0.00752	0.00055	0.00036
	Cobalt (Co)-Total (mg/L)	0.00096	0.0187	0.00974	0.00428	0.00021
	Copper (Cu)-Total (mg/L)	0.0048	0.00081	0.00622	0.00065	0.00223
	Iron (Fe)-Total (mg/L)	0.588	23.3	18.5	4.45	0.331
	Lead (Pb)-Total (mg/L)	0.0832	0.00301	0.0166	0.00162	0.00230
	Lithium (Li)-Total (mg/L)	0.109	0.0355	0.110	0.0968	0.00955
	Magnesium (Mg)-Total (mg/L)	461	30.1	59.7	37.0	16.6
	Manganese (Mn)-Total (mg/L)	0.0797	1.92	0.934	0.736	0.00600
	Mercury (Hg)-Total (mg/L)	0.000084	<0.000010	<0.000050 DLM	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	0.00046	0.000052	0.000376	0.000059	<0.000050
	Nickel (Ni)-Total (mg/L)	0.304	0.0248	0.0232	0.00827	0.00265
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050	0.110	<0.050	<0.050
	Potassium (K)-Total (mg/L)	4.42	3.47	3.84	3.74	1.35
	Selenium (Se)-Total (mg/L)	0.00096	<0.00010	<0.00010	<0.00010	0.00049
	Silicon (Si)-Total (mg/L)	10.8	12.1	13.8	10.8	6.40
	Silver (Ag)-Total (mg/L)	0.000260	<0.000010	0.000088	0.000011	<0.000010
	Sodium (Na)-Total (mg/L)	21.6	13.4	28.4	19.3	5.24

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1518297-41	L1518297-42	L1518297-43	L1518297-44	L1518297-45
	Description	Water	Water	Water	Water	Water
	Sampled Date	12-SEP-14	12-SEP-14	12-SEP-14	13-SEP-14	13-SEP-14
	Sampled Time	09:59	08:56	08:21	10:10	10:10
	Client ID	BH10B	P05-04	BH6	MW14-13	DUP10
Grouping	**Analyte**					
WATER						
Physical Tests	Conductivity (uS/cm)	410	554	519	1640	1640
	Hardness (as CaCO3) (mg/L)	220	310	254	1060	1060
	pH (pH)	7.18	6.93	6.81	6.48	6.49
	Total Suspended Solids (mg/L)	57.2	<1.0	7.0	<1.0	<1.0
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	34.1	49.4	67.8	178	208
	Alkalinity, Total (as CaCO3) (mg/L)	155	155	107	407	402
	Chloride (Cl) (mg/L)	<0.50	<0.50	<0.50	<5.0 DLA	<5.0 DLA
	Sulfate (SO4) (mg/L)	69.5	150	171	687	686
	Anion Sum (meq/L)	4.55	6.22	5.70	22.4	22.3
	Cation Sum (meq/L)	4.71	6.57	5.90	22.1	22.2
	Cation - Anion Balance (%)	1.7	2.7	1.7	-0.8	-0.3
Total Metals	Aluminum (Al)-Total (mg/L)	5.47	0.0933	0.228	0.0766	0.0888
	Antimony (Sb)-Total (mg/L)	0.00030	<0.00010	<0.00010	<0.00020 DLA	<0.00010
	Arsenic (As)-Total (mg/L)	0.00308	<0.00010	0.00033	<0.00020 DLA	0.00026
	Barium (Ba)-Total (mg/L)	0.0559	0.0359	0.0302	0.0625	0.0604
	Beryllium (Be)-Total (mg/L)	0.00048	<0.00010	0.00013	<0.00020 DLA	<0.00010
	Bismuth (Bi)-Total (mg/L)	0.00053	<0.00050	<0.00050	<0.0010 DLA	<0.00050
	Boron (B)-Total (mg/L)	<0.010	<0.010	<0.010	<0.020 DLA	0.010
	Cadmium (Cd)-Total (mg/L)	0.00150	0.00411	0.00215	0.00375	0.00353
	Calcium (Ca)-Total (mg/L)	58.7	84.1	73.3	284	280
	Chromium (Cr)-Total (mg/L)	0.00278	0.00017	0.00069	0.00036	0.00035
	Cobalt (Co)-Total (mg/L)	0.00098	0.00119	0.0486	0.00055	0.00050
	Copper (Cu)-Total (mg/L)	0.0116	0.00090	0.00096	0.0031	0.00320
	Iron (Fe)-Total (mg/L)	2.93	0.223	6.23	0.028	0.028
	Lead (Pb)-Total (mg/L)	0.143	0.000270	0.00635	<0.00010 DLA	0.000075
	Lithium (Li)-Total (mg/L)	0.0144	0.0139	0.0288	0.0360	0.0362
	Magnesium (Mg)-Total (mg/L)	16.0	21.7	19.6	84.6	82.3
	Manganese (Mn)-Total (mg/L)	0.0242	0.0203	1.69	0.471	0.447
	Mercury (Hg)-Total (mg/L)	0.000063	<0.000010	<0.000010	<0.000010	<0.000050 DLM
	Molybdenum (Mo)-Total (mg/L)	0.000164	0.000062	0.000153	<0.00010 DLA	0.000084
	Nickel (Ni)-Total (mg/L)	0.00606	0.0171	0.0528	0.134	0.121
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Total (mg/L)	1.75	1.59	2.26	4.99	5.17
	Selenium (Se)-Total (mg/L)	0.00034	0.00032	<0.00010	0.00036	0.00038
	Silicon (Si)-Total (mg/L)	7.90	6.32	8.54	13.6	13.5
	Silver (Ag)-Total (mg/L)	0.000270	<0.000010	0.000016	<0.000020 DLA	0.000020
	Sodium (Na)-Total (mg/L)	5.37	6.01	6.09	13.0	11.8

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1518297-46 Water 13-SEP-14 09:33 MW14-16	L1518297-47 Water 13-SEP-14 13:34 MW14-12S	L1518297-48 Water 13-SEP-14 11:52 MW14-12D	L1518297-49 Water 13-SEP-14 08:30 BH8	L1518297-50 Water 13-SEP-14 18:20 P2001-2A
WATER						
Physical Tests	Conductivity (uS/cm)	1620	616	817	3320	2930
	Hardness (as CaCO3) (mg/L)	1060	330	479	1540	2170
	pH (pH)	6.85	7.58	7.17	5.13	7.55
	Total Suspended Solids (mg/L)	1.2	69.8	<1.0	98.7	42.8
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	121	13.8	51.7	991	58.2
	Alkalinity, Total (as CaCO3) (mg/L)	490	35.0	211	<1.0	756
	Chloride (Cl) (mg/L)	<5.0 DLA	<0.50	2.7	<10 DLA	<10 DLA
	Sulfate (SO4) (mg/L)	582	284	267	2770	1550
	Anion Sum (meq/L)	21.9	6.62	9.85	57.7	47.3
	Cation Sum (meq/L)	21.9	6.96	10.0	63.3	44.2
	Cation - Anion Balance (%)	0.0	2.5	0.9	4.6	-3.4
Total Metals	Aluminum (Al)-Total (mg/L)	0.0443	0.865	0.0472	2.26	0.713
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.0020 DLA	0.00037
	Arsenic (As)-Total (mg/L)	0.00032	0.00073	0.00023	0.0020	0.0181
	Barium (Ba)-Total (mg/L)	0.0739	0.131	0.115	0.0141	0.0647
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00010	<0.00010	0.0028	<0.00020 DLA
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.010 DLA	<0.0010 DLA
	Boron (B)-Total (mg/L)	<0.010	<0.010	<0.010	<0.20 DLA	<0.020 DLA
	Cadmium (Cd)-Total (mg/L)	0.00222	0.00102	0.00101	0.509	0.000024
	Calcium (Ca)-Total (mg/L)	300	70.7	130	270	453
	Chromium (Cr)-Total (mg/L)	0.00024	0.00170	0.00022	<0.0020 DLA	0.00214
	Cobalt (Co)-Total (mg/L)	0.00056	0.00059	0.00014	0.490	0.00087
	Copper (Cu)-Total (mg/L)	0.00250	0.00262	0.00123	1.58	0.0019
	Iron (Fe)-Total (mg/L)	0.037	1.08	0.076	487	5.90
	Lead (Pb)-Total (mg/L)	0.000081	0.00102	0.000088	0.501	0.00659
	Lithium (Li)-Total (mg/L)	0.0302	0.0109	0.0174	0.092	0.0397
	Magnesium (Mg)-Total (mg/L)	76.2	36.3	37.4	205	261
	Manganese (Mn)-Total (mg/L)	0.0577	0.224	0.0620	10.4	0.172
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	0.000159	0.000089	0.000121	<0.0010 DLA	0.00190
	Nickel (Ni)-Total (mg/L)	0.0833	0.0168	0.0475	0.469	0.0079
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Total (mg/L)	4.97	2.74	3.72	7.19	5.73
	Selenium (Se)-Total (mg/L)	0.00169	0.00015	0.00034	<0.0020 DLA	<0.00020 DLA
	Silicon (Si)-Total (mg/L)	11.4	12.2	9.31	4.88	8.58
	Silver (Ag)-Total (mg/L)	<0.000010	0.000025	<0.000010	<0.00020 DLA	0.000021
	Sodium (Na)-Total (mg/L)	9.40	5.12	6.74	23.3	9.20

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1518297-51 Water 13-SEP-14 17:55 SRK05-9	L1518297-52 Water 13-SEP-14 16:13 P09-ETA-1	L1518297-53 Water 13-SEP-14 15:07 P09-ETA-2	L1518297-54 Water 13-SEP-14 13:53 SRK04-3A	L1518297-55 Water 13-SEP-14 13:02 SRK05-ETA-BR2
WATER						
Physical Tests	Conductivity (uS/cm)	2110	412	6360	9500	2520
	Hardness (as CaCO3) (mg/L)	1430	201	4510	6550	1680
	pH (pH)	7.99	8.25	6.05	5.65	7.28
	Total Suspended Solids (mg/L)	67.4	59.3	105	32.4	56.0
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	11.7	1.3	1510	4080	46.2
	Alkalinity, Total (as CaCO3) (mg/L)	400	196	121	37.2	124
	Chloride (Cl) (mg/L)	<10 DLA	<0.50	17	43	10
	Sulfate (SO4) (mg/L)	1160	30.9	5900	10500	1870
	Anion Sum (meq/L)	32.1	4.56	126	220	41.7
	Cation Sum (meq/L)	29.1	4.76	125	216	37.3
	Cation - Anion Balance (%)	-4.8	2.2	-0.1	-1.0	-5.5
Total Metals	Aluminum (Al)-Total (mg/L)	1.01	1.19	<0.15 DLA	4.57	0.332
	Antimony (Sb)-Total (mg/L)	0.00048	0.00023	<0.0050 DLA	<0.010 DLA	<0.00020 DLA
	Arsenic (As)-Total (mg/L)	0.00579	0.00077	0.195	0.216	0.00031
	Barium (Ba)-Total (mg/L)	0.109	0.0162	0.0190	0.0133	0.0390
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00010	<0.0050 DLA	<0.010 DLA	<0.00020 DLA
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.025 DLA	<0.050 DLA	<0.0010 DLA
	Boron (B)-Total (mg/L)	<0.010	0.015	<0.50 DLA	<1.0 DLA	<0.020 DLA
	Cadmium (Cd)-Total (mg/L)	0.000334	0.000013	<0.00050 DLA	0.0716	0.000561
	Calcium (Ca)-Total (mg/L)	267	59.4	527	403	503
	Chromium (Cr)-Total (mg/L)	0.00484	0.00039	<0.0050 DLA	<0.010 DLA	<0.00020 DLA
	Cobalt (Co)-Total (mg/L)	0.00150	0.00011	0.707	2.27	0.0445
	Copper (Cu)-Total (mg/L)	0.0103	0.00229	<0.025 DLA	<0.050 DLA	<0.0010 DLA
	Iron (Fe)-Total (mg/L)	2.08	0.862	438	1030	34.2
	Lead (Pb)-Total (mg/L)	0.0347	0.0485	0.0079	0.0133	0.00399
	Lithium (Li)-Total (mg/L)	0.00858	<0.00050	0.127	0.141	0.0151
	Magnesium (Mg)-Total (mg/L)	196	10.1	841	1380	108
	Manganese (Mn)-Total (mg/L)	0.0428	0.00848	74.6	144	4.77
	Mercury (Hg)-Total (mg/L)	0.000022	0.000046	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	0.00163	0.000165	<0.0025 DLA	<0.0050 DLA	0.00014
	Nickel (Ni)-Total (mg/L)	0.00616	<0.00050	0.682	1.79	0.0374
	Phosphorus (P)-Total (mg/L)	0.060	<0.050	<0.10 DLA	<0.25 DLA	0.224
	Potassium (K)-Total (mg/L)	3.89	0.32	9.52	16.9	3.76
	Selenium (Se)-Total (mg/L)	0.00052	<0.00010	<0.0050 DLA	<0.010 DLA	<0.00020 DLA
	Silicon (Si)-Total (mg/L)	5.97	12.1	13.7	19.8	9.45
	Silver (Ag)-Total (mg/L)	0.000100	0.000126	<0.00050 DLA	<0.0010 DLA	0.000020
	Sodium (Na)-Total (mg/L)	9.57	17.2	49.9	59.7	29.6

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1518297-56	L1518297-57	L1518297-58	L1518297-59	L1518297-60
		Description	Water	Water	Water	Water	Water
		Sampled Date	13-SEP-14	13-SEP-14	13-SEP-14	13-SEP-14	14-SEP-14
		Sampled Time	08:27	12:13	10:40	09:32	12:40
		Client ID	V37	SRK05-ETA-BR1	P09-LCD6	P09-LCD1	MW14-15
Grouping	**Analyte**						
WATER							
Physical Tests	Conductivity (uS/cm)		1180	9210	980	907	621
	Hardness (as CaCO3) (mg/L)		714	5540	610	536	1000
	pH (pH)		8.10	5.55	7.74	7.86	7.52
	Total Suspended Solids (mg/L)		74.4	64.7	34.7	12.4	337
Anions and Nutrients	Acidity (as CaCO3) (mg/L)		6.2	4250	11.4	8.9	7.6
	Alkalinity, Total (as CaCO3) (mg/L)		473	29.5	268	295	69.0
	Chloride (Cl) (mg/L)		<5.0 DLA	36	<5.0 DLA	<5.0 DLA	<0.50
	Sulfate (SO4) (mg/L)		261	10800	333	253	269
	Anion Sum (meq/L)		14.9	226	12.3	11.1	6.98
	Cation Sum (meq/L)		15.4	214	13.0	11.7	21.0
	Cation - Anion Balance (%)		1.6	-2.6	2.8	2.5	50.1
Total Metals	Aluminum (Al)-Total (mg/L)		1.46	1.90	0.264	0.0221	4.20
	Antimony (Sb)-Total (mg/L)		0.00032	<0.010 DLA	0.00012	0.00025	0.00031
	Arsenic (As)-Total (mg/L)		0.00315	0.012	0.127	0.106	0.00302
	Barium (Ba)-Total (mg/L)		0.115	0.0099	0.0550	0.0433	0.106
	Beryllium (Be)-Total (mg/L)		<0.00010	<0.010 DLA	<0.00010	<0.00010	0.00021
	Bismuth (Bi)-Total (mg/L)		<0.00050	<0.050 DLA	<0.00050	<0.00050	<0.0010 DLA
	Boron (B)-Total (mg/L)		0.040	<1.0 DLA	0.015	0.015	<0.020 DLA
	Cadmium (Cd)-Total (mg/L)		0.000085	0.0731	0.000033	0.000045	0.00210
	Calcium (Ca)-Total (mg/L)		95.4	426	157	139	132
	Chromium (Cr)-Total (mg/L)		0.00457	<0.010 DLA	0.00122	0.00013	0.0101
	Cobalt (Co)-Total (mg/L)		0.00125	2.19	0.00154	0.00055	0.00410
	Copper (Cu)-Total (mg/L)		0.00387	<0.050 DLA	0.00114	<0.00050	0.0098
	Iron (Fe)-Total (mg/L)		2.98	1310	8.44	4.82	6.19
	Lead (Pb)-Total (mg/L)		0.00253	0.0832	0.0162	0.0304	0.00381
	Lithium (Li)-Total (mg/L)		0.0292	0.099	0.00871	0.0103	0.0508
	Magnesium (Mg)-Total (mg/L)		115	1140	50.9	42.0	151
	Manganese (Mn)-Total (mg/L)		0.173	140	0.599	0.683	0.369
	Mercury (Hg)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	0.000011
	Molybdenum (Mo)-Total (mg/L)		0.0224	<0.0050 DLA	0.00246	0.00521	0.00096
	Nickel (Ni)-Total (mg/L)		0.00438	1.78	0.00221	0.00085	0.119
	Phosphorus (P)-Total (mg/L)		0.129	<0.25 DLA	0.077	0.051	0.159
	Potassium (K)-Total (mg/L)		5.92	14.2	2.48	2.85	3.28
	Selenium (Se)-Total (mg/L)		0.00010	<0.010 DLA	<0.00010	<0.00010	0.00040
	Silicon (Si)-Total (mg/L)		5.79	18.3	7.91	7.33	14.7
	Silver (Ag)-Total (mg/L)		0.000037	<0.0010 DLA	<0.000010	0.000027	0.000056
	Sodium (Na)-Total (mg/L)		22.4	51.1	7.02	15.3	9.89

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1518297-61 Water 14-SEP-14 18:00 PW14-01	L1518297-62 Water 14-SEP-14 15:08 PW14-07	L1518297-63 Water 14-SEP-14 12:21 PW14-06	L1518297-64 Water 14-SEP-14 10:17 MW14-03	L1518297-65 Water 14-SEP-14 10:17 DUP12
WATER						
Physical Tests	Conductivity (uS/cm)	504	781	19700	791	1960
	Hardness (as CaCO3) (mg/L)	261	406	17900	462	462
	pH (pH)	6.69	6.41	4.47	7.78	7.67
	Total Suspended Solids (mg/L)	17.6	4.4	14.6	48.8	45.6
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	56.3	139	4890	16.6	19.5
	Alkalinity, Total (as CaCO3) (mg/L)	217	222	<2.0	403	412
	Chloride (Cl) (mg/L)	<0.50	0.65	30	5.33	5.35
	Sulfate (SO4) (mg/L)	68.1	223	25300	67.1	67.3
	Anion Sum (meq/L)	5.76	9.10	528	9.61	9.79
	Cation Sum (meq/L)	6.37	9.94	530	10.2	10.2
	Cation - Anion Balance (%)	5.1	4.4	0.2	3.1	2.2
Total Metals	Aluminum (Al)-Total (mg/L)	0.0399	0.196	80.4 DLA	0.754	0.645
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010	<0.050 DLA	0.00028	0.00026
	Arsenic (As)-Total (mg/L)	0.00088	0.00261	<0.050 DLA	0.00991	0.0101
	Barium (Ba)-Total (mg/L)	0.0737	0.0657	0.034 DLA	0.159	0.158
	Beryllium (Be)-Total (mg/L)	0.00027	0.00078	<0.050 DLA	<0.00010	<0.00010
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.25 DLA	<0.00050	<0.00050
	Boron (B)-Total (mg/L)	<0.010	<0.010	<5.0 DLA	0.012	0.013
	Cadmium (Cd)-Total (mg/L)	0.000068	0.000151	2.08	0.000029	0.000027
	Calcium (Ca)-Total (mg/L)	76.0	99.1	475	127	129
	Chromium (Cr)-Total (mg/L)	0.00042	0.00093	<0.050 DLA	0.00511	0.00474
	Cobalt (Co)-Total (mg/L)	0.00655	0.00544	6.26	0.00186	0.00185
	Copper (Cu)-Total (mg/L)	0.00106	0.00063	<0.25 DLA	0.00405	0.00364
	Iron (Fe)-Total (mg/L)	14.3	23.5	1030	10.1	9.96
	Lead (Pb)-Total (mg/L)	0.000257	0.00302	1.82	0.00163	0.00161
	Lithium (Li)-Total (mg/L)	0.0183	0.0467	0.72	0.0389	0.0390
	Magnesium (Mg)-Total (mg/L)	17.9	38.8	4220	35.7	36.2
	Manganese (Mn)-Total (mg/L)	2.76	1.18	482	0.910	0.930
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	0.000149	0.000245	<0.025 DLA	0.00367	0.00349
	Nickel (Ni)-Total (mg/L)	0.00998	0.0157	10.2	0.00648	0.00639
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050	<0.50 DLA	0.104	0.111
	Potassium (K)-Total (mg/L)	2.20	3.43	12.4	7.33	7.40
	Selenium (Se)-Total (mg/L)	<0.00010	<0.00010	<0.050 DLA	<0.00010	<0.00010
	Silicon (Si)-Total (mg/L)	9.78	13.1	15.5	10.1	9.92
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010	<0.0050 DLA	0.000016	<0.000010
	Sodium (Na)-Total (mg/L)	5.26	9.44	34	7.40	7.47

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1518297-66	L1518297-67	L1518297-68	L1518297-69	L1518297-70
	Description	Water	Water	Water	Water	Water
	Sampled Date	14-SEP-14	14-SEP-14	14-SEP-14	14-SEP-14	14-SEP-14
	Sampled Time	15:13	14:00		10:26	13:22
	Client ID	SRK08-P14	SRK08-P15	P09-GS1A	P09-GS1B	P03-03-9
Grouping	**Analyte**					
WATER						
Physical Tests	Conductivity (uS/cm)	1960	2010	1200	1530	28400
	Hardness (as CaCO3) (mg/L)	1360	1430	739	976	3850
	pH (pH)	7.67	7.81	7.54	7.64	3.20
	Total Suspended Solids (mg/L)	6.6	1.6	4.0	9.6	354
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	18.4	16.8	20.9	16.4	43200
	Alkalinity, Total (as CaCO3) (mg/L)	280	361	265	256	<2.0
	Chloride (Cl) (mg/L)	<5.0 DLA	<5.0 DLA	<5.0 DLA	<5.0 DLA	<50 DLA
	Sulfate (SO4) (mg/L)	1040	996	491	750	44200
	Anion Sum (meq/L)	27.2	27.9	15.5	20.7	921
	Cation Sum (meq/L)	27.5	28.9	15.6	20.6	1410
	Cation - Anion Balance (%)	0.5	1.8	0.2	-0.4	20.8
Total Metals	Aluminum (Al)-Total (mg/L)	0.355	0.0416	0.0562	0.0286	<0.60 DLA
	Antimony (Sb)-Total (mg/L)	0.00024	0.00024	0.0183	0.00065	<0.020 DLA
	Arsenic (As)-Total (mg/L)	0.00054	0.00033	0.131	1.80	<0.020 DLA
	Barium (Ba)-Total (mg/L)	0.0634	0.0356	0.0141	0.0264	0.018
	Beryllium (Be)-Total (mg/L)	<0.00020 DLA	<0.00020 DLA	<0.00010	<0.00010	<0.020 DLA
	Bismuth (Bi)-Total (mg/L)	<0.0010 DLA	<0.0010 DLA	<0.00050	<0.00050	<0.10 DLA
	Boron (B)-Total (mg/L)	<0.020 DLA	<0.020 DLA	<0.010	0.015	<2.0 DLA
	Cadmium (Cd)-Total (mg/L)	0.000058	0.000087	0.00219	0.000056	<0.0020
	Calcium (Ca)-Total (mg/L)	382	340	169	234	442
	Chromium (Cr)-Total (mg/L)	0.00368	0.00166	0.00023	0.00010	<0.020 DLA
	Cobalt (Co)-Total (mg/L)	0.00053	0.00030	0.0621	0.00285	<0.020 DLA
	Copper (Cu)-Total (mg/L)	0.0068	0.0012	0.00084	<0.00050	<0.10 DLA
	Iron (Fe)-Total (mg/L)	0.723	0.077	1.20	4.80	23100
	Lead (Pb)-Total (mg/L)	0.00109	0.00038	0.0790	0.000583	0.052
	Lithium (Li)-Total (mg/L)	0.0100	0.0119	0.00981	0.0124	0.26
	Magnesium (Mg)-Total (mg/L)	103	131	72.5	93.6	643
	Manganese (Mn)-Total (mg/L)	0.0103	0.00259	1.84	0.671	151
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	0.00104	0.00070	0.00211	0.00368	<0.010 DLA
	Nickel (Ni)-Total (mg/L)	0.0033	0.0111	0.140	0.0135	<0.10 DLA
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050	<0.050	0.083	<2.5 DLA
	Potassium (K)-Total (mg/L)	1.29	2.04	4.20	2.59	61.2
	Selenium (Se)-Total (mg/L)	0.00115	0.00155	<0.00010	<0.00010	<0.020 DLA
	Silicon (Si)-Total (mg/L)	6.82	5.74	2.17	7.42	8.4
	Silver (Ag)-Total (mg/L)	<0.000020 DLA	<0.000020 DLA	0.000025	<0.000010	<0.0020 DLA
	Sodium (Na)-Total (mg/L)	5.67	4.82	10.4	17.7	284

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1518297-71 Water 14-SEP-14 13:50 P03-03-4	L1518297-72 Water 14-SEP-14 14:36 P03-03-2	L1518297-73 Water 15-SEP-14 11:42 P03-05-4	L1518297-74 Water 15-SEP-14 10:45 P03-06-1	L1518297-75 Water 15-SEP-14 10:05 P03-06-2
WATER						
Physical Tests	Conductivity (uS/cm)	2270	3350	1730	4590	4730
	Hardness (as CaCO3) (mg/L)	704	529	1040	2000	1940
	pH (pH)	5.38	4.43	6.76	4.96	5.14
	Total Suspended Solids (mg/L)	12.8	6.6	11.4	91.6	852
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	758	2960	45.4	2110	2450
	Alkalinity, Total (as CaCO3) (mg/L)	12.2	<2.0	83.5	16.5	14.7
	Chloride (Cl) (mg/L)	<10 DLA	<10 DLA	<5.0 DLA	<10 DLA	<10 DLA
	Sulfate (SO4) (mg/L)	1680	2830	1070	4060	4010
	Anion Sum (meq/L)	35.3	59.0	24.0	84.9	83.8
	Cation Sum (meq/L)	41.2	75.1	23.9	93.8	97.9
	Cation - Anion Balance (%)	7.8	12.0	-0.1	5.0	7.8
Total Metals	Aluminum (Al)-Total (mg/L)	0.081	2.75 DLA	0.266 DLA	3.09 DLA	26.1 DLA
	Antimony (Sb)-Total (mg/L)	0.0020	<0.0020 DLA	<0.00050 DLA	<0.0050 DLA	<0.0050
	Arsenic (As)-Total (mg/L)	0.0047	<0.0020 DLA	<0.00050 DLA	<0.0050 DLA	0.0224
	Barium (Ba)-Total (mg/L)	0.0415	0.0111 DLA	0.0742 DLA	0.0184 DLA	0.400 DLA
	Beryllium (Be)-Total (mg/L)	<0.0010 DLA	<0.0020 DLA	<0.00050 DLA	<0.0050 DLA	<0.0050 DLA
	Bismuth (Bi)-Total (mg/L)	<0.0050 DLA	<0.010 DLA	<0.0025 DLA	<0.025 DLA	<0.025 DLA
	Boron (B)-Total (mg/L)	<0.10 DLA	<0.20 DLA	<0.050 DLA	<0.50 DLA	<0.50 DLA
	Cadmium (Cd)-Total (mg/L)	0.0103	0.00891	0.00280	0.0808	0.0636
	Calcium (Ca)-Total (mg/L)	190	141 DLA	324 DLA	502 DLA	481
	Chromium (Cr)-Total (mg/L)	<0.0010 DLA	<0.0020 DLA	<0.00050 DLA	<0.0050 DLA	0.0677
	Cobalt (Co)-Total (mg/L)	0.321	0.0890	0.0967	3.12	2.62
	Copper (Cu)-Total (mg/L)	<0.0050 DLA	0.021	<0.0025 DLA	<0.025 DLA	0.094
	Iron (Fe)-Total (mg/L)	432	1130	14.9	828	980
	Lead (Pb)-Total (mg/L)	0.00165	0.0027	0.00103	0.0172	0.123
	Lithium (Li)-Total (mg/L)	0.0573	0.021	0.0293	0.154	0.173
	Magnesium (Mg)-Total (mg/L)	56.1	45.4	53.8	207	200
	Manganese (Mn)-Total (mg/L)	51.4	12.7	49.8	218	188
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010 DLA	<0.000010	<0.000010 DLA	0.000064
	Molybdenum (Mo)-Total (mg/L)	<0.00050 DLA	<0.0010 DLA	0.00042	<0.0025 DLA	0.0026
	Nickel (Ni)-Total (mg/L)	0.352	0.142	0.0387	3.53	3.14
	Phosphorus (P)-Total (mg/L)	<0.050	<0.10 DLA	<0.050	<0.10 DLA	0.37
	Potassium (K)-Total (mg/L)	5.55	4.46 DLA	3.58 DLA	8.12 DLA	10.9 DLA
	Selenium (Se)-Total (mg/L)	<0.0010 DLA	<0.0020 DLA	<0.00050 DLA	<0.0050 DLA	<0.0050 DLA
	Silicon (Si)-Total (mg/L)	17.2	20.4 DLA	11.8 DLA	39.5 DLA	69.7 DLA
	Silver (Ag)-Total (mg/L)	<0.00010 DLA	<0.00020 DLA	<0.000050 DLA	<0.00050 DLA	<0.00050
	Sodium (Na)-Total (mg/L)	21.7	7.6	15.4	27.8	26.4

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1518297-76				
	Description	Water				
	Sampled Date					
	Sampled Time					
	Client ID	TRAVEL BLANK				
Grouping	**Analyte**					
WATER						
Physical Tests	Conductivity (uS/cm)	<2.0				
	Hardness (as CaCO3) (mg/L)	<0.50				
	pH (pH)	5.72				
	Total Suspended Solids (mg/L)	<1.0				
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	1.8				
	Alkalinity, Total (as CaCO3) (mg/L)	<2.0				
	Chloride (Cl) (mg/L)	<0.50				
	Sulfate (SO4) (mg/L)	<0.50				
	Anion Sum (meq/L)	<0.10				
	Cation Sum (meq/L)	<0.10				
	Cation - Anion Balance (%)	0.0				
Total Metals	Aluminum (Al)-Total (mg/L)	<0.0030				
	Antimony (Sb)-Total (mg/L)	<0.00010				
	Arsenic (As)-Total (mg/L)	<0.00010				
	Barium (Ba)-Total (mg/L)	<0.000050				
	Beryllium (Be)-Total (mg/L)	<0.00010				
	Bismuth (Bi)-Total (mg/L)	<0.00050				
	Boron (B)-Total (mg/L)	<0.010				
	Cadmium (Cd)-Total (mg/L)	<0.000010				
	Calcium (Ca)-Total (mg/L)	<0.050				
	Chromium (Cr)-Total (mg/L)	<0.00010				
	Cobalt (Co)-Total (mg/L)	<0.00010				
	Copper (Cu)-Total (mg/L)	<0.00050				
	Iron (Fe)-Total (mg/L)	<0.010				
	Lead (Pb)-Total (mg/L)	<0.000050				
	Lithium (Li)-Total (mg/L)	<0.00050				
	Magnesium (Mg)-Total (mg/L)	<0.10				
	Manganese (Mn)-Total (mg/L)	<0.000050				
	Mercury (Hg)-Total (mg/L)	<0.000010				
	Molybdenum (Mo)-Total (mg/L)	<0.000050				
	Nickel (Ni)-Total (mg/L)	<0.00050				
	Phosphorus (P)-Total (mg/L)	<0.050				
	Potassium (K)-Total (mg/L)	<0.10				
	Selenium (Se)-Total (mg/L)	<0.00010				
	Silicon (Si)-Total (mg/L)	<0.050				
	Silver (Ag)-Total (mg/L)	<0.000010				
	Sodium (Na)-Total (mg/L)	<0.050				

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	Sample ID: L1518297-1	L1518297-2	L1518297-3	L1518297-4	L1518297-5
	Description:	Water	Water	Water	Water	Water
	Sampled Date:		12-SEP-14	15-SEP-14	13-SEP-14	11-SEP-14
	Sampled Time:			09:33		
	Client ID:	TRAVEL BLANK	DUP 8	P03-06-6	DUP 7	DUP 5
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	<0.00020	0.336	0.14	7.24	1.70
	Sulfur (S)-Total (mg/L)	<0.50	58.5	8360	561	186
	Thallium (Tl)-Total (mg/L)	<0.000010	0.000063	0.0110	DLA <0.000020	0.000014
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	DLA <0.050	DLA <0.00020	0.00012
	Titanium (Ti)-Total (mg/L)	<0.010	0.011	DLA <5.0	DLA <0.020	0.019
	Uranium (U)-Total (mg/L)	<0.000010	0.00127	0.0891	0.000601	0.0213
	Vanadium (V)-Total (mg/L)	<0.0010	<0.0010	DLA <0.50	DLA <0.0020	0.0016
	Zinc (Zn)-Total (mg/L)	<0.0030	5.17	2680	14.3	0.0094
	Zirconium (Zr)-Total (mg/L)	<0.00080	<0.00080	DLA <0.40	DLA <0.0016	0.00195
Dissolved Metals	Dissolved Mercury Filtration Location		FIELD	FIELD	FIELD	FIELD
	Dissolved Metals Filtration Location		FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)		0.0279	4.57	DTC 0.510	0.0018
	Antimony (Sb)-Dissolved (mg/L)		<0.00010	DLA <0.050	DLA <0.00020	<0.00010
	Arsenic (As)-Dissolved (mg/L)		0.00011	0.086	0.00033	0.00162
	Barium (Ba)-Dissolved (mg/L)		0.0261	DLA <0.025	0.0386	0.0407
	Beryllium (Be)-Dissolved (mg/L)		0.00011	DLA <0.050	DLA <0.00020	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)		<0.00050	DLA <0.25	DLA <0.0010	<0.00050
	Boron (B)-Dissolved (mg/L)		<0.010	DLA <5.0	DLA <0.020	0.021
	Cadmium (Cd)-Dissolved (mg/L)		0.00199	0.150	DTC 0.000579	<0.000010
	Calcium (Ca)-Dissolved (mg/L)		72.8	391	523	213
	Chromium (Cr)-Dissolved (mg/L)		<0.00010	DLA <0.050	DLA <0.00020	<0.00010
	Cobalt (Co)-Dissolved (mg/L)		0.0469	1.51	0.0479	0.00183
	Copper (Cu)-Dissolved (mg/L)		<0.00020	DLA <0.10	DLA <0.00040	<0.00020
	Iron (Fe)-Dissolved (mg/L)		5.36	2090	33.0	1.93
	Lead (Pb)-Dissolved (mg/L)		0.000886	2.66	DTC 0.00404	0.000085
	Lithium (Li)-Dissolved (mg/L)		0.0279	0.46	0.0143	0.0273
	Magnesium (Mg)-Dissolved (mg/L)		19.5	3580	105	244
	Manganese (Mn)-Dissolved (mg/L)		1.64	643	5.33	0.0582
	Mercury (Hg)-Dissolved (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)		0.000080	DLA <0.025	0.00015	0.00131
	Nickel (Ni)-Dissolved (mg/L)		0.0512	1.55	0.0402	0.00434
	Phosphorus (P)-Dissolved (mg/L)		<0.050	DLA <0.50	0.213	<0.050
	Potassium (K)-Dissolved (mg/L)		2.17	11.3	3.94	4.73
	Selenium (Se)-Dissolved (mg/L)		<0.00010	DLA <0.050	DLA <0.00020	<0.00010
	Silicon (Si)-Dissolved (mg/L)		8.06	12.4	10.5	7.13
	Silver (Ag)-Dissolved (mg/L)		<0.000010	DLA <0.0050	0.000023	0.000011
	Sodium (Na)-Dissolved (mg/L)		5.96	118	31.8	7.97

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1518297-6 Water 14-SEP-14 DUP 9	L1518297-7 Water 11-SEP-14 DUP 6	L1518297-8 Water 15-SEP-14 09:48 MW14-02S	L1518297-9 Water 15-SEP-14 11:06 MW14-02D	L1518297-10 Water 11-SEP-14 17:21 P96-8B
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	1.84	0.711	0.110	0.350	4.21
	Sulfur (S)-Total (mg/L)	352	90.3	4.04	25.1	3190
	Thallium (Tl)-Total (mg/L)	DLA <0.000020	<0.000010	0.000019	<0.000010	DLA <0.0020
	Tin (Sn)-Total (mg/L)	DLA <0.00020	<0.00010	<0.00010	<0.00010	DLA <0.020
	Titanium (Ti)-Total (mg/L)	0.036	<0.010	0.022	<0.010	DLA <2.0
	Uranium (U)-Total (mg/L)	0.00800	0.00161	0.000961	0.000470	0.0024
	Vanadium (V)-Total (mg/L)	DLA <0.0020	<0.0010	0.0013	<0.0010	DLA <0.20
	Zinc (Zn)-Total (mg/L)	0.0084	0.233	0.0204	0.752	1030
	Zirconium (Zr)-Total (mg/L)	DLA <0.0016	<0.00080	<0.00080	<0.00080	DLA <0.16
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	0.0082	0.0061	0.0473	2.88
	Antimony (Sb)-Dissolved (mg/L)	0.00021	<0.00010	<0.00010	<0.00010	DLA <0.020
	Arsenic (As)-Dissolved (mg/L)	0.00025	0.0220	0.00043	0.00217	DLA <0.020
	Barium (Ba)-Dissolved (mg/L)	0.0569	0.0453	0.0437	0.0326	0.014
	Beryllium (Be)-Dissolved (mg/L)	DLA <0.00020	0.00015	<0.00010	0.00095	DLA <0.020
	Bismuth (Bi)-Dissolved (mg/L)	DLA <0.0010	<0.00050	<0.00050	<0.00050	DLA <0.10
	Boron (B)-Dissolved (mg/L)	DLA <0.020	0.011	<0.010	<0.010	DLA <2.0
	Cadmium (Cd)-Dissolved (mg/L)	0.000058	0.000110	0.000028	0.000065	0.263
	Calcium (Ca)-Dissolved (mg/L)	404	157	25.4	59.8	433
	Chromium (Cr)-Dissolved (mg/L)	DLA <0.00020	<0.00010	0.00091	0.00069	DLA <0.020
	Cobalt (Co)-Dissolved (mg/L)	DLA <0.00020	0.00313	<0.00010	0.00428	1.99
	Copper (Cu)-Dissolved (mg/L)	0.00367	<0.00020	0.00085	<0.00020	DLA <0.040
	Iron (Fe)-Dissolved (mg/L)	<0.010	13.6	0.071	14.7	400
	Lead (Pb)-Dissolved (mg/L)	DLA <0.00010	<0.000050	0.000105	0.000101	0.095
	Lithium (Li)-Dissolved (mg/L)	0.0090	0.0334	0.00296	0.0402	0.27
	Magnesium (Mg)-Dissolved (mg/L)	106	61.1	5.08	20.0	1460
	Manganese (Mn)-Dissolved (mg/L)	0.00022	0.780	0.0287	0.895	143
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.00085	0.000556	0.000624	0.000140	DLA <0.010
	Nickel (Ni)-Dissolved (mg/L)	0.0014	0.00819	0.00119	0.0125	2.21
	Phosphorus (P)-Dissolved (mg/L)	<0.050	0.171	<0.050	<0.050	DLA <0.25
	Potassium (K)-Dissolved (mg/L)	1.27	4.66	0.60	2.71	20.2
	Selenium (Se)-Dissolved (mg/L)	0.00122	0.00010	0.00024	<0.00010	DLA <0.020
	Silicon (Si)-Dissolved (mg/L)	6.18	12.9	5.06	10.8	17.5
	Silver (Ag)-Dissolved (mg/L)	DLA <0.000020	<0.000010	<0.000010	<0.000010	DLA <0.0020
	Sodium (Na)-Dissolved (mg/L)	5.56	9.67	1.96	9.00	61

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1518297-11 Water 11-SEP-14 16:46 P96-8A	L1518297-12 Water 11-SEP-14 15:34 SRK08-P9	L1518297-13 Water 11-SEP-14 14:35 SRK08-SBR2	L1518297-14 Water 11-SEP-14 13:18 SRK08-SBR3	L1518297-15 Water 11-SEP-14 12:18 SRK05-SP-1B
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	3.92	10.9	1.18	1.19	0.713
	Sulfur (S)-Total (mg/L)	3120	465	787	594	91.4
	Thallium (Tl)-Total (mg/L)	DLA <0.0020	DLA <0.000020	DLA <0.00020	0.000081	<0.000010
	Tin (Sn)-Total (mg/L)	DLA <0.020	DLA <0.00020	DLA <0.0020	DLA <0.00020	<0.00010
	Titanium (Ti)-Total (mg/L)	DLA <2.0	0.067	0.33	DLA <0.020	<0.010
	Uranium (U)-Total (mg/L)	0.0236	0.00429	0.00342	0.0403	0.00162
	Vanadium (V)-Total (mg/L)	DLA <0.20	0.0061	0.024	DLA <0.0020	<0.0010
	Zinc (Zn)-Total (mg/L)	1160	0.0258	106	0.0844	0.239
	Zirconium (Zr)-Total (mg/L)	DLA <0.16	DLA <0.0016	DLA <0.016	DLA <0.0016	<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)	20.3	DLA <0.0020	0.028	0.0022	0.0078
	Antimony (Sb)-Dissolved (mg/L)	DLA <0.020	DLA <0.00020	DLA <0.0020	DLA <0.00020	<0.00010
	Arsenic (As)-Dissolved (mg/L)	DLA <0.020	0.00042	DLA <0.0020	DLA <0.00020	0.0224
	Barium (Ba)-Dissolved (mg/L)	0.010	0.0277	0.0223	0.0126	0.0469
	Beryllium (Be)-Dissolved (mg/L)	DLA <0.020	DLA <0.00020	DLA <0.0020	DLA <0.00020	0.00015
	Bismuth (Bi)-Dissolved (mg/L)	DLA <0.10	DLA <0.0010	DLA <0.010	DLA <0.0010	<0.00050
	Boron (B)-Dissolved (mg/L)	DLA <2.0	DLA <0.020	DLA <0.20	DLA <0.020	0.010
	Cadmium (Cd)-Dissolved (mg/L)	0.358	0.000021	0.0648	DLA <0.000020	0.000113
	Calcium (Ca)-Dissolved (mg/L)	410	427	316	416	157
	Chromium (Cr)-Dissolved (mg/L)	DLA <0.020	DLA <0.00020	DLA <0.0020	DLA <0.00020	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	2.18	0.00328	0.311	0.00093	0.00319
	Copper (Cu)-Dissolved (mg/L)	0.255	DLA <0.00040	DLA <0.0040	0.00049	<0.00020
	Iron (Fe)-Dissolved (mg/L)	300	0.985	14.9	0.026	13.8
	Lead (Pb)-Dissolved (mg/L)	0.190	DLA <0.00010	0.0070	DLA <0.00010	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.31	0.0145	0.079	0.0788	0.0325
	Magnesium (Mg)-Dissolved (mg/L)	1350	128	439	358	62.0
	Manganese (Mn)-Dissolved (mg/L)	146	0.576	31.4	0.0157	0.813
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	DLA <0.010	0.00311	DLA <0.0010	DLA <0.00010	0.000554
	Nickel (Ni)-Dissolved (mg/L)	2.54	0.0069	0.636	0.0339	0.00837
	Phosphorus (P)-Dissolved (mg/L)	DLA <0.25	<0.050	<0.050	<0.050	0.172
	Potassium (K)-Dissolved (mg/L)	17.9	1.87	7.74	7.88	4.81
	Selenium (Se)-Dissolved (mg/L)	DLA <0.020	DLA <0.00020	DLA <0.0020	0.00080	0.00011
	Silicon (Si)-Dissolved (mg/L)	34.5	7.24	13.7	4.88	12.9
	Silver (Ag)-Dissolved (mg/L)	DLA <0.0020	DLA <0.000020	DLA <0.00020	DLA <0.000020	<0.000010
	Sodium (Na)-Dissolved (mg/L)	64	19.0	19.9	51.1	9.80

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1518297-16 Water 11-SEP-14 09:35 MW14-09	L1518297-17 Water 11-SEP-14 10:13 MW14-10	L1518297-18 Water 11-SEP-14 08:52 SRK05-SP-2	L1518297-19 Water 11-SEP-14 10:30 S1B	L1518297-20 Water 11-SEP-14 16:48 FB1
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	0.456	0.484	0.345	0.348	<0.00020
	Sulfur (S)-Total (mg/L)	58.6	77.5	50.2	62.8	<0.50
	Thallium (Tl)-Total (mg/L)	0.000019	0.000027	<0.000010	<0.000010	<0.000010
	Tin (Sn)-Total (mg/L)	0.00017	0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)	0.036	0.051	<0.010	<0.010	<0.010
	Uranium (U)-Total (mg/L)	0.00762	0.0203	0.00137	0.00183	<0.000010
	Vanadium (V)-Total (mg/L)	0.0018	0.0040	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Total (mg/L)	0.0859	0.0103	0.193	0.0233	<0.0030
	Zirconium (Zr)-Total (mg/L)	<0.00080	<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)	0.0126	0.0035	0.0084	0.0070	<0.0010
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	0.00013	<0.00010	0.00017	<0.00010
	Arsenic (As)-Dissolved (mg/L)	0.00157	0.00027	<0.00010	0.00021	<0.00010
	Barium (Ba)-Dissolved (mg/L)	0.0563	0.0399	0.0849	0.0424	<0.000050
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)	0.017	<0.010	<0.010	<0.010	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	0.000081	0.000045	0.000208	0.000159	<0.000010
	Calcium (Ca)-Dissolved (mg/L)	96.6	90.6	77.1	115	<0.050
	Chromium (Cr)-Dissolved (mg/L)	0.00011	0.00095	<0.00010	0.00013	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	0.00469	0.00016	0.00749	<0.00010	<0.00010
	Copper (Cu)-Dissolved (mg/L)	0.00093	0.00077	0.00088	0.00329	<0.00020
	Iron (Fe)-Dissolved (mg/L)	0.634	<0.010	0.013	<0.010	<0.010
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.0128	0.0243	0.0120	0.0128	<0.00050
	Magnesium (Mg)-Dissolved (mg/L)	32.3	23.9	18.9	31.6	<0.10
	Manganese (Mn)-Dissolved (mg/L)	2.10	0.0171	1.90	0.00919	<0.000050
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.00163	0.000879	0.000123	0.000177	<0.000050
	Nickel (Ni)-Dissolved (mg/L)	0.0108	0.00122	0.00681	0.00368	<0.00050
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	2.90	4.11	2.05	2.72	<0.10
	Selenium (Se)-Dissolved (mg/L)	0.00020	0.00309	<0.00010	0.00014	<0.00010
	Silicon (Si)-Dissolved (mg/L)	7.22	5.39	7.06	6.23	<0.050
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	31.0	137	9.86	24.3	<0.050

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

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Grouping	Analyte	L1518297-21 Water 11-SEP-14 14:25 P2001-2B	L1518297-22 Water 11-SEP-14 09:37 V34	L1518297-23 Water 11-SEP-14 10:46 V35	L1518297-24 Water 11-SEP-14 15:44 V36	L1518297-25 Water 11-SEP-14 12:10 P2001-3
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	2.28	1.75	1.02	2.15	0.654
	Sulfur (S)-Total (mg/L)	465	187	466	647	42.2
	Thallium (Tl)-Total (mg/L)	<0.000020 DLA	0.000010	0.000022	0.000092	0.000046
	Tin (Sn)-Total (mg/L)	0.00053	<0.00010	<0.00020 DLA	0.00027	0.00022
	Titanium (Ti)-Total (mg/L)	<0.020 DLA	0.017	<0.020 DLA	<0.020 DLA	0.079
	Uranium (U)-Total (mg/L)	0.0716	0.0217	0.0761	0.0640	0.0127
	Vanadium (V)-Total (mg/L)	<0.0020 DLA	0.0017	<0.0020 DLA	<0.0020 DLA	0.0089
	Zinc (Zn)-Total (mg/L)	0.0075	0.0101	0.0083	0.0845	0.0282
	Zirconium (Zr)-Total (mg/L)	<0.0016 DLA	0.00227	<0.0016 DLA	<0.0016 DLA	0.00147
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)	<0.0020 DLA	0.0035	<0.0020 DLA	<0.0020 DLA	0.0019
	Antimony (Sb)-Dissolved (mg/L)	<0.00020 DLA	<0.00010	0.00025	<0.00020 DLA	<0.00010
	Arsenic (As)-Dissolved (mg/L)	0.0109	0.00175	0.00052	0.00174	0.00274
	Barium (Ba)-Dissolved (mg/L)	0.0125	0.0420	0.0103	0.00693	0.0284
	Beryllium (Be)-Dissolved (mg/L)	<0.00020 DLA	<0.00010	<0.00020 DLA	<0.00020 DLA	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	<0.0010 DLA	<0.00050	<0.0010 DLA	<0.0010 DLA	<0.00050
	Boron (B)-Dissolved (mg/L)	<0.020 DLA	0.021	<0.020 DLA	<0.020 DLA	0.022
	Cadmium (Cd)-Dissolved (mg/L)	<0.000020 DLA	<0.000010	0.000113	0.000495	0.000591
	Calcium (Ca)-Dissolved (mg/L)	446	212	412	457	97.1
	Chromium (Cr)-Dissolved (mg/L)	<0.00020 DLA	<0.00010	0.00072	<0.00020 DLA	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	0.00034	0.00201	<0.00020 DLA	0.00198	0.00059
	Copper (Cu)-Dissolved (mg/L)	<0.00040 DLA	<0.00020	0.00051	0.00233	0.00172
	Iron (Fe)-Dissolved (mg/L)	2.42	1.85	<0.010	<0.010	0.015
	Lead (Pb)-Dissolved (mg/L)	<0.00010 DLA	<0.000050	<0.00010 DLA	0.00264	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.0388	0.0264	0.0223	0.0444	0.0101
	Magnesium (Mg)-Dissolved (mg/L)	251	223	216	319	64.4
	Manganese (Mn)-Dissolved (mg/L)	0.104	0.0609	0.00112	0.118	0.694
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.00047	0.00133	0.00102	0.00122	0.0128
	Nickel (Ni)-Dissolved (mg/L)	0.0029	0.00470	0.0043	0.0147	0.00188
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	5.23	4.58	3.86	5.68	3.16
	Selenium (Se)-Dissolved (mg/L)	<0.00020 DLA	<0.00010	0.00176	0.00059	<0.00010
	Silicon (Si)-Dissolved (mg/L)	7.00	6.72	5.82	7.00	6.54
	Silver (Ag)-Dissolved (mg/L)	<0.000020 DLA	<0.000010	<0.000020 DLA	<0.000020 DLA	<0.000010
	Sodium (Na)-Dissolved (mg/L)	9.43	8.07	8.00	9.32	34.3

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1518297-26	L1518297-27	L1518297-28	L1518297-29	L1518297-30
	Description	Water	Water	Water	Water	Water
	Sampled Date	12-SEP-14	12-SEP-14	12-SEP-14	12-SEP-14	12-SEP-14
	Sampled Time	15:49	14:39	13:56	12:00	09:29
	Client ID	SRK05-5C	BH05-9B-R	P96-9A	SRK05-07	P09-VC2
Grouping	**Analyte**					
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	0.866	1.18	1.37	1.52	0.928
	Sulfur (S)-Total (mg/L)	61.1	58.7	602	615	14.0
	Thallium (Tl)-Total (mg/L)	0.000023	<0.000010	<0.000020 DLA	<0.000020 DLA	<0.000010
	Tin (Sn)-Total (mg/L)	<0.00010	0.00020	<0.00020 DLA	<0.00020 DLA	<0.00010
	Titanium (Ti)-Total (mg/L)	0.012	<0.010	<0.020 DLA	<0.020 DLA	<0.010
	Uranium (U)-Total (mg/L)	0.00241	0.000961	0.0490	0.0356	0.00446
	Vanadium (V)-Total (mg/L)	0.0015	<0.0010	<0.0020 DLA	<0.0020 DLA	<0.0010
	Zinc (Zn)-Total (mg/L)	0.0087	0.0066	0.0876	<0.0060 DLA	0.0986
	Zirconium (Zr)-Total (mg/L)	<0.00080	<0.00080	<0.0016 DLA	<0.0016 DLA	<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)	0.0406	0.0015	0.0040	<0.0020 DLA	0.0011
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00020 DLA	0.00054	0.00045
	Arsenic (As)-Dissolved (mg/L)	0.00400	0.00593	0.00042	0.00322	0.119
	Barium (Ba)-Dissolved (mg/L)	0.0851	0.0145	0.0541	0.0449	0.0415
	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)	0.011	0.037	<0.020 DLA	<0.020 DLA	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	0.000021	0.000011	0.000683	0.000091	<0.000010
	Calcium (Ca)-Dissolved (mg/L)	87.8	51.9	393	487	64.8
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	<0.00010	0.00033	0.00045	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	0.00052	<0.00010	<0.00020 DLA	0.00175	0.00021
	Copper (Cu)-Dissolved (mg/L)	<0.00020	0.00031	0.00271	0.00097	<0.00020
	Iron (Fe)-Dissolved (mg/L)	0.125	<0.010	<0.010	<0.010	1.96
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050	<0.00010 DLA	0.00011	0.000089
	Lithium (Li)-Dissolved (mg/L)	0.00839	0.0223	0.0137	0.0104	0.00781
	Magnesium (Mg)-Dissolved (mg/L)	27.5	23.5	378	339	12.3
	Manganese (Mn)-Dissolved (mg/L)	0.961	0.00139	0.0484	0.0572	0.0842
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.0202	0.0107	0.00072	0.00055	0.0101
	Nickel (Ni)-Dissolved (mg/L)	0.00144	<0.00050	0.0139	0.0481	<0.00050
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	1.81	1.90	6.19	2.76	1.13
	Selenium (Se)-Dissolved (mg/L)	<0.00010	<0.00010	0.00022	<0.00020 DLA	<0.00010
	Silicon (Si)-Dissolved (mg/L)	5.35	6.40	6.54	7.38	6.50
	Silver (Ag)-Dissolved (mg/L)	<0.000010	0.000010	<0.000020 DLA	<0.000020 DLA	<0.000010
	Sodium (Na)-Dissolved (mg/L)	17.4	47.6	13.3	13.7	5.97

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1518297-31	L1518297-32	L1518297-33	L1518297-34	L1518297-35
	Description	Water	Water	Water	Water	Water
	Sampled Date	12-SEP-14	12-SEP-14	12-SEP-14	12-SEP-14	12-SEP-14
	Sampled Time	10:40	12:56	14:59	18:16	15:04
	Client ID	P09-VC1	SRK05-8	BH14B	P96-6	BH13B
Grouping	**Analyte**					
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	0.582	1.51	3.73	0.849	0.883
	Sulfur (S)-Total (mg/L)	17.5	430	747	399	199
	Thallium (Tl)-Total (mg/L)	<0.000010	<0.000020 DLA	<0.000020 DLA	<0.000020 DLA	0.000012
	Tin (Sn)-Total (mg/L)	0.00026	<0.00020 DLA	<0.00020 DLA	<0.00020 DLA	<0.00010
	Titanium (Ti)-Total (mg/L)	<0.010	<0.020 DLA	<0.020 DLA	<0.020 DLA	<0.010
	Uranium (U)-Total (mg/L)	0.00622	0.0279	0.207	0.0621	0.00190
	Vanadium (V)-Total (mg/L)	0.0013	<0.0020 DLA	<0.0020 DLA	<0.0020 DLA	<0.0010
	Zinc (Zn)-Total (mg/L)	0.0490	<0.0060 DLA	1.23	0.389	0.0038
	Zirconium (Zr)-Total (mg/L)	<0.00080	<0.0016 DLA	<0.0016 DLA	<0.0016 DLA	<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)	0.0015	<0.0020 DLA	<0.0020 DLA	<0.0020 DLA	0.0032
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00020 DLA	<0.00020 DLA	<0.00020 DLA	<0.00010
	Arsenic (As)-Dissolved (mg/L)	0.00200	0.00029	<0.00020 DLA	<0.00020 DLA	<0.00010
	Barium (Ba)-Dissolved (mg/L)	0.0194	0.0117	0.0196	0.0205	0.0301
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00020 DLA	<0.00020 DLA	<0.00020 DLA	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.0010 DLA	<0.0010 DLA	<0.0010 DLA	<0.00050
	Boron (B)-Dissolved (mg/L)	<0.010	<0.020 DLA	<0.020 DLA	<0.020 DLA	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	<0.000010	0.000029	0.000235	0.000297	0.000045
	Calcium (Ca)-Dissolved (mg/L)	45.9	399	544	336	159
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	0.00054	<0.00020 DLA	<0.00020 DLA	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	<0.00010	0.00039	<0.00020 DLA	<0.00020 DLA	0.00133
	Copper (Cu)-Dissolved (mg/L)	<0.00020	0.00264	0.00075	<0.00040 DLA	0.00478
	Iron (Fe)-Dissolved (mg/L)	0.375	<0.010	<0.010	<0.010	0.026
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.00010 DLA	0.0155	<0.00010 DLA	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.00337	0.0182	0.0743	0.0324	0.0158
	Magnesium (Mg)-Dissolved (mg/L)	8.93	223	347	154	68.8
	Manganese (Mn)-Dissolved (mg/L)	0.0115	0.00018	0.00875	0.00239	0.000549
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.000407	0.00042	0.00021	<0.00010 DLA	0.00349
	Nickel (Ni)-Dissolved (mg/L)	<0.00050	0.0018	0.0137	0.0124	0.00750
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	0.98	1.91	4.28	4.57	2.96
	Selenium (Se)-Dissolved (mg/L)	<0.00010	0.00032	0.00061	0.00402	0.0101
	Silicon (Si)-Dissolved (mg/L)	5.71	6.13	9.09	8.65	3.83
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000020 DLA	<0.000020 DLA	<0.000020 DLA	<0.000010
	Sodium (Na)-Dissolved (mg/L)	19.2	10.4	17.9	5.85	7.07

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1518297-36	L1518297-37	L1518297-38	L1518297-39	L1518297-40
	Description	Water	Water	Water	Water	Water
	Sampled Date	12-SEP-14	12-SEP-14	12-SEP-14	12-SEP-14	12-SEP-14
	Sampled Time	16:00	13:20	12:18	11:45	10:49
	Client ID	BH14A	BH5	SRK08-P12A	SRK08-P12B	BH10A
Grouping	**Analyte**					
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	3.62	0.401	1.27	0.930	0.336
	Sulfur (S)-Total (mg/L)	884	45.0	59.8	38.8	30.3
	Thallium (Tl)-Total (mg/L)	<0.000050 DLA	0.000065	0.000150	0.000059	0.000072
	Tin (Sn)-Total (mg/L)	<0.00050 DLA	<0.00010	0.00022	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)	<0.050 DLA	<0.010	0.079	<0.010	<0.010
	Uranium (U)-Total (mg/L)	0.154	0.000347	0.00254	0.00127	0.000132
	Vanadium (V)-Total (mg/L)	<0.0050 DLA	<0.0010	0.0078	<0.0010	<0.0010
	Zinc (Zn)-Total (mg/L)	23.7	2.84	1.09	0.271	0.647
	Zirconium (Zr)-Total (mg/L)	<0.0040 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)	<0.0050 DLA	0.0455	0.0211	0.0352	0.0034
	Antimony (Sb)-Dissolved (mg/L)	<0.00050 DLA	<0.00010	0.00032	<0.00010	<0.00010
	Arsenic (As)-Dissolved (mg/L)	<0.00050 DLA	0.00048	0.00415	0.00016	<0.00010
	Barium (Ba)-Dissolved (mg/L)	0.0159	0.0432	0.0330	0.121	0.0225
	Beryllium (Be)-Dissolved (mg/L)	<0.00050 DLA	0.00032	0.00075	0.00055	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	<0.0025 DLA	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)	<0.050 DLA	<0.010	<0.010	<0.010	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	0.00270	0.00102	0.000027	0.000070	0.00443
	Calcium (Ca)-Dissolved (mg/L)	530	80.7	198	133	72.5
	Chromium (Cr)-Dissolved (mg/L)	<0.00050 DLA	0.00024	<0.00010	<0.00010	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	<0.00050 DLA	0.0179	0.00809	0.00396	<0.00010
	Copper (Cu)-Dissolved (mg/L)	0.0019	0.00035	<0.00020	<0.00020	0.00166
	Iron (Fe)-Dissolved (mg/L)	<0.010	23.2	14.7	4.02	<0.010
	Lead (Pb)-Dissolved (mg/L)	0.0185	0.000504	0.000695	0.000101	0.000164
	Lithium (Li)-Dissolved (mg/L)	0.107	0.0364	0.104	0.0952	0.00938
	Magnesium (Mg)-Dissolved (mg/L)	461	29.9	56.2	35.3	16.9
	Manganese (Mn)-Dissolved (mg/L)	0.0511	1.86	0.882	0.702	0.000271
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.00038	<0.000050	<0.000050	<0.000050	<0.000050
	Nickel (Ni)-Dissolved (mg/L)	0.299	0.0239	0.0146	0.00756	0.00245
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	4.53	3.47	3.32	3.62	1.36
	Selenium (Se)-Dissolved (mg/L)	0.00093	<0.00010	<0.00010	<0.00010	0.00057
	Silicon (Si)-Dissolved (mg/L)	10.8	11.9	10.4	10.3	6.32
	Silver (Ag)-Dissolved (mg/L)	<0.000050 DLA	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	21.1	13.1	27.7	18.4	5.15

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1518297-41 Water 12-SEP-14 09:59 BH10B	L1518297-42 Water 12-SEP-14 08:56 P05-04	L1518297-43 Water 12-SEP-14 08:21 BH6	L1518297-44 Water 13-SEP-14 10:10 MW14-13	L1518297-45 Water 13-SEP-14 10:10 DUP10
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	0.271	0.419	0.349	1.07	1.04
	Sulfur (S)-Total (mg/L)	23.8	52.0	62.1	236	227
	Thallium (Tl)-Total (mg/L)	0.000358	0.000012	0.000065	<0.000020 DLA	0.000017
	Tin (Sn)-Total (mg/L)	0.00014	<0.00010	<0.00010	<0.00020 DLA	<0.00010
	Titanium (Ti)-Total (mg/L)	0.039	<0.010	0.011	<0.020 DLA	<0.010
	Uranium (U)-Total (mg/L)	0.000903	0.00171	0.00130	0.00519	0.00504
	Vanadium (V)-Total (mg/L)	0.0027	<0.0010	<0.0010	<0.0020 DLA	<0.0010
	Zinc (Zn)-Total (mg/L)	0.872	2.12	5.43	9.48	9.26
	Zirconium (Zr)-Total (mg/L)	<0.00080	<0.00080	<0.00080	<0.0016 DLA	<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)	0.0496	0.0666	0.0271	0.0635	0.0706
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00020 DLA	<0.00010
	Arsenic (As)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00020 DLA	0.00014
	Barium (Ba)-Dissolved (mg/L)	0.0122	0.0348	0.0265	0.0599	0.0557
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00020 DLA	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.0010 DLA	<0.00050
	Boron (B)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.020 DLA	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	0.00149	0.00422	0.00203	0.00357	0.00333
	Calcium (Ca)-Dissolved (mg/L)	61.5	87.5	70.8	287	288
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00020 DLA	0.00029
	Cobalt (Co)-Dissolved (mg/L)	0.00015	0.00120	0.0464	0.00058	0.00053
	Copper (Cu)-Dissolved (mg/L)	0.00131	0.00073	<0.00020	0.00284	0.00275
	Iron (Fe)-Dissolved (mg/L)	<0.010	<0.010	5.24	<0.010	<0.010
	Lead (Pb)-Dissolved (mg/L)	0.00348	<0.000050	0.000893	<0.00010 DLA	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.0130	0.0137	0.0282	0.0349	0.0361
	Magnesium (Mg)-Dissolved (mg/L)	16.1	22.3	18.8	82.2	83.7
	Manganese (Mn)-Dissolved (mg/L)	0.00310	0.0203	1.62	0.456	0.432
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	<0.000050	0.000053	0.000075	<0.00010 DLA	0.000078
	Nickel (Ni)-Dissolved (mg/L)	0.00450	0.0168	0.0504	0.128	0.115
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	1.56	1.62	2.14	4.93	5.31
	Selenium (Se)-Dissolved (mg/L)	0.00029	0.00036	<0.00010	0.00049	0.00045
	Silicon (Si)-Dissolved (mg/L)	5.54	6.42	7.86	13.4	13.7
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000020 DLA	<0.000010
	Sodium (Na)-Dissolved (mg/L)	5.52	5.93	5.95	12.5	11.3

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1518297-46 Water 13-SEP-14 09:33 MW14-16	L1518297-47 Water 13-SEP-14 13:34 MW14-12S	L1518297-48 Water 13-SEP-14 11:52 MW14-12D	L1518297-49 Water 13-SEP-14 08:30 BH8	L1518297-50 Water 13-SEP-14 18:20 P2001-2A
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	0.995	0.336	0.431	1.20	2.33
	Sulfur (S)-Total (mg/L)	194	99.5	92.8	871	501
	Thallium (Tl)-Total (mg/L)	0.000013	0.000015	<0.000010	0.00598 DLA	<0.000020 DLA
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.0020 DLA	0.00021
	Titanium (Ti)-Total (mg/L)	<0.010	0.033	<0.010	<0.20 DLA	<0.020 DLA
	Uranium (U)-Total (mg/L)	0.00993	0.000123	0.00167	0.00488	0.0771
	Vanadium (V)-Total (mg/L)	<0.0010	0.0024	<0.0010	<0.020 DLA	0.0024
	Zinc (Zn)-Total (mg/L)	4.48	2.39	2.19	163	0.0114
	Zirconium (Zr)-Total (mg/L)	<0.00080	<0.00080	<0.00080	<0.016 DLA	<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)	0.0216	0.0187	0.0118	1.58	<0.0020 DLA
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.0020 DLA	0.00026
	Arsenic (As)-Dissolved (mg/L)	0.00021	0.00015	0.00012	<0.0020 DLA	0.0157
	Barium (Ba)-Dissolved (mg/L)	0.0730	0.113	0.114	0.0096	0.0452
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	0.0026	<0.00020 DLA
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.010 DLA	<0.0010 DLA
	Boron (B)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.20 DLA	<0.020 DLA
	Cadmium (Cd)-Dissolved (mg/L)	0.00222	0.000952	0.00101	0.477	<0.000020 DLA
	Calcium (Ca)-Dissolved (mg/L)	301	72.1	131	276	455
	Chromium (Cr)-Dissolved (mg/L)	0.00020	0.00015	0.00012	<0.0020 DLA	<0.00020 DLA
	Cobalt (Co)-Dissolved (mg/L)	0.00053	0.00011	0.00012	0.459	0.00042
	Copper (Cu)-Dissolved (mg/L)	0.00231	0.00114	0.00092	1.43	<0.00040 DLA
	Iron (Fe)-Dissolved (mg/L)	<0.010	<0.010	<0.010	489	5.16
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	0.220	0.00018
	Lithium (Li)-Dissolved (mg/L)	0.0292	0.00961	0.0173	0.084	0.0357
	Magnesium (Mg)-Dissolved (mg/L)	75.6	36.4	36.8	206	252
	Manganese (Mn)-Dissolved (mg/L)	0.0527	0.205	0.0588	9.75	0.145
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.000139	<0.000050	0.000104	<0.0010 DLA	0.00175
	Nickel (Ni)-Dissolved (mg/L)	0.0813	0.0149	0.0470	0.441	0.0058
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	4.96	2.64	3.68	7.24	5.59
	Selenium (Se)-Dissolved (mg/L)	0.00201	0.00014	0.00038	<0.0020 DLA	<0.00020 DLA
	Silicon (Si)-Dissolved (mg/L)	11.2	10.9	8.96	4.75	7.21
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.00020 DLA	<0.000020 DLA
	Sodium (Na)-Dissolved (mg/L)	9.11	4.92	6.54	21.9	8.51

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1518297-51 Water 13-SEP-14 17:55 SRK05-9	L1518297-52 Water 13-SEP-14 16:13 P09-ETA-1	L1518297-53 Water 13-SEP-14 15:07 P09-ETA-2	L1518297-54 Water 13-SEP-14 13:53 SRK04-3A	L1518297-55 Water 13-SEP-14 13:02 SRK05-ETA-BR2
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	0.921	0.497	4.03	3.70	7.20
	Sulfur (S)-Total (mg/L)	367	10.6	1940	3270	584
	Thallium (Tl)-Total (mg/L)	0.000035	0.000034	<0.00050 DLA	<0.0010 DLA	<0.000020 DLA
	Tin (Sn)-Total (mg/L)	0.00039	0.00073	<0.0050 DLA	<0.010 DLA	<0.00020 DLA
	Titanium (Ti)-Total (mg/L)	0.026	0.012	<0.50 DLA	<1.0 DLA	<0.020 DLA
	Uranium (U)-Total (mg/L)	0.0321	0.000549	0.00522	0.0088	0.000676
	Vanadium (V)-Total (mg/L)	0.0029	<0.0010	<0.050 DLA	<0.10 DLA	<0.0020 DLA
	Zinc (Zn)-Total (mg/L)	0.0252	0.0156	286	726	14.8
	Zirconium (Zr)-Total (mg/L)	<0.00080	0.00130	<0.040 DLA	<0.080 DLA	<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)	0.0025	0.0012	0.093	4.40	<0.0020 DLA
	Antimony (Sb)-Dissolved (mg/L)	0.00029	<0.00010	<0.0050 DLA	<0.010 DLA	<0.00020 DLA
	Arsenic (As)-Dissolved (mg/L)	0.00087	<0.00010	0.178	0.199	0.00022
	Barium (Ba)-Dissolved (mg/L)	0.0553	0.00999	0.0092	0.0124	0.0353
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00010	<0.0050 DLA	<0.010 DLA	<0.00020 DLA
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	<0.025 DLA	<0.050 DLA	<0.0010 DLA
	Boron (B)-Dissolved (mg/L)	<0.010	0.012	<0.50 DLA	<1.0 DLA	<0.020 DLA
	Cadmium (Cd)-Dissolved (mg/L)	0.000250	<0.000010	<0.00050 DLA	0.0715	0.000249
	Calcium (Ca)-Dissolved (mg/L)	272	63.1	494	394	499
	Chromium (Cr)-Dissolved (mg/L)	0.00039	<0.00010	<0.0050 DLA	<0.010 DLA	<0.00020 DLA
	Cobalt (Co)-Dissolved (mg/L)	<0.00010	<0.00010	0.671	2.21	0.0424
	Copper (Cu)-Dissolved (mg/L)	0.00210	<0.00020	<0.010 DLA	<0.020 DLA	<0.00040 DLA
	Iron (Fe)-Dissolved (mg/L)	<0.010	0.152	413	1010	33.5
	Lead (Pb)-Dissolved (mg/L)	0.000546	0.000079	<0.0025 DLA	0.0112	0.00014
	Lithium (Li)-Dissolved (mg/L)	0.00748	<0.00050	0.118	0.142	0.0144
	Magnesium (Mg)-Dissolved (mg/L)	183	10.5	796	1350	105
	Manganese (Mn)-Dissolved (mg/L)	0.000956	0.00694	70.8	141	4.61
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.00150	0.000077	<0.0025 DLA	<0.0050 DLA	0.00011
	Nickel (Ni)-Dissolved (mg/L)	0.00161	<0.00050	0.651	1.72	0.0350
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.10 DLA	<0.25 DLA	0.173
	Potassium (K)-Dissolved (mg/L)	3.80	0.28	8.84	16.6	3.86
	Selenium (Se)-Dissolved (mg/L)	0.00054	<0.00010	<0.0050 DLA	<0.010 DLA	<0.00020 DLA
	Silicon (Si)-Dissolved (mg/L)	4.54	8.96	12.9	19.2	8.63
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.00050 DLA	<0.0010 DLA	<0.000020 DLA
	Sodium (Na)-Dissolved (mg/L)	9.30	16.8	47.5	56.3	28.9

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1518297-56	L1518297-57	L1518297-58	L1518297-59	L1518297-60
	Description	Water	Water	Water	Water	Water
	Sampled Date	13-SEP-14	13-SEP-14	13-SEP-14	13-SEP-14	14-SEP-14
	Sampled Time	08:27	12:13	10:40	09:32	12:40
	Client ID	V37	SRK05-ETA-BR1	P09-LCD6	P09-LCD1	MW14-15
Grouping	**Analyte**					
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	0.702	4.30	0.840	0.873	0.647
	Sulfur (S)-Total (mg/L)	96.6	3150	121	89.3	315
	Thallium (Tl)-Total (mg/L)	0.000021	<0.0010 DLA	<0.000010	0.000018	0.000075
	Tin (Sn)-Total (mg/L)	0.00021	<0.010 DLA	<0.00010	<0.00010	0.00100
	Titanium (Ti)-Total (mg/L)	0.045	<1.0 DLA	0.026	<0.010	0.158
	Uranium (U)-Total (mg/L)	0.00335	0.0067	0.00362	0.00777	0.000582
	Vanadium (V)-Total (mg/L)	0.0052	<0.10 DLA	<0.0010	<0.0010	0.0117
	Zinc (Zn)-Total (mg/L)	0.0282	813	0.0066	0.0087	16.6
	Zirconium (Zr)-Total (mg/L)	0.00089	<0.080 DLA	<0.00080	<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)	0.0016	2.13	<0.0010	<0.0010	0.0081
	Antimony (Sb)-Dissolved (mg/L)	0.00010	<0.010 DLA	<0.00010	0.00016	<0.00020 DLA
	Arsenic (As)-Dissolved (mg/L)	0.00139	0.013	0.123	0.104	<0.00020 DLA
	Barium (Ba)-Dissolved (mg/L)	0.0628	0.0120	0.0455	0.0403	0.0282
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.010 DLA	<0.00010	<0.00010	<0.00020 DLA
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.050 DLA	<0.00050	<0.00050	<0.0010 DLA
	Boron (B)-Dissolved (mg/L)	0.036	<1.0 DLA	0.011	0.013	<0.020 DLA
	Cadmium (Cd)-Dissolved (mg/L)	<0.000010	0.0816	0.000020	0.000039	0.00195
	Calcium (Ca)-Dissolved (mg/L)	96.2	405	161	144	140
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	<0.010 DLA	<0.00010	<0.00010	<0.00020 DLA
	Cobalt (Co)-Dissolved (mg/L)	0.00040	2.44	0.00120	0.00053	0.00109
	Copper (Cu)-Dissolved (mg/L)	<0.00020	<0.020 DLA	<0.00020	<0.00020	0.00152
	Iron (Fe)-Dissolved (mg/L)	0.091	1250	8.19	4.75	0.014
	Lead (Pb)-Dissolved (mg/L)	<0.000050	0.0797	0.00851	0.0250	<0.00010 DLA
	Lithium (Li)-Dissolved (mg/L)	0.0279	0.100	0.00806	0.0100	0.0460
	Magnesium (Mg)-Dissolved (mg/L)	115	1100	50.3	43.0	158
	Manganese (Mn)-Dissolved (mg/L)	0.129	153	0.576	0.666	0.293
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.0219	<0.0050 DLA	0.00227	0.00489	0.00047
	Nickel (Ni)-Dissolved (mg/L)	0.00127	1.99	0.00125	0.00071	0.109
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.25 DLA	0.061	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	5.68	13.4	2.52	2.93	2.58
	Selenium (Se)-Dissolved (mg/L)	<0.00010	<0.010 DLA	<0.00010	<0.00010	0.00037
	Silicon (Si)-Dissolved (mg/L)	3.31	17.6	7.59	7.39	8.99
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.0010 DLA	<0.000010	<0.000010	<0.000020 DLA
	Sodium (Na)-Dissolved (mg/L)	22.2	57.7	6.73	15.2	9.87

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1518297-61 Water 14-SEP-14 18:00 PW14-01	L1518297-62 Water 14-SEP-14 15:08 PW14-07	L1518297-63 Water 14-SEP-14 12:21 PW14-06	L1518297-64 Water 14-SEP-14 10:17 MW14-03	L1518297-65 Water 14-SEP-14 10:17 DUP12
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	0.347	0.491	2.34	0.647	0.629
	Sulfur (S)-Total (mg/L)	23.6	80.8	8670	24.0	24.2
	Thallium (Tl)-Total (mg/L)	0.000011	<0.000010	0.0200	0.000016	0.000014
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.050 DLA	0.00013	0.00045
	Titanium (Ti)-Total (mg/L)	<0.010	<0.010	<5.0 DLA	0.028	0.023
	Uranium (U)-Total (mg/L)	0.00151	0.00105	0.305	0.0170	0.0164
	Vanadium (V)-Total (mg/L)	<0.0010	<0.0010	<0.50 DLA	0.0023	0.0021
	Zinc (Zn)-Total (mg/L)	0.661	1.16	2720	0.131	0.133
	Zirconium (Zr)-Total (mg/L)	<0.00080	<0.00080	<0.40 DLA	0.00151	0.00145
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)	0.0283	0.0871	86.3	0.0027	0.0025
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00010	<0.050 DLA	0.00023	0.00021
	Arsenic (As)-Dissolved (mg/L)	0.00059	0.00273	<0.050 DLA	0.00880	0.00890
	Barium (Ba)-Dissolved (mg/L)	0.0700	0.0607	0.030	0.142	0.137
	Beryllium (Be)-Dissolved (mg/L)	0.00023	0.00073	<0.050 DLA	<0.00010	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	<0.25 DLA	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)	<0.010	<0.010	<5.0 DLA	<0.010	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	0.000060	0.000105	2.22	<0.000010	<0.000010
	Calcium (Ca)-Dissolved (mg/L)	75.4	98.4	462	128	128
	Chromium (Cr)-Dissolved (mg/L)	0.00016	0.00036	<0.050 DLA	0.00029	0.00029
	Cobalt (Co)-Dissolved (mg/L)	0.00636	0.00545	6.73	0.00111	0.00111
	Copper (Cu)-Dissolved (mg/L)	0.00077	0.00026	<0.10 DLA	<0.00020	0.00023
	Iron (Fe)-Dissolved (mg/L)	14.0	23.3	992	8.61	8.56
	Lead (Pb)-Dissolved (mg/L)	0.000128	0.000757	1.91	<0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.0155	0.0459	0.84	0.0374	0.0375
	Magnesium (Mg)-Dissolved (mg/L)	17.7	38.8	4070	34.8	35.0
	Manganese (Mn)-Dissolved (mg/L)	2.66	1.20	519	0.865	0.883
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.000101	0.000188	<0.025 DLA	0.00400	0.00383
	Nickel (Ni)-Dissolved (mg/L)	0.00959	0.0159	10.9	0.00336	0.00333
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.50 DLA	0.057	0.071
	Potassium (K)-Dissolved (mg/L)	2.17	3.42	11.9	7.09	7.03
	Selenium (Se)-Dissolved (mg/L)	<0.00010	<0.00010	<0.050 DLA	<0.00010	<0.00010
	Silicon (Si)-Dissolved (mg/L)	9.59	12.6	14.9	8.80	8.89
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.0050 DLA	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	5.25	9.45	36	7.17	7.26

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	Sample ID: L1518297-66 Description: Water Sampled Date: 14-SEP-14 Sampled Time: 15:13 Client ID: SRK08-P14	Sample ID: L1518297-67 Description: Water Sampled Date: 14-SEP-14 Sampled Time: 14:00 Client ID: SRK08-P15	Sample ID: L1518297-68 Description: Water Sampled Date: 14-SEP-14 Client ID: P09-GS1A	Sample ID: L1518297-69 Description: Water Sampled Date: 14-SEP-14 Sampled Time: 10:26 Client ID: P09-GS1B	Sample ID: L1518297-70 Description: Water Sampled Date: 14-SEP-14 Sampled Time: 13:22 Client ID: P03-03-9
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	1.85	1.11	0.659	1.76	0.887
	Sulfur (S)-Total (mg/L)	369	345	170	258	15300
	Thallium (Tl)-Total (mg/L)	DLA <0.000020	DLA <0.000020	0.00573	0.000056	DLA <0.0020
	Tin (Sn)-Total (mg/L)	DLA <0.00020	DLA <0.00020	<0.00010	<0.00010	DLA <0.020
	Titanium (Ti)-Total (mg/L)	DLA <0.020	DLA <0.020	<0.010	<0.010	DLA <2.0
	Uranium (U)-Total (mg/L)	0.00801	0.0240	0.0175	0.00213	DLA <0.0020
	Vanadium (V)-Total (mg/L)	DLA <0.0020	DLA <0.0020	<0.0010	<0.0010	DLA <0.20
	Zinc (Zn)-Total (mg/L)	0.0100	DLA <0.0060	4.75	0.205	1110
	Zirconium (Zr)-Total (mg/L)	DLA <0.0016	DLA <0.0016	<0.00080	<0.00080	DLA <0.16
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	DLA <0.0020	0.0011	0.0016	DLA <0.20
	Antimony (Sb)-Dissolved (mg/L)	0.00020	0.00023	0.0156	0.00042	DLA <0.020
	Arsenic (As)-Dissolved (mg/L)	0.00021	0.00024	0.123	1.70	DLA <0.020
	Barium (Ba)-Dissolved (mg/L)	0.0557	0.0384	0.0126	0.0250	DLA <0.010
	Beryllium (Be)-Dissolved (mg/L)	DLA <0.00020	DLA <0.00020	<0.00010	<0.00010	DLA <0.020
	Bismuth (Bi)-Dissolved (mg/L)	DLA <0.0010	DLA <0.0010	<0.00050	<0.00050	DLA <0.10
	Boron (B)-Dissolved (mg/L)	<0.020	DLA <0.020	<0.010	0.013	DLA <2.0
	Cadmium (Cd)-Dissolved (mg/L)	0.000049	0.000091	0.00173	0.000041	DLA <0.0020
	Calcium (Ca)-Dissolved (mg/L)	381	350	175	239	453
	Chromium (Cr)-Dissolved (mg/L)	DLA <0.00020	0.00093	<0.00010	<0.00010	DLA <0.020
	Cobalt (Co)-Dissolved (mg/L)	DLA <0.00020	DLA <0.00020	0.0597	0.00250	DLA <0.020
	Copper (Cu)-Dissolved (mg/L)	0.00365	0.00088	<0.00020	<0.00020	DLA <0.040
	Iron (Fe)-Dissolved (mg/L)	<0.010	<0.010	1.03	4.63	23800
	Lead (Pb)-Dissolved (mg/L)	DLA <0.00010	0.00017	0.0439	<0.000050	DLA <0.010
	Lithium (Li)-Dissolved (mg/L)	0.0086	0.0114	0.00976	0.0126	0.20
	Magnesium (Mg)-Dissolved (mg/L)	100	136	73.2	91.8	661
	Manganese (Mn)-Dissolved (mg/L)	0.00021	0.00013	1.79	0.641	147
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.00086	0.00065	0.00197	0.00341	DLA <0.010
	Nickel (Ni)-Dissolved (mg/L)	0.0012	0.0120	0.138	0.0128	DLA <0.10
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.050	0.071	DLA <2.5
	Potassium (K)-Dissolved (mg/L)	1.23	2.10	4.23	2.61	62.6
	Selenium (Se)-Dissolved (mg/L)	0.00100	0.00151	<0.00010	<0.00010	DLA <0.020
	Silicon (Si)-Dissolved (mg/L)	5.90	5.75	2.12	7.45	8.3
	Silver (Ag)-Dissolved (mg/L)	DLA <0.000020	DLA <0.000020	<0.000010	<0.000010	DLA <0.0020
	Sodium (Na)-Dissolved (mg/L)	5.29	5.18	9.96	16.9	280

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1518297-71 Water 14-SEP-14 13:50 P03-03-4	L1518297-72 Water 14-SEP-14 14:36 P03-03-2	L1518297-73 Water 15-SEP-14 11:42 P03-05-4	L1518297-74 Water 15-SEP-14 10:45 P03-06-1	L1518297-75 Water 15-SEP-14 10:05 P03-06-2
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	0.657	0.511	0.847	2.19	1.96
	Sulfur (S)-Total (mg/L)	542	920 DLA	357 DLA	1340 DLA	1320 DLA
	Thallium (Tl)-Total (mg/L)	0.00012	<0.00020	<0.000050	<0.00050	<0.00050
	Tin (Sn)-Total (mg/L)	<0.0010 DLA	<0.0020 DLA	<0.00050 DLA	<0.0050 DLA	<0.0050 DLA
	Titanium (Ti)-Total (mg/L)	<0.10 DLA	<0.20 DLA	<0.050 DLA	<0.50 DLA	0.88
	Uranium (U)-Total (mg/L)	0.00017	0.00161	0.00109	0.00286	0.00375
	Vanadium (V)-Total (mg/L)	<0.010 DLA	<0.020 DLA	<0.0050 DLA	<0.050 DLA	<0.050 DLA
	Zinc (Zn)-Total (mg/L)	17.1	121 DLA	0.136 DLA	31.8 DLA	35.7 DLA
	Zirconium (Zr)-Total (mg/L)	<0.0080 DLA	<0.016 DLA	<0.0040 DLA	<0.040 DLA	<0.040 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)	0.067	2.71 DLA	<0.0050 DLA	2.81 DLA	1.67 DLA
	Antimony (Sb)-Dissolved (mg/L)	<0.0010 DLA	<0.0020 DLA	<0.00050 DLA	<0.0050 DLA	<0.0050 DLA
	Arsenic (As)-Dissolved (mg/L)	0.0041	<0.0020 DLA	<0.00050 DLA	<0.0050 DLA	<0.0050 DLA
	Barium (Ba)-Dissolved (mg/L)	0.0376	0.0083 DLA	0.0289 DLA	0.0142 DLA	0.0122 DLA
	Beryllium (Be)-Dissolved (mg/L)	<0.0010 DLA	<0.0020 DLA	<0.00050 DLA	<0.0050 DLA	<0.0050 DLA
	Bismuth (Bi)-Dissolved (mg/L)	<0.0050 DLA	<0.010 DLA	<0.0025 DLA	<0.025 DLA	<0.025 DLA
	Boron (B)-Dissolved (mg/L)	<0.10 DLA	<0.20 DLA	<0.050 DLA	<0.50 DLA	<0.50
	Cadmium (Cd)-Dissolved (mg/L)	0.00994	0.00863	0.000684	0.0793	0.0588
	Calcium (Ca)-Dissolved (mg/L)	192	139 DLA	322 DLA	474 DLA	472 DLA
	Chromium (Cr)-Dissolved (mg/L)	<0.0010 DLA	<0.0020 DLA	<0.00050 DLA	<0.0050 DLA	<0.0050 DLA
	Cobalt (Co)-Dissolved (mg/L)	0.316	0.0887	0.0907 DLA	3.05 DLA	2.56 DLA
	Copper (Cu)-Dissolved (mg/L)	<0.0020 DLA	0.0198	<0.0010 DLA	<0.010 DLA	<0.010 DLA
	Iron (Fe)-Dissolved (mg/L)	441	1110	15.0 DLA	808 DLA	926 DLA
	Lead (Pb)-Dissolved (mg/L)	0.00075	0.0019	<0.00025 DLA	0.0129 DLA	0.0135 DLA
	Lithium (Li)-Dissolved (mg/L)	0.0566	0.021	0.0275 DLA	0.143 DLA	0.129 DLA
	Magnesium (Mg)-Dissolved (mg/L)	54.8	44.3 DLA	56.5 DLA	198 DLA	185 DLA
	Manganese (Mn)-Dissolved (mg/L)	50.7	12.5 DLA	45.9 DLA	214 DLA	188 DLA
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	<0.00050 DLA	<0.0010 DLA	0.00039 DLA	<0.0025 DLA	<0.0025 DLA
	Nickel (Ni)-Dissolved (mg/L)	0.350	0.142 DLA	0.0357 DLA	3.44 DLA	3.03 DLA
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.10 DLA	<0.050 DLA	<0.10 DLA	<0.10 DLA
	Potassium (K)-Dissolved (mg/L)	5.69	4.30 DLA	3.64 DLA	7.89 DLA	7.36 DLA
	Selenium (Se)-Dissolved (mg/L)	<0.0010 DLA	<0.0020 DLA	<0.00050 DLA	<0.0050 DLA	<0.0050 DLA
	Silicon (Si)-Dissolved (mg/L)	17.6	19.8 DLA	11.5 DLA	38.4 DLA	33.2 DLA
	Silver (Ag)-Dissolved (mg/L)	<0.00010 DLA	<0.00020 DLA	<0.000050 DLA	<0.00050 DLA	<0.00050 DLA
	Sodium (Na)-Dissolved (mg/L)	21.1	7.5	14.5	28.5	25.3

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1518297-76				
	Description	Water				
	Sampled Date					
	Sampled Time					
	Client ID	TRAVEL BLANK				
Grouping	**Analyte**					
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	<0.00020				
	Sulfur (S)-Total (mg/L)	<0.50				
	Thallium (Tl)-Total (mg/L)	<0.000010				
	Tin (Sn)-Total (mg/L)	<0.00010				
	Titanium (Ti)-Total (mg/L)	<0.010				
	Uranium (U)-Total (mg/L)	<0.000010				
	Vanadium (V)-Total (mg/L)	<0.0010				
	Zinc (Zn)-Total (mg/L)	<0.0030				
	Zirconium (Zr)-Total (mg/L)	<0.00080				
Dissolved Metals	Dissolved Mercury Filtration Location					
	Dissolved Metals Filtration Location					
	Aluminum (Al)-Dissolved (mg/L)					
	Antimony (Sb)-Dissolved (mg/L)					
	Arsenic (As)-Dissolved (mg/L)					
	Barium (Ba)-Dissolved (mg/L)					
	Beryllium (Be)-Dissolved (mg/L)					
	Bismuth (Bi)-Dissolved (mg/L)					
	Boron (B)-Dissolved (mg/L)					
	Cadmium (Cd)-Dissolved (mg/L)					
	Calcium (Ca)-Dissolved (mg/L)					
	Chromium (Cr)-Dissolved (mg/L)					
	Cobalt (Co)-Dissolved (mg/L)					
	Copper (Cu)-Dissolved (mg/L)					
	Iron (Fe)-Dissolved (mg/L)					
	Lead (Pb)-Dissolved (mg/L)					
	Lithium (Li)-Dissolved (mg/L)					
	Magnesium (Mg)-Dissolved (mg/L)					
	Manganese (Mn)-Dissolved (mg/L)					
	Mercury (Hg)-Dissolved (mg/L)					
	Molybdenum (Mo)-Dissolved (mg/L)					
	Nickel (Ni)-Dissolved (mg/L)					
	Phosphorus (P)-Dissolved (mg/L)					
	Potassium (K)-Dissolved (mg/L)					
	Selenium (Se)-Dissolved (mg/L)					
	Silicon (Si)-Dissolved (mg/L)					
	Silver (Ag)-Dissolved (mg/L)					
	Sodium (Na)-Dissolved (mg/L)					

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	L1518297-1	L1518297-2	L1518297-3	L1518297-4	L1518297-5
Description	Water	Water	Water	Water	Water
Sampled Date		12-SEP-14	15-SEP-14	13-SEP-14	11-SEP-14
Sampled Time			09:33		
Client ID	TRAVEL BLANK	DUP 8	P03-06-6	DUP 7	DUP 5
Grouping **Analyte**					
WATER					
Dissolved Metals Strontium (Sr)-Dissolved (mg/L)		0.334	0.12	7.00	1.63
Sulfur (S)-Dissolved (mg/L)		58.2	8200	554	176
Thallium (Tl)-Dissolved (mg/L)		0.000054	<0.0050 DLA	<0.000020 DLA	<0.000010
Tin (Sn)-Dissolved (mg/L)		<0.00010	<0.050 DLA	<0.00020 DLA	<0.00010
Titanium (Ti)-Dissolved (mg/L)		<0.010	<5.0 DLA	<0.020 DLA	<0.010
Uranium (U)-Dissolved (mg/L)		0.00111	0.0687	0.000649	0.0201
Vanadium (V)-Dissolved (mg/L)		<0.0010	<0.50 DLA	<0.0020 DLA	<0.0010
Zinc (Zn)-Dissolved (mg/L)		5.31	2640	14.7	0.0072
Zirconium (Zr)-Dissolved (mg/L)		<0.00080	<0.40 DLA	0.0022	0.00144

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1518297-6 Water 14-SEP-14 DUP 9	L1518297-7 Water 11-SEP-14 DUP 6	L1518297-8 Water 15-SEP-14 09:48 MW14-02S	L1518297-9 Water 15-SEP-14 11:06 MW14-02D	L1518297-10 Water 11-SEP-14 17:21 P96-8B
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	1.70	0.701	0.102	0.338	3.74
	Sulfur (S)-Dissolved (mg/L)	347	90.3	3.89	24.0	3150
	Thallium (Tl)-Dissolved (mg/L)	<0.000020 DLA	<0.000010	<0.000010	<0.000010	<0.0020 DLA
	Tin (Sn)-Dissolved (mg/L)	<0.00020 DLA	<0.00010	<0.00010	<0.00010	<0.020 DLA
	Titanium (Ti)-Dissolved (mg/L)	<0.020 DLA	<0.010	<0.010	<0.010	<2.0 DLA
	Uranium (U)-Dissolved (mg/L)	0.00714	0.00162	0.000845	0.000446	<0.0020 DLA
	Vanadium (V)-Dissolved (mg/L)	<0.0020 DLA	<0.0010	<0.0010	<0.0010	<0.20 DLA
	Zinc (Zn)-Dissolved (mg/L)	0.0050	0.240	0.0117	0.765	936
	Zirconium (Zr)-Dissolved (mg/L)	<0.0016 DLA	<0.00080	<0.00080	<0.00080	<0.16 DLA

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1518297-11 Water 11-SEP-14 16:46 P96-8A	L1518297-12 Water 11-SEP-14 15:34 SRK08-P9	L1518297-13 Water 11-SEP-14 14:35 SRK08-SBR2	L1518297-14 Water 11-SEP-14 13:18 SRK08-SBR3	L1518297-15 Water 11-SEP-14 12:18 SRK05-SP-1B
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	3.54	10.9	1.19	1.15	0.700
	Sulfur (S)-Dissolved (mg/L)	3070 DLA	458 DLA	821 DLA	578	91.2
	Thallium (Tl)-Dissolved (mg/L)	<0.0020 DLA	<0.000020 DLA	<0.00020 DLA	0.000072 DLA	<0.000010
	Tin (Sn)-Dissolved (mg/L)	<0.020 DLA	<0.00020 DLA	<0.0020 DLA	<0.00020 DLA	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<2.0 DLA	<0.020 DLA	<0.20 DLA	<0.020 DLA	<0.010
	Uranium (U)-Dissolved (mg/L)	0.0217	0.00442	0.00202	0.0382	0.00161
	Vanadium (V)-Dissolved (mg/L)	<0.20 DLA	<0.0020 DLA	<0.020 DLA	<0.0020 DLA	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	1050	0.0129	106	0.0692	0.244
	Zirconium (Zr)-Dissolved (mg/L)	<0.16 DLA	<0.0016 DLA	<0.016 DLA	<0.0016 DLA	<0.00080

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1518297-16 Water 11-SEP-14 09:35 MW14-09	L1518297-17 Water 11-SEP-14 10:13 MW14-10	L1518297-18 Water 11-SEP-14 08:52 SRK05-SP-2	L1518297-19 Water 11-SEP-14 10:30 S1B	L1518297-20 Water 11-SEP-14 16:48 FB1
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	0.458	0.483	0.331	0.340	<0.00020
	Sulfur (S)-Dissolved (mg/L)	58.8	79.0	50.7	61.8	<0.50
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.00701	0.0202	0.00131	0.00172	<0.000010
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	0.0727	<0.0010	0.194	0.0195	<0.0010
	Zirconium (Zr)-Dissolved (mg/L)	<0.00080	<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

	Sample ID	L1518297-21	L1518297-22	L1518297-23	L1518297-24	L1518297-25
	Description	Water	Water	Water	Water	Water
	Sampled Date	11-SEP-14	11-SEP-14	11-SEP-14	11-SEP-14	11-SEP-14
	Sampled Time	14:25	09:37	10:46	15:44	12:10
	Client ID	P2001-2B	V34	V35	V36	P2001-3
Grouping	**Analyte**					
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	2.29	1.66	0.981	2.07	0.637
	Sulfur (S)-Dissolved (mg/L)	469	176	444	615	42.3
	Thallium (Tl)-Dissolved (mg/L)	<0.000020 DLA	<0.000010	0.000021	0.000084	0.000011
	Tin (Sn)-Dissolved (mg/L)	<0.00020 DLA	<0.00010	<0.00020 DLA	<0.00020 DLA	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<0.020 DLA	<0.010	<0.020 DLA	<0.020 DLA	<0.010
	Uranium (U)-Dissolved (mg/L)	0.0726	0.0203	0.0727	0.0624	0.0121
	Vanadium (V)-Dissolved (mg/L)	<0.0020 DLA	<0.0010	<0.0020 DLA	<0.0020 DLA	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	0.0043	0.0051	0.0062	0.0800	0.0052
	Zirconium (Zr)-Dissolved (mg/L)	<0.0016 DLA	0.00144	<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

Grouping	Analyte	L1518297-26 Water 12-SEP-14 15:49 SRK05-5C	L1518297-27 Water 12-SEP-14 14:39 BH05-9B-R	L1518297-28 Water 12-SEP-14 13:56 P96-9A	L1518297-29 Water 12-SEP-14 12:00 SRK05-07	L1518297-30 Water 12-SEP-14 09:29 P09-VC2
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	0.880	1.15	1.33	1.46	0.886
	Sulfur (S)-Dissolved (mg/L)	65.2	58.4	620 DLA	600 DLA	13.9
	Thallium (Tl)-Dissolved (mg/L)	0.000010	<0.000010	<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)	0.00239	0.000925	0.0473	0.0341	0.00415
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0020 DLA	<0.0020 DLA	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	<0.0010	0.0010	0.0825	0.0043	0.0885
	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	L1518297-31	L1518297-32	L1518297-33	L1518297-34	L1518297-35
	Description	Water	Water	Water	Water	Water
	Sampled Date	12-SEP-14	12-SEP-14	12-SEP-14	12-SEP-14	12-SEP-14
	Sampled Time	10:40	12:56	14:59	18:16	15:04
	Client ID	P09-VC1	SRK05-8	BH14B	P96-6	BH13B
Grouping	**Analyte**					
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	0.564	1.47	3.54	0.824	0.854
	Sulfur (S)-Dissolved (mg/L)	17.2	432 DLA	731 DLA	391 DLA	194
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000020 DLA	<0.000020 DLA	<0.000020 DLA	<0.000010
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00020 DLA	<0.00020 DLA	<0.00020 DLA	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.020 DLA	<0.020 DLA	<0.020 DLA	<0.010
	Uranium (U)-Dissolved (mg/L)	0.00588	0.0274	0.200	0.0599	0.00179
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0020 DLA	<0.0020 DLA	<0.0020 DLA	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	<0.0010	<0.0020 DLA	1.17	0.377	0.0025
	Zirconium (Zr)-Dissolved (mg/L)	<0.00080	<0.0016 DLA	<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

Grouping	Analyte	L1518297-36 Water 12-SEP-14 16:00 BH14A	L1518297-37 Water 12-SEP-14 13:20 BH5	L1518297-38 Water 12-SEP-14 12:18 SRK08-P12A	L1518297-39 Water 12-SEP-14 11:45 SRK08-P12B	L1518297-40 Water 12-SEP-14 10:49 BH10A
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	3.52	0.387	1.21	0.878	0.328
	Sulfur (S)-Dissolved (mg/L)	877	42.6	52.8	34.6	30.2
	Thallium (Tl)-Dissolved (mg/L)	<0.000050 DLA	0.000069	0.000093	0.000048	0.000064
	Tin (Sn)-Dissolved (mg/L)	<0.00050 DLA	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<0.050 DLA	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.149	0.000317	0.00219	0.00117	0.000106
	Vanadium (V)-Dissolved (mg/L)	<0.0050 DLA	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	23.3	2.88	1.07	0.262	0.648
	Zirconium (Zr)-Dissolved (mg/L)	<0.0040 DLA	<0.00080	0.00124	<0.00080	<0.00080

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1518297-41 Water 12-SEP-14 09:59 BH10B	L1518297-42 Water 12-SEP-14 08:56 P05-04	L1518297-43 Water 12-SEP-14 08:21 BH6	L1518297-44 Water 13-SEP-14 10:10 MW14-13	L1518297-45 Water 13-SEP-14 10:10 DUP10
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	0.264	0.404	0.333	1.03	1.03
	Sulfur (S)-Dissolved (mg/L)	23.6	52.7	59.5	218	218
	Thallium (Tl)-Dissolved (mg/L)	0.000249	0.000012	0.000054	<0.000020 DLA	0.000014
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00020 DLA	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.020 DLA	<0.010
	Uranium (U)-Dissolved (mg/L)	0.000065	0.00161	0.00111	0.00489	0.00494
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0020 DLA	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	0.848	2.21	5.40	9.27	9.27
	Zirconium (Zr)-Dissolved (mg/L)	<0.00080	<0.00080	<0.00080	<0.0016 DLA	<0.00080

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1518297-46 Water 13-SEP-14 09:33 MW14-16	L1518297-47 Water 13-SEP-14 13:34 MW14-12S	L1518297-48 Water 13-SEP-14 11:52 MW14-12D	L1518297-49 Water 13-SEP-14 08:30 BH8	L1518297-50 Water 13-SEP-14 18:20 P2001-2A
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	0.958	0.320	0.423	1.13	2.22
	Sulfur (S)-Dissolved (mg/L)	182	99.3	89.6	866	482 DLA
	Thallium (Tl)-Dissolved (mg/L)	0.000013	<0.000010	<0.000010	0.00587 DLA	<0.000020 DLA
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.0020 DLA	<0.00020 DLA
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.20 DLA	<0.020 DLA
	Uranium (U)-Dissolved (mg/L)	0.00958	0.000031	0.00163	0.00324 DLA	0.0733 DLA
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.020 DLA	<0.0020 DLA
	Zinc (Zn)-Dissolved (mg/L)	4.40	2.39	2.21	153 DLA	0.0032 DLA
	Zirconium (Zr)-Dissolved (mg/L)	<0.00080	<0.00080	<0.00080	<0.016	<0.0016

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1518297-51 Water 13-SEP-14 17:55 SRK05-9	L1518297-52 Water 13-SEP-14 16:13 P09-ETA-1	L1518297-53 Water 13-SEP-14 15:07 P09-ETA-2	L1518297-54 Water 13-SEP-14 13:53 SRK04-3A	L1518297-55 Water 13-SEP-14 13:02 SRK05-ETA-BR2
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	0.901	0.497	3.76	3.68	7.09
	Sulfur (S)-Dissolved (mg/L)	345	10.7	1830 DLA	3180 DLA	565 DLA
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000010	<0.00050 DLA	<0.0010 DLA	<0.000020 DLA
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.0050 DLA	<0.010 DLA	<0.00020 DLA
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.50 DLA	<1.0 DLA	<0.020 DLA
	Uranium (U)-Dissolved (mg/L)	0.0317	0.000069	0.00490 DLA	0.0090 DLA	0.000589 DLA
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.050 DLA	<0.10 DLA	<0.0020 DLA
	Zinc (Zn)-Dissolved (mg/L)	0.0083	0.0034	271 DLA	726 DLA	14.4 DLA
	Zirconium (Zr)-Dissolved (mg/L)	<0.00080	<0.00080	<0.040 DLA	<0.080 DLA	<0.0016 DLA

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1518297-56	L1518297-57	L1518297-58	L1518297-59	L1518297-60
	Description	Water	Water	Water	Water	Water
	Sampled Date	13-SEP-14	13-SEP-14	13-SEP-14	13-SEP-14	14-SEP-14
	Sampled Time	08:27	12:13	10:40	09:32	12:40
	Client ID	V37	SRK05-ETA-BR1	P09-LCD6	P09-LCD1	MW14-15
Grouping	**Analyte**					
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	0.686	4.32	0.833	0.851	0.656
	Sulfur (S)-Dissolved (mg/L)	95.0	3040 DLA	115	90.4	331 DLA
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.0010 DLA	<0.000010	0.000012	<0.000020 DLA
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.010 DLA	<0.00010	<0.00010	0.00025
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<1.0 DLA	<0.010	<0.010	<0.020 DLA
	Uranium (U)-Dissolved (mg/L)	0.00312	0.0067	0.00368	0.00751	0.000206
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.10 DLA	<0.0010	<0.0010	<0.0020 DLA
	Zinc (Zn)-Dissolved (mg/L)	0.0055	911 DLA	0.0022	0.0065	16.9 DLA
	Zirconium (Zr)-Dissolved (mg/L)	<0.00080	<0.080	<0.00080	<0.00080	<0.0016

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1518297-61 Water 14-SEP-14 18:00 PW14-01	L1518297-62 Water 14-SEP-14 15:08 PW14-07	L1518297-63 Water 14-SEP-14 12:21 PW14-06	L1518297-64 Water 14-SEP-14 10:17 MW14-03	L1518297-65 Water 14-SEP-14 10:17 DUP12
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	0.295	0.492	2.44	0.603	0.627
	Sulfur (S)-Dissolved (mg/L)	22.6	76.5	8360	22.8	22.8
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000010	0.0205	<0.000010	<0.000010
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.050 DLA	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<5.0 DLA	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.00133	0.00119	0.327	0.0169	0.0166
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.50 DLA	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	0.648	1.19	2890	0.0063	0.0057
	Zirconium (Zr)-Dissolved (mg/L)	<0.00080	<0.00080	<0.40 DLA	<0.00080	<0.00080

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1518297-66	L1518297-67	L1518297-68	L1518297-69	L1518297-70
	Description	Water	Water	Water	Water	Water
	Sampled Date	14-SEP-14	14-SEP-14	14-SEP-14	14-SEP-14	14-SEP-14
	Sampled Time	15:13	14:00		10:26	13:22
	Client ID	SRK08-P14	SRK08-P15	P09-GS1A	P09-GS1B	P03-03-9
Grouping	**Analyte**					
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	1.70	1.07	0.654	1.74	0.758
	Sulfur (S)-Dissolved (mg/L)	355 DLA	353 DLA	168	255	15400 DLA
	Thallium (Tl)-Dissolved (mg/L)	<0.000020 DLA	<0.000020 DLA	0.00562	0.000055	<0.0020 DLA
	Tin (Sn)-Dissolved (mg/L)	<0.00020 DLA	<0.00020 DLA	<0.00010	<0.00010	<0.020 DLA
	Titanium (Ti)-Dissolved (mg/L)	<0.020 DLA	<0.020 DLA	<0.010	<0.010	<2.0 DLA
	Uranium (U)-Dissolved (mg/L)	0.00721	0.0235	0.0168	0.00207	<0.0020 DLA
	Vanadium (V)-Dissolved (mg/L)	<0.0020 DLA	<0.0020 DLA	<0.0010	<0.0010	<0.20 DLA
	Zinc (Zn)-Dissolved (mg/L)	0.0052	0.0042	4.67	0.196	1070 DLA
	Zirconium (Zr)-Dissolved (mg/L)	<0.0016 DLA	<0.0016 DLA	<0.00080	<0.00080	<0.16

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1518297-71	L1518297-72	L1518297-73	L1518297-74	L1518297-75
	Description	Water	Water	Water	Water	Water
	Sampled Date	14-SEP-14	14-SEP-14	15-SEP-14	15-SEP-14	15-SEP-14
	Sampled Time	13:50	14:36	11:42	10:45	10:05
	Client ID	P03-03-4	P03-03-2	P03-05-4	P03-06-1	P03-06-2
Grouping	**Analyte**					
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	0.626	0.495	0.805	2.05	1.87
	Sulfur (S)-Dissolved (mg/L)	532 DLA	898 DLA	370 DLA	1260 DLA	1310 DLA
	Thallium (Tl)-Dissolved (mg/L)	<0.00010 DLA	<0.00020 DLA	<0.000050 DLA	<0.00050 DLA	<0.00050 DLA
	Tin (Sn)-Dissolved (mg/L)	<0.0010 DLA	<0.0020 DLA	<0.00050 DLA	<0.0050 DLA	<0.0050 DLA
	Titanium (Ti)-Dissolved (mg/L)	<0.10 DLA	<0.20 DLA	<0.050 DLA	<0.50 DLA	<0.50 DLA
	Uranium (U)-Dissolved (mg/L)	0.00016 DLA	0.00149 DLA	0.000977 DLA	0.00240 DLA	0.00153 DLA
	Vanadium (V)-Dissolved (mg/L)	<0.010 DLA	<0.020 DLA	<0.0050 DLA	<0.050 DLA	<0.050 DLA
	Zinc (Zn)-Dissolved (mg/L)	16.8 DLA	122 DLA	0.127 DLA	30.3 DLA	35.0 DLA
	Zirconium (Zr)-Dissolved (mg/L)	<0.0080 DLA	<0.016 DLA	<0.0040 DLA	<0.040 DLA	<0.040 DLA

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1518297-76				
	Description	Water				
	Sampled Date					
	Sampled Time					
	Client ID	TRAVEL BLANK				
Grouping	**Analyte**					
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)					
	Sulfur (S)-Dissolved (mg/L)					
	Thallium (Tl)-Dissolved (mg/L)					
	Tin (Sn)-Dissolved (mg/L)					
	Titanium (Ti)-Dissolved (mg/L)					
	Uranium (U)-Dissolved (mg/L)					
	Vanadium (V)-Dissolved (mg/L)					
	Zinc (Zn)-Dissolved (mg/L)					
	Zirconium (Zr)-Dissolved (mg/L)					

* 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 or PTFE container with HCl preservative. Results may be biased low.
WSMD	Water sample(s) for dissolved mercury analysis was not submitted in glass or PTFE 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	Aluminum (Al)-Dissolved	DLA	L1518297-10, -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, -68, -69, -7, -70, -71, -72, -73, -74, -75, -8, -9
Duplicate	Beryllium (Be)-Dissolved	DLA	L1518297-10, -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, -68, -69, -7, -70, -71, -72, -73, -74, -75, -8, -9
Duplicate	Bismuth (Bi)-Dissolved	DLA	L1518297-10, -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, -68, -69, -7, -70, -71, -72, -73, -74, -75, -8, -9
Duplicate	Chromium (Cr)-Dissolved	DLA	L1518297-10, -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, -68, -69, -7, -70, -71, -72, -73, -74, -75, -8, -9
Duplicate	Lead (Pb)-Dissolved	DLA	L1518297-10, -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, -68, -69, -7, -70, -71, -72, -73, -74, -75, -8, -9
Duplicate	Silver (Ag)-Dissolved	DLA	L1518297-10, -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, -68, -69, -7, -70, -71, -72, -73, -74, -75, -8, -9
Duplicate	Tin (Sn)-Dissolved	DLA	L1518297-10, -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, -68, -69, -7, -70, -71, -72, -73, -74, -75, -8, -9
Duplicate	Titanium (Ti)-Dissolved	DLA	L1518297-10, -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, -68, -69, -7, -70, -71, -72, -73, -74, -75, -8, -9
Duplicate	Zinc (Zn)-Dissolved	DLA	L1518297-10, -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, -68, -69, -7, -70, -71, -72, -73, -74, -75, -8, -9
Duplicate	Beryllium (Be)-Dissolved	DLA	L1518297-10, -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, -68, -69, -7, -70, -71, -72, -73, -74, -75, -8, -9
Duplicate	Bismuth (Bi)-Dissolved	DLA	L1518297-10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2,

Reference Information

	Parameter	Qualifier	Applies to Sample Number(s)
			-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, -68, -69, -7, -70, -71, -72, -73, -74, -75, -8, -9
Duplicate	Chromium (Cr)-Dissolved	DLA	L1518297-10, -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, -68, -69, -7, -70, -71, -72, -73, -74, -75, -8, -9
Duplicate	Lead (Pb)-Dissolved	DLA	L1518297-10, -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, -68, -69, -7, -70, -71, -72, -73, -74, -75, -8, -9
Duplicate	Titanium (Ti)-Dissolved	DLA	L1518297-10, -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, -68, -69, -7, -70, -71, -72, -73, -74, -75, -8, -9
Duplicate	Vanadium (V)-Dissolved	DLA	L1518297-10, -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, -68, -69, -7, -70, -71, -72, -73, -74, -75, -8, -9
Duplicate	Cadmium (Cd)-Dissolved	DLM	L1518297-10, -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, -68, -69, -7, -70, -71, -72, -73, -74, -75, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1518297-10, -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, -68, -69, -7, -70, -71, -72, -73, -74, -75, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1518297-10, -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, -68, -69, -7, -70, -71, -72, -73, -74, -75, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1518297-10, -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, -68, -69, -7, -70, -71, -72, -73, -74, -75, -8, -9
Matrix Spike	Sulfate (SO4)	MS-B	L1518297-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Silicon (Si)-Dissolved	MS-B	L1518297-10, -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, -68, -69, -7, -70, -71, -72, -73, -74, -75, -8, -9
Matrix Spike	Sulfate (SO4)	MS-B	L1518297-22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -60, -61, -62, -63, -64, -65, -66, -67, -68, -69, -71, -72, -73, -74, -75, -76
Matrix Spike	Sulfate (SO4)	MS-B	L1518297-22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -50, -51, -52, -53, -54, -55, -56, -

Reference Information

	Parameter	Qualifier	Applies to Sample Number(s)
			57, -58, -59, -60, -61, -62, -63, -64, -65, -66, -67, -68, -69, -71, -72, -73, -74, -75, -76
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1518297-10, -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, -68, -69, -7, -70, -71, -72, -73, -74, -75, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1518297-10, -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, -68, -69, -7, -70, -71, -72, -73, -74, -75, -8, -9
Matrix Spike	Silicon (Si)-Dissolved	MS-B	L1518297-10, -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, -68, -69, -7, -70, -71, -72, -73, -74, -75, -8, -9
Matrix Spike	Sulfur (S)-Dissolved	MS-B	L1518297-10, -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, -68, -69, -7, -70, -71, -72, -73, -74, -75, -8, -9
Matrix Spike	Arsenic (As)-Total	MS-B	L1518297-17, -18, -19, -21, -22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35
Matrix Spike	Barium (Ba)-Total	MS-B	L1518297-17, -18, -19, -21, -22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35
Matrix Spike	Manganese (Mn)-Total	MS-B	L1518297-17, -18, -19, -21, -22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35
Matrix Spike	Sodium (Na)-Total	MS-B	L1518297-17, -18, -19, -21, -22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35
Matrix Spike	Strontium (Sr)-Total	MS-B	L1518297-17, -18, -19, -21, -22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35
Matrix Spike	Barium (Ba)-Total	MS-B	L1518297-45, -46, -47, -48, -49, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -60, -61, -62
Matrix Spike	Strontium (Sr)-Total	MS-B	L1518297-45, -46, -47, -48, -49, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -60, -61, -62
Matrix Spike	Barium (Ba)-Total	MS-B	L1518297-63, -64, -65, -66, -67, -68, -69, -70, -71, -72, -73, -74, -75, -76
Matrix Spike	Manganese (Mn)-Total	MS-B	L1518297-63, -64, -65, -66, -67, -68, -69, -70, -71, -72, -73, -74, -75, -76
Matrix Spike	Strontium (Sr)-Total	MS-B	L1518297-63, -64, -65, -66, -67, -68, -69, -70, -71, -72, -73, -74, -75, -76
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1518297-10, -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, -68, -69, -7, -70, -71, -72, -73, -74, -75, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1518297-10, -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, -68, -69, -7, -70, -71, -72, -73, -74, -75, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1518297-10, -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, -68, -69, -7, -70, -71, -72, -73, -74, -75, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1518297-10, -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,

Reference Information

	Parameter	Qualifier	Applies to Sample Number(s)
			-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, -68, -69, -7, -70, -71, -72, -73, -74, -75, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1518297-10, -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, -68, -69, -7, -70, -71, -72, -73, -74, -75, -8, -9

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.

Samples of industrial wastes, acid mine drainage, or other solutions that contain appreciable amounts of hydrolyzable metal ions such as aluminum, iron, and manganese may require hot peroxide treatment to ensure oxidation and hydrolysis of reduced forms of polyvalent cations. Acidity results may be highly variable if this procedure is not followed. Results in this report for 'Acidity (as CaCO3)' have not been peroxide treated.

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.

Samples of industrial wastes, acid mine drainage, or other solutions that contain appreciable amounts of hydrolyzable metal ions such as aluminum, iron, and manganese may require hot peroxide treatment to ensure oxidation and hydrolysis of reduced forms of polyvalent cations. Acidity results may be highly variable if this procedure is not followed. Results in this report for 'Acidity (as CaCO3)' have not been peroxide treated.

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.

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

Reference Information

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 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

Reference Information

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	7			

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

L1518297-COFC

COC Number: 1 -

Page 1 of 7

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	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,GR,AN,AB

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
	Travel Blank			Water	R	R	R	R	R	R	R	R	R					3
	Dup 8	12-Sep-14		Water	R	R	R	R	R	R	R	R	R					3
	P03-06-6	15-Sep-14	9:33	Water	R	R	R	R	R	R	R	R	R					3
	Dup 7	13-Sep-14		Water	R	R	R	R	R	R	R	R	R					3
	Dup 5	11-Sep-14		Water	R	R	R	R	R	R	R	R	R					3
	Dup 9	14-Sep-14		Water	R	R	R	R	R	R	R	R	R					3
	Dup 6	11-Sep-14		Water	R	R	R	R	R	R	R	R	R					3
	MW14-02S	15-Sep-14	9:48	Water	R	R	R	R	R	R	R	R	R					3
	MW14-02D	15-Sep-14	11:06	Water	R	R	R	R	R	R	R	R	R					3
	P96-8B	11-Sep-14	17:21	Water	R	R	R	R	R	R	R	R	R					3
	P96-8A	11-Sep-14	16:46	Water	R	R	R	R	R	R	R	R	R					3
	SRK08-P9	11-Sep-14	15:34	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	- EDD must be in EQuIS format common to Faro Mine Remediation Project. Contact client if clarification is required.
Are samples for human drinking water use? ☐ Yes ☑ No	- 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		
2.6					

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: C Jastrebski	Date: Sept 16/14	Time: 08:00	Received by: Jeremy Mayo	Date: Sept 16 2014	Time: 9:20 AM	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NA-FM-0326e v03 Front04 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.

Chain of Custody (COC) / Analytical Request Form

ALS Environmental

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L1518297-COFC

COC Number: 1 -

Report To		Report Format / Distribution		(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 Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX	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
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	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,GR,AN,AB

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-SBR2	11-Sep-14	14:35	Water	R	R	R	R	R	R	R	R	R					3
	SRK08-SBR3	11-Sep-14	13:18	Water	R	R	R	R	R	R	R	R	R					3
	SRK05-SP-1B	11-Sep-14	12:18	Water	R	R	R	R	R	R	R	R	R					3
	MW14-09	11-Sep-14	9:35	Water	R	R	R	R	R	R	R	R	R					3
	MW14-10	11-Sep-14	10:13	Water	R	R	R	R	R	R	R	R	R					3
	SRK05-SP-2	11-Sep-14	8:52	Water	R	R	R	R	R	R	R	R	R					3
	S1B	11-Sep-14	10:30	Water	R	R	R	R	R	R	R	R	R					3
	FB1	11-Sep-14	16:48	Water	R	R	R	R	R	R	R	R	R					3
	P2001-2B	11-Sep-14	14:25	Water	R	R	R	R	R	R	R	R	R					3
	V34	11-Sep-14	9:37	Water	R	R	R	R	R	R	R	R	R					3
	V35	11-Sep-14	10:46	Water	R	R	R	R	R	R	R	R	R					3
	V36	11-Sep-14	15:44	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		
5.6					

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:
				Sept 16 2014	9:21 AM			

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.

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L1518297-COFC

COC Number: 1 -

Page 3 of 7

Report To		Report Format	
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	
		Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Phone:	867-456-4865	Email 1 or Fax	nsandys@hemmera.com, rmartinka@hemmera.com
		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,GR,AN,AB

(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
	P2001-3	11-Sep-14	12:10	Water	R	R	R	R	R	R	R	R	R					3
	SRK05-5C	12-Sep-14	15:49	Water	R	R	R	R	R	R	R	R	R					3
	BH05-9B-R	12-Sep-14	14:39	Water	R	R	R	R	R	R	R	R	R					3
	P96-9A	12-Sep-14	13:56	Water	R	R	R	R	R	R	R	R	R					3
	SRK05-07	12-Sep-14	12:00	Water	R	R	R	R	R	R	R	R	R					3
	P09-VC2	12-Sep-14	9:29	Water	R	R	R	R	R	R	R	R	R					3
	P09-VC1	12-Sep-14	10:40	Water	R	R	R	R	R	R	R	R	R					3
	SRK05-8	12-Sep-14	12:56	Water	R	R	R	R	R	R	R	R	R					3
	BH14B	12-Sep-14	14:59	Water	R	R	R	R	R	R	R	R	R					3
	P96-6	12-Sep-14	18:16	Water	R	R	R	R	R	R	R	R	R					3
	BH13B	12-Sep-14	15:04	Water	R	R	R	R	R	R	R	R	R					3
	BH14A	12-Sep-14	16:00	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		
5.1					

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:
			Jenny McKay	Sept 16 2014	9:21 Am			

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NA-FM-0326a v08 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.

Chain of Custody (COC) / Analytical Request Form

ALS Environmental

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L1518297-COFC

COC Number: 1 -

Report To		Report Format / Distribution		Rush Turnaround Time (TAT) is not available for all tests)
Company:	Hemmera Environchem Inc.	Select Report Format: ☑PDF ☑EXCEL ☑EDD (DIGITAL)	R	☑Regular (ved 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 Select Distribution: ☑EMAIL ☐MAIL ☐FAX	E	☐Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT
Phone:	867-456-4865	Email 1 or Fax nsandys@hemmera.com, rmartinka@hemmera.com	E2	☐Same day or weekend emergency - contact ALS to confirm TAT and surcharge
		Email 2 chris@elr.ca	Specify Date Required for E2,E or P:	

Invoice To	Same as Report To ☑ Yes ☐ No	Invoice Distribution	Analysis Request
	Copy of Invoice with Report ☐ Yes ☑ No	Select Invoice Distribution: ☑EMAIL ☑MAIL ☐FAX	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below
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,GR,AN,AB

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	total metals					Number of Containers
												F/P	P					
	BH5	12-Sep-14	13:20	Water	R	R	R	R	R	R	R	R	R					3
	SRK08-P12A	12-Sep-14	12:18	Water	R	R	R	R	R	R	R	R	R					3
	SRK08-P12B	12-Sep-14	11:45	Water	R	R	R	R	R	R	R	R	R					3
	BH10A	12-Sep-14	10:49	Water	R	R	R	R	R	R	R	R	R					3
	BH10B	12-Sep-14	9:59	Water	R	R	R	R	R	R	R	R	R					3
	P05-04	12-Sep-14	8:56	Water	R	R	R	R	R	R	R	R	R					3
	BH6	12-Sep-14	8:21	Water	R	R	R	R	R	R	R	R	R					3
	MW14-13	13-Sep-14	10:10	Water	R	R	R	R	R	R	R	R	R					3
	Dup10	13-Sep-14	10:10	Water	R	R	R	R	R	R	R	R	R					3
	MW14-16	13-Sep-14	9:33	Water	R	R	R	R	R	R	R	R	R					3
	MW14-12S	13-Sep-14	13:34	Water	R	R	R	R	R	R	R	R	R					3
	MW14-12D	13-Sep-14	11:52	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	- EDD must be in EQuIS format common to Faro Mine Remediation Project. Contact client if clarification is required.
Are samples for human drinking water use? ☐ Yes ☑ No	- 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		
7.3					

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:
				Sept 8 2014	9:22Am			

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Chain of Custody (COC) / Analytical Request Form

ALS Environmental

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L1518297-COFC

COC Number: 1 -

Page 5 of 7

Report To		Report Format / Distr	
Company:	Hemmera Environchem Inc.	Select Report Format:	☑PDF ☑EX
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 Select Distribution:	☑EMAIL ☐MAIL ☐FAX
Phone:	867-456-4865	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	

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,GR,AN,AB

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
	BH8	13-Sep-14	8:30	Water	R	R	R	R	R	R	R	R	R					3
	P2001-2A	13-Sep-14	18:20	Water	R	R	R	R	R	R	R	R	R					3
	SRK05-9	13-Sep-14	17:55	Water	R	R	R	R	R	R	R	R	R					3
	P09-ETA-1	13-Sep-14	16:13	Water	R	R	R	R	R	R	R	R	R					3
	P09-ETA-2	13-Sep-14	15:07	Water	R	R	R	R	R	R	R	R	R					3
	SRK04-3A	13-Sep-14	13:53	Water	R	R	R	R	R	R	R	R	R					3
	SRK05-ETA-BR2	13-Sep-14	13:02	Water	R	R	R	R	R	R	R	R	R					3
	V37	13-Sep-14	8:27	Water	R	R	R	R	R	R	R	R	R					3
	SRK05-ETA-BR1	13-Sep-14	12:13	Water	R	R	R	R	R	R	R	R	R					3
	P09-LCD6	13-Sep-14	10:40	Water	R	R	R	R	R	R	R	R	R					3
	P09-LCD1	13-Sep-14	9:32	Water	R	R	R	R	R	R	R	R	R					3
	MW14-15	14-Sep-14	12:40	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		
2.6					

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:
				Sept 16 2014	9:22 Am			

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

ALS Environmental

www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

L1518297-COFC

COC Number: 1 -

Page 6 of 7

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	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,GR,AN,AB

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
	PW14-01	14-Sep-14	18:00	Water	R	R	R	R	R	R	R	R	R					3
	PW14-07	14-Sep-14	15:08	Water	R	R	R	R	R	R	R	R	R					3
	PW14-06	14-Sep-14	12:21	Water	R	R	R	R	R	R	R	R	R					3
	MW14-03	14-Sep-14	10:17	Water	R	R	R	R	R	R	R	R	R					3
	Dup12	14-Sep-14	10:17	Water	R	R	R	R	R	R	R	R	R					3
	SRK08-P14	14-Sep-14	15:13	Water	R	R	R	R	R	R	R	R	R					3
	SRK08-P15	14-Sep-14	14:00	Water	R	R	R	R	R	R	R	R	R					3
	P09-GSIA	14-Sep-14	0:00	Water	R	R	R	R	R	R	R	R	R					3
	P09-GSIB	14-Sep-14	10:26	Water	R	R	R	R	R	R	R	R	R					3
	P03-03-9	15-Sep-14	13:22	Water	R	R	R	R	R	R	R	R	R					3
	P03-03-4	15-Sep-14	13:50	Water	R	R	R	R	R	R	R	R	R					3
	P03-03-2	15-Sep-14	14:36	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		
2.5					

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:
				Sept 16/14	9:23am			

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Chain of Custody (COC) / Analytical Request Form

ALS Environmental

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Canada Toll Free: 1 800 668 9878

L1518297-COFC

COC Number: 1 -

Page 7 of 7

Report To		Report For		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
		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	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,GR,AN,AB

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
	P03-05-4	15-Sep-14	11:42	Water	R	R	R	R	R	R	R	R	R					3
	P03-06-1	15-Sep-14	10:45	Water	R	R	R	R	R	R	R	R	R					3
	P03-06-2	15-Sep-14	10:05	Water	R	R	R	R	R	R	R	R	R					3
	Travel Blank			Water	R	R	R	R	R	R	R	R	R					3
				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		
2.3					

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:
				SEP 16 2014	9:23AM			

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NA-FM-0326e v09 Front04 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.