



HEMMERA ENVIROCHEM INC.
ATTN: Natasha Sandys
Suite 230 - 2237 2nd Avenue
Whitehorse Yukon Y1A 0K7

Date Received: 12-SEP-14
Report Date: 26-SEP-14 11:16 (MT)
Version: FINAL

Client Phone: --

Certificate of Analysis

Lab Work Order #: L1516957
Project P.O. #: NOT SUBMITTED
Job Reference: 1343-005.02
C of C Numbers: 1, 2, 3, 4
Legal Site Desc:

Brent Mack
Account Manager

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ADDRESS: 8081 Lougheed Hwy, Suite 100, Burnaby, BC V5A 1W9 Canada | Phone: +1 604 253 4188 | Fax: +1 604 253 6700
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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID	L1516957-1 Water 09-SEP-14 14:42 P09-SIS2	L1516957-2 Water 09-SEP-14 15:17 P09-SIS3	L1516957-3 Water 09-SEP-14 18:20 SRK05-SP-4A	L1516957-4 Water 09-SEP-14 17:40 SRK05-SP-4B	L1516957-5 Water 09-SEP-14 16:50 P09-SIS1	
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	11600	11500	1360	7650	9270
	Hardness (as CaCO3) (mg/L)	10300	10200	783	6390	8230
	pH (pH)	6.02	6.77	7.22	6.80	6.61
	Total Suspended Solids (mg/L)	5.6	6.4	7.6	11.8	37.0
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	1310	1270	158	609	631
	Alkalinity, Total (as CaCO3) (mg/L)	141	177	273	176	287
	Chloride (Cl) (mg/L)	<25 ^{DLA}	25	<5.0 ^{DLA}	28	28
	Sulfate (SO4) (mg/L)	12500	12500	591	7490	9250
	Anion Sum (meq/L)	264	265	17.8	160	199
	Cation Sum (meq/L)	244	245	17.8	143	186
	Cation - Anion Balance (%)	-3.9	-3.8 ^{DLA}	0.1	-5.5 ^{DLA}	-3.4
Total Metals	Aluminum (Al)-Total (mg/L)	1.03	<0.30 ^{DLA}	0.056 ^{DLA}	<0.15 ^{DLA}	0.71 ^{DLA}
	Antimony (Sb)-Total (mg/L)	<0.010 ^{DLA}	<0.010 ^{DLA}	<0.00050 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}
	Arsenic (As)-Total (mg/L)	<0.010 ^{DLA}	<0.010 ^{DLA}	0.00159	<0.0050 ^{DLA}	<0.0050 ^{DLA}
	Barium (Ba)-Total (mg/L)	0.0224	0.0218	0.00970	0.0173	0.0362
	Beryllium (Be)-Total (mg/L)	<0.010 ^{DLA}	<0.010 ^{DLA}	0.00088 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}
	Bismuth (Bi)-Total (mg/L)	<0.050 ^{DLA}	<0.050 ^{DLA}	<0.0025 ^{DLA}	<0.025 ^{DLA}	<0.025 ^{DLA}
	Boron (B)-Total (mg/L)	<1.0 ^{DLA}	<1.0 ^{DLA}	<0.050 ^{DLA}	<0.50 ^{DLA}	<0.50 ^{DLA}
	Cadmium (Cd)-Total (mg/L)	0.581	0.649	0.00400	0.0754	0.0725
	Calcium (Ca)-Total (mg/L)	521	501	143	533	494
	Chromium (Cr)-Total (mg/L)	<0.010 ^{DLA}	<0.010 ^{DLA}	<0.00050 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}
	Cobalt (Co)-Total (mg/L)	2.85	2.58	0.0536	0.0107	0.757
	Copper (Cu)-Total (mg/L)	<0.050 ^{DLA}	<0.050 ^{DLA}	<0.0025 ^{DLA}	<0.025 ^{DLA}	<0.025 ^{DLA}
	Iron (Fe)-Total (mg/L)	0.378	0.101	13.4	4.70	20.4
	Lead (Pb)-Total (mg/L)	<0.0050 ^{DLA}	<0.0050 ^{DLA}	0.00173	<0.0025 ^{DLA}	0.0027
	Lithium (Li)-Total (mg/L)	0.218	0.223	0.0831	0.154	0.227
	Magnesium (Mg)-Total (mg/L)	2300	2240	104	1260	1630
	Manganese (Mn)-Total (mg/L)	200	224	5.78	61.5	131
	Mercury (Hg)-Total (mg/L)	<0.000010 ^{DLA}	<0.000010 ^{DLA}	<0.000010 ^{DLA}	<0.000010 ^{DLA}	<0.000010 ^{DLA}
	Molybdenum (Mo)-Total (mg/L)	<0.0050 ^{DLA}	<0.0050 ^{DLA}	<0.00025 ^{DLA}	<0.0025 ^{DLA}	<0.0025 ^{DLA}
	Nickel (Ni)-Total (mg/L)	4.39	4.89	0.141	2.37	1.55
	Phosphorus (P)-Total (mg/L)	<0.25 ^{DLA}	<0.25 ^{DLA}	<0.050	<0.25 ^{DLA}	<0.25 ^{DLA}
	Potassium (K)-Total (mg/L)	18.9	19.8	5.71	11.7	12.3
	Selenium (Se)-Total (mg/L)	<0.010 ^{DLA}	<0.010 ^{DLA}	<0.00050 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}
	Silicon (Si)-Total (mg/L)	14.1	14.9	14.0	12.6	12.5
	Silver (Ag)-Total (mg/L)	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.000050 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}
	Sodium (Na)-Total (mg/L)	70.2	71.4	11.2	38.8	60.2

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1516957-6 Water 09-SEP-14 16:32 P09-SIS4	L1516957-7 Water 09-SEP-14 16:22 P09-SIS5	L1516957-8 Water 09-SEP-14 13:40 SRK05-SP-5	L1516957-9 Water 09-SEP-14 11:20 SRK08-SP-7B	L1516957-10 Water 09-SEP-14 11:54 SRK08-SP-7A
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	6130	5040	10100	271	830
	Hardness (as CaCO3) (mg/L)	5120	3920	8640	131	442
	pH (pH)	7.25	7.34	6.67	7.91	7.34
	Total Suspended Solids (mg/L)	46.0	73.0	23.0	2.8	6.6
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	187	103	1170	15.9	61.9
	Alkalinity, Total (as CaCO3) (mg/L)	434	441	179	85.0	126
	Chloride (Cl) (mg/L)	<10 ^{DLA}	<10 ^{DLA}	26	<0.50	<2.5 ^{DLA}
	Sulfate (SO4) (mg/L)	5240	3990	10700	62.4	366
	Anion Sum (meq/L)	118	91.9	227	3.00	10.1
	Cation Sum (meq/L)	107	84.0	206	3.11	9.99
	Cation - Anion Balance (%)	-4.8	-4.5	-4.9	1.8	-0.7
Total Metals	Aluminum (Al)-Total (mg/L)	0.275	0.526	0.49	0.0450	0.106
	Antimony (Sb)-Total (mg/L)	<0.0010 ^{DLA}	<0.00050 ^{DLA}	<0.010 ^{DLA}	<0.00010	<0.00010
	Arsenic (As)-Total (mg/L)	<0.0010 ^{DLA}	0.00146	<0.010 ^{DLA}	0.00398	0.00499
	Barium (Ba)-Total (mg/L)	0.0149	0.0302	0.0254	0.0629	0.0173
	Beryllium (Be)-Total (mg/L)	<0.0010 ^{DLA}	<0.00050 ^{DLA}	<0.010 ^{DLA}	<0.00010	0.00025
	Bismuth (Bi)-Total (mg/L)	<0.0050 ^{DLA}	<0.0025 ^{DLA}	<0.050 ^{DLA}	<0.00050	<0.00050
	Boron (B)-Total (mg/L)	<0.10 ^{DLA}	<0.050 ^{DLA}	<1.0 ^{DLA}	<0.010	<0.010
	Cadmium (Cd)-Total (mg/L)	0.0161	0.00162	0.400	<0.000010	0.000038
	Calcium (Ca)-Total (mg/L)	472	496	428	14.4	112
	Chromium (Cr)-Total (mg/L)	0.0024	0.00231	<0.010 ^{DLA}	0.00051	0.00059
	Cobalt (Co)-Total (mg/L)	<0.0010 ^{DLA}	0.0337	2.68	0.00105	0.00549
	Copper (Cu)-Total (mg/L)	0.0063	0.0048	<0.050 ^{DLA}	0.00071	<0.00050
	Iron (Fe)-Total (mg/L)	0.592	19.6	1.38	3.70	13.4
	Lead (Pb)-Total (mg/L)	0.00051	0.00192	<0.0050 ^{DLA}	0.000243	0.000269
	Lithium (Li)-Total (mg/L)	0.105	0.0500	0.209	0.0185	0.0398
	Magnesium (Mg)-Total (mg/L)	939	653	1770	23.1	40.8
	Manganese (Mn)-Total (mg/L)	9.41	33.3	184	1.59	1.11
	Mercury (Hg)-Total (mg/L)	<0.000010 ^{DLA}	<0.000010	<0.000010 ^{DLA}	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	<0.00050 ^{DLA}	0.00100	<0.0050 ^{DLA}	0.000366	0.000144
	Nickel (Ni)-Total (mg/L)	0.492	0.152	4.05	0.00808	0.0137
	Phosphorus (P)-Total (mg/L)	<0.15 ^{DLA}	<0.10 ^{DLA}	<0.25 ^{DLA}	<0.050	<0.050
	Potassium (K)-Total (mg/L)	10.2	9.61	16.2	2.00	4.18
	Selenium (Se)-Total (mg/L)	<0.0010 ^{DLA}	<0.00050 ^{DLA}	<0.010 ^{DLA}	0.00011	<0.00010
	Silicon (Si)-Total (mg/L)	11.3	11.9	13.7	8.03	12.2
	Silver (Ag)-Total (mg/L)	<0.00010 ^{DLA}	<0.000050 ^{DLA}	<0.0010 ^{DLA}	0.000022	<0.000010
	Sodium (Na)-Total (mg/L)	33.6	65.2	68.6	2.80	8.05

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ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1516957-11	L1516957-12	L1516957-13	L1516957-14	L1516957-15
	Description	Water	Water	Water	Water	Water
	Sampled Date	09-SEP-14	09-SEP-14	09-SEP-14	09-SEP-14	09-SEP-14
	Sampled Time	11:20	18:16	16:46	16:00	15:28
	Client ID	DUP2	P01-04A	P01-04B	X25-96B	X25-96A
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	269	1120	2500	1650	1690
	Hardness (as CaCO3) (mg/L)	137	555	1710	987	1070
	pH (pH)	7.50	7.49	7.54	7.98	7.65
	Total Suspended Solids (mg/L)	3.6	1.2	19.0	7.0	8.2
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	15.9	48.3	37.5	8.6	24.3
	Alkalinity, Total (as CaCO3) (mg/L)	83.9	756	379	293	299
	Chloride (Cl) (mg/L)	<0.50	7.8	<10 ^{DLA}	<5.0 ^{DLA}	<5.0 ^{DLA}
	Sulfate (SO4) (mg/L)	62.4	27.3	1490	794	798
	Anion Sum (meq/L)	2.98	15.9	38.7	22.4	22.6
	Cation Sum (meq/L)	3.24	14.0	37.4	22.1	23.4
	Cation - Anion Balance (%)	4.3	-6.2	-1.7	-0.6	1.8
Total Metals	Aluminum (Al)-Total (mg/L)	0.0477	0.0039	0.0079	0.0269	0.0064
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00020 ^{DLA}
	Arsenic (As)-Total (mg/L)	0.00413	0.00014	0.00198	0.00123	0.00033
	Barium (Ba)-Total (mg/L)	0.0665	0.441	0.0179	0.0298	0.0679
	Beryllium (Be)-Total (mg/L)	<0.00010	0.00031	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00020 ^{DLA}
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.0010 ^{DLA}
	Boron (B)-Total (mg/L)	<0.010	0.030	<0.020 ^{DLA}	<0.020 ^{DLA}	<0.020 ^{DLA}
	Cadmium (Cd)-Total (mg/L)	<0.000010	0.000014	<0.000020 ^{DLA}	0.000020	0.000136
	Calcium (Ca)-Total (mg/L)	14.8	139	522	318	305
	Chromium (Cr)-Total (mg/L)	0.00052	0.00012	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00020 ^{DLA}
	Cobalt (Co)-Total (mg/L)	0.00107	0.00013	0.00227	<0.00020 ^{DLA}	0.0123 ^{DLA}
	Copper (Cu)-Total (mg/L)	0.00070	<0.00050	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.0010 ^{DLA}
	Iron (Fe)-Total (mg/L)	3.80	0.451	15.3	2.69	5.29
	Lead (Pb)-Total (mg/L)	0.000257	<0.000050	<0.00010 ^{DLA}	0.00035	0.00016
	Lithium (Li)-Total (mg/L)	0.0182	0.186	0.0244	0.0110	0.0056
	Magnesium (Mg)-Total (mg/L)	23.9	49.5	94.6	46.4	68.8
	Manganese (Mn)-Total (mg/L)	1.55	0.262	9.91	0.296	16.8
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	0.000370	<0.000050	0.00048	0.00038	0.00115
	Nickel (Ni)-Total (mg/L)	0.00829	<0.00050	0.0038	<0.0010 ^{DLA}	0.0072
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Total (mg/L)	2.09	3.50	5.97	4.31	5.15
	Selenium (Se)-Total (mg/L)	0.00010	<0.00010	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00020 ^{DLA}
	Silicon (Si)-Total (mg/L)	8.41	8.75	8.21	4.96	8.68
	Silver (Ag)-Total (mg/L)	<0.000010	0.000166	<0.000020 ^{DLA}	<0.000020 ^{DLA}	<0.000020 ^{DLA}
	Sodium (Na)-Total (mg/L)	2.85	66.2	42.0	52.6	20.9

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ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1516957-16 Water 09-SEP-14 14:23 P01-03	L1516957-17 Water 09-SEP-14 18:32 X24-96D	L1516957-18 Water 09-SEP-14 11:12 P01-01A	L1516957-19 Water 09-SEP-14 12:04 P01-01B	L1516957-20 Water 09-SEP-14 12:04 DUP1
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	3640	3210	1790	1420	1410
	Hardness (as CaCO3) (mg/L)	2350	2280	1190	902	883
	pH (pH)	6.53	6.79	7.71	7.82	7.83
	Total Suspended Solids (mg/L)	99.2	212	<1.0	2.4	2.0
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	402	116	24.4	13.6	13.1
	Alkalinity, Total (as CaCO3) (mg/L)	230	384	349	318	318
	Chloride (Cl) (mg/L)	<10 ^{DLA}	<10 ^{DLA}	<5.0 ^{DLA}	<5.0 ^{DLA}	<5.0 ^{DLA}
	Sulfate (SO4) (mg/L)	2770	2190	886	620	617
	Anion Sum (meq/L)	62.3	53.2	25.4	19.3	19.2
	Cation Sum (meq/L)	63.7	51.3	25.1	19.1	18.9
	Cation - Anion Balance (%)	1.1	-1.8	-0.7	-0.4	-0.9
Total Metals	Aluminum (Al)-Total (mg/L)	0.127	0.119	0.0082	<0.0030	<0.0030
	Antimony (Sb)-Total (mg/L)	<0.0010 ^{DLA}	0.0016	<0.00020 ^{DLA}	<0.00010	<0.00010
	Arsenic (As)-Total (mg/L)	<0.0010 ^{DLA}	0.0012	0.00034	0.00250	0.00214
	Barium (Ba)-Total (mg/L)	0.0143	0.0320	0.0500	0.0548	0.0525
	Beryllium (Be)-Total (mg/L)	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.00020 ^{DLA}	<0.00010	<0.00010
	Bismuth (Bi)-Total (mg/L)	<0.0050 ^{DLA}	<0.0050 ^{DLA}	<0.0010 ^{DLA}	<0.00050	<0.00050
	Boron (B)-Total (mg/L)	<0.10 ^{DLA}	<0.10 ^{DLA}	<0.020 ^{DLA}	0.016	0.012
	Cadmium (Cd)-Total (mg/L)	0.00210	0.00771	0.000982	0.000033	0.000031
	Calcium (Ca)-Total (mg/L)	616	678	338	265	257
	Chromium (Cr)-Total (mg/L)	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.00020 ^{DLA}	0.00012	0.00011
	Cobalt (Co)-Total (mg/L)	0.229	0.352	0.00227	0.00019	0.00021
	Copper (Cu)-Total (mg/L)	<0.0050 ^{DLA}	0.0057	<0.0010 ^{DLA}	<0.00050	<0.00050
	Iron (Fe)-Total (mg/L)	217	10.9	0.016	0.715	0.687
	Lead (Pb)-Total (mg/L)	0.00062	0.00374	<0.00010 ^{DLA}	<0.000050	<0.000050
	Lithium (Li)-Total (mg/L)	0.0287	0.0287	0.0148	0.0128	0.0103
	Magnesium (Mg)-Total (mg/L)	195	172	77.0	55.1	52.4
	Manganese (Mn)-Total (mg/L)	87.5	92.7	8.28	0.142	0.143
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	0.00059	0.00086	0.00076	0.000890	0.000847
	Nickel (Ni)-Total (mg/L)	0.0878	0.543	0.0110	0.00059	0.00070
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Total (mg/L)	7.68	7.92	6.65	4.57	4.30
	Selenium (Se)-Total (mg/L)	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.00020 ^{DLA}	<0.00010	<0.00010
	Silicon (Si)-Total (mg/L)	11.6	9.33	7.40	5.96	5.68
	Silver (Ag)-Total (mg/L)	<0.00010 ^{DLA}	<0.00010 ^{DLA}	<0.000020 ^{DLA}	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)	30.5	41.7	16.4	21.7	24.2

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ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1516957-21 Water 09-SEP-14 14:30 FB2	L1516957-22 Water 10-SEP-14 10:23 SRK08-SP-8B	L1516957-23 Water 10-SEP-14 09:52 SRK08-SP-8A	L1516957-24 Water 10-SEP-14 08:42 P96-7	L1516957-25 Water 10-SEP-14 15:06 SRK05-SP-3B
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	<2.0	2560	2640	2960	1150
	Hardness (as CaCO3) (mg/L)	<0.50	1830	1830	2260	683
	pH (pH)	5.46	6.70	6.48	7.72	6.55
	Total Suspended Solids (mg/L)	<1.0	3.8	4.8	1.4	1.4
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	<1.0	130	176	16.8	171
	Alkalinity, Total (as CaCO3) (mg/L)	<2.0	322	381	231	290
	Chloride (Cl) (mg/L)	<0.50	<10	<10	<10	<5.0
	Sulfate (SO4) (mg/L)	<0.50	1650	1630	2090	419
	Anion Sum (meq/L)	<0.10	40.8	41.5	48.2	14.5
	Cation Sum (meq/L)	<0.10	39.7	40.0	46.2	15.1
	Cation - Anion Balance (%)	0.0	-1.4	-1.9	-2.1	2.1
Total Metals	Aluminum (Al)-Total (mg/L)	<0.0030	0.0321	0.0510	0.0132	0.0602
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00020	<0.00020	<0.00020	<0.00010
	Arsenic (As)-Total (mg/L)	<0.00010	0.00456	0.0103	<0.00020	0.00025
	Barium (Ba)-Total (mg/L)	<0.000050	0.0147	0.0130	0.0123	0.0177
	Beryllium (Be)-Total (mg/L)	<0.00010	0.00022	0.00046	<0.00020	0.00054
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.0010	<0.0010	<0.0010	<0.00050
	Boron (B)-Total (mg/L)	<0.010	<0.020	<0.020	<0.020	0.013
	Cadmium (Cd)-Total (mg/L)	<0.000010	0.000056	<0.000020	0.000050	0.000062
	Calcium (Ca)-Total (mg/L)	<0.050	358	425	495	167
	Chromium (Cr)-Total (mg/L)	<0.00010	0.00022	0.00042	0.00061	0.00026
	Cobalt (Co)-Total (mg/L)	<0.00010	0.00873	0.00819	<0.00020	0.00656
	Copper (Cu)-Total (mg/L)	<0.00050	<0.0010	<0.0010	<0.0010	<0.00050
	Iron (Fe)-Total (mg/L)	<0.010	31.7	37.1	0.034	16.3
	Lead (Pb)-Total (mg/L)	<0.000050	0.00010	0.00016	<0.00010	0.000394
	Lithium (Li)-Total (mg/L)	<0.00050	0.0755	0.115	0.0236	0.0564
	Magnesium (Mg)-Total (mg/L)	<0.10	225	198	243	62.9
	Manganese (Mn)-Total (mg/L)	<0.000050	6.68	3.05	0.00123	1.46
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	<0.000050	0.00024	0.00016	0.00088	0.000108
	Nickel (Ni)-Total (mg/L)	<0.00050	0.0189	0.0250	<0.0010	0.0178
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Total (mg/L)	<0.10	5.64	6.45	5.66	5.13
	Selenium (Se)-Total (mg/L)	<0.00010	<0.00020	<0.00020	0.00037	<0.00010
	Silicon (Si)-Total (mg/L)	<0.050	13.6	15.1	6.19	12.5
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000020	<0.000020	<0.000020	<0.000010
	Sodium (Na)-Total (mg/L)	<0.050	22.2	27.8	22.1	9.29

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1516957-26 Water 10-SEP-14 15:35 SRK05-SP-3A	L1516957-27 Water 10-SEP-14 14:30 S1A	L1516957-28 Water 10-SEP-14 13:21 SRK08-SBR4	L1516957-29 Water 10-SEP-14 12:27 S2A	L1516957-30 Water 10-SEP-14 11:28 S2B
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	1540	3010	8790	2090	9520
	Hardness (as CaCO3) (mg/L)	959	2140	7480	1360	7830
	pH (pH)	6.53	6.47	6.59	7.02	6.54
	Total Suspended Solids (mg/L)	2.4	170	5.4	24.2	22.4
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	170	236	843	157	1010
	Alkalinity, Total (as CaCO3) (mg/L)	283	241	148	327	184
	Chloride (Cl) (mg/L)	<5.0 ^{DLA}	<10 ^{DLA}	<25 ^{DLA}	<10 ^{DLA}	<25 ^{DLA}
	Sulfate (SO4) (mg/L)	717	2120	9000	1180	9980
	Anion Sum (meq/L)	20.6	49.0	190	31.1	211
	Cation Sum (meq/L)	21.5	47.8	174	29.7	184
	Cation - Anion Balance (%)	2.1	-1.2	-4.5 ^{DLA}	-2.3	-7.0
Total Metals	Aluminum (Al)-Total (mg/L)	0.0633	2.22 ^{DLA}	<0.15 ^{DLA}	0.937 ^{DLA}	0.44 ^{DLA}
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.0010 ^{DLA}	<0.0050 ^{DLA}	<0.00020 ^{DLA}	<0.010 ^{DLA}
	Arsenic (As)-Total (mg/L)	0.00274	0.0021	<0.0050 ^{DLA}	0.00185	<0.010 ^{DLA}
	Barium (Ba)-Total (mg/L)	0.0167	0.0482	0.0151	0.0291	0.0357
	Beryllium (Be)-Total (mg/L)	0.00137	<0.0010 ^{DLA}	<0.0050 ^{DLA}	<0.00020 ^{DLA}	<0.010 ^{DLA}
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.0050 ^{DLA}	<0.025 ^{DLA}	<0.0010 ^{DLA}	<0.050 ^{DLA}
	Boron (B)-Total (mg/L)	0.017	<0.10 ^{DLA}	<0.50 ^{DLA}	<0.020 ^{DLA}	<1.0 ^{DLA}
	Cadmium (Cd)-Total (mg/L)	0.000061	0.00569	0.146	0.00112	0.123
	Calcium (Ca)-Total (mg/L)	235	328	449	300	529
	Chromium (Cr)-Total (mg/L)	0.00033	0.0055	<0.0050 ^{DLA}	0.00339	<0.010 ^{DLA}
	Cobalt (Co)-Total (mg/L)	0.00604	0.158	1.93	0.0293	1.72
	Copper (Cu)-Total (mg/L)	<0.00050	0.0055	<0.025 ^{DLA}	0.0037	<0.050 ^{DLA}
	Iron (Fe)-Total (mg/L)	31.2	28.1	2.07	25.1	11.5
	Lead (Pb)-Total (mg/L)	0.000276	0.00324	<0.0025 ^{DLA}	0.0376	<0.0050 ^{DLA}
	Lithium (Li)-Total (mg/L)	0.0681	0.0762	0.230	0.0544	0.124
	Magnesium (Mg)-Total (mg/L)	92.0	288	1570	141	1550
	Manganese (Mn)-Total (mg/L)	1.51	21.0	120	5.45	145
	Mercury (Hg)-Total (mg/L)	<0.000010	0.000038	<0.000010 ^{DLA}	0.000033	<0.000010 ^{DLA}
	Molybdenum (Mo)-Total (mg/L)	0.000160	<0.00050 ^{DLA}	<0.0025 ^{DLA}	0.00013	<0.0050 ^{DLA}
	Nickel (Ni)-Total (mg/L)	0.0191	0.279	2.79	0.0588	2.73
	Phosphorus (P)-Total (mg/L)	<0.050	0.091	<0.25 ^{DLA}	<0.050	<0.25 ^{DLA}
	Potassium (K)-Total (mg/L)	5.42	7.65	16.4	6.15	13.9
	Selenium (Se)-Total (mg/L)	<0.00010	<0.0010 ^{DLA}	<0.0050 ^{DLA}	<0.00020 ^{DLA}	<0.010 ^{DLA}
	Silicon (Si)-Total (mg/L)	13.1	17.8	12.7	15.0	11.8
	Silver (Ag)-Total (mg/L)	<0.000010	<0.00010 ^{DLA}	<0.00050 ^{DLA}	0.000070	<0.0010 ^{DLA}
	Sodium (Na)-Total (mg/L)	10.2	15.2	71.0	13.4	49.7

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1516957-31	L1516957-32	L1516957-33	L1516957-34	L1516957-35
		Description	Water	Water	Water	Water	Water
		Sampled Date	10-SEP-14	10-SEP-14	10-SEP-14	10-SEP-14	10-SEP-14
		Sampled Time	17:40	17:00	16:22	08:42	17:17
		Client ID	MW14-11	MW14-08	SRK05-SP-1A	DUP4	SRK08-11A
Grouping	Analyte						
WATER							
Physical Tests	Conductivity (uS/cm)		669	485	2270	2980	1240
	Hardness (as CaCO3) (mg/L)		400	267	1440	1930	768
	pH (pH)		7.87	7.81	6.59	7.70	7.77
	Total Suspended Solids (mg/L)		27.2	460	2.2	1.4	3.0
Anions and Nutrients	Acidity (as CaCO3) (mg/L)		23.3	21.5	339	18.8	11.1
	Alkalinity, Total (as CaCO3) (mg/L)		385	256	241	231	179
	Chloride (Cl) (mg/L)		0.69	<0.50	<10 ^{DLA}	<10 ^{DLA}	<5.0 ^{DLA}
	Sulfate (SO4) (mg/L)		15.2	23.6	1380	2050	606
	Anion Sum (meq/L)		8.03	5.62	33.5	47.3	16.2
	Cation Sum (meq/L)		8.63	6.47	34.4	39.6	15.8
	Cation - Anion Balance (%)		3.6	7.0	1.3	-8.9	-1.3
Total Metals	Aluminum (Al)-Total (mg/L)		0.277	7.05	0.112	0.0142	0.118
	Antimony (Sb)-Total (mg/L)		0.00011	0.00033	<0.00020 ^{DLA}	<0.00020 ^{DLA}	0.00011
	Arsenic (As)-Total (mg/L)		0.00679	0.00851	0.00510	<0.00020 ^{DLA}	0.00019
	Barium (Ba)-Total (mg/L)		0.137	0.364	0.0134	0.0112	0.130
	Beryllium (Be)-Total (mg/L)		<0.00010	0.00037	0.00261	<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)		0.023	<0.010	<0.020 ^{DLA}	<0.020 ^{DLA}	<0.010
	Cadmium (Cd)-Total (mg/L)		0.000015	0.000309	0.000053	0.000050	0.000046
	Calcium (Ca)-Total (mg/L)		75.9	88.3	339	481	216
	Chromium (Cr)-Total (mg/L)		0.00097	0.0141	0.00034	0.00056	0.00039
	Cobalt (Co)-Total (mg/L)		0.00248	0.00721	0.00787	<0.00020 ^{DLA}	0.00010
	Copper (Cu)-Total (mg/L)		0.00138	0.0117	<0.0010 ^{DLA}	<0.0010 ^{DLA}	0.00161
	Iron (Fe)-Total (mg/L)		6.91	22.3	83.2	0.037	0.147
	Lead (Pb)-Total (mg/L)		0.000546	0.0326	0.00017	0.00011	0.00208
	Lithium (Li)-Total (mg/L)		0.0113	0.0177	0.0953	0.0284	0.0155
	Magnesium (Mg)-Total (mg/L)		48.4	15.4	143	214	50.2
	Manganese (Mn)-Total (mg/L)		0.922	2.74	2.76	0.00148	0.00543
	Mercury (Hg)-Total (mg/L)		<0.000010	0.000023	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)		0.00257	0.000543	0.00015	0.00090	0.000189
	Nickel (Ni)-Total (mg/L)		0.00360	0.0149	0.0302	<0.0010 ^{DLA}	0.00279
	Phosphorus (P)-Total (mg/L)		0.071	0.481	<0.050	<0.050	<0.050
	Potassium (K)-Total (mg/L)		3.10	2.69	6.12	5.06	3.72
	Selenium (Se)-Total (mg/L)		0.00017	0.00034	<0.00020 ^{DLA}	0.00043	0.00018
	Silicon (Si)-Total (mg/L)		7.64	18.5	14.8	5.74	6.81
	Silver (Ag)-Total (mg/L)		<0.000010	0.000138	<0.000020 ^{DLA}	<0.000020 ^{DLA}	<0.000010
Sodium (Na)-Total (mg/L)		4.45	10.9	18.1	19.5	7.95	

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID	L1516957-36 Water 10-SEP-14 16:48 SRK08-11B	L1516957-37 Water 10-SEP-14 15:59 SRK08-10A	L1516957-38 Water 10-SEP-14 14:53 P05-01-03	L1516957-39 Water 10-SEP-14 14:22 P05-01-05	L1516957-40 Water 10-SEP-14 13:02 P03-09-9	
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	1810	3710	3360	3050	1990
	Hardness (as CaCO3) (mg/L)	1230	2300	2330	2190	1310
	pH (pH)	7.47	7.15	7.30	7.03	7.68
	Total Suspended Solids (mg/L)	3.0	295	57.6	12.8	271
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	23.8	116	70.1	115	30.5
	Alkalinity, Total (as CaCO3) (mg/L)	160	944	425	394	350
	Chloride (Cl) (mg/L)	<5.0 ^{DLA}	164	<10 ^{DLA}	<10 ^{DLA}	<5.0 ^{DLA}
	Sulfate (SO4) (mg/L)	1080	1860	2250	1980	1040
	Anion Sum (meq/L)	25.6	62.3	55.4	49.2	28.6
	Cation Sum (meq/L)	25.3	53.1	52.2	48.7	28.2
	Cation - Anion Balance (%)	-0.5	-8.0	-3.0	-0.5	-0.8
Total Metals	Aluminum (Al)-Total (mg/L)	0.0566	8.95	0.693	0.022	4.69
	Antimony (Sb)-Total (mg/L)	<0.00020 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	0.00069
	Arsenic (As)-Total (mg/L)	<0.00020 ^{DLA}	0.00270	0.00063	0.00658	0.00197
	Barium (Ba)-Total (mg/L)	0.0681	0.0737	0.0345	0.0209	0.118
	Beryllium (Be)-Total (mg/L)	<0.00020 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	0.00021
	Bismuth (Bi)-Total (mg/L)	<0.0010 ^{DLA}	<0.0025 ^{DLA}	<0.0025 ^{DLA}	<0.0025 ^{DLA}	<0.0010 ^{DLA}
	Boron (B)-Total (mg/L)	<0.020 ^{DLA}	<0.050 ^{DLA}	<0.050 ^{DLA}	<0.050 ^{DLA}	<0.020 ^{DLA}
	Cadmium (Cd)-Total (mg/L)	0.00238	0.000940	<0.000050 ^{DLA}	0.000770	0.0289
	Calcium (Ca)-Total (mg/L)	302	762	697	624	364
	Chromium (Cr)-Total (mg/L)	<0.00020 ^{DLA}	0.0123	0.00242	<0.00050 ^{DLA}	0.0110
	Cobalt (Co)-Total (mg/L)	0.00113	0.00370	0.00083	0.0233	0.00922
	Copper (Cu)-Total (mg/L)	0.0019	0.0077	0.0036	0.0027	0.0313
	Iron (Fe)-Total (mg/L)	0.126	7.25	34.9	30.5	6.72
	Lead (Pb)-Total (mg/L)	0.00045	0.0145	0.00216	0.00036	0.0101
	Lithium (Li)-Total (mg/L)	0.0192	0.0233	0.0323	0.0310	0.0211
	Magnesium (Mg)-Total (mg/L)	104	106	151	138	77.8
	Manganese (Mn)-Total (mg/L)	1.23	0.146	46.8	46.8	16.8
	Mercury (Hg)-Total (mg/L)	<0.000010	0.000020	<0.000010	<0.000010	0.000020
	Molybdenum (Mo)-Total (mg/L)	0.00019	0.00085	0.00095	0.00083	0.00139
	Nickel (Ni)-Total (mg/L)	0.0393	0.0250	<0.0025 ^{DLA}	0.0213	0.0421
	Phosphorus (P)-Total (mg/L)	<0.050	0.085	<0.050	<0.050	0.303
	Potassium (K)-Total (mg/L)	4.72	15.8	8.17	7.97	5.84
	Selenium (Se)-Total (mg/L)	<0.00020 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	0.00035
	Silicon (Si)-Total (mg/L)	8.15	22.4	13.0	11.0	16.6
	Silver (Ag)-Total (mg/L)	<0.000020 ^{DLA}	0.000067	<0.000050 ^{DLA}	<0.000050 ^{DLA}	0.000136
	Sodium (Na)-Total (mg/L)	14.9	176	39.7	38.2	29.6

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1516957-41 Water 10-SEP-14 12:43 P03-09-6	L1516957-42 Water 10-SEP-14 10:50 P01-11	L1516957-43 Water 10-SEP-14 10:50 DUP3	L1516957-44 Water 10-SEP-14 09:58 P09-C2	L1516957-45 Water 10-SEP-14 09:07 P09-C3
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	1830	3350	3360	2550	1360
	Hardness (as CaCO3) (mg/L)	1190	2110	2480	986	734
	pH (pH)	7.76	6.71	6.96	7.00	7.42
	Total Suspended Solids (mg/L)	32.4	77.3	79.3	53.4	6.0
Anions and Nutrients	Acidity (as CaCO3) (mg/L)	24.1	137	139	211	52.8
	Alkalinity, Total (as CaCO3) (mg/L)	356	445	439	1740	706
	Chloride (Cl) (mg/L)	<5.0 ^{DLA}	<10 ^{DLA}	<10 ^{DLA}	26	5.3
	Sulfate (SO4) (mg/L)	903	2200	2190	<10 ^{DLA}	245
	Anion Sum (meq/L)	25.9	54.7	54.4	35.5	19.4
	Cation Sum (meq/L)	25.7	49.7	57.6	33.7	17.5
	Cation - Anion Balance (%)	-0.3	-4.8	2.9	-2.6	-5.1
Total Metals	Aluminum (Al)-Total (mg/L)	0.628	0.659	0.695	0.860	0.0512
	Antimony (Sb)-Total (mg/L)	0.00024	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00020 ^{DLA}	<0.00010
	Arsenic (As)-Total (mg/L)	0.00087	0.0456	0.0467	0.00104	0.00108
	Barium (Ba)-Total (mg/L)	0.0461	0.0392	0.0409	0.669	0.102
	Beryllium (Be)-Total (mg/L)	<0.00020 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	0.00247	0.00017
	Bismuth (Bi)-Total (mg/L)	<0.0010 ^{DLA}	<0.0025 ^{DLA}	<0.0025 ^{DLA}	<0.0010 ^{DLA}	<0.00050
	Boron (B)-Total (mg/L)	<0.020 ^{DLA}	<0.050 ^{DLA}	<0.050 ^{DLA}	0.089	0.025
	Cadmium (Cd)-Total (mg/L)	0.0110	<0.000050 ^{DLA}	<0.000050 ^{DLA}	<0.000020 ^{DLA}	<0.000010
	Calcium (Ca)-Total (mg/L)	315	637	676	204	170
	Chromium (Cr)-Total (mg/L)	0.00216	0.00210	0.00189	0.00177	0.00029
	Cobalt (Co)-Total (mg/L)	0.00231	0.0138	0.0141	0.00034	0.00012
	Copper (Cu)-Total (mg/L)	0.0081	<0.0025 ^{DLA}	0.0028	<0.0010 ^{DLA}	<0.00050
	Iron (Fe)-Total (mg/L)	1.38	75.5	79.3	3.98	2.59
	Lead (Pb)-Total (mg/L)	0.00165	0.00388	0.00410	0.00079	0.000127
	Lithium (Li)-Total (mg/L)	0.0190	0.0218	0.0244	0.788	0.0969
	Magnesium (Mg)-Total (mg/L)	69.4	140	154	105	66.6
	Manganese (Mn)-Total (mg/L)	12.1	43.9	44.6	0.122	0.379
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	0.00130	0.00095	0.00094	0.00018	0.000206
	Nickel (Ni)-Total (mg/L)	0.0216	0.0300	0.0307	0.0013	0.00066
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Total (mg/L)	4.60	7.63	8.50	11.4	3.66
	Selenium (Se)-Total (mg/L)	<0.00020 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00020 ^{DLA}	<0.00010
	Silicon (Si)-Total (mg/L)	8.47	12.7	13.7	11.2	8.28
	Silver (Ag)-Total (mg/L)	0.000042	<0.000050 ^{DLA}	<0.000050 ^{DLA}	0.000393	0.000088
	Sodium (Na)-Total (mg/L)	28.4	39.3	40.5	301	62.2

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID	L1516957-1 Water 09-SEP-14 14:42 P09-SIS2	L1516957-2 Water 09-SEP-14 15:17 P09-SIS3	L1516957-3 Water 09-SEP-14 18:20 SRK05-SP-4A	L1516957-4 Water 09-SEP-14 17:40 SRK05-SP-4B	L1516957-5 Water 09-SEP-14 16:50 P09-SIS1	
Grouping	Analyte					
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	2.49	2.72	0.597	2.60	2.60
	Sulfur (S)-Total (mg/L)	4020	3910	194	2250	2730
	Thallium (Tl)-Total (mg/L)	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.000050 ^{DLA}	<0.000050 ^{DLA}	<0.000050 ^{DLA}
	Tin (Sn)-Total (mg/L)	<0.010 ^{DLA}	<0.010 ^{DLA}	<0.00050 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}
	Titanium (Ti)-Total (mg/L)	<1.0 ^{DLA}	<1.0 ^{DLA}	<0.050 ^{DLA}	<0.50 ^{DLA}	<0.50 ^{DLA}
	Uranium (U)-Total (mg/L)	0.0017	0.0019	0.00182	0.00352	0.00290
	Vanadium (V)-Total (mg/L)	<0.10 ^{DLA}	<0.10 ^{DLA}	<0.0050 ^{DLA}	<0.050 ^{DLA}	<0.050 ^{DLA}
	Zinc (Zn)-Total (mg/L)	909	1010	21.5	378	391
	Zirconium (Zr)-Total (mg/L)	<0.080 ^{DLA}	<0.080 ^{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)	0.84	0.14	0.0232	<0.050 ^{DLA}	<0.050 ^{DLA}
	Antimony (Sb)-Dissolved (mg/L)	<0.010 ^{DLA}	<0.010 ^{DLA}	<0.00050 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}
	Arsenic (As)-Dissolved (mg/L)	<0.010 ^{DLA}	<0.010 ^{DLA}	<0.00050 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}
	Barium (Ba)-Dissolved (mg/L)	0.0231	0.0214	0.00995	0.0161	0.0306
	Beryllium (Be)-Dissolved (mg/L)	<0.010 ^{DLA}	<0.010 ^{DLA}	0.00077	<0.0050 ^{DLA}	<0.0050 ^{DLA}
	Bismuth (Bi)-Dissolved (mg/L)	<0.050 ^{DLA}	<0.050 ^{DLA}	<0.0025 ^{DLA}	<0.025 ^{DLA}	<0.025 ^{DLA}
	Boron (B)-Dissolved (mg/L)	<1.0 ^{DLA}	<1.0 ^{DLA}	<0.050 ^{DLA}	<0.50 ^{DLA}	<0.50 ^{DLA}
	Cadmium (Cd)-Dissolved (mg/L)	0.568	0.636	0.00412	0.0740	0.0536
	Calcium (Ca)-Dissolved (mg/L)	497	494	137	523	510
	Chromium (Cr)-Dissolved (mg/L)	<0.010 ^{DLA}	<0.010 ^{DLA}	<0.00050 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}
	Cobalt (Co)-Dissolved (mg/L)	2.79	2.54	0.0548	0.0185	0.793
	Copper (Cu)-Dissolved (mg/L)	0.024	0.031	<0.0010 ^{DLA}	0.011	<0.010 ^{DLA}
	Iron (Fe)-Dissolved (mg/L)	0.256	<0.050 ^{DLA}	12.2	3.36	19.3
	Lead (Pb)-Dissolved (mg/L)	<0.0050 ^{DLA}	<0.0050 ^{DLA}	0.00026	<0.0025 ^{DLA}	<0.0025 ^{DLA}
	Lithium (Li)-Dissolved (mg/L)	0.212	0.224	0.0813	0.151	0.236
	Magnesium (Mg)-Dissolved (mg/L)	2210	2170	107	1230	1690
	Manganese (Mn)-Dissolved (mg/L)	197	223	5.87	62.0	137
	Mercury (Hg)-Dissolved (mg/L)	<0.000010 ^{DLA}	<0.000010 ^{DLA}	<0.000010 ^{DLA}	<0.000010 ^{DLA}	<0.000010 ^{DLA}
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0050	<0.0050	<0.00025	<0.0025	<0.0025
	Nickel (Ni)-Dissolved (mg/L)	4.29	4.86	0.143	2.34	1.62
	Phosphorus (P)-Dissolved (mg/L)	<0.25 ^{DLA}	<0.25 ^{DLA}	<0.050	<0.25 ^{DLA}	<0.25 ^{DLA}
	Potassium (K)-Dissolved (mg/L)	18.1	19.5	5.39	11.6	12.5
	Selenium (Se)-Dissolved (mg/L)	<0.010 ^{DLA}	<0.010 ^{DLA}	<0.00050 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}
	Silicon (Si)-Dissolved (mg/L)	13.5	14.5	13.2	12.3	11.6
	Silver (Ag)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.000050 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}
	Sodium (Na)-Dissolved (mg/L)	69.1	71.2	11.1	38.7	62.7

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID	L1516957-6 Water 09-SEP-14 16:32 P09-SIS4	L1516957-7 Water 09-SEP-14 16:22 P09-SIS5	L1516957-8 Water 09-SEP-14 13:40 SRK05-SP-5	L1516957-9 Water 09-SEP-14 11:20 SRK08-SP-7B	L1516957-10 Water 09-SEP-14 11:54 SRK08-SP-7A	
Grouping	Analyte					
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	2.33	1.90	2.25	0.125	0.438
	Sulfur (S)-Total (mg/L)	1530	1200	3130	20.7	118
	Thallium (Tl)-Total (mg/L)	<0.00010 ^{DLA}	0.000051 ^{DLA}	<0.0010 ^{DLA}	<0.000010	<0.000010
	Tin (Sn)-Total (mg/L)	<0.0010 ^{DLA}	<0.00050 ^{DLA}	<0.010 ^{DLA}	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)	<0.10 ^{DLA}	<0.050 ^{DLA}	<1.0 ^{DLA}	<0.010	<0.010
	Uranium (U)-Total (mg/L)	0.0167	0.0121	0.0025	0.000170	0.000356
	Vanadium (V)-Total (mg/L)	<0.010 ^{DLA}	<0.0050 ^{DLA}	<0.10 ^{DLA}	<0.0010	<0.0010
	Zinc (Zn)-Total (mg/L)	77.6	15.8	854	2.06	0.423
	Zirconium (Zr)-Total (mg/L)	<0.0080 ^{DLA}	<0.0040 ^{DLA}	<0.080 ^{DLA}	<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)	<0.010 ^{DLA}	0.0119 ^{DLA}	<0.10 ^{DLA}	0.0197	0.0054
	Antimony (Sb)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.00050 ^{DLA}	<0.010 ^{DLA}	<0.00010	<0.00010
	Arsenic (As)-Dissolved (mg/L)	<0.0010 ^{DLA}	0.00086 ^{DLA}	<0.010 ^{DLA}	0.00307	0.00420
	Barium (Ba)-Dissolved (mg/L)	0.0133	0.0206	0.0174	0.0638	0.0167
	Beryllium (Be)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.00050 ^{DLA}	<0.010 ^{DLA}	<0.00010	0.00024
	Bismuth (Bi)-Dissolved (mg/L)	<0.0050 ^{DLA}	<0.0025 ^{DLA}	<0.050 ^{DLA}	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)	<0.10 ^{DLA}	<0.050 ^{DLA}	<1.0 ^{DLA}	<0.010	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	0.0171	0.00128	0.354	<0.000010	0.000026
	Calcium (Ca)-Dissolved (mg/L)	472	482	450	14.6	108
	Chromium (Cr)-Dissolved (mg/L)	0.0016 ^{DLA}	<0.00050 ^{DLA}	<0.010 ^{DLA}	0.00034	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	<0.0010 ^{DLA}	0.0336	2.47	0.00105	0.00536
	Copper (Cu)-Dissolved (mg/L)	0.0054 ^{DLA}	0.0013	<0.020 ^{DLA}	0.00043	<0.00020
	Iron (Fe)-Dissolved (mg/L)	<0.030 ^{DLA}	15.1 ^{DLA}	0.464 ^{DLA}	3.46	12.3
	Lead (Pb)-Dissolved (mg/L)	<0.00050 ^{DLA}	<0.00025 ^{DLA}	<0.0050 ^{DLA}	0.000057	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.107	0.0478	0.191	0.0183	0.0393
	Magnesium (Mg)-Dissolved (mg/L)	956	660	1830	23.1	41.6
	Manganese (Mn)-Dissolved (mg/L)	10.3	34.6	169	1.55	1.12
	Mercury (Hg)-Dissolved (mg/L)	<0.000010 ^{DLA}	<0.000010	<0.000010 ^{DLA}	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	<0.00050 ^{DLA}	0.00088	<0.0050 ^{DLA}	0.000318	0.000109
	Nickel (Ni)-Dissolved (mg/L)	0.518 ^{DLA}	0.156 ^{DLA}	3.71 ^{DLA}	0.00827	0.0132
	Phosphorus (P)-Dissolved (mg/L)	<0.15 ^{DLA}	<0.10 ^{DLA}	<0.25 ^{DLA}	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	10.0	9.32	16.7	1.98	3.79
	Selenium (Se)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.00050 ^{DLA}	<0.010 ^{DLA}	<0.00010	<0.00010
	Silicon (Si)-Dissolved (mg/L)	10.7	10.9	13.7	8.09	11.4
	Silver (Ag)-Dissolved (mg/L)	<0.00010 ^{DLA}	<0.000050 ^{DLA}	<0.0010 ^{DLA}	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	35.9	67.1	62.5	2.78	8.07

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1516957-11	L1516957-12	L1516957-13	L1516957-14	L1516957-15
		Description	Water	Water	Water	Water	Water
		Sampled Date	09-SEP-14	09-SEP-14	09-SEP-14	09-SEP-14	09-SEP-14
		Sampled Time	11:20	18:16	16:46	16:00	15:28
		Client ID	DUP2	P01-04A	P01-04B	X25-96B	X25-96A
Grouping	Analyte						
WATER							
Total Metals	Strontium (Sr)-Total (mg/L)		0.120	1.91	1.36	0.637	0.806
	Sulfur (S)-Total (mg/L)		20.6	10.2	460	250	263
	Thallium (Tl)-Total (mg/L)		<0.000010	<0.000010	<0.000020 ^{DLA}	<0.000020 ^{DLA}	<0.000020 ^{DLA}
	Tin (Sn)-Total (mg/L)		<0.00010	<0.00010	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00020 ^{DLA}
	Titanium (Ti)-Total (mg/L)		<0.010	<0.010	<0.020 ^{DLA}	<0.020 ^{DLA}	<0.020 ^{DLA}
	Uranium (U)-Total (mg/L)		0.000174	0.000297	0.00704	0.00677	0.0120
	Vanadium (V)-Total (mg/L)		<0.0010	0.0010	<0.0020 ^{DLA}	<0.0020 ^{DLA}	<0.0020 ^{DLA}
	Zinc (Zn)-Total (mg/L)		2.11	<0.0030	<0.0060 ^{DLA}	<0.0060 ^{DLA}	<0.0060 ^{DLA}
	Zirconium (Zr)-Total (mg/L)		<0.00080	0.0692	<0.0016 ^{DLA}	<0.0016 ^{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)		0.0192	0.0020	<0.0020 ^{DLA}	<0.0020 ^{DLA}	0.0020 ^{DLA}
	Antimony (Sb)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00020 ^{DLA}
	Arsenic (As)-Dissolved (mg/L)		0.00307	<0.00010	0.00197	0.00120	0.00029
	Barium (Ba)-Dissolved (mg/L)		0.0642	0.435	0.0183	0.0273	0.0649
	Beryllium (Be)-Dissolved (mg/L)		<0.00010	0.00027	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00020 ^{DLA}
	Bismuth (Bi)-Dissolved (mg/L)		<0.00050	<0.00050	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.0010 ^{DLA}
	Boron (B)-Dissolved (mg/L)		<0.010	0.021	<0.020 ^{DLA}	<0.020 ^{DLA}	<0.020 ^{DLA}
	Cadmium (Cd)-Dissolved (mg/L)		<0.000010	0.000014	<0.000020 ^{DLA}	<0.000020 ^{DLA}	0.000133
	Calcium (Ca)-Dissolved (mg/L)		15.1	141	536	319	318
	Chromium (Cr)-Dissolved (mg/L)		0.00034	<0.00010	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00020 ^{DLA}
	Cobalt (Co)-Dissolved (mg/L)		0.00102	0.00013	0.00222	<0.00020 ^{DLA}	0.0119
	Copper (Cu)-Dissolved (mg/L)		0.00042	<0.00020	<0.00040 ^{DLA}	<0.00040 ^{DLA}	<0.00040 ^{DLA}
	Iron (Fe)-Dissolved (mg/L)		3.61	0.449	15.7	2.64	5.47
	Lead (Pb)-Dissolved (mg/L)		0.000050	<0.000050	<0.00010 ^{DLA}	<0.00010 ^{DLA}	<0.00010 ^{DLA}
	Lithium (Li)-Dissolved (mg/L)		0.0182	0.168	0.0222	0.0100	0.0053
	Magnesium (Mg)-Dissolved (mg/L)		24.3	49.2	91.6	45.9	68.3
	Manganese (Mn)-Dissolved (mg/L)		1.59	0.255	9.62	0.278	16.6
	Mercury (Hg)-Dissolved (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)		0.000317	<0.000050	0.00045	0.00033	0.00116
	Nickel (Ni)-Dissolved (mg/L)		0.00806	<0.00050	0.0035	<0.0010 ^{DLA}	0.0071
	Phosphorus (P)-Dissolved (mg/L)		<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)		2.13	3.47	6.05	4.30	5.39
	Selenium (Se)-Dissolved (mg/L)		<0.00010	0.00044 ^{DTC}	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00020 ^{DLA}
	Silicon (Si)-Dissolved (mg/L)		8.46	8.60	8.27	4.77	8.81
	Silver (Ag)-Dissolved (mg/L)		<0.000010	0.000136	<0.000020 ^{DLA}	<0.000020 ^{DLA}	<0.000020 ^{DLA}
	Sodium (Na)-Dissolved (mg/L)		2.81	64.9	40.6	49.5	20.9

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID	L1516957-16 Water 09-SEP-14 14:23 P01-03	L1516957-17 Water 09-SEP-14 18:32 X24-96D	L1516957-18 Water 09-SEP-14 11:12 P01-01A	L1516957-19 Water 09-SEP-14 12:04 P01-01B	L1516957-20 Water 09-SEP-14 12:04 DUP1	
Grouping	Analyte					
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	2.27	2.09	1.04	0.926	0.906
	Sulfur (S)-Total (mg/L)	823	747	284	200	191
	Thallium (Tl)-Total (mg/L)	<0.00010 ^{DLA}	0.00024 ^{DLA}	<0.000020 ^{DLA}	<0.000010	<0.000010
	Tin (Sn)-Total (mg/L)	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.00020 ^{DLA}	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)	<0.10 ^{DLA}	<0.10 ^{DLA}	<0.020 ^{DLA}	<0.010	<0.010
	Uranium (U)-Total (mg/L)	0.00430	0.00334	0.00855	0.0103	0.0102
	Vanadium (V)-Total (mg/L)	<0.010 ^{DLA}	<0.010 ^{DLA}	<0.0020 ^{DLA}	<0.0010	<0.0010
	Zinc (Zn)-Total (mg/L)	0.332	0.251	<0.0060 ^{DLA}	<0.0030	<0.0030
	Zirconium (Zr)-Total (mg/L)	<0.0080 ^{DLA}	<0.0080 ^{DLA}	<0.0016 ^{DLA}	0.00110	0.00111
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)	<0.010 ^{DLA}	0.012 ^{DLA}	<0.0020 ^{DLA}	0.0012	0.0013
	Antimony (Sb)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.00020 ^{DLA}	<0.00010	<0.00010
	Arsenic (As)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.0010 ^{DLA}	0.00023	0.00246	0.00198
	Barium (Ba)-Dissolved (mg/L)	0.0133	0.0238	0.0496	0.0556	0.0532
	Beryllium (Be)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.00020 ^{DLA}	<0.00010	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	<0.0050 ^{DLA}	<0.0050 ^{DLA}	<0.0010 ^{DLA}	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)	<0.10 ^{DLA}	<0.10 ^{DLA}	<0.020 ^{DLA}	0.012	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	0.00216	0.00711	0.000905	<0.000010	<0.000010
	Calcium (Ca)-Dissolved (mg/L)	613	638	350	270	266
	Chromium (Cr)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.00020 ^{DLA}	<0.00010	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	0.233	0.300	0.00230	0.00017	0.00020
	Copper (Cu)-Dissolved (mg/L)	<0.0020 ^{DLA}	<0.0020 ^{DLA}	0.00041	<0.00020	<0.00020
	Iron (Fe)-Dissolved (mg/L)	223	8.93	<0.010	0.702	0.685
	Lead (Pb)-Dissolved (mg/L)	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00010 ^{DLA}	<0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.0280	0.0273	0.0149	0.0126	0.0102
	Magnesium (Mg)-Dissolved (mg/L)	199	166	77.8	55.4	53.5
	Manganese (Mn)-Dissolved (mg/L)	90.0	87.0	8.30	0.139	0.142
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.00074	0.00076	0.00080	0.000803	0.000846
	Nickel (Ni)-Dissolved (mg/L)	0.0883	0.503	0.0112	0.00061	0.00064
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	7.87	8.02	6.73	4.61	4.39
	Selenium (Se)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.00020 ^{DLA}	<0.00010	<0.00010
	Silicon (Si)-Dissolved (mg/L)	11.6	9.46	7.37	5.88	5.68
	Silver (Ag)-Dissolved (mg/L)	<0.00010 ^{DLA}	<0.00010 ^{DLA}	<0.000020 ^{DLA}	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	31.4	44.3	16.9	21.5	24.1

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1516957-21	L1516957-22	L1516957-23	L1516957-24	L1516957-25
		Description	Water	Water	Water	Water	Water
		Sampled Date	09-SEP-14	10-SEP-14	10-SEP-14	10-SEP-14	10-SEP-14
		Sampled Time	14:30	10:23	09:52	08:42	15:06
		Client ID	FB2	SRK08-SP-8B	SRK08-SP-8A	P96-7	SRK05-SP-3B
Grouping	Analyte						
WATER							
Total Metals	Strontium (Sr)-Total (mg/L)		<0.00020	1.45	1.94	0.587	0.706
	Sulfur (S)-Total (mg/L)		<0.50	512	528	662	134
	Thallium (Tl)-Total (mg/L)		<0.000010	<0.000020 ^{DLA}	<0.000020 ^{DLA}	<0.000020 ^{DLA}	<0.000010
	Tin (Sn)-Total (mg/L)		<0.00010	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00010
	Titanium (Ti)-Total (mg/L)		<0.010	<0.020	<0.020	<0.020	<0.010
	Uranium (U)-Total (mg/L)		<0.000010	0.00340	0.00187	0.0250	0.00188
	Vanadium (V)-Total (mg/L)		<0.0010	<0.0020 ^{DLA}	<0.0020 ^{DLA}	<0.0020 ^{DLA}	<0.0010
	Zinc (Zn)-Total (mg/L)		<0.0030	0.655 ^{DLA}	0.464 ^{DLA}	<0.0060 ^{DLA}	0.983
	Zirconium (Zr)-Total (mg/L)		<0.00080	<0.0016	<0.0016	<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)		<0.0010	0.0130	0.0047	<0.0020 ^{DLA}	0.0297
	Antimony (Sb)-Dissolved (mg/L)		<0.00010	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00010
	Arsenic (As)-Dissolved (mg/L)		<0.00010	0.00451	0.00968	<0.00020	0.00020
	Barium (Ba)-Dissolved (mg/L)		<0.000050	0.0138	0.0126	0.0120	0.0169
	Beryllium (Be)-Dissolved (mg/L)		<0.00010	<0.00020 ^{DLA}	0.00046	<0.00020 ^{DLA}	0.00055
	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	0.000058	<0.000020 ^{DLA}	0.000046	0.000063
	Calcium (Ca)-Dissolved (mg/L)		<0.050	363 ^{DLA}	416	516	171
	Chromium (Cr)-Dissolved (mg/L)		<0.00010	<0.00020 ^{DLA}	0.00025	0.00048	<0.00010
	Cobalt (Co)-Dissolved (mg/L)		<0.00010	0.00847	0.00804	<0.00020 ^{DLA}	0.00598
	Copper (Cu)-Dissolved (mg/L)		<0.00020	<0.00040 ^{DLA}	<0.00040 ^{DLA}	0.00043	<0.00020
	Iron (Fe)-Dissolved (mg/L)		<0.010	31.7 ^{DLA}	35.2	<0.010 ^{DLA}	17.1
	Lead (Pb)-Dissolved (mg/L)		<0.000050	<0.00010 ^{DLA}	<0.00010 ^{DLA}	<0.00010 ^{DLA}	0.000170
	Lithium (Li)-Dissolved (mg/L)		<0.00050	0.0729	0.114	0.0247	0.0558
	Magnesium (Mg)-Dissolved (mg/L)		<0.10	225	193	236	62.3
	Manganese (Mn)-Dissolved (mg/L)		<0.000050	6.52	3.03	0.00062	1.41
	Mercury (Hg)-Dissolved (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)		<0.000050	0.00019	0.00018	0.00088	0.000099
	Nickel (Ni)-Dissolved (mg/L)		<0.00050	0.0183	0.0249	<0.0010 ^{DLA}	0.0168
	Phosphorus (P)-Dissolved (mg/L)		<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)		<0.10	5.59	5.77	5.85	5.20
	Selenium (Se)-Dissolved (mg/L)		<0.00010	<0.00020 ^{DLA}	<0.00020 ^{DLA}	0.00037	<0.00010
	Silicon (Si)-Dissolved (mg/L)		<0.050	13.3 ^{DLA}	14.2	6.23 ^{DLA}	12.5
	Silver (Ag)-Dissolved (mg/L)		<0.000010	<0.000020 ^{DLA}	<0.000020 ^{DLA}	<0.000020 ^{DLA}	<0.000010
	Sodium (Na)-Dissolved (mg/L)		<0.050	21.3	27.0	22.2	8.39

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	Description	Sampled Date	Sampled Time	Client ID	L1516957-26	L1516957-27	L1516957-28	L1516957-29	L1516957-30
					Water	Water	Water	Water	Water
					10-SEP-14	10-SEP-14	10-SEP-14	10-SEP-14	10-SEP-14
					15:35	14:30	13:21	12:27	11:28
					SRK05-SP-3A	S1A	SRK08-SBR4	S2A	S2B
Grouping	Analyte								
WATER									
Total Metals	Strontium (Sr)-Total (mg/L)	0.974	1.03	2.23	1.01	2.22			
	Sulfur (S)-Total (mg/L)	232	636	2740	355	2780			
	Thallium (Tl)-Total (mg/L)	<0.00010	<0.00010 ^{DLA}	<0.00050 ^{DLA}	0.000036 ^{DLA}	<0.0010 ^{DLA}			
	Tin (Sn)-Total (mg/L)	<0.00010	<0.0010 ^{DLA}	<0.0050 ^{DLA}	<0.00020 ^{DLA}	<0.010 ^{DLA}			
	Titanium (Ti)-Total (mg/L)	<0.010	<0.10	<0.50	0.038	<1.0 ^{DLA}			
	Uranium (U)-Total (mg/L)	0.00231	0.00361	0.00141	0.00455	<0.0010 ^{DLA}			
	Vanadium (V)-Total (mg/L)	<0.0010	<0.010 ^{DLA}	<0.050 ^{DLA}	0.0023	<0.10 ^{DLA}			
	Zinc (Zn)-Total (mg/L)	1.57	63.8 ^{DLA}	550 ^{DLA}	6.58 ^{DLA}	609 ^{DLA}			
	Zirconium (Zr)-Total (mg/L)	<0.00080	<0.0080	<0.040 ^{DLA}	<0.0016 ^{DLA}	<0.080 ^{DLA}			
Dissolved Metals	Dissolved Mercury Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD			
	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD			
	Aluminum (Al)-Dissolved (mg/L)	0.0313	0.027 ^{DLA}	<0.050 ^{DLA}	0.0080 ^{DLA}	<0.10 ^{DLA}			
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.0010 ^{DLA}	<0.0050 ^{DLA}	<0.00020 ^{DLA}	<0.010 ^{DLA}			
	Arsenic (As)-Dissolved (mg/L)	0.00269	<0.0010 ^{DLA}	<0.0050 ^{DLA}	<0.00020 ^{DLA}	<0.010 ^{DLA}			
	Barium (Ba)-Dissolved (mg/L)	0.0160	0.0150 ^{DLA}	0.0149 ^{DLA}	0.0153 ^{DLA}	0.0294 ^{DLA}			
	Beryllium (Be)-Dissolved (mg/L)	0.00124	<0.0010 ^{DLA}	<0.0050 ^{DLA}	<0.00020 ^{DLA}	<0.010 ^{DLA}			
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.0050 ^{DLA}	<0.025 ^{DLA}	<0.0010 ^{DLA}	<0.050 ^{DLA}			
	Boron (B)-Dissolved (mg/L)	0.010	<0.10 ^{DLA}	<0.50 ^{DLA}	<0.020 ^{DLA}	<1.0 ^{DLA}			
	Cadmium (Cd)-Dissolved (mg/L)	0.000053	0.00620	0.142	0.00114	0.125			
	Calcium (Ca)-Dissolved (mg/L)	237	352 ^{DLA}	451 ^{DLA}	306 ^{DLA}	549 ^{DLA}			
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	<0.0010 ^{DLA}	<0.0050 ^{DLA}	<0.00020 ^{DLA}	<0.010 ^{DLA}			
	Cobalt (Co)-Dissolved (mg/L)	0.00563	0.168 ^{DLA}	1.88	0.0291	1.76 ^{DLA}			
	Copper (Cu)-Dissolved (mg/L)	<0.00020	<0.0020 ^{DLA}	0.010	0.00042	<0.020 ^{DLA}			
	Iron (Fe)-Dissolved (mg/L)	31.0	23.3 ^{DLA}	1.79 ^{DLA}	23.8	9.09 ^{DLA}			
	Lead (Pb)-Dissolved (mg/L)	0.000211	<0.00050 ^{DLA}	<0.0025 ^{DLA}	0.00043	<0.0050 ^{DLA}			
	Lithium (Li)-Dissolved (mg/L)	0.0644	0.0786	0.220	0.0561	0.157			
	Magnesium (Mg)-Dissolved (mg/L)	89.4	307	1540	145	1570			
	Manganese (Mn)-Dissolved (mg/L)	1.45	22.1	118	5.55	148			
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010 ^{DLA}	<0.000010 ^{DLA}	<0.000010 ^{DLA}	<0.000010 ^{DLA}			
	Molybdenum (Mo)-Dissolved (mg/L)	0.000145	<0.00050 ^{DLA}	<0.0025 ^{DLA}	<0.00010 ^{DLA}	<0.0050 ^{DLA}			
	Nickel (Ni)-Dissolved (mg/L)	0.0178	0.292	2.72 ^{DLA}	0.0574	2.77 ^{DLA}			
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.25 ^{DLA}	<0.050	<0.25 ^{DLA}			
	Potassium (K)-Dissolved (mg/L)	5.23	7.75 ^{DLA}	16.0 ^{DLA}	5.96 ^{DLA}	14.2 ^{DLA}			
	Selenium (Se)-Dissolved (mg/L)	<0.00010	<0.0010 ^{DLA}	<0.0050 ^{DLA}	<0.00020 ^{DLA}	<0.010 ^{DLA}			
	Silicon (Si)-Dissolved (mg/L)	12.7	14.7 ^{DLA}	12.5 ^{DLA}	13.6 ^{DLA}	11.5 ^{DLA}			
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.00010 ^{DLA}	<0.00050 ^{DLA}	<0.000020 ^{DLA}	<0.0010 ^{DLA}			
	Sodium (Na)-Dissolved (mg/L)	9.64	16.2	69.7	14.0	51.2			

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	Description	L1516957-31	L1516957-32	L1516957-33	L1516957-34	L1516957-35
Sampled Date	Sampled Time	10-SEP-14 17:40	10-SEP-14 17:00	10-SEP-14 16:22	10-SEP-14 08:42	10-SEP-14 17:17
Client ID	MW14-11	MW14-08	SRK05-SP-1A	DUP4	SRK08-11A	
Grouping	Analyte					
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	0.542	0.386	1.48	0.614	0.840
	Sulfur (S)-Total (mg/L)	5.41	7.99	432	601	184
	Thallium (Tl)-Total (mg/L)	<0.000010	0.000130	<0.000020 ^{DLA}	<0.000020 ^{DLA}	<0.000010
	Tin (Sn)-Total (mg/L)	0.00026	0.00035	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00010
	Titanium (Ti)-Total (mg/L)	0.011	0.253	<0.020 ^{DLA}	<0.020 ^{DLA}	<0.010
	Uranium (U)-Total (mg/L)	0.00314	0.00230	0.000589	0.0253	0.00243
	Vanadium (V)-Total (mg/L)	<0.0010	0.0183	<0.0020 ^{DLA}	<0.0020 ^{DLA}	<0.0010
	Zinc (Zn)-Total (mg/L)	0.0110	0.0846	2.35	<0.0060 ^{DLA}	0.0410
	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)	0.0039	0.0154	0.110	<0.0020 ^{DLA}	0.0014
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00020 ^{DLA}	<0.00020 ^{DLA}	<0.00010
	Arsenic (As)-Dissolved (mg/L)	0.00566	0.00384	0.00537	<0.00020 ^{DLA}	0.00012
	Barium (Ba)-Dissolved (mg/L)	0.132	0.214	0.0134	0.0118	0.127
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00010	0.00277	<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)	0.021	<0.010	<0.020 ^{DLA}	<0.020 ^{DLA}	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	<0.000010	<0.000010	0.000054	0.000047	0.000049
	Calcium (Ca)-Dissolved (mg/L)	79.5	86.5	342	453	222
	Chromium (Cr)-Dissolved (mg/L)	0.00016	0.00018	<0.00020 ^{DLA}	0.00047 ^{DLA}	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	0.00242	0.00149	0.00769	<0.00020 ^{DLA}	<0.00010
	Copper (Cu)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00040 ^{DLA}	0.00041	0.00131
	Iron (Fe)-Dissolved (mg/L)	6.04	9.97	84.3	<0.010 ^{DLA}	<0.010
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050	0.00017	<0.00010 ^{DLA}	0.000120
	Lithium (Li)-Dissolved (mg/L)	0.0113	0.00638	0.0987	0.0301	0.0151
	Magnesium (Mg)-Dissolved (mg/L)	48.9	12.5	142	194	51.9
	Manganese (Mn)-Dissolved (mg/L)	0.950	2.58	2.73	0.00069	0.000436
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.00272	0.000223	0.00014	0.00090	0.000176
	Nickel (Ni)-Dissolved (mg/L)	0.00305	0.00060	0.0301	<0.0010 ^{DLA}	0.00250
	Phosphorus (P)-Dissolved (mg/L)	<0.050	0.139	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	3.10	1.42	6.06	4.50	3.80
	Selenium (Se)-Dissolved (mg/L)	0.00015	0.00019	<0.00020 ^{DLA}	0.00042	0.00016
	Silicon (Si)-Dissolved (mg/L)	7.19	8.20	14.7	5.24	6.84
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000020 ^{DLA}	<0.000020 ^{DLA}	<0.000010
	Sodium (Na)-Dissolved (mg/L)	4.64	10.5	17.9	20.0	7.85

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID	L1516957-36 Water 10-SEP-14 16:48 SRK08-11B	L1516957-37 Water 10-SEP-14 15:59 SRK08-10A	L1516957-38 Water 10-SEP-14 14:53 P05-01-03	L1516957-39 Water 10-SEP-14 14:22 P05-01-05	L1516957-40 Water 10-SEP-14 13:02 P03-09-9	
Grouping	Analyte					
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	1.19	1.67	1.64	1.83	0.843
	Sulfur (S)-Total (mg/L)	326	576	642	596	313
	Thallium (Tl)-Total (mg/L)	0.000036	0.000070	<0.000050 ^{DLA}	<0.000050 ^{DLA}	0.000088
	Tin (Sn)-Total (mg/L)	<0.00020 ^{DLA}	0.00066	<0.00050 ^{DLA}	<0.00050 ^{DLA}	0.00035
	Titanium (Ti)-Total (mg/L)	<0.020 ^{DLA}	0.351	<0.050 ^{DLA}	<0.050 ^{DLA}	0.200
	Uranium (U)-Total (mg/L)	0.00142	0.0407	0.00108	0.00581	0.00994
	Vanadium (V)-Total (mg/L)	<0.0020 ^{DLA}	0.0114	<0.0050 ^{DLA}	<0.0050 ^{DLA}	0.0136
	Zinc (Zn)-Total (mg/L)	1.53	1.20	<0.015 ^{DLA}	<0.015 ^{DLA}	0.0718
	Zirconium (Zr)-Total (mg/L)	<0.0016 ^{DLA}	<0.0040 ^{DLA}	<0.0040 ^{DLA}	<0.0040 ^{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)	<0.0020 ^{DLA}	0.0068	0.0312	<0.0050 ^{DLA}	<0.0020 ^{DLA}
	Antimony (Sb)-Dissolved (mg/L)	<0.00020 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00020 ^{DLA}
	Arsenic (As)-Dissolved (mg/L)	<0.00020	<0.00050	<0.00050	0.00562	<0.00020
	Barium (Ba)-Dissolved (mg/L)	0.0654	0.0207	0.0259	0.0190	0.0278
	Beryllium (Be)-Dissolved (mg/L)	<0.00020 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00020 ^{DLA}
	Bismuth (Bi)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.0025 ^{DLA}	<0.0025 ^{DLA}	<0.0025 ^{DLA}	<0.0010 ^{DLA}
	Boron (B)-Dissolved (mg/L)	<0.020 ^{DLA}	<0.050 ^{DLA}	<0.050 ^{DLA}	<0.050 ^{DLA}	<0.020 ^{DLA}
	Cadmium (Cd)-Dissolved (mg/L)	0.00223	0.000377	<0.000050 ^{DLA}	0.000401	0.000467
	Calcium (Ca)-Dissolved (mg/L)	310	759	684	633	393
	Chromium (Cr)-Dissolved (mg/L)	<0.00020 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00020 ^{DLA}
	Cobalt (Co)-Dissolved (mg/L)	0.00056	0.00083	<0.00050 ^{DLA}	0.0216	0.00507
	Copper (Cu)-Dissolved (mg/L)	0.00164	0.0022	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.00040 ^{DLA}
	Iron (Fe)-Dissolved (mg/L)	<0.010	<0.010	32.8	31.1	0.096
	Lead (Pb)-Dissolved (mg/L)	<0.00010 ^{DLA}	<0.00025 ^{DLA}	<0.00025 ^{DLA}	<0.00025 ^{DLA}	<0.00010 ^{DLA}
	Lithium (Li)-Dissolved (mg/L)	0.0196	0.0090	0.0319	0.0294	0.0146
	Magnesium (Mg)-Dissolved (mg/L)	110	97.0	152	147	78.7
	Manganese (Mn)-Dissolved (mg/L)	1.11	0.0132	48.1	43.8	17.4
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.00017	0.00028	0.00062	0.00079	0.00096
	Nickel (Ni)-Dissolved (mg/L)	0.0371	0.0109	<0.0025 ^{DLA}	0.0199	0.0292
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	4.88	14.0	7.67	8.04	5.26
	Selenium (Se)-Dissolved (mg/L)	<0.00020 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00020 ^{DLA}
	Silicon (Si)-Dissolved (mg/L)	8.36	9.52	11.4	11.0	8.53
	Silver (Ag)-Dissolved (mg/L)	<0.000020	<0.000050	<0.000050	<0.000050	<0.000020
	Sodium (Na)-Dissolved (mg/L)	14.8	158	41.7	35.6	30.3

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	Description	L1516957-41	L1516957-42	L1516957-43	L1516957-44	L1516957-45
Sampled Date	Sampled Time	10-SEP-14 12:43	10-SEP-14 10:50	10-SEP-14 10:50	10-SEP-14 09:58	10-SEP-14 09:07
Client ID	P03-09-6	P01-11	DUP3	P09-C2	P09-C3	
Grouping	Analyte					
WATER						
Total Metals	Strontium (Sr)-Total (mg/L)	0.809	1.56	1.69	4.33	2.32
	Sulfur (S)-Total (mg/L)	267	630	673	3.38	75.1
	Thallium (Tl)-Total (mg/L)	0.000064	<0.000050 ^{DLA}	<0.000050 ^{DLA}	<0.000020 ^{DLA}	<0.000010
	Tin (Sn)-Total (mg/L)	<0.00020 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00020 ^{DLA}	0.00011
	Titanium (Ti)-Total (mg/L)	<0.020	<0.050	<0.050	<0.020	<0.010
	Uranium (U)-Total (mg/L)	0.00875	0.0107	0.0112	0.000604	0.000952
	Vanadium (V)-Total (mg/L)	<0.0020 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}	<0.0020 ^{DLA}	<0.0010
	Zinc (Zn)-Total (mg/L)	0.0197	<0.015 ^{DLA}	<0.015 ^{DLA}	<0.0060 ^{DLA}	0.0033
	Zirconium (Zr)-Total (mg/L)	<0.0016 ^{DLA}	<0.0040 ^{DLA}	<0.0040 ^{DLA}	0.0826	0.0355
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)	0.0035	<0.0050 ^{DLA}	<0.0050 ^{DLA}	0.0132	0.0014
	Antimony (Sb)-Dissolved (mg/L)	<0.00020 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00020 ^{DLA}	<0.00010
	Arsenic (As)-Dissolved (mg/L)	<0.00020	0.0459	0.0456	<0.00020	0.00100
	Barium (Ba)-Dissolved (mg/L)	0.0350	0.0282	0.0271	0.708	0.100
	Beryllium (Be)-Dissolved (mg/L)	<0.00020 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	0.00262	0.00017
	Bismuth (Bi)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.0025 ^{DLA}	<0.0025 ^{DLA}	<0.0010 ^{DLA}	<0.00050
	Boron (B)-Dissolved (mg/L)	<0.020 ^{DLA}	<0.050 ^{DLA}	<0.050 ^{DLA}	0.092	0.017
	Cadmium (Cd)-Dissolved (mg/L)	0.000047	<0.000050 ^{DLA}	<0.000050 ^{DLA}	<0.000020 ^{DLA}	<0.000010
	Calcium (Ca)-Dissolved (mg/L)	353	623	720	216	180
	Chromium (Cr)-Dissolved (mg/L)	<0.00020 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00020 ^{DLA}	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	0.00184	0.0138	0.0138	<0.00020 ^{DLA}	<0.00010
	Copper (Cu)-Dissolved (mg/L)	<0.00040 ^{DLA}	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.00040 ^{DLA}	<0.00020
	Iron (Fe)-Dissolved (mg/L)	0.128	70.2	82.7	3.25	2.71
	Lead (Pb)-Dissolved (mg/L)	<0.00010 ^{DLA}	<0.00025 ^{DLA}	<0.00025 ^{DLA}	<0.00010 ^{DLA}	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.0195	0.0223	0.0231	0.856	0.0941
	Magnesium (Mg)-Dissolved (mg/L)	75.8	135	164	108	69.3
	Manganese (Mn)-Dissolved (mg/L)	12.9	45.3	46.2	0.120	0.370
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010 ^{DLA}	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.00110	0.00085	0.00080	<0.00010 ^{DLA}	0.000161
	Nickel (Ni)-Dissolved (mg/L)	0.0199	0.0293	0.0295	<0.0010 ^{DLA}	<0.00050
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	4.94	6.90	8.89	11.6	3.79
	Selenium (Se)-Dissolved (mg/L)	<0.00020 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00020 ^{DLA}	<0.00010
	Silicon (Si)-Dissolved (mg/L)	8.12	11.1	13.1	10.2	8.58
	Silver (Ag)-Dissolved (mg/L)	<0.000020 ^{DLA}	<0.000050 ^{DLA}	<0.000050 ^{DLA}	0.000295	0.000048
	Sodium (Na)-Dissolved (mg/L)	30.2	42.5	42.1	311	58.9

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	Description	Sampled Date	Sampled Time	Client ID																																																						
	L1516957-1	Water	09-SEP-14	14:42	P09-SIS2																																																						
	L1516957-2	Water	09-SEP-14	15:17	P09-SIS3																																																						
	L1516957-3	Water	09-SEP-14	18:20	SRK05-SP-4A																																																						
	L1516957-4	Water	09-SEP-14	17:40	SRK05-SP-4B																																																						
	L1516957-5	Water	09-SEP-14	16:50	P09-SIS1																																																						
Grouping	Analyte																																																										
WATER																																																											
Dissolved Metals	<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 35%;">Strontium (Sr)-Dissolved (mg/L)</td> <td style="width: 15%; text-align: center;">2.45</td> <td style="width: 15%; text-align: center;">2.68</td> <td style="width: 15%; text-align: center;">0.594</td> <td style="width: 15%; text-align: center;">2.60</td> <td style="width: 15%; text-align: center;">2.73</td> </tr> <tr> <td>Sulfur (S)-Dissolved (mg/L)</td> <td style="text-align: center;">3850</td> <td style="text-align: center;">3790</td> <td style="text-align: center;">190</td> <td style="text-align: center;">2200</td> <td style="text-align: center;">2840</td> </tr> <tr> <td>Thallium (Tl)-Dissolved (mg/L)</td> <td style="text-align: center;"><0.0010^{DLA}</td> <td style="text-align: center;"><0.0010^{DLA}</td> <td style="text-align: center;"><0.000050^{DLA}</td> <td style="text-align: center;"><0.000050^{DLA}</td> <td style="text-align: center;"><0.000050^{DLA}</td> </tr> <tr> <td>Tin (Sn)-Dissolved (mg/L)</td> <td style="text-align: center;"><0.010^{DLA}</td> <td style="text-align: center;"><0.010^{DLA}</td> <td style="text-align: center;"><0.00050^{DLA}</td> <td style="text-align: center;"><0.0050^{DLA}</td> <td style="text-align: center;"><0.0050^{DLA}</td> </tr> <tr> <td>Titanium (Ti)-Dissolved (mg/L)</td> <td style="text-align: center;"><1.0^{DLA}</td> <td style="text-align: center;"><1.0^{DLA}</td> <td style="text-align: center;"><0.050^{DLA}</td> <td style="text-align: center;"><0.50^{DLA}</td> <td style="text-align: center;"><0.50^{DLA}</td> </tr> <tr> <td>Uranium (U)-Dissolved (mg/L)</td> <td style="text-align: center;">0.0016</td> <td style="text-align: center;">0.0019</td> <td style="text-align: center;">0.00184</td> <td style="text-align: center;">0.00344</td> <td style="text-align: center;">0.00267</td> </tr> <tr> <td>Vanadium (V)-Dissolved (mg/L)</td> <td style="text-align: center;"><0.10^{DLA}</td> <td style="text-align: center;"><0.10^{DLA}</td> <td style="text-align: center;"><0.0050^{DLA}</td> <td style="text-align: center;"><0.050^{DLA}</td> <td style="text-align: center;"><0.050^{DLA}</td> </tr> <tr> <td>Zinc (Zn)-Dissolved (mg/L)</td> <td style="text-align: center;">897</td> <td style="text-align: center;">999</td> <td style="text-align: center;">21.8</td> <td style="text-align: center;">373</td> <td style="text-align: center;">411</td> </tr> <tr> <td>Zirconium (Zr)-Dissolved (mg/L)</td> <td style="text-align: center;"><0.080^{DLA}</td> <td style="text-align: center;"><0.080^{DLA}</td> <td style="text-align: center;"><0.0040^{DLA}</td> <td style="text-align: center;"><0.040^{DLA}</td> <td style="text-align: center;"><0.040^{DLA}</td> </tr> </table>					Strontium (Sr)-Dissolved (mg/L)	2.45	2.68	0.594	2.60	2.73	Sulfur (S)-Dissolved (mg/L)	3850	3790	190	2200	2840	Thallium (Tl)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.000050 ^{DLA}	<0.000050 ^{DLA}	<0.000050 ^{DLA}	Tin (Sn)-Dissolved (mg/L)	<0.010 ^{DLA}	<0.010 ^{DLA}	<0.00050 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}	Titanium (Ti)-Dissolved (mg/L)	<1.0 ^{DLA}	<1.0 ^{DLA}	<0.050 ^{DLA}	<0.50 ^{DLA}	<0.50 ^{DLA}	Uranium (U)-Dissolved (mg/L)	0.0016	0.0019	0.00184	0.00344	0.00267	Vanadium (V)-Dissolved (mg/L)	<0.10 ^{DLA}	<0.10 ^{DLA}	<0.0050 ^{DLA}	<0.050 ^{DLA}	<0.050 ^{DLA}	Zinc (Zn)-Dissolved (mg/L)	897	999	21.8	373	411	Zirconium (Zr)-Dissolved (mg/L)	<0.080 ^{DLA}	<0.080 ^{DLA}	<0.0040 ^{DLA}	<0.040 ^{DLA}	<0.040 ^{DLA}
Strontium (Sr)-Dissolved (mg/L)	2.45	2.68	0.594	2.60	2.73																																																						
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Tin (Sn)-Dissolved (mg/L)	<0.010 ^{DLA}	<0.010 ^{DLA}	<0.00050 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}																																																						
Titanium (Ti)-Dissolved (mg/L)	<1.0 ^{DLA}	<1.0 ^{DLA}	<0.050 ^{DLA}	<0.50 ^{DLA}	<0.50 ^{DLA}																																																						
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Vanadium (V)-Dissolved (mg/L)	<0.10 ^{DLA}	<0.10 ^{DLA}	<0.0050 ^{DLA}	<0.050 ^{DLA}	<0.050 ^{DLA}																																																						
Zinc (Zn)-Dissolved (mg/L)	897	999	21.8	373	411																																																						
Zirconium (Zr)-Dissolved (mg/L)	<0.080 ^{DLA}	<0.080 ^{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 Description Sampled Date Sampled Time Client ID	L1516957-6 Water 09-SEP-14 16:32 P09-SIS4	L1516957-7 Water 09-SEP-14 16:22 P09-SIS5	L1516957-8 Water 09-SEP-14 13:40 SRK05-SP-5	L1516957-9 Water 09-SEP-14 11:20 SRK08-SP-7B	L1516957-10 Water 09-SEP-14 11:54 SRK08-SP-7A
Grouping	Analyte				
WATER					
Dissolved Metals					
Strontium (Sr)-Dissolved (mg/L)	2.34	1.89	2.18	0.117	0.440
Sulfur (S)-Dissolved (mg/L)	1560	1180	3230	20.6	119
Thallium (Tl)-Dissolved (mg/L)	<0.00010 ^{DLA}	<0.000050 ^{DLA}	<0.0010 ^{DLA}	<0.000010	<0.000010
Tin (Sn)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.00050 ^{DLA}	<0.010 ^{DLA}	<0.00010	<0.00010
Titanium (Ti)-Dissolved (mg/L)	<0.10 ^{DLA}	<0.050 ^{DLA}	<1.0 ^{DLA}	<0.010	<0.010
Uranium (U)-Dissolved (mg/L)	0.0171	0.0139	0.0023	0.000148	0.000323
Vanadium (V)-Dissolved (mg/L)	<0.010 ^{DLA}	<0.0050 ^{DLA}	<0.10 ^{DLA}	<0.0010	<0.0010
Zinc (Zn)-Dissolved (mg/L)	82.8	15.0	787	2.17	0.423
Zirconium (Zr)-Dissolved (mg/L)	<0.0080 ^{DLA}	<0.0040 ^{DLA}	<0.080 ^{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 Description Sampled Date Sampled Time Client ID	L1516957-11 Water 09-SEP-14 11:20 DUP2	L1516957-12 Water 09-SEP-14 18:16 P01-04A	L1516957-13 Water 09-SEP-14 16:46 P01-04B	L1516957-14 Water 09-SEP-14 16:00 X25-96B	L1516957-15 Water 09-SEP-14 15:28 X25-96A	
Grouping	Analyte					
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	0.115	1.76 <small>DTC</small>	1.37	0.587	0.758
	Sulfur (S)-Dissolved (mg/L)	20.5	20.5	444 <small>DLA</small>	244 <small>DLA</small>	259 <small>DLA</small>
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000020 <small>DLA</small>	<0.000020 <small>DLA</small>	<0.000020 <small>DLA</small>
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00020 <small>DLA</small>	<0.00020 <small>DLA</small>	<0.00020 <small>DLA</small>
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.020 <small>DLA</small>	<0.020 <small>DLA</small>	<0.020 <small>DLA</small>
	Uranium (U)-Dissolved (mg/L)	0.000147	0.000269	0.00678 <small>DLA</small>	0.00605 <small>DLA</small>	0.0114 <small>DLA</small>
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0020 <small>DLA</small>	<0.0020 <small>DLA</small>	<0.0020 <small>DLA</small>
	Zinc (Zn)-Dissolved (mg/L)	2.13	<0.0010	<0.0020 <small>DLA</small>	<0.0020 <small>DLA</small>	0.0030 <small>DLA</small>
	Zirconium (Zr)-Dissolved (mg/L)	<0.00080	0.0620	<0.0016 <small>DLA</small>	<0.0016 <small>DLA</small>	<0.0016 <small>DLA</small>

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID	L1516957-16 Water 09-SEP-14 14:23 P01-03	L1516957-17 Water 09-SEP-14 18:32 X24-96D	L1516957-18 Water 09-SEP-14 11:12 P01-01A	L1516957-19 Water 09-SEP-14 12:04 P01-01B	L1516957-20 Water 09-SEP-14 12:04 DUP1
Grouping	Analyte				
WATER					
Dissolved Metals					
Strontium (Sr)-Dissolved (mg/L)	2.45	2.00	1.04	0.868	0.896
Sulfur (S)-Dissolved (mg/L)	799	664	286	199	191
Thallium (Tl)-Dissolved (mg/L)	<0.00010 ^{DLA}	0.00023 ^{DLA}	<0.000020 ^{DLA}	<0.000010	<0.000010
Tin (Sn)-Dissolved (mg/L)	<0.0010 ^{DLA}	<0.0010 ^{DLA}	<0.00020 ^{DLA}	<0.00010	<0.00010
Titanium (Ti)-Dissolved (mg/L)	<0.10 ^{DLA}	<0.10 ^{DLA}	<0.020 ^{DLA}	<0.010	<0.010
Uranium (U)-Dissolved (mg/L)	0.00470	0.00339	0.00862	0.00913	0.0102
Vanadium (V)-Dissolved (mg/L)	<0.010 ^{DLA}	<0.010 ^{DLA}	<0.0020 ^{DLA}	<0.0010	<0.0010
Zinc (Zn)-Dissolved (mg/L)	0.339	0.259	0.0034	0.0011	<0.0010
Zirconium (Zr)-Dissolved (mg/L)	<0.0080 ^{DLA}	<0.0080 ^{DLA}	<0.0016 ^{DLA}	0.00099	0.00107

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID	L1516957-21 Water 09-SEP-14 14:30 FB2	L1516957-22 Water 10-SEP-14 10:23 SRK08-SP-8B	L1516957-23 Water 10-SEP-14 09:52 SRK08-SP-8A	L1516957-24 Water 10-SEP-14 08:42 P96-7	L1516957-25 Water 10-SEP-14 15:06 SRK05-SP-3B
Grouping	Analyte				
WATER					
Dissolved Metals					
Strontium (Sr)-Dissolved (mg/L)	<0.00020	1.36	1.89	0.598	0.675
Sulfur (S)-Dissolved (mg/L)	<0.50	499	492	645	129
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)	<0.000010	0.00323 ^{DLA}	0.00183 ^{DLA}	0.0250 ^{DLA}	0.00190
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	0.632 ^{DLA}	0.458 ^{DLA}	0.0023 ^{DLA}	0.993
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

Sample ID	Description	Sampled Date	Sampled Time	Client ID	L1516957-26	L1516957-27	L1516957-28	L1516957-29	L1516957-30				
	Water	10-SEP-14	15:35	SRK05-SP-3A	Water	10-SEP-14	14:30	S1A	Water	10-SEP-14	11:28	11:28	S2B
	Water	10-SEP-14	12:27	S2A	Water	10-SEP-14	13:21	SRK08-SBR4	Water	10-SEP-14	11:28	11:28	S2B
Grouping	Analyte												
WATER													
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	0.955	1.11	2.17	1.04	2.36							
	Sulfur (S)-Dissolved (mg/L)	219	654	2700	351	2830							
	Thallium (Tl)-Dissolved (mg/L)	<0.00010	<0.00010 ^{DLA}	<0.00050 ^{DLA}	<0.000020 ^{DLA}	<0.0010 ^{DLA}							
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.0010 ^{DLA}	<0.0050 ^{DLA}	<0.00020 ^{DLA}	<0.010 ^{DLA}							
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.10 ^{DLA}	<0.50 ^{DLA}	<0.020 ^{DLA}	<1.0 ^{DLA}							
	Uranium (U)-Dissolved (mg/L)	0.00223	0.00340	0.00141	0.00467	<0.0010 ^{DLA}							
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.010 ^{DLA}	<0.050 ^{DLA}	<0.0020 ^{DLA}	<0.10 ^{DLA}							
	Zinc (Zn)-Dissolved (mg/L)	1.53	68.5	543	6.79	616							
	Zirconium (Zr)-Dissolved (mg/L)	<0.00080	<0.0080 ^{DLA}	<0.040 ^{DLA}	<0.0016 ^{DLA}	<0.080 ^{DLA}							

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1516957-31	L1516957-32	L1516957-33	L1516957-34	L1516957-35
Description	Water	Water	Water	Water	Water	Water
Sampled Date	10-SEP-14	10-SEP-14	10-SEP-14	10-SEP-14	10-SEP-14	10-SEP-14
Sampled Time	17:40	17:00	16:22	08:42	17:17	17:17
Client ID	MW14-11	MW14-08	SRK05-SP-1A	DUP4	SRK08-11A	SRK08-11A
Grouping	Analyte					
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	0.533	0.373	1.50	0.624	0.820
	Sulfur (S)-Dissolved (mg/L)	5.92	8.81	404	549	189
	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)	0.00326	0.000919	0.000591	0.0259	0.00237
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0020 ^{DLA}	<0.0020 ^{DLA}	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	0.0053	0.0029	2.29	0.0031	0.0418
	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	L1516957-36	L1516957-37	L1516957-38	L1516957-39	L1516957-40
		Description	Water	Water	Water	Water	Water
		Sampled Date	10-SEP-14	10-SEP-14	10-SEP-14	10-SEP-14	10-SEP-14
		Sampled Time	16:48	15:59	14:53	14:22	13:02
		Client ID	SRK08-11B	SRK08-10A	P05-01-03	P05-01-05	P03-09-9
Grouping	Analyte						
WATER							
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)		1.11	1.72	1.64	1.76	0.898
	Sulfur (S)-Dissolved (mg/L)		339	551	639	613	322
	Thallium (Tl)-Dissolved (mg/L)		0.000038	<0.000050 ^{DLA}	<0.000050 ^{DLA}	<0.000050 ^{DLA}	<0.000020 ^{DLA}
	Tin (Sn)-Dissolved (mg/L)		<0.00020 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00020 ^{DLA}
	Titanium (Ti)-Dissolved (mg/L)		<0.020 ^{DLA}	<0.050 ^{DLA}	<0.050 ^{DLA}	<0.050 ^{DLA}	<0.020 ^{DLA}
	Uranium (U)-Dissolved (mg/L)		0.00139	0.0387	0.00101	0.00553	0.0101
	Vanadium (V)-Dissolved (mg/L)		<0.0020 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}	<0.0020 ^{DLA}
	Zinc (Zn)-Dissolved (mg/L)		1.58	0.305	<0.0050 ^{DLA}	0.0052	0.0033
	Zirconium (Zr)-Dissolved (mg/L)		<0.0016 ^{DLA}	<0.0040 ^{DLA}	<0.0040 ^{DLA}	<0.0040 ^{DLA}	<0.0016 ^{DLA}

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	L1516957-41	L1516957-42	L1516957-43	L1516957-44	L1516957-45	
Description	Water	Water	Water	Water	Water	
Sampled Date	10-SEP-14	10-SEP-14	10-SEP-14	10-SEP-14	10-SEP-14	
Sampled Time	12:43	10:50	10:50	09:58	09:07	
Client ID	P03-09-6	P01-11	DUP3	P09-C2	P09-C3	
Grouping	Analyte					
WATER						
Dissolved Metals	Strontium (Sr)-Dissolved (mg/L)	0.852	1.59	1.68	4.55	2.25
	Sulfur (S)-Dissolved (mg/L)	289	618	703	3.25	78.7
	Thallium (Tl)-Dissolved (mg/L)	<0.000020 ^{DLA}	<0.000050 ^{DLA}	<0.000050 ^{DLA}	<0.000020 ^{DLA}	<0.000010
	Tin (Sn)-Dissolved (mg/L)	<0.00020 ^{DLA}	<0.00050 ^{DLA}	<0.00050 ^{DLA}	<0.00020 ^{DLA}	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<0.020 ^{DLA}	<0.050 ^{DLA}	<0.050 ^{DLA}	<0.020 ^{DLA}	<0.010
	Uranium (U)-Dissolved (mg/L)	0.00912	0.0115	0.0112	0.000428	0.000864
	Vanadium (V)-Dissolved (mg/L)	<0.0020 ^{DLA}	<0.0050 ^{DLA}	<0.0050 ^{DLA}	<0.0020 ^{DLA}	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	<0.0020 ^{DLA}	0.0065 ^{DLA}	0.0058 ^{DLA}	<0.0020 ^{DLA}	<0.0010
	Zirconium (Zr)-Dissolved (mg/L)	<0.0016 ^{DLA}	<0.0040 ^{DLA}	<0.0040 ^{DLA}	0.185 ^{DTC}	0.0329

* 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.

Qualifiers for Individual Samples Listed:

Sample Number	Client Sample ID	Qualifier	Description
L1516957-1	P09-SIS2	WSMT	Water sample(s) for total 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	Antimony (Sb)-Total	DLA	L1516957-22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39
Duplicate	Arsenic (As)-Total	DLA	L1516957-22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39
Duplicate	Beryllium (Be)-Total	DLA	L1516957-22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39
Duplicate	Bismuth (Bi)-Total	DLA	L1516957-22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39
Duplicate	Boron (B)-Total	DLA	L1516957-22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39
Duplicate	Chromium (Cr)-Total	DLA	L1516957-22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39
Duplicate	Selenium (Se)-Total	DLA	L1516957-22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39
Duplicate	Silver (Ag)-Total	DLA	L1516957-22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39
Duplicate	Tin (Sn)-Total	DLA	L1516957-22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39
Duplicate	Titanium (Ti)-Total	DLA	L1516957-22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39
Duplicate	Vanadium (V)-Total	DLA	L1516957-22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39
Duplicate	Zirconium (Zr)-Total	DLA	L1516957-22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39
Duplicate	Antimony (Sb)-Dissolved	DLA	L1516957-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -5, -6, -7, -8, -9
Duplicate	Bismuth (Bi)-Dissolved	DLA	L1516957-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -5, -6, -7, -8, -9
Duplicate	Lead (Pb)-Dissolved	DLA	L1516957-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -5, -6, -7, -8, -9
Duplicate	Selenium (Se)-Dissolved	DLA	L1516957-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -5, -6, -7, -8, -9
Duplicate	Silver (Ag)-Dissolved	DLA	L1516957-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -5, -6, -7, -8, -9
Duplicate	Thallium (Tl)-Dissolved	DLA	L1516957-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -5, -6, -7, -8, -9
Duplicate	Tin (Sn)-Dissolved	DLA	L1516957-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -5, -6, -7, -8, -9

Reference Information

	Parameter	Qualifier	Applies to Sample Number(s)
Duplicate	Titanium (Ti)-Dissolved	DLA	L1516957-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -5, -6, -7, -8, -9
Method Blank	Manganese (Mn)-Total	MB-LOR	L1516957-10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sulfate (SO4)	MS-B	L1516957-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1516957-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1516957-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1516957-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -5, -6, -7, -8, -9
Matrix Spike	Silicon (Si)-Dissolved	MS-B	L1516957-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -5, -6, -7, -8, -9
Matrix Spike	Sulfur (S)-Dissolved	MS-B	L1516957-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Total	MS-B	L1516957-10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Silicon (Si)-Total	MS-B	L1516957-10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sulfur (S)-Total	MS-B	L1516957-10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Total	MS-B	L1516957-22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39
Matrix Spike	Magnesium (Mg)-Total	MS-B	L1516957-22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39
Matrix Spike	Silicon (Si)-Total	MS-B	L1516957-22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39
Matrix Spike	Sulfur (S)-Total	MS-B	L1516957-22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1516957-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1516957-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1516957-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1516957-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -5, -6, -7, -8, -9
Matrix Spike	Uranium (U)-Dissolved	MS-B	L1516957-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1516957-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -

Reference Information

	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Sodium (Na)-Dissolved	MS-B	43, -44, -45, -5, -6, -7, -8, -9 L1516957-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1516957-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1516957-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1516957-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1516957-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1516957-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1516957-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1516957-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -5, -6, -7, -8, -9

Qualifiers for Individual Parameters Listed:

Qualifier	Description
DLA	Detection Limit adjusted for required dilution
DTC	Dissolved concentration exceeds total. Results were confirmed by re-analysis.
MB-LOR	Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-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.			
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,			

Reference Information

Dionex 2003.

ANIONS-SO4-IC-WR	Water	Sulphate by Ion Chromatography	EPA 300.1
This analysis is carried out using procedures adapted from EPA Method 300.1, "Determination of Inorganic Anions by Ion Chromatography", Revision 1.0, April 1999 and from "Determination of Inorganic Anions in Environmental Waters Using a Hydroxide-Selective Column", Application Note 154 v.19, Dionex 2003.			
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO ₃ equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.			
HG-DIS-LOW-CVAFS-VA	Water	Dissolved Mercury in Water by CVAFS(Low)	EPA SW-846 3005A & EPA 245.7
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).			
HG-TOT-LOW-CVAFS-VA	Water	Total Mercury in Water by CVAFS(Low)	EPA 245.7
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).			
IONBALANCE-VA	Water	Ion Balance Calculation	APHA 1030E
Cation Sum, Anion Sum, and Ion Balance (as % difference) are calculated based on guidance from APHA Standard Methods (1030E Checking Correctness of Analysis). Because all aqueous solutions are electrically neutral, the calculated ion balance (% difference of cations minus anions) should be near-zero.			
Cation and Anion Sums are the total meq/L concentration of major cations and anions. Dissolved species are used where available. Minor ions are included where data is present. Ion Balance is calculated as:			
Ion Balance (%) = [Cation Sum-Anion Sum] / [Cation Sum+Anion Sum]			
MET-D-CCMS-VA	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030 B&E / EPA SW-846 6020A
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using hotblock, or filtration (APHA 3030B&E). Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A).			
MET-DIS-LOW-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA 3005A/6010B
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).			
MET-T-CCMS-VA	Water	Total Metals in Water by CRC ICPMS	APHA 3030 B&E / EPA SW-846 6020A
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using hotblock, or filtration (APHA 3030B&E). Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A).			
MET-TOT-LOW-ICP-VA	Water	Total Metals in Water by ICPOES	EPA 3005A/6010B
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).			
PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H "pH Value"
This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode			

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

Reference Information

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

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
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Reference Information

GLOSSARY OF REPORT TERMS

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

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

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

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

mg/L - milligrams per litre.

< - Less than.

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

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

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

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

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



Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878



L1516957-COFC

COC Number: 1 -

Page 1 of 4

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Report To		Report Format		(Rush Turnaround Time (TAT) is not available for all tests)																																																																																																																																																																																																												
Company: Hemmera Environchem Inc.		Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input checked="" type="checkbox"/> EDD (DIGITAL)		R <input checked="" type="checkbox"/> Regular (Standard TAT if received by 3 pm - business days)																																																																																																																																																																																																												
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Company: Hemmera Environchem Inc.		Invoice Distribution		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below																																																																																																																																																																																																												
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<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>ALS Sample # (lab use only)</th> <th>Sample Identification and/or Coordinates (This description will appear on the report)</th> <th>Date (dd-mmm-yy)</th> <th>Time (hh:mm)</th> <th>Sample Type</th> <th>acidity (to pH 8.3)</th> <th>alkalinity</th> <th>chloride</th> <th>conductivity</th> <th>pH</th> <th>sulphate</th> <th>suspended solids, total (TSS)</th> <th>dissolved metals</th> <th>total metals</th> <th>Number of Containers</th> </tr> </thead> <tbody> <tr><td>P09-SIS2</td><td></td><td>09-Sep-14</td><td>14:42</td><td>Water</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>3</td></tr> <tr><td>P09-SIS3</td><td></td><td>09-Sep-14</td><td>15:17</td><td>Water</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>3</td></tr> <tr><td>SRK05-SP-4A</td><td></td><td>09-Sep-14</td><td>18:20</td><td>Water</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>3</td></tr> <tr><td>SRK05-SP-4B</td><td></td><td>09-Sep-14</td><td>17:40</td><td>Water</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>3</td></tr> <tr><td>P09-SIS1</td><td></td><td>09-Sep-14</td><td>16:50</td><td>Water</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>3</td></tr> <tr><td>P09-SIS4</td><td></td><td>09-Sep-14</td><td>16:32</td><td>Water</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>3</td></tr> <tr><td>P09-SIS5</td><td></td><td>09-Sep-14</td><td>16:22</td><td>Water</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>3</td></tr> <tr><td>SRK05-SP-5</td><td></td><td>09-Sep-14</td><td>13:40</td><td>Water</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>3</td></tr> <tr><td>SRK08-SP-7B</td><td></td><td>09-Sep-14</td><td>11:20</td><td>Water</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>3</td></tr> <tr><td>SRK08-SP-7A</td><td></td><td>09-Sep-14</td><td>11:54</td><td>Water</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>3</td></tr> <tr><td>Dup2</td><td></td><td>09-Sep-14</td><td>11:20</td><td>Water</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>3</td></tr> <tr><td>P01-04A</td><td></td><td>09-Sep-14</td><td>18:16</td><td>Water</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>3</td></tr> </tbody> </table>													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	P09-SIS2		09-Sep-14	14:42	Water	R	R	R	R	R	R	R	R	R	3	P09-SIS3		09-Sep-14	15:17	Water	R	R	R	R	R	R	R	R	R	3	SRK05-SP-4A		09-Sep-14	18:20	Water	R	R	R	R	R	R	R	R	R	3	SRK05-SP-4B		09-Sep-14	17:40	Water	R	R	R	R	R	R	R	R	R	3	P09-SIS1		09-Sep-14	16:50	Water	R	R	R	R	R	R	R	R	R	3	P09-SIS4		09-Sep-14	16:32	Water	R	R	R	R	R	R	R	R	R	3	P09-SIS5		09-Sep-14	16:22	Water	R	R	R	R	R	R	R	R	R	3	SRK05-SP-5		09-Sep-14	13:40	Water	R	R	R	R	R	R	R	R	R	3	SRK08-SP-7B		09-Sep-14	11:20	Water	R	R	R	R	R	R	R	R	R	3	SRK08-SP-7A		09-Sep-14	11:54	Water	R	R	R	R	R	R	R	R	R	3	Dup2		09-Sep-14	11:20	Water	R	R	R	R	R	R	R	R	R	3	P01-04A		09-Sep-14	18:16	Water	R	R	R	R	R	R	R	R	R	3	
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Are samples taken from a Regulated DW System? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				- EDD must be in EQUIS format common to Faro Mine Remediation Project. Contact client if clarification is required. - See attached parameter sheet for required detection limits.				Frozen <input type="checkbox"/> SIF Observations Yes <input type="checkbox"/> No <input type="checkbox"/>																																																																																																																																																																																																								
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SHIPMENT RELEASE (client use)				INITIAL SHIPMENT RECEPTION (lab use only)				INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C																																																																																																																																																																																																				
Released by: C. J. Strelak				Date: Sep 10/14 Time: 11:30				2.5, 2.1				2.3, 0.8																																																																																																																																																																																																				
Received by:				Date: 12-Sep-14 Time: 11:45				Received by:				Date: Time:																																																																																																																																																																																																				

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

1A-FM 02/06 v09 Form 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.



L1516957-COFC

Report To		Report Format		Rush Turnaround Time (TAT) is not available for all test(s)													
Company: Hemmera Environchem Inc.		Selected Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input checked="" type="checkbox"/> EDD (DIGITAL)		R <input checked="" type="checkbox"/> Regular (Standard TAT received by 3 pm - business days)													
Contact: Natasha Sandys		Quality Control (QC) Report with Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		P <input type="checkbox"/> 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 <input type="checkbox"/> Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT													
Phone: 867-456-4865		Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX		E2 <input type="checkbox"/> Same day or weekend emergency - contact ALS to confirm TAT and surcharge													
Email 1 or Fax nsandys@hemmera.com, rmartinka@hemmera.com		Email 1 or Fax nsandys@hemmera.com		Specify Date Required for E2,E or P:													
Email 2 chris@elr.ca		Email 2 chris@elr.ca															
Invoice To		Invoice Distribution		Analysis Request													
Same as Report To <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input checked="" type="checkbox"/> MAIL <input type="checkbox"/> FAX		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below													
Copy of Invoice with Report <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Email 1 or Fax nsandys@hemmera.com															
Company: Hemmera Environchem Inc.		Email 2 chris@elr.ca															
Project Information		Oil and Gas Required Fields (client use)															
ALS Quote #: Q45291		Approver ID:		Cost Center:													
Job #: 1343-005.02		GL Account:		Routing Code:													
PO / AFE:		Activity Code:															
LSD:		Location:															
ALS Lab Work Order # (lab use only)		ALS Contact:		Sampler: RM,AB,AN,GR													
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P01-04B				09-Sep-14	16:46	Water	R	R	R	R	R	R	R	R	R	3	
X25-96B				09-Sep-14	16:00	Water	R	R	R	R	R	R	R	R	R	3	
X25-96A				09-Sep-14	15:28	Water	R	R	R	R	R	R	R	R	R	3	
P01-03				09-Sep-14	14:23	Water	R	R	R	R	R	R	R	R	R	3	
X24-96D				09-Sep-14	18:32	Water	R	R	R	R	R	R	R	R	R	3	
P01-01A				09-Sep-14	11:12	Water	R	R	R	R	R	R	R	R	R	3	
P01-01B				09-Sep-14	12:04	Water	R	R	R	R	R	R	R	R	R	3	
Dup1				09-Sep-14	12:04	Water	R	R	R	R	R	R	R	R	R	3	
FB2				09-Sep-14	14:30	Water	R	R	R	R	R	R	R	R	R	3	
SRK08-SP-8B				10-Sep-14	10:23	Water	R	R	R	R	R	R	R	R	R	3	
SRK08-SP-8A				10-Sep-14	9:52	Water	R	R	R	R	R	R	R	R	R	3	
P96-7				10-Sep-14	8:42	Water	R	R	R	R	R	R	R	R	R	3	
Drinking Water (DW) Samples¹ (client use)				Special Instructions / Specify Criteria to add on report (client use)				SAMPLE CONDITION AS RECEIVED (lab use only)									
Are samples taken from a Regulated DW System? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				- EDD must be in EQUIS format common to Faro Mine Remediation Project. Contact client if clarification is required. - See attached parameter sheet for required detection limits.				Frozen <input type="checkbox"/> SIF Observations Yes <input type="checkbox"/> No <input type="checkbox"/>									
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								Cooling Initiated <input type="checkbox"/>									
								INITIAL COOLER TEMPERATURES °C					FINAL COOLER TEMPERATURES °C				
SHIPMENT RELEASE (client use)				INITIAL SHIPMENT RECEPTION (lab use only)				FINAL SHIPMENT RECEPTION (lab use only)									
Released by:		Date:	Time:	Received by:		Date:	Time:	Received by:			Date:		Time:				



ALS Environmental

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Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878



L1516957-COFC

COC Number: 1 -

Page 3 of 4

Report To		Report Format / Distribution			Analysis Request										
Company: Hemmera Environchem Inc.		Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input checked="" type="checkbox"/> EDD (DIGITAL)			R <input checked="" type="checkbox"/> Regular (Standard TAT if received by 3 pm - business days)										
Contact: Natasha Sandys		Quality Control (QC) Report with Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			P <input type="checkbox"/> Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT										
Address: 230 - 2237 2nd Avenue Whitehorse, YT		<input type="checkbox"/> Criteria on Report - provide details below if box checked			E <input type="checkbox"/> Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT										
Phone: 867-456-4865		Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX			E2 <input checked="" type="checkbox"/> Same day or weekend emergency - contact ALS to confirm TAT and surcharge										
Invoice To Same as Report To <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Email 1 or Fax nsandys@hemmera.com, mmartinka@hemmera.com			Specify Date Required for E2, E or P:										
Copy of Invoice with Report <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Email 2 chris@elr.ca			Analysis Request										
Company: Hemmera Environchem Inc.		Invoice Distribution			Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below										
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ALS Quote #: Q45291		Approver ID:			Cost Center:										
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	SRK05-SP-3B	10-Sep-14	15:06	Water	R	R	R	R	R	R	R	R	R		3
	SRK05-SP-3A	10-Sep-14	15:35	Water	R	R	R	R	R	R	R	R	R		3
	S1A	10-Sep-14	14:30	Water	R	R	R	R	R	R	R	R	R		3
	SRK08-SBR4	10-Sep-14	13:21	Water	R	R	R	R	R	R	R	R	R		3
	S2A	10-Sep-14	12:27	Water	R	R	R	R	R	R	R	R	R		3
	S2B	10-Sep-14	11:28	Water	R	R	R	R	R	R	R	R	R		3
	MW14-11	10-Sep-14	17:40	Water	R	R	R	R	R	R	R	R	R		3
	MW14-08	10-Sep-14	17:00	Water	R	R	R	R	R	R	R	R	R		3
	SRK05-SP-1A	10-Sep-14	16:22	Water	R	R	R	R	R	R	R	R	R		3
	Dup4	10-Sep-14	8:42	Water	R	R	R	R	R	R	R	R	R		3
	SRK08-11A	10-Sep-14	17:17	Water	R	R	R	R	R	R	R	R	R		3
	SRK08-11B	10-Sep-14	16:48	Water	R	R	R	R	R	R	R	R	R		3
Drinking Water (DW) Samples¹ (client use)		Special Instructions / Specify Criteria to add on report (client use)			SAMPLE CONDITION AS RECEIVED (lab use only)										
Are samples taken from a Regulated DW System? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		- EDD must be in EQulS format common to Faro Mine Remediation Project. Contact client if clarification is required. - See attached parameter sheet for required detection limits.			Frozen <input type="checkbox"/> SIF Observations Yes <input type="checkbox"/> No <input type="checkbox"/>										
Are samples for human drinking water use? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					ice packs Yes <input type="checkbox"/> No <input type="checkbox"/> Custody seal intact: Yes <input type="checkbox"/> No <input type="checkbox"/>										
					Cooling Initiated <input type="checkbox"/>										
					INITIAL COOLER TEMPERATURES °C					FINAL COOLER TEMPERATURES °C					
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)										
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:					Date:				

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NA-FM 0276e v03 Form04 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

Canada Toll Free: 1 800 668 9878



L1516957-COFC

COC Number: 1 -

Page 4 of 4

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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: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input checked="" type="checkbox"/> EDD (DIGITAL)				R <input checked="" type="checkbox"/> Regular (Standard TAT if received by 3 pm - business days)																																																																																																																																																																																																																																	
Contact: Natasha Sandys		Quality Control (QC) Report with Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				P <input type="checkbox"/> Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT																																																																																																																																																																																																																																	
Address: 230 - 2237 2nd Avenue Whitehorse, YT		<input type="checkbox"/> Criteria on Report - provide details below if box checked				E <input type="checkbox"/> Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT																																																																																																																																																																																																																																	
Phone: 867-456-4865		Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX				E2 <input type="checkbox"/> Same day or weekend emergency - contact ALS to confirm TAT and surcharge																																																																																																																																																																																																																																	
		Email 1 or Fax nsandys@hemmera.com, rmartinka@hemmera.com				Specify Date Required for E2,E or P:																																																																																																																																																																																																																																	
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Copy of Invoice with Report <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input checked="" type="checkbox"/> MAIL <input type="checkbox"/> FAX				F/P P																																																																																																																																																																																																																																	
Company: Hemmera Environchem Inc.		Email 1 or Fax nsandys@hemmera.com				<table border="1"> <tr> <td rowspan="10">Number of Containers</td> <td>acidity (to pH 8.3)</td> <td>alkalinity</td> <td>chloride</td> <td>conductivity</td> <td>pH</td> <td>sulphate</td> <td>suspended solids, total (TSS)</td> <td>dissolved metals</td> <td>total metals</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>												Number of Containers	acidity (to pH 8.3)	alkalinity	chloride	conductivity	pH	sulphate	suspended solids, total (TSS)	dissolved metals	total metals																																																																																																																																																																																																												
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	SRK08-10A			10-Sep-14	15:59	Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	3																																																																																																																																																																																																																		
	P05-01-03			10-Sep-14	14:53	Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	3																																																																																																																																																																																																																		
	P05-01-05			10-Sep-14	14:22	Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	3																																																																																																																																																																																																																		
	P03-09-9			10-Sep-14	13:02	Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	3																																																																																																																																																																																																																		
	P03-09-6			10-Sep-14	12:43	Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	3																																																																																																																																																																																																																		
	P01-11			10-Sep-14	10:50	Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	3																																																																																																																																																																																																																		
	Dup3			10-Sep-14	10:50	Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	3																																																																																																																																																																																																																		
	P09-C2			10-Sep-14	9:58	Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	3																																																																																																																																																																																																																		
	P09-C3			10-Sep-14	9:07	Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	3																																																																																																																																																																																																																		
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