



HEMMERA ENVIROCHEM INC.  
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Date Received: 27-SEP-16  
Report Date: 11-OCT-16 13:52 (MT)  
Version: FINAL

Client Phone: 867-456-4865

## Certificate of Analysis

Lab Work Order #: L1835022  
Project P.O. #: NOT SUBMITTED  
Job Reference: 1343-005.31  
C of C Numbers: 1-1343-005.31  
Legal Site Desc:

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Brent Mack, B.Sc.  
Account Manager

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# ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID					
	L1835022-1 Water 20-SEP-16 14:25 SRK05-SP-4A	L1835022-2 Water 20-SEP-16 15:55 P09-SIS2	L1835022-3 Water 20-SEP-16 13:50 SRK05-SP-4B	L1835022-4 Water 20-SEP-16 17:45 P09-SIS1	L1835022-5 Water 20-SEP-16 15:15 P09-SIS3	
Grouping	Analyte					
<b>WATER</b>						
<b>Physical Tests</b>	Conductivity (uS/cm)	1340	9020	8130	6630	8740
	Hardness (as CaCO3) (mg/L)	785	8790	7820	6280	9620
	pH (pH)	6.41	6.49	6.84	6.88	6.86
	Total Suspended Solids (mg/L)	3.8	28.0	24.9	31.7	8.7
<b>Anions and Nutrients</b>	Acidity (as CaCO3) (mg/L)	229	1020	1130	420	1340
	Alkalinity, Total (as CaCO3) (mg/L)	250	97	47.1	334	139
	Chloride (Cl) (mg/L)	<2.5 <sup>DLDS</sup>	<25 <sup>DLDS</sup>	<25 <sup>DLDS</sup>	<25 <sup>DLDS</sup>	<25 <sup>DLDS</sup>
	Sulfate (SO4) (mg/L)	547	12000	9880	7160	12300
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)					
	Antimony (Sb)-Total (mg/L)					
	Arsenic (As)-Total (mg/L)					
	Barium (Ba)-Total (mg/L)					
	Beryllium (Be)-Total (mg/L)					
	Boron (B)-Total (mg/L)					
	Cadmium (Cd)-Total (mg/L)					
	Calcium (Ca)-Total (mg/L)					
	Chromium (Cr)-Total (mg/L)					
	Cobalt (Co)-Total (mg/L)					
	Copper (Cu)-Total (mg/L)					
	Iron (Fe)-Total (mg/L)					
	Lead (Pb)-Total (mg/L)					
	Lithium (Li)-Total (mg/L)					
	Magnesium (Mg)-Total (mg/L)					
	Manganese (Mn)-Total (mg/L)					
	Mercury (Hg)-Total (mg/L)					
	Molybdenum (Mo)-Total (mg/L)					
	Nickel (Ni)-Total (mg/L)					
	Potassium (K)-Total (mg/L)					
	Selenium (Se)-Total (mg/L)					
	Silver (Ag)-Total (mg/L)					
	Sodium (Na)-Total (mg/L)					
Thallium (Tl)-Total (mg/L)						
Titanium (Ti)-Total (mg/L)						
Uranium (U)-Total (mg/L)						
Vanadium (V)-Total (mg/L)						
Zinc (Zn)-Total (mg/L)						
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD

\* 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	L1835022-6 Water 20-SEP-16 12:55 P09-SIS4	L1835022-7 Water 20-SEP-16 11:16 P09-SIS6	L1835022-8 Water 20-SEP-16 16:40 SRK08-SBR2	L1835022-9 Water 20-SEP-16 16:40 FB-1	L1835022-10 Water 20-SEP-16 16:40 DUP-2
Grouping	Analyte					
<b>WATER</b>						
<b>Physical Tests</b>	Conductivity (uS/cm)	7020	5120	2160	<2.0	2220
	Hardness (as CaCO3) (mg/L)	7870	4550	1570	<0.50	1550
	pH (pH)	7.15	7.44	7.13	6.56	7.09
	Total Suspended Solids (mg/L)	9.1	95.6	20.3	<3.0	23.5
<b>Anions and Nutrients</b>	Acidity (as CaCO3) (mg/L)	290	137	240	<1.0	131
	Alkalinity, Total (as CaCO3) (mg/L)	480	656	228	<2.0	229
	Chloride (Cl) (mg/L)	<25	<25	<10	<0.50	<10
	Sulfate (SO4) (mg/L)	8140	4840	1410	<0.30	1390
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)					
	Antimony (Sb)-Total (mg/L)					
	Arsenic (As)-Total (mg/L)					
	Barium (Ba)-Total (mg/L)					
	Beryllium (Be)-Total (mg/L)					
	Boron (B)-Total (mg/L)					
	Cadmium (Cd)-Total (mg/L)					
	Calcium (Ca)-Total (mg/L)					
	Chromium (Cr)-Total (mg/L)					
	Cobalt (Co)-Total (mg/L)					
	Copper (Cu)-Total (mg/L)					
	Iron (Fe)-Total (mg/L)					
	Lead (Pb)-Total (mg/L)					
	Lithium (Li)-Total (mg/L)					
	Magnesium (Mg)-Total (mg/L)					
	Manganese (Mn)-Total (mg/L)					
	Mercury (Hg)-Total (mg/L)					
	Molybdenum (Mo)-Total (mg/L)					
	Nickel (Ni)-Total (mg/L)					
	Potassium (K)-Total (mg/L)					
	Selenium (Se)-Total (mg/L)					
	Silver (Ag)-Total (mg/L)					
	Sodium (Na)-Total (mg/L)					
Thallium (Tl)-Total (mg/L)						
Titanium (Ti)-Total (mg/L)						
Uranium (U)-Total (mg/L)						
Vanadium (V)-Total (mg/L)						
Zinc (Zn)-Total (mg/L)						
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD

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# ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1835022-11 Water 20-SEP-16 16:00 S1A	L1835022-12 Water 20-SEP-16 14:20 SRK08-SP7B	L1835022-13 Water 20-SEP-16 12:30 CH14-107- MW007A	L1835022-14 Water 20-SEP-16 14:50 SRK08-SP7A	L1835022-15 Water 20-SEP-16 13:10 CH14-107- MW007B
Grouping	Analyte					
<b>WATER</b>						
<b>Physical Tests</b>	Conductivity (uS/cm)	1930	196	4160	1480	1600
	Hardness (as CaCO3) (mg/L)	1250	87.0	3460	969	1050
	pH (pH)	6.68	7.01	6.46	6.80	6.68
	Total Suspended Solids (mg/L)	3.9	6.6	18.7	220	19.7
<b>Anions and Nutrients</b>	Acidity (as CaCO3) (mg/L)	312	13.8	294	107	117
	Alkalinity, Total (as CaCO3) (mg/L)	283	77	163	161	227
	Chloride (Cl) (mg/L)	<10	DLDS	<0.50	DLDS	<5.0
	Sulfate (SO4) (mg/L)	1080	25.0	3810	820	847
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)					
	Antimony (Sb)-Total (mg/L)					
	Arsenic (As)-Total (mg/L)					
	Barium (Ba)-Total (mg/L)					
	Beryllium (Be)-Total (mg/L)					
	Boron (B)-Total (mg/L)					
	Cadmium (Cd)-Total (mg/L)					
	Calcium (Ca)-Total (mg/L)					
	Chromium (Cr)-Total (mg/L)					
	Cobalt (Co)-Total (mg/L)					
	Copper (Cu)-Total (mg/L)					
	Iron (Fe)-Total (mg/L)					
	Lead (Pb)-Total (mg/L)					
	Lithium (Li)-Total (mg/L)					
	Magnesium (Mg)-Total (mg/L)					
	Manganese (Mn)-Total (mg/L)					
	Mercury (Hg)-Total (mg/L)					
	Molybdenum (Mo)-Total (mg/L)					
	Nickel (Ni)-Total (mg/L)					
	Potassium (K)-Total (mg/L)					
	Selenium (Se)-Total (mg/L)					
	Silver (Ag)-Total (mg/L)					
	Sodium (Na)-Total (mg/L)					
	Thallium (Tl)-Total (mg/L)					
Titanium (Ti)-Total (mg/L)						
Uranium (U)-Total (mg/L)						
Vanadium (V)-Total (mg/L)						
Zinc (Zn)-Total (mg/L)						
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD

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# ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1835022-16 Water 20-SEP-16 13:10 DUP-1	L1835022-17 Water 20-SEP-16 10:55 CH14-107-MW009	L1835022-18 Water 20-SEP-16 11:50 CH14-107-MW010	L1835022-19 Water 21-SEP-16 10:25 SRK08-SBR3	L1835022-20 Water 21-SEP-16 09:55 SRK08-SBR4
Grouping	Analyte					
<b>WATER</b>						
<b>Physical Tests</b>	Conductivity (uS/cm)	1610	1280	819	3430	7310
	Hardness (as CaCO3) (mg/L)	1040	829	449	2740	7600
	pH (pH)	6.68	6.38	6.12	7.02	6.52
	Total Suspended Solids (mg/L)	12.5	4.1	7.1	75.8	5.0
<b>Anions and Nutrients</b>	Acidity (as CaCO3) (mg/L)	119	261	417	110	676
	Alkalinity, Total (as CaCO3) (mg/L)	228	307	243	584	121
	Chloride (Cl) (mg/L)	<5.0 <sup>DLDS</sup>	<2.5 <sup>DLDS</sup>	<2.5 <sup>DLDS</sup>	<10 <sup>DLDS</sup>	<25 <sup>DLDS</sup>
	Sulfate (SO4) (mg/L)	833	517	222	2360	7850
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)					
	Antimony (Sb)-Total (mg/L)					
	Arsenic (As)-Total (mg/L)					
	Barium (Ba)-Total (mg/L)					
	Beryllium (Be)-Total (mg/L)					
	Boron (B)-Total (mg/L)					
	Cadmium (Cd)-Total (mg/L)					
	Calcium (Ca)-Total (mg/L)					
	Chromium (Cr)-Total (mg/L)					
	Cobalt (Co)-Total (mg/L)					
	Copper (Cu)-Total (mg/L)					
	Iron (Fe)-Total (mg/L)					
	Lead (Pb)-Total (mg/L)					
	Lithium (Li)-Total (mg/L)					
	Magnesium (Mg)-Total (mg/L)					
	Manganese (Mn)-Total (mg/L)					
	Mercury (Hg)-Total (mg/L)					
	Molybdenum (Mo)-Total (mg/L)					
	Nickel (Ni)-Total (mg/L)					
	Potassium (K)-Total (mg/L)					
	Selenium (Se)-Total (mg/L)					
	Silver (Ag)-Total (mg/L)					
	Sodium (Na)-Total (mg/L)					
Thallium (Tl)-Total (mg/L)						
Titanium (Ti)-Total (mg/L)						
Uranium (U)-Total (mg/L)						
Vanadium (V)-Total (mg/L)						
Zinc (Zn)-Total (mg/L)						
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD

\* 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	L1835022-21 Water 21-SEP-16 09:05 SRK05-SP-5	L1835022-22 Water 21-SEP-16 12:52 CH15-107-MW025	L1835022-23 Water 21-SEP-16 11:25 P96-7	L1835022-24 Water 21-SEP-16 15:55 P03-05-02	L1835022-25 Water 21-SEP-16 17:12 P03-05-04
Grouping	Analyte					
<b>WATER</b>						
<b>Physical Tests</b>	Conductivity (uS/cm)	8070	2900	2910	2160	1940
	Hardness (as CaCO3) (mg/L)	8710	749	2050	900	1040
	pH (pH)	6.69	7.75	7.72	5.37	5.83
	Total Suspended Solids (mg/L)	18.6	216	5.5	40.9	34.8
<b>Anions and Nutrients</b>	Acidity (as CaCO3) (mg/L)	1140	25.1	16.1	482	288
	Alkalinity, Total (as CaCO3) (mg/L)	146	606	216	11.1	19.6
	Chloride (Cl) (mg/L)	<25 <sup>DLDS</sup>	73	<10 <sup>DLDS</sup>	<10 <sup>DLDS</sup>	<10 <sup>DLDS</sup>
	Sulfate (SO4) (mg/L)	11000	1010	2070	1530	1350
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)					
	Antimony (Sb)-Total (mg/L)					
	Arsenic (As)-Total (mg/L)					
	Barium (Ba)-Total (mg/L)					
	Beryllium (Be)-Total (mg/L)					
	Boron (B)-Total (mg/L)					
	Cadmium (Cd)-Total (mg/L)					
	Calcium (Ca)-Total (mg/L)					
	Chromium (Cr)-Total (mg/L)					
	Cobalt (Co)-Total (mg/L)					
	Copper (Cu)-Total (mg/L)					
	Iron (Fe)-Total (mg/L)					
	Lead (Pb)-Total (mg/L)					
	Lithium (Li)-Total (mg/L)					
	Magnesium (Mg)-Total (mg/L)					
	Manganese (Mn)-Total (mg/L)					
	Mercury (Hg)-Total (mg/L)					
	Molybdenum (Mo)-Total (mg/L)					
	Nickel (Ni)-Total (mg/L)					
	Potassium (K)-Total (mg/L)					
	Selenium (Se)-Total (mg/L)					
	Silver (Ag)-Total (mg/L)					
	Sodium (Na)-Total (mg/L)					
Thallium (Tl)-Total (mg/L)						
Titanium (Ti)-Total (mg/L)						
Uranium (U)-Total (mg/L)						
Vanadium (V)-Total (mg/L)						
Zinc (Zn)-Total (mg/L)						
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD

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# ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1835022-26 Water 21-SEP-16 15:15 P03-04-06	L1835022-27 Water 21-SEP-16 11:10 CH15-107-MW022	L1835022-28 Water 21-SEP-16 17:15 P03-06-2	L1835022-29 Water 21-SEP-16 13:30 CH15-107-MW023	L1835022-30 Water 21-SEP-16 11:50 CH15-107-MW019
Grouping	Analyte					
<b>WATER</b>						
<b>Physical Tests</b>	Conductivity (uS/cm)	4830	1460	4850	1460	3680
	Hardness (as CaCO3) (mg/L)	1730	923	1920	495	2660
	pH (pH)	4.50	6.72	3.88	6.79	6.58
	Total Suspended Solids (mg/L)	105	37.2	1700	521	48.8
<b>Anions and Nutrients</b>	Acidity (as CaCO3) (mg/L)	2160	89.7	2800	80.8	212
	Alkalinity, Total (as CaCO3) (mg/L)	<1.0	294	<1.0	456	559
	Chloride (Cl) (mg/L)	<10 <sup>DLDS</sup>	<5.0 <sup>DLDS</sup>	<25 <sup>DLDS</sup>	<2.5 <sup>DLDS</sup>	<10 <sup>DLDS</sup>
	Sulfate (SO4) (mg/L)	3940	639	5150	96.7	2300
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)					
	Antimony (Sb)-Total (mg/L)					
	Arsenic (As)-Total (mg/L)					
	Barium (Ba)-Total (mg/L)					
	Beryllium (Be)-Total (mg/L)					
	Boron (B)-Total (mg/L)					
	Cadmium (Cd)-Total (mg/L)					
	Calcium (Ca)-Total (mg/L)					
	Chromium (Cr)-Total (mg/L)					
	Cobalt (Co)-Total (mg/L)					
	Copper (Cu)-Total (mg/L)					
	Iron (Fe)-Total (mg/L)					
	Lead (Pb)-Total (mg/L)					
	Lithium (Li)-Total (mg/L)					
	Magnesium (Mg)-Total (mg/L)					
	Manganese (Mn)-Total (mg/L)					
	Mercury (Hg)-Total (mg/L)					
	Molybdenum (Mo)-Total (mg/L)					
	Nickel (Ni)-Total (mg/L)					
	Potassium (K)-Total (mg/L)					
	Selenium (Se)-Total (mg/L)					
	Silver (Ag)-Total (mg/L)					
	Sodium (Na)-Total (mg/L)					
Thallium (Tl)-Total (mg/L)						
Titanium (Ti)-Total (mg/L)						
Uranium (U)-Total (mg/L)						
Vanadium (V)-Total (mg/L)						
Zinc (Zn)-Total (mg/L)						
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD

\* 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	L1835022-31	L1835022-32	L1835022-33	L1835022-34	L1835022-35
	Water 21-SEP-16 09:30 S1B	Water 21-SEP-16 09:10 S2A	Water 21-SEP-16 08:20 S2B	Water 22-SEP-16 14:50 SRK05-07	Water 22-SEP-16 15:35 SRK05-08	
Grouping	Analyte					
<b>WATER</b>						
<b>Physical Tests</b>	Conductivity (uS/cm)	827	1830	8200	3350	2820
	Hardness (as CaCO3) (mg/L)	453	1210	9180	2610	2120
	pH (pH)	7.17	6.31	6.48	7.48	7.47
	Total Suspended Solids (mg/L)	48.0	182	21.9	8.2	5.5
<b>Anions and Nutrients</b>	Acidity (as CaCO3) (mg/L)	42.9	228	1130	72.1	54.0
	Alkalinity, Total (as CaCO3) (mg/L)	348	290	155	712	617
	Chloride (Cl) (mg/L)	<2.5 <sup>DLDS</sup>	<5.0 <sup>DLDS</sup>	<25 <sup>DLDS</sup>	<10 <sup>DLDS</sup>	<10 <sup>DLDS</sup>
	Sulfate (SO4) (mg/L)	139	952	10500	2110	1470
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)					
	Antimony (Sb)-Total (mg/L)					
	Arsenic (As)-Total (mg/L)					
	Barium (Ba)-Total (mg/L)					
	Beryllium (Be)-Total (mg/L)					
	Boron (B)-Total (mg/L)					
	Cadmium (Cd)-Total (mg/L)					
	Calcium (Ca)-Total (mg/L)					
	Chromium (Cr)-Total (mg/L)					
	Cobalt (Co)-Total (mg/L)					
	Copper (Cu)-Total (mg/L)					
	Iron (Fe)-Total (mg/L)					
	Lead (Pb)-Total (mg/L)					
	Lithium (Li)-Total (mg/L)					
	Magnesium (Mg)-Total (mg/L)					
	Manganese (Mn)-Total (mg/L)					
	Mercury (Hg)-Total (mg/L)					
	Molybdenum (Mo)-Total (mg/L)					
	Nickel (Ni)-Total (mg/L)					
	Potassium (K)-Total (mg/L)					
	Selenium (Se)-Total (mg/L)					
	Silver (Ag)-Total (mg/L)					
	Sodium (Na)-Total (mg/L)					
Thallium (Tl)-Total (mg/L)						
Titanium (Ti)-Total (mg/L)						
Uranium (U)-Total (mg/L)						
Vanadium (V)-Total (mg/L)						
Zinc (Zn)-Total (mg/L)						
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD

\* 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	L1835022-36	L1835022-37	L1835022-38	L1835022-39	L1835022-40
	Water 22-SEP-16 08:55 V34	Water 22-SEP-16 10:10 V35	Water 22-SEP-16 13:05 V36	Water 22-SEP-16 13:05 FB-3	Water 22-SEP-16 13:05 FB-3	Water 22-SEP-16 13:05 DUP-4
Grouping	Analyte					
<b>WATER</b>						
<b>Physical Tests</b>	Conductivity (uS/cm)	2170	2450	3000	<2.0	3020
	Hardness (as CaCO3) (mg/L)	1630	1910	2480	<0.50	2600
	pH (pH)	7.20	7.48	7.33	6.52	7.46
	Total Suspended Solids (mg/L)	5.3	4.6	10.6	<3.0	9.7
<b>Anions and Nutrients</b>	Acidity (as CaCO3) (mg/L)	113	50.3	71.8	1.0	61.0
	Alkalinity, Total (as CaCO3) (mg/L)	926	586	640	<2.0	648
	Chloride (Cl) (mg/L)	<10	<10	<10	<0.50	<10
	Sulfate (SO4) (mg/L)	646	1310	1790	<0.30	1780
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)					
	Antimony (Sb)-Total (mg/L)					
	Arsenic (As)-Total (mg/L)					
	Barium (Ba)-Total (mg/L)					
	Beryllium (Be)-Total (mg/L)					
	Boron (B)-Total (mg/L)					
	Cadmium (Cd)-Total (mg/L)					
	Calcium (Ca)-Total (mg/L)					
	Chromium (Cr)-Total (mg/L)					
	Cobalt (Co)-Total (mg/L)					
	Copper (Cu)-Total (mg/L)					
	Iron (Fe)-Total (mg/L)					
	Lead (Pb)-Total (mg/L)					
	Lithium (Li)-Total (mg/L)					
	Magnesium (Mg)-Total (mg/L)					
	Manganese (Mn)-Total (mg/L)					
	Mercury (Hg)-Total (mg/L)					
	Molybdenum (Mo)-Total (mg/L)					
	Nickel (Ni)-Total (mg/L)					
	Potassium (K)-Total (mg/L)					
	Selenium (Se)-Total (mg/L)					
	Silver (Ag)-Total (mg/L)					
	Sodium (Na)-Total (mg/L)					
Thallium (Tl)-Total (mg/L)						
Titanium (Ti)-Total (mg/L)						
Uranium (U)-Total (mg/L)						
Vanadium (V)-Total (mg/L)						
Zinc (Zn)-Total (mg/L)						
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD

\* 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	L1835022-41 Water 22-SEP-16 17:25 SRK05-9	L1835022-42 Water 22-SEP-16 17:45 CH14-107- MW006A	L1835022-43 Water 22-SEP-16 18:10 CH14-107- MW006B	L1835022-44 Water 22-SEP-16 14:05 X18A	L1835022-45 Water 22-SEP-16 16:35 P01-01B
Grouping	Analyte					
<b>WATER</b>						
<b>Physical Tests</b>	Conductivity (uS/cm)	1290	605	662	1670	1500
	Hardness (as CaCO3) (mg/L)	817	336	383	1070	910
	pH (pH)	7.95	7.88	8.03	7.61	7.85
	Total Suspended Solids (mg/L)	<3.0	16.5	<3.0	7.7	<3.0
<b>Anions and Nutrients</b>	Acidity (as CaCO3) (mg/L)	9.6	10.1	7.2	23.8	14.7
	Alkalinity, Total (as CaCO3) (mg/L)	298	321	360	318	331
	Chloride (Cl) (mg/L)	<2.5 <sup>DLDS</sup>	<0.50	<2.5 <sup>DLDS</sup>	<5.0 <sup>DLDS</sup>	<5.0 <sup>DLDS</sup>
	Sulfate (SO4) (mg/L)	532	30.6	37.5	810	667
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)					
	Antimony (Sb)-Total (mg/L)					
	Arsenic (As)-Total (mg/L)					
	Barium (Ba)-Total (mg/L)					
	Beryllium (Be)-Total (mg/L)					
	Boron (B)-Total (mg/L)					
	Cadmium (Cd)-Total (mg/L)					
	Calcium (Ca)-Total (mg/L)					
	Chromium (Cr)-Total (mg/L)					
	Cobalt (Co)-Total (mg/L)					
	Copper (Cu)-Total (mg/L)					
	Iron (Fe)-Total (mg/L)					
	Lead (Pb)-Total (mg/L)					
	Lithium (Li)-Total (mg/L)					
	Magnesium (Mg)-Total (mg/L)					
	Manganese (Mn)-Total (mg/L)					
	Mercury (Hg)-Total (mg/L)					
	Molybdenum (Mo)-Total (mg/L)					
	Nickel (Ni)-Total (mg/L)					
	Potassium (K)-Total (mg/L)					
	Selenium (Se)-Total (mg/L)					
	Silver (Ag)-Total (mg/L)					
	Sodium (Na)-Total (mg/L)					
	Thallium (Tl)-Total (mg/L)					
Titanium (Ti)-Total (mg/L)						
Uranium (U)-Total (mg/L)						
Vanadium (V)-Total (mg/L)						
Zinc (Zn)-Total (mg/L)						
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD

\* 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	L1835022-46	L1835022-47	L1835022-48	L1835022-49	L1835022-50
	Water 22-SEP-16 15:50 P01-01A	Water 22-SEP-16 15:50 DUP-5	Water 22-SEP-16 12:10 X16A	Water 22-SEP-16 14:52 X18B	Water 22-SEP-16 12:30 X16B	
Grouping	Analyte					
<b>WATER</b>						
<b>Physical Tests</b>	Conductivity (uS/cm)	2140	2140	366	1620	414
	Hardness (as CaCO3) (mg/L)	1400	1440	201	1030	224
	pH (pH)	7.39	7.46	8.10	7.52	8.15
	Total Suspended Solids (mg/L)	<3.0	3.3	<3.0	<3.0	1180
<b>Anions and Nutrients</b>	Acidity (as CaCO3) (mg/L)	37.8	34.8	2.5	26.6	2.3
	Alkalinity, Total (as CaCO3) (mg/L)	359	362	176	321	205
	Chloride (Cl) (mg/L)	<10 <sup>DLDS</sup>	<10 <sup>DLDS</sup>	<0.50	<5.0 <sup>DLDS</sup>	<0.50
	Sulfate (SO4) (mg/L)	1200	1170	29.8	751	26.7
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)					
	Antimony (Sb)-Total (mg/L)					
	Arsenic (As)-Total (mg/L)					
	Barium (Ba)-Total (mg/L)					
	Beryllium (Be)-Total (mg/L)					
	Boron (B)-Total (mg/L)					
	Cadmium (Cd)-Total (mg/L)					
	Calcium (Ca)-Total (mg/L)					
	Chromium (Cr)-Total (mg/L)					
	Cobalt (Co)-Total (mg/L)					
	Copper (Cu)-Total (mg/L)					
	Iron (Fe)-Total (mg/L)					
	Lead (Pb)-Total (mg/L)					
	Lithium (Li)-Total (mg/L)					
	Magnesium (Mg)-Total (mg/L)					
	Manganese (Mn)-Total (mg/L)					
	Mercury (Hg)-Total (mg/L)					
	Molybdenum (Mo)-Total (mg/L)					
	Nickel (Ni)-Total (mg/L)					
	Potassium (K)-Total (mg/L)					
	Selenium (Se)-Total (mg/L)					
	Silver (Ag)-Total (mg/L)					
	Sodium (Na)-Total (mg/L)					
Thallium (Tl)-Total (mg/L)						
Titanium (Ti)-Total (mg/L)						
Uranium (U)-Total (mg/L)						
Vanadium (V)-Total (mg/L)						
Zinc (Zn)-Total (mg/L)						
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD

\* 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	L1835022-51	L1835022-52	L1835022-53	L1835022-54	L1835022-55
	Water 22-SEP-16 09:38 P01-03	Water 22-SEP-16 09:38 DUP-3	Water 22-SEP-16 10:10 X25-96A	Water 22-SEP-16 10:35 X25-96B	Water 22-SEP-16 09:05 X24-96D	
Grouping	Analyte					
<b>WATER</b>						
<b>Physical Tests</b>	Conductivity (uS/cm)	3860	3830	1770	1820	3710
	Hardness (as CaCO3) (mg/L)	2070	2100	1110	1150	2140
	pH (pH)	5.47	5.59	7.36	7.94	5.54
	Total Suspended Solids (mg/L)	178	117	30.5	9.3	143
<b>Anions and Nutrients</b>	Acidity (as CaCO3) (mg/L)	1190	1210	33.7	12.5	1070
	Alkalinity, Total (as CaCO3) (mg/L)	96.7	125	306	320	97.4
	Chloride (Cl) (mg/L)	<10	<10	<5.0	<5.0	<10
	Sulfate (SO4) (mg/L)	2890	2920	913	929	2870
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)					
	Antimony (Sb)-Total (mg/L)					
	Arsenic (As)-Total (mg/L)					
	Barium (Ba)-Total (mg/L)					
	Beryllium (Be)-Total (mg/L)					
	Boron (B)-Total (mg/L)					
	Cadmium (Cd)-Total (mg/L)					
	Calcium (Ca)-Total (mg/L)					
	Chromium (Cr)-Total (mg/L)					
	Cobalt (Co)-Total (mg/L)					
	Copper (Cu)-Total (mg/L)					
	Iron (Fe)-Total (mg/L)					
	Lead (Pb)-Total (mg/L)					
	Lithium (Li)-Total (mg/L)					
	Magnesium (Mg)-Total (mg/L)					
	Manganese (Mn)-Total (mg/L)					
	Mercury (Hg)-Total (mg/L)					
	Molybdenum (Mo)-Total (mg/L)					
	Nickel (Ni)-Total (mg/L)					
	Potassium (K)-Total (mg/L)					
	Selenium (Se)-Total (mg/L)					
	Silver (Ag)-Total (mg/L)					
	Sodium (Na)-Total (mg/L)					
	Thallium (Tl)-Total (mg/L)					
Titanium (Ti)-Total (mg/L)						
Uranium (U)-Total (mg/L)						
Vanadium (V)-Total (mg/L)						
Zinc (Zn)-Total (mg/L)						
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD

\* 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	L1835022-56 Water 22-SEP-16 09:05 FB-2	L1835022-57 Water 22-SEP-16 11:10 P01-04A	L1835022-58 Water 22-SEP-16 16:25 P96-9A	L1835022-59 Water 23-SEP-16 10:10 P01-11	L1835022-60 Water  TRAVEL BLANK
Grouping	Analyte					
<b>WATER</b>						
<b>Physical Tests</b>	Conductivity (uS/cm)	<2.0	1170	3130	3450	<2.0 <sup>HTC</sup>
	Hardness (as CaCO3) (mg/L)	<0.50	598	2430	2580	<0.50
	pH (pH)	7.37	7.16	7.54	6.62	6.41
	Total Suspended Solids (mg/L)	<3.0	<3.0	<3.0	119	<3.0
<b>Anions and Nutrients</b>	Acidity (as CaCO3) (mg/L)	1.0	82.0	51.8	230	1.7
	Alkalinity, Total (as CaCO3) (mg/L)	<2.0	685	628	423	<2.0
	Chloride (Cl) (mg/L)	<0.50	7.8	<10	<10	<0.50
	Sulfate (SO4) (mg/L)	<0.30	42.2	1880	2450	<0.30
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)					<0.010
	Antimony (Sb)-Total (mg/L)					<0.00050
	Arsenic (As)-Total (mg/L)					<0.0010
	Barium (Ba)-Total (mg/L)					<0.020
	Beryllium (Be)-Total (mg/L)					<0.0050
	Boron (B)-Total (mg/L)					<0.10
	Cadmium (Cd)-Total (mg/L)					<0.000050
	Calcium (Ca)-Total (mg/L)					<0.10
	Chromium (Cr)-Total (mg/L)					<0.00050
	Cobalt (Co)-Total (mg/L)					<0.00050
	Copper (Cu)-Total (mg/L)					<0.0010
	Iron (Fe)-Total (mg/L)					<0.030
	Lead (Pb)-Total (mg/L)					<0.0010
	Lithium (Li)-Total (mg/L)					<0.050
	Magnesium (Mg)-Total (mg/L)					<0.10
	Manganese (Mn)-Total (mg/L)					<0.010
	Mercury (Hg)-Total (mg/L)					<0.00020
	Molybdenum (Mo)-Total (mg/L)					<0.0010
	Nickel (Ni)-Total (mg/L)					<0.0050
	Potassium (K)-Total (mg/L)					<2.0
	Selenium (Se)-Total (mg/L)					<0.0010
	Silver (Ag)-Total (mg/L)					<0.000050
	Sodium (Na)-Total (mg/L)					<2.0
	Thallium (Tl)-Total (mg/L)					<0.00020
Titanium (Ti)-Total (mg/L)					<0.050	
Uranium (U)-Total (mg/L)					<0.00020	
Vanadium (V)-Total (mg/L)					<0.030	
Zinc (Zn)-Total (mg/L)					<0.0050	
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	

\* 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	L1835022-61 Water 22-SEP-16 09:20 SRK05-ETA-BR2	L1835022-62 Water 23-SEP-16 08:40 SRK05-ETA-BR1	L1835022-63 Water 23-SEP-16 11:30 P05-01-03	L1835022-64 Water 23-SEP-16 11:18 P05-01-04	L1835022-65 Water 23-SEP-16 11:42 P05-01-02
Grouping	Analyte					
<b>WATER</b>						
<b>Physical Tests</b>	Conductivity (uS/cm)	2580	7010	3600	3600	3450
	Hardness (as CaCO3) (mg/L)	1660	5050	2650	2710	2510
	pH (pH)	6.79	5.20	6.49	6.45	6.52
	Total Suspended Solids (mg/L)	40.7	56.2	32.5	67.3	20.3
<b>Anions and Nutrients</b>	Acidity (as CaCO3) (mg/L)	63.2	3130	297	303	296
	Alkalinity, Total (as CaCO3) (mg/L)	148	46.5	472	458	471
	Chloride (Cl) (mg/L)	10	<25 <sup>DLDS</sup>	<10 <sup>DLDS</sup>	<10 <sup>DLDS</sup>	<10 <sup>DLDS</sup>
	Sulfate (SO4) (mg/L)	1730	9130	2330	2450	2450
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)					
	Antimony (Sb)-Total (mg/L)					
	Arsenic (As)-Total (mg/L)					
	Barium (Ba)-Total (mg/L)					
	Beryllium (Be)-Total (mg/L)					
	Boron (B)-Total (mg/L)					
	Cadmium (Cd)-Total (mg/L)					
	Calcium (Ca)-Total (mg/L)					
	Chromium (Cr)-Total (mg/L)					
	Cobalt (Co)-Total (mg/L)					
	Copper (Cu)-Total (mg/L)					
	Iron (Fe)-Total (mg/L)					
	Lead (Pb)-Total (mg/L)					
	Lithium (Li)-Total (mg/L)					
	Magnesium (Mg)-Total (mg/L)					
	Manganese (Mn)-Total (mg/L)					
	Mercury (Hg)-Total (mg/L)					
	Molybdenum (Mo)-Total (mg/L)					
	Nickel (Ni)-Total (mg/L)					
	Potassium (K)-Total (mg/L)					
	Selenium (Se)-Total (mg/L)					
	Silver (Ag)-Total (mg/L)					
	Sodium (Na)-Total (mg/L)					
Thallium (Tl)-Total (mg/L)						
Titanium (Ti)-Total (mg/L)						
Uranium (U)-Total (mg/L)						
Vanadium (V)-Total (mg/L)						
Zinc (Zn)-Total (mg/L)						
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD

\* 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	L1835022-66 Water 23-SEP-16 17:10 P96-8B	L1835022-67 Water 23-SEP-16 16:45 P96-8A	L1835022-68 Water 23-SEP-16 15:25 X17A	L1835022-69 Water 23-SEP-16 16:45 X17B	L1835022-70 Water 23-SEP-16 18:00 P09-ETA-2
Grouping	Analyte					
<b>WATER</b>						
<b>Physical Tests</b>	Conductivity (uS/cm)	7240	6890	549	1750	5100
	Hardness (as CaCO3) (mg/L)	6980	5980	306	980	4930
	pH (pH)	5.47	3.39	8.14	7.22	6.04
	Total Suspended Solids (mg/L)	11.2	11.5	<3.0	1150	67.0
<b>Anions and Nutrients</b>	Acidity (as CaCO3) (mg/L)	1860	1790	3.6	76.8	844
	Alkalinity, Total (as CaCO3) (mg/L)	40.0	<2.0	243	640	209
	Chloride (Cl) (mg/L)	<25	<25	<0.50	11.6	<25
	Sulfate (SO4) (mg/L)	9680	8680	58.9	511	5270
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)					
	Antimony (Sb)-Total (mg/L)					
	Arsenic (As)-Total (mg/L)					
	Barium (Ba)-Total (mg/L)					
	Beryllium (Be)-Total (mg/L)					
	Boron (B)-Total (mg/L)					
	Cadmium (Cd)-Total (mg/L)					
	Calcium (Ca)-Total (mg/L)					
	Chromium (Cr)-Total (mg/L)					
	Cobalt (Co)-Total (mg/L)					
	Copper (Cu)-Total (mg/L)					
	Iron (Fe)-Total (mg/L)					
	Lead (Pb)-Total (mg/L)					
	Lithium (Li)-Total (mg/L)					
	Magnesium (Mg)-Total (mg/L)					
	Manganese (Mn)-Total (mg/L)					
	Mercury (Hg)-Total (mg/L)					
	Molybdenum (Mo)-Total (mg/L)					
	Nickel (Ni)-Total (mg/L)					
	Potassium (K)-Total (mg/L)					
	Selenium (Se)-Total (mg/L)					
	Silver (Ag)-Total (mg/L)					
	Sodium (Na)-Total (mg/L)					
Thallium (Tl)-Total (mg/L)						
Titanium (Ti)-Total (mg/L)						
Uranium (U)-Total (mg/L)						
Vanadium (V)-Total (mg/L)						
Zinc (Zn)-Total (mg/L)						
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD

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

# ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1835022-71	L1835022-72	L1835022-73	L1835022-74	L1835022-75
		Description	Water	Water	Water	Water	Water
		Sampled Date	23-SEP-16		23-SEP-16	23-SEP-16	23-SEP-16
		Sampled Time	17:35		18:00	08:30	16:45
		Client ID	P03-09-06	TRAVEL BLANK	P03-09-09	SRK04-3A	P03-09-02
Grouping	Analyte						
<b>WATER</b>							
<b>Physical Tests</b>	Conductivity (uS/cm)		2040	<2.0	2140	6230	1800
	Hardness (as CaCO3) (mg/L)		1320	<0.50 <sup>HTC</sup>	1420	5310	1130
	pH (pH)		7.78	6.37	7.63	5.48	7.71
	Total Suspended Solids (mg/L)		13.8	<3.0	208	71.3	30.0
<b>Anions and Nutrients</b>	Acidity (as CaCO3) (mg/L)		22.2	1.6	27.6	2840	23.7
	Alkalinity, Total (as CaCO3) (mg/L)		360	<2.0	361	79.8	387
	Chloride (Cl) (mg/L)		<10 <sup>DLDS</sup>	<0.50	<10 <sup>DLDS</sup>	<25 <sup>DLDS</sup>	<10 <sup>DLDS</sup>
	Sulfate (SO4) (mg/L)		1100	<0.30	1190	8240	844
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)			<0.010			
	Antimony (Sb)-Total (mg/L)			<0.00050			
	Arsenic (As)-Total (mg/L)			<0.0010			
	Barium (Ba)-Total (mg/L)			<0.020			
	Beryllium (Be)-Total (mg/L)			<0.0050			
	Boron (B)-Total (mg/L)			<0.10			
	Cadmium (Cd)-Total (mg/L)			<0.000050			
	Calcium (Ca)-Total (mg/L)			<0.10			
	Chromium (Cr)-Total (mg/L)			<0.00050			
	Cobalt (Co)-Total (mg/L)			<0.00050			
	Copper (Cu)-Total (mg/L)			<0.0010			
	Iron (Fe)-Total (mg/L)			<0.030			
	Lead (Pb)-Total (mg/L)			<0.0010			
	Lithium (Li)-Total (mg/L)			<0.050			
	Magnesium (Mg)-Total (mg/L)			<0.10			
	Manganese (Mn)-Total (mg/L)			<0.010			
	Mercury (Hg)-Total (mg/L)			<0.00020			
	Molybdenum (Mo)-Total (mg/L)			<0.0010			
	Nickel (Ni)-Total (mg/L)			<0.0050			
	Potassium (K)-Total (mg/L)			<2.0			
	Selenium (Se)-Total (mg/L)			<0.0010			
	Silver (Ag)-Total (mg/L)			<0.000050			
	Sodium (Na)-Total (mg/L)			<2.0			
	Thallium (Tl)-Total (mg/L)			<0.00020			
Titanium (Ti)-Total (mg/L)			<0.050				
Uranium (U)-Total (mg/L)			<0.00020				
Vanadium (V)-Total (mg/L)			<0.030				
Zinc (Zn)-Total (mg/L)			<0.0050				
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location		FIELD		FIELD	FIELD	FIELD

\* 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	L1835022-76 Water 23-SEP-16 17:20 P03-09-04	L1835022-77 Water 23-SEP-16 17:47 P03-09-08	L1835022-78 Water 23-SEP-16 14:40 P01-02A	L1835022-79 Water 23-SEP-16 14:20 P01-02B	L1835022-80 Water 23-SEP-16 13:07 P05-03
Grouping	Analyte					
<b>WATER</b>						
<b>Physical Tests</b>	Conductivity (uS/cm)	2040	2110	748	557	1920
	Hardness (as CaCO3) (mg/L)	1340	1570	405	338	1320
	pH (pH)	7.70	7.87	8.04	8.17	7.76
	Total Suspended Solids (mg/L)	3.5	129	13.3	6.1	10.6
<b>Anions and Nutrients</b>	Acidity (as CaCO3) (mg/L)	23.7	18.5	6.5	2.4	23.1
	Alkalinity, Total (as CaCO3) (mg/L)	350	368	292	229	377
	Chloride (Cl) (mg/L)	<10 <sup>DLDS</sup>	<10 <sup>DLDS</sup>	<2.5 <sup>DLDS</sup>	<0.50	<10 <sup>DLDS</sup>
	Sulfate (SO4) (mg/L)	1130	1210	151	83.9	964
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)					
	Antimony (Sb)-Total (mg/L)					
	Arsenic (As)-Total (mg/L)					
	Barium (Ba)-Total (mg/L)					
	Beryllium (Be)-Total (mg/L)					
	Boron (B)-Total (mg/L)					
	Cadmium (Cd)-Total (mg/L)					
	Calcium (Ca)-Total (mg/L)					
	Chromium (Cr)-Total (mg/L)					
	Cobalt (Co)-Total (mg/L)					
	Copper (Cu)-Total (mg/L)					
	Iron (Fe)-Total (mg/L)					
	Lead (Pb)-Total (mg/L)					
	Lithium (Li)-Total (mg/L)					
	Magnesium (Mg)-Total (mg/L)					
	Manganese (Mn)-Total (mg/L)					
	Mercury (Hg)-Total (mg/L)					
	Molybdenum (Mo)-Total (mg/L)					
	Nickel (Ni)-Total (mg/L)					
	Potassium (K)-Total (mg/L)					
	Selenium (Se)-Total (mg/L)					
	Silver (Ag)-Total (mg/L)					
	Sodium (Na)-Total (mg/L)					
Thallium (Tl)-Total (mg/L)						
Titanium (Ti)-Total (mg/L)						
Uranium (U)-Total (mg/L)						
Vanadium (V)-Total (mg/L)						
Zinc (Zn)-Total (mg/L)						
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD

\* 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	L1835022-81 Water 23-SEP-16 13:07 FB-4	L1835022-82 Water 23-SEP-16 13:10 P05-02	L1835022-83 Water 23-SEP-16 13:10 DUP-6	L1835022-84 Water 23-SEP-16 12:10 P05-01-01	L1835022-85 Water 23-SEP-16 11:10 P05-01-05
Grouping	Analyte					
<b>WATER</b>						
<b>Physical Tests</b>	Conductivity (uS/cm)	<2.0	3330	3300	3270	3170
	Hardness (as CaCO3) (mg/L)	<0.50	2420	2420	2330	2430
	pH (pH)	6.23	6.57	6.56	6.53	6.61
	Total Suspended Solids (mg/L)	<3.0	24.0	16.0	52.9	23.2
<b>Anions and Nutrients</b>	Acidity (as CaCO3) (mg/L)	1.3	255	273	268	220
	Alkalinity, Total (as CaCO3) (mg/L)	<2.0	490	500 <sup>DLDS</sup>	490 <sup>DLDS</sup>	435 <sup>DLDS</sup>
	Chloride (Cl) (mg/L)	<0.50	<10	<10 <sup>DLDS</sup>	<10 <sup>DLDS</sup>	<10 <sup>DLDS</sup>
	Sulfate (SO4) (mg/L)	<0.30	2210	2190	2250	2220
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)					
	Antimony (Sb)-Total (mg/L)					
	Arsenic (As)-Total (mg/L)					
	Barium (Ba)-Total (mg/L)					
	Beryllium (Be)-Total (mg/L)					
	Boron (B)-Total (mg/L)					
	Cadmium (Cd)-Total (mg/L)					
	Calcium (Ca)-Total (mg/L)					
	Chromium (Cr)-Total (mg/L)					
	Cobalt (Co)-Total (mg/L)					
	Copper (Cu)-Total (mg/L)					
	Iron (Fe)-Total (mg/L)					
	Lead (Pb)-Total (mg/L)					
	Lithium (Li)-Total (mg/L)					
	Magnesium (Mg)-Total (mg/L)					
	Manganese (Mn)-Total (mg/L)					
	Mercury (Hg)-Total (mg/L)					
	Molybdenum (Mo)-Total (mg/L)					
	Nickel (Ni)-Total (mg/L)					
	Potassium (K)-Total (mg/L)					
	Selenium (Se)-Total (mg/L)					
	Silver (Ag)-Total (mg/L)					
	Sodium (Na)-Total (mg/L)					
Thallium (Tl)-Total (mg/L)						
Titanium (Ti)-Total (mg/L)						
Uranium (U)-Total (mg/L)						
Vanadium (V)-Total (mg/L)						
Zinc (Zn)-Total (mg/L)						
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD

\* 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	L1835022-86 Water 24-SEP-16 12:40 P09-GS1B	L1835022-87 Water 24-SEP-16 13:55 CH15-107-MW030	L1835022-88 Water 24-SEP-16 11:20 P2001-2B	L1835022-89 Water 24-SEP-16 10:40 V37	L1835022-90 Water 24-SEP-16 09:00 P09-LCD1
Grouping	Analyte					
<b>WATER</b>						
<b>Physical Tests</b>	Conductivity (uS/cm)	1510	1840	3430	1080	1150
	Hardness (as CaCO3) (mg/L)	963	1300	2880	654	694
	pH (pH)	7.60	7.63	7.21	8.14	8.02
	Total Suspended Solids (mg/L)	8.3	7.6	45.3	124	13.4
<b>Anions and Nutrients</b>	Acidity (as CaCO3) (mg/L)	19.0	12.9	125	6.2	7.7
	Alkalinity, Total (as CaCO3) (mg/L)	240	177	862	462	290
	Chloride (Cl) (mg/L)	<5.0 <sup>DLDS</sup>	<10 <sup>DLDS</sup>	<10 <sup>DLDS</sup>	<2.5 <sup>DLDS</sup>	<2.5 <sup>DLDS</sup>
	Sulfate (SO4) (mg/L)	711	1080	2140	225	436
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)					
	Antimony (Sb)-Total (mg/L)					
	Arsenic (As)-Total (mg/L)					
	Barium (Ba)-Total (mg/L)					
	Beryllium (Be)-Total (mg/L)					
	Boron (B)-Total (mg/L)					
	Cadmium (Cd)-Total (mg/L)					
	Calcium (Ca)-Total (mg/L)					
	Chromium (Cr)-Total (mg/L)					
	Cobalt (Co)-Total (mg/L)					
	Copper (Cu)-Total (mg/L)					
	Iron (Fe)-Total (mg/L)					
	Lead (Pb)-Total (mg/L)					
	Lithium (Li)-Total (mg/L)					
	Magnesium (Mg)-Total (mg/L)					
	Manganese (Mn)-Total (mg/L)					
	Mercury (Hg)-Total (mg/L)					
	Molybdenum (Mo)-Total (mg/L)					
	Nickel (Ni)-Total (mg/L)					
	Potassium (K)-Total (mg/L)					
	Selenium (Se)-Total (mg/L)					
	Silver (Ag)-Total (mg/L)					
	Sodium (Na)-Total (mg/L)					
	Thallium (Tl)-Total (mg/L)					
Titanium (Ti)-Total (mg/L)						
Uranium (U)-Total (mg/L)						
Vanadium (V)-Total (mg/L)						
Zinc (Zn)-Total (mg/L)						
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD

\* 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	L1835022-91	L1835022-92	L1835022-93	L1835022-94	L1835022-95
		Water 24-SEP-16 09:00 DUP-7	Water 24-SEP-16 10:20 P09-LCD6	Water 24-SEP-16 11:00 P2001-2A	Water 24-SEP-16 15:40 CH15-107-MW033	Water 24-SEP-16 12:15 P09-GS1A
Grouping	Analyte					
<b>WATER</b>						
<b>Physical Tests</b>	Conductivity (uS/cm)	1150	1080	3510	1540	1120
	Hardness (as CaCO3) (mg/L)	674	674	2990	1030	662
	pH (pH)	7.76	7.91	6.99	7.72	7.85
	Total Suspended Solids (mg/L)	13.9	18.5	57.8	<3.0	<3.0
<b>Anions and Nutrients</b>	Acidity (as CaCO3) (mg/L)	15.7	9.6	59	10.3	11.9
	Alkalinity, Total (as CaCO3) (mg/L)	290	268	882	166	217
	Chloride (Cl) (mg/L)	<2.5 <sup>DLDS</sup>	<2.5 <sup>DLDS</sup>	<10 <sup>DLDS</sup>	<5.0 <sup>DLDS</sup>	<2.5 <sup>DLDS</sup>
	Sulfate (SO4) (mg/L)	428	392	2350	826	483
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)					
	Antimony (Sb)-Total (mg/L)					
	Arsenic (As)-Total (mg/L)					
	Barium (Ba)-Total (mg/L)					
	Beryllium (Be)-Total (mg/L)					
	Boron (B)-Total (mg/L)					
	Cadmium (Cd)-Total (mg/L)					
	Calcium (Ca)-Total (mg/L)					
	Chromium (Cr)-Total (mg/L)					
	Cobalt (Co)-Total (mg/L)					
	Copper (Cu)-Total (mg/L)					
	Iron (Fe)-Total (mg/L)					
	Lead (Pb)-Total (mg/L)					
	Lithium (Li)-Total (mg/L)					
	Magnesium (Mg)-Total (mg/L)					
	Manganese (Mn)-Total (mg/L)					
	Mercury (Hg)-Total (mg/L)					
	Molybdenum (Mo)-Total (mg/L)					
	Nickel (Ni)-Total (mg/L)					
	Potassium (K)-Total (mg/L)					
	Selenium (Se)-Total (mg/L)					
	Silver (Ag)-Total (mg/L)					
	Sodium (Na)-Total (mg/L)					
Thallium (Tl)-Total (mg/L)						
Titanium (Ti)-Total (mg/L)						
Uranium (U)-Total (mg/L)						
Vanadium (V)-Total (mg/L)						
Zinc (Zn)-Total (mg/L)						
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD

\* 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	L1835022-96 Water 24-SEP-16 16:55 CH16-107-MW029	L1835022-97 Water 24-SEP-16 16:55 FB-5	L1835022-98 Water 24-SEP-16 14:55 CH15-107-MW034	L1835022-99 Water 24-SEP-16 14:55 DUP-9	L1835022-100 Water 24-SEP-16 19:00 BH14B
Grouping	Analyte					
<b>WATER</b>						
<b>Physical Tests</b>	Conductivity (uS/cm)	2100	<2.0	968	968	3340
	Hardness (as CaCO3) (mg/L)	1570	<0.50	560	573	2770
	pH (pH)	7.94	5.76	7.70	7.83	7.64
	Total Suspended Solids (mg/L)	3.5	<3.0	17.1	20.2	18.8
<b>Anions and Nutrients</b>	Acidity (as CaCO3) (mg/L)	9.2	1.2	8.4	5.3	43.8
	Alkalinity, Total (as CaCO3) (mg/L)	199	<2.0	119	118	465
	Chloride (Cl) (mg/L)	<10	DLDS	<0.50	DLDS	<2.5
	Sulfate (SO4) (mg/L)	1310	DLDS	<2.5	DLDS	<10
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)					
	Antimony (Sb)-Total (mg/L)					
	Arsenic (As)-Total (mg/L)					
	Barium (Ba)-Total (mg/L)					
	Beryllium (Be)-Total (mg/L)					
	Boron (B)-Total (mg/L)					
	Cadmium (Cd)-Total (mg/L)					
	Calcium (Ca)-Total (mg/L)					
	Chromium (Cr)-Total (mg/L)					
	Cobalt (Co)-Total (mg/L)					
	Copper (Cu)-Total (mg/L)					
	Iron (Fe)-Total (mg/L)					
	Lead (Pb)-Total (mg/L)					
	Lithium (Li)-Total (mg/L)					
	Magnesium (Mg)-Total (mg/L)					
	Manganese (Mn)-Total (mg/L)					
	Mercury (Hg)-Total (mg/L)					
	Molybdenum (Mo)-Total (mg/L)					
	Nickel (Ni)-Total (mg/L)					
	Potassium (K)-Total (mg/L)					
	Selenium (Se)-Total (mg/L)					
	Silver (Ag)-Total (mg/L)					
	Sodium (Na)-Total (mg/L)					
Thallium (Tl)-Total (mg/L)						
Titanium (Ti)-Total (mg/L)						
Uranium (U)-Total (mg/L)						
Vanadium (V)-Total (mg/L)						
Zinc (Zn)-Total (mg/L)						
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD

\* 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	L1835022-101	L1835022-102	L1835022-103	L1835022-104	L1835022-105
	Water	Water	Water	Water	Water	Water
	24-SEP-16	24-SEP-16	24-SEP-16	24-SEP-16	24-SEP-16	24-SEP-16
	08:50	09:50	09:50	13:00	11:52	13:20
	P03-04-02	P03-04-04	P03-04-04	P03-06-03	P03-06-01	P03-06-04
Grouping	Analyte					
<b>WATER</b>						
<b>Physical Tests</b>	Conductivity (uS/cm)	2150	1530	4560	4700	2760
	Hardness (as CaCO3) (mg/L)	1460	743	1500	1790	1550
	pH (pH)	7.53	7.99	4.16	3.99	5.15
	Total Suspended Solids (mg/L)	94.4	3200	340	103	130
<b>Anions and Nutrients</b>	Acidity (as CaCO3) (mg/L)	15.1	7.4	3330	2670	948
	Alkalinity, Total (as CaCO3) (mg/L)	135	223	<1.0	<1.0	16.6
	Chloride (Cl) (mg/L)	<10	<5.0	<25	<25	<10
	Sulfate (SO4) (mg/L)	1480	728	5360	5410	2350
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)					
	Antimony (Sb)-Total (mg/L)					
	Arsenic (As)-Total (mg/L)					
	Barium (Ba)-Total (mg/L)					
	Beryllium (Be)-Total (mg/L)					
	Boron (B)-Total (mg/L)					
	Cadmium (Cd)-Total (mg/L)					
	Calcium (Ca)-Total (mg/L)					
	Chromium (Cr)-Total (mg/L)					
	Cobalt (Co)-Total (mg/L)					
	Copper (Cu)-Total (mg/L)					
	Iron (Fe)-Total (mg/L)					
	Lead (Pb)-Total (mg/L)					
	Lithium (Li)-Total (mg/L)					
	Magnesium (Mg)-Total (mg/L)					
	Manganese (Mn)-Total (mg/L)					
	Mercury (Hg)-Total (mg/L)					
	Molybdenum (Mo)-Total (mg/L)					
	Nickel (Ni)-Total (mg/L)					
	Potassium (K)-Total (mg/L)					
	Selenium (Se)-Total (mg/L)					
	Silver (Ag)-Total (mg/L)					
	Sodium (Na)-Total (mg/L)					
Thallium (Tl)-Total (mg/L)						
Titanium (Ti)-Total (mg/L)						
Uranium (U)-Total (mg/L)						
Vanadium (V)-Total (mg/L)						
Zinc (Zn)-Total (mg/L)						
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD

\* 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	L1835022-106 Water 24-SEP-16 10:55 P03-05-05	L1835022-107 Water 24-SEP-16 11:45 P03-06-05	L1835022-108 Water 24-SEP-16 14:50 BH10A	L1835022-109 Water 24-SEP-16 14:50 DUP-8	L1835022-110 Water 24-SEP-16 16:45 CH14-107-MW001
Grouping	Analyte					
<b>WATER</b>						
<b>Physical Tests</b>	Conductivity (uS/cm)	6880	3740	337	330	961
	Hardness (as CaCO3) (mg/L)	1780	1500	163	165	451
	pH (pH)	3.48	4.11	6.89	7.57	5.83
	Total Suspended Solids (mg/L)	1170	1430	17.7	20.8	12.3
<b>Anions and Nutrients</b>	Acidity (as CaCO3) (mg/L)	5450	2120	16.0	8.9	555
	Alkalinity, Total (as CaCO3) (mg/L)	<2.0	<1.0	126	125	218
	Chloride (Cl) (mg/L)	<25 <small>DLDS</small>	<10 <small>DLDS</small>	<0.50	<0.50	<2.5 <small>DLDS</small>
	Sulfate (SO4) (mg/L)	8720	3670	45.9	45.9	352
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)					
	Antimony (Sb)-Total (mg/L)					
	Arsenic (As)-Total (mg/L)					
	Barium (Ba)-Total (mg/L)					
	Beryllium (Be)-Total (mg/L)					
	Boron (B)-Total (mg/L)					
	Cadmium (Cd)-Total (mg/L)					
	Calcium (Ca)-Total (mg/L)					
	Chromium (Cr)-Total (mg/L)					
	Cobalt (Co)-Total (mg/L)					
	Copper (Cu)-Total (mg/L)					
	Iron (Fe)-Total (mg/L)					
	Lead (Pb)-Total (mg/L)					
	Lithium (Li)-Total (mg/L)					
	Magnesium (Mg)-Total (mg/L)					
	Manganese (Mn)-Total (mg/L)					
	Mercury (Hg)-Total (mg/L)					
	Molybdenum (Mo)-Total (mg/L)					
	Nickel (Ni)-Total (mg/L)					
	Potassium (K)-Total (mg/L)					
	Selenium (Se)-Total (mg/L)					
	Silver (Ag)-Total (mg/L)					
	Sodium (Na)-Total (mg/L)					
	Thallium (Tl)-Total (mg/L)					
Titanium (Ti)-Total (mg/L)						
Uranium (U)-Total (mg/L)						
Vanadium (V)-Total (mg/L)						
Zinc (Zn)-Total (mg/L)						
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD

\* 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	L1835022-111 Water 24-SEP-16 15:13 BH10B	L1835022-112 Water 24-SEP-16 15:40 P05-04	L1835022-113 Water 24-SEP-16 16:10 CH14-107-MW002	L1835022-114 Water 24-SEP-16 16:10 DUP-10	L1835022-115 Water 24-SEP-16 18:52 BH14A
Grouping	Analyte					
<b>WATER</b>						
<b>Physical Tests</b>	Conductivity (uS/cm)	409	463	637	635	3750
	Hardness (as CaCO3) (mg/L)	207	236	309	305	3250
	pH (pH)	7.45	6.90	6.38	6.93	7.59
	Total Suspended Solids (mg/L)	45.4	<3.0	<3.0	3.3	8.6
<b>Anions and Nutrients</b>	Acidity (as CaCO3) (mg/L)	12.4	44.9	65.5	46.8	79.3
	Alkalinity, Total (as CaCO3) (mg/L)	143	149	49.0	49.1	489
	Chloride (Cl) (mg/L)	<0.50	<0.50	<2.5	<2.5	<10
	Sulfate (SO4) (mg/L)	69.7	90.4	285	290	2940
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)					
	Antimony (Sb)-Total (mg/L)					
	Arsenic (As)-Total (mg/L)					
	Barium (Ba)-Total (mg/L)					
	Beryllium (Be)-Total (mg/L)					
	Boron (B)-Total (mg/L)					
	Cadmium (Cd)-Total (mg/L)					
	Calcium (Ca)-Total (mg/L)					
	Chromium (Cr)-Total (mg/L)					
	Cobalt (Co)-Total (mg/L)					
	Copper (Cu)-Total (mg/L)					
	Iron (Fe)-Total (mg/L)					
	Lead (Pb)-Total (mg/L)					
	Lithium (Li)-Total (mg/L)					
	Magnesium (Mg)-Total (mg/L)					
	Manganese (Mn)-Total (mg/L)					
	Mercury (Hg)-Total (mg/L)					
	Molybdenum (Mo)-Total (mg/L)					
	Nickel (Ni)-Total (mg/L)					
	Potassium (K)-Total (mg/L)					
	Selenium (Se)-Total (mg/L)					
	Silver (Ag)-Total (mg/L)					
	Sodium (Na)-Total (mg/L)					
Thallium (Tl)-Total (mg/L)						
Titanium (Ti)-Total (mg/L)						
Uranium (U)-Total (mg/L)						
Vanadium (V)-Total (mg/L)						
Zinc (Zn)-Total (mg/L)						
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD

\* 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	L1835022-116 Water 24-SEP-16 18:52 DUP-11	L1835022-117 Water 25-SEP-16 09:35 P09-LCD4	L1835022-118 Water 25-SEP-16 09:15 BH8	L1835022-119 Water 25-SEP-16 09:35 CH15-107-MW032
Grouping	Analyte				
<b>WATER</b>					
<b>Physical Tests</b>	Conductivity (uS/cm)	3700	795	3510	2440
	Hardness (as CaCO3) (mg/L)	3160	354	1600	1650
	pH (pH)	7.71	8.27	4.37	7.97
	Total Suspended Solids (mg/L)	7.4	58.8	66.8	40.3
<b>Anions and Nutrients</b>	Acidity (as CaCO3) (mg/L)	75.3	1.0	1670	11.8
	Alkalinity, Total (as CaCO3) (mg/L)	494	364	<2.0	280
	Chloride (Cl) (mg/L)	<10	<2.5	<10	17
	Sulfate (SO4) (mg/L)	2710	112	3210	1540
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)				
	Antimony (Sb)-Total (mg/L)				
	Arsenic (As)-Total (mg/L)				
	Barium (Ba)-Total (mg/L)				
	Beryllium (Be)-Total (mg/L)				
	Boron (B)-Total (mg/L)				
	Cadmium (Cd)-Total (mg/L)				
	Calcium (Ca)-Total (mg/L)				
	Chromium (Cr)-Total (mg/L)				
	Cobalt (Co)-Total (mg/L)				
	Copper (Cu)-Total (mg/L)				
	Iron (Fe)-Total (mg/L)				
	Lead (Pb)-Total (mg/L)				
	Lithium (Li)-Total (mg/L)				
	Magnesium (Mg)-Total (mg/L)				
	Manganese (Mn)-Total (mg/L)				
	Mercury (Hg)-Total (mg/L)				
	Molybdenum (Mo)-Total (mg/L)				
	Nickel (Ni)-Total (mg/L)				
	Potassium (K)-Total (mg/L)				
	Selenium (Se)-Total (mg/L)				
	Silver (Ag)-Total (mg/L)				
	Sodium (Na)-Total (mg/L)				
	Thallium (Tl)-Total (mg/L)				
Titanium (Ti)-Total (mg/L)					
Uranium (U)-Total (mg/L)					
Vanadium (V)-Total (mg/L)					
Zinc (Zn)-Total (mg/L)					
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD

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

## ALS ENVIRONMENTAL ANALYTICAL REPORT

11-OCT-16 13:52 (MT)

Version: FINAL

Sample ID	Description	Sampled Date	Sampled Time	Client ID	L1835022-1	L1835022-2	L1835022-3	L1835022-4	L1835022-5
					Water	Water	Water	Water	Water
		20-SEP-16	14:25	SRK05-SP-4A	20-SEP-16	20-SEP-16	20-SEP-16	20-SEP-16	20-SEP-16
					15:55	13:50	17:45	15:15	
					P09-SIS2	SRK05-SP-4B	P09-SIS1	P09-SIS3	
Grouping	Analyte								
<b>WATER</b>									
<b>Dissolved Metals</b>	Aluminum (Al)-Dissolved (mg/L)	0.025	0.56	0.12	0.039	0.28			
	Antimony (Sb)-Dissolved (mg/L)	<0.00050	<0.010 <sup>DLA</sup>	<0.010 <sup>DLA</sup>	<0.0020 <sup>DLA</sup>	<0.010 <sup>DLA</sup>			
	Arsenic (As)-Dissolved (mg/L)	<0.0010	<0.010 <sup>DLHC</sup>	<0.010 <sup>DLHC</sup>	0.0027 <sup>DLHC</sup>	<0.010 <sup>DLHC</sup>			
	Barium (Ba)-Dissolved (mg/L)	<0.020	<0.050 <sup>DLHC</sup>	<0.050 <sup>DLHC</sup>	<0.030 <sup>DLHC</sup>	<0.050 <sup>DLHC</sup>			
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.025 <sup>DLHC</sup>	<0.025 <sup>DLHC</sup>	<0.015 <sup>DLHC</sup>	<0.025 <sup>DLHC</sup>			
	Boron (B)-Dissolved (mg/L)	<0.10	<0.50	<0.50	<0.30	<0.50			
	Cadmium (Cd)-Dissolved (mg/L)	0.00108	0.356	0.221	0.0382	0.533			
	Calcium (Ca)-Dissolved (mg/L)	177	424	430	570	430			
	Chromium (Cr)-Dissolved (mg/L)	<0.00050	<0.010 <sup>DLA</sup>	<0.010 <sup>DLA</sup>	<0.0020 <sup>DLA</sup>	<0.010 <sup>DLA</sup>			
	Cobalt (Co)-Dissolved (mg/L)	0.0253	1.73 <sup>DLA</sup>	0.063 <sup>DLA</sup>	0.250	2.16			
	Copper (Cu)-Dissolved (mg/L)	<0.0010	<0.020	<0.020	0.0046	0.038			
	Iron (Fe)-Dissolved (mg/L)	23.0	0.57 <sup>DLA</sup>	47.6 <sup>DLA</sup>	25.1	0.23 <sup>DLA</sup>			
	Lead (Pb)-Dissolved (mg/L)	<0.0010	<0.0050	<0.0050	<0.0010	<0.0050			
	Lithium (Li)-Dissolved (mg/L)	0.061	0.246	0.217	0.237	0.237			
	Magnesium (Mg)-Dissolved (mg/L)	83.6	1880	1640	1180	2080			
	Manganese (Mn)-Dissolved (mg/L)	2.80	114 <sup>DLA</sup>	92.1 <sup>DLA</sup>	63.9	166 <sup>DLA</sup>			
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0010	<0.0050	<0.0050	0.0010	<0.0050			
	Nickel (Ni)-Dissolved (mg/L)	0.0635	2.76	3.42	0.782	3.67			
	Potassium (K)-Dissolved (mg/L)	5.5	16 <sup>DLA</sup>	15 <sup>DLA</sup>	12.7	17 <sup>DLA</sup>			
	Selenium (Se)-Dissolved (mg/L)	<0.0010	<0.0050 <sup>DLA</sup>	<0.0050 <sup>DLA</sup>	<0.0010 <sup>DLA</sup>	<0.0050 <sup>DLA</sup>			
	Silver (Ag)-Dissolved (mg/L)	<0.000050	<0.0010 <sup>DLA</sup>	<0.0010 <sup>DLA</sup>	<0.00020 <sup>DLA</sup>	<0.0010 <sup>DLA</sup>			
	Sodium (Na)-Dissolved (mg/L)	11.1	86 <sup>DLA</sup>	46 <sup>DLA</sup>	44.2	72 <sup>DLA</sup>			
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.0010 <sup>DLA</sup>	<0.0010 <sup>DLA</sup>	<0.00020	<0.0010 <sup>DLA</sup>			
	Titanium (Ti)-Dissolved (mg/L)	<0.050	<0.050	<0.050 <sup>DLA</sup>	<0.050	<0.050			
	Uranium (U)-Dissolved (mg/L)	0.00167	0.0013 <sup>DLHC</sup>	<0.0010 <sup>DLHC</sup>	0.00224 <sup>DLHC</sup>	0.0012 <sup>DLHC</sup>			
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.15	<0.15	<0.090	<0.15			
	Zinc (Zn)-Dissolved (mg/L)	8.31	569	634	175	752			

\* 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	L1835022-6 Water 20-SEP-16 12:55 P09-SIS4	L1835022-7 Water 20-SEP-16 11:16 P09-SIS6	L1835022-8 Water 20-SEP-16 16:40 SRK08-SBR2	L1835022-9 Water 20-SEP-16 16:40 FB-1	L1835022-10 Water 20-SEP-16 16:40 DUP-2
Grouping	Analyte					
<b>WATER</b>						
<b>Dissolved Metals</b>	Aluminum (Al)-Dissolved (mg/L)	<sup>DLA</sup> <0.020	<0.010	1.17	<0.010	0.041
	Antimony (Sb)-Dissolved (mg/L)	<sup>DLA</sup> <0.0020	<0.00050	<0.00050	<0.00050	<0.00050
	Arsenic (As)-Dissolved (mg/L)	<sup>DLA</sup> <0.0020	0.0014	<0.0010	<0.0010	<0.0010
	Barium (Ba)-Dissolved (mg/L)	<sup>DLHC</sup> <0.050	<0.020	<0.020	<0.020	<0.020
	Beryllium (Be)-Dissolved (mg/L)	<sup>DLHC</sup> <0.025	<sup>DLHC</sup> <0.010	<0.0050	<0.0050	<0.0050
	Boron (B)-Dissolved (mg/L)	<sup>DLHC</sup> <0.50	<sup>DLHC</sup> <0.20	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.0294	0.000574	0.00615	<0.000050	0.00609
	Calcium (Ca)-Dissolved (mg/L)	469	485	230	<0.10	225
	Chromium (Cr)-Dissolved (mg/L)	<sup>DLA</sup> <0.0020	<0.00050	<0.00050	<0.00050	<0.00050
	Cobalt (Co)-Dissolved (mg/L)	0.0212	0.0105	0.0463	<0.00050	0.0470
	Copper (Cu)-Dissolved (mg/L)	0.0108	<0.0010	0.0049	<0.0010	0.0047
	Iron (Fe)-Dissolved (mg/L)	<0.15 <sup>DLHC</sup>	41.6	0.525	<0.030	0.504
	Lead (Pb)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Lithium (Li)-Dissolved (mg/L)	0.127	0.066	0.110	<0.050	0.101
	Magnesium (Mg)-Dissolved (mg/L)	1630	812	241	<0.10	241
	Manganese (Mn)-Dissolved (mg/L)	37.7	17.0	12.7	<0.010	12.2
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Nickel (Ni)-Dissolved (mg/L)	0.948	0.0793	0.171	<0.0050	0.173
	Potassium (K)-Dissolved (mg/L)	12	6.8	7.8	<2.0	7.2
	Selenium (Se)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Silver (Ag)-Dissolved (mg/L)	<sup>DLA</sup> <0.00020	<0.000050	<0.000050	<0.000050	<0.000050
	Sodium (Na)-Dissolved (mg/L)	37	77.5	16.5	<2.0	14.9
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Titanium (Ti)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Uranium (U)-Dissolved (mg/L)	0.0233	0.0103	0.00101	<0.00020	0.00098
	Vanadium (V)-Dissolved (mg/L)	<sup>DLHC</sup> <0.15	<sup>DLHC</sup> <0.060	<0.030	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)	123	33.1	33.1	<0.0050	33.6

\* 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	L1835022-11 Water 20-SEP-16 16:00 S1A	L1835022-12 Water 20-SEP-16 14:20 SRK08-SP7B	L1835022-13 Water 20-SEP-16 12:30 CH14-107- MW007A	L1835022-14 Water 20-SEP-16 14:50 SRK08-SP7A	L1835022-15 Water 20-SEP-16 13:10 CH14-107- MW007B
Grouping	Analyte					
<b>WATER</b>						
<b>Dissolved Metals</b>	Aluminum (Al)-Dissolved (mg/L)	0.022	0.039	0.056 <sup>DLA</sup>	<0.010	0.040
	Antimony (Sb)-Dissolved (mg/L)	<0.00050	<0.00050	<0.0020 <sup>DLA</sup>	<0.00050	<0.00050
	Arsenic (As)-Dissolved (mg/L)	<0.0010	0.0034	0.0270	0.0056	0.0140
	Barium (Ba)-Dissolved (mg/L)	<0.020	0.057	0.025	<0.020	0.030
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.0050	<0.010 <sup>DLHC</sup>	<0.0050	<0.0050
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.20 <sup>DLHC</sup>	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.00170	<0.000050	0.00912	0.000059	<0.000050
	Calcium (Ca)-Dissolved (mg/L)	248	10.2	386 <sup>DLA</sup>	233	244
	Chromium (Cr)-Dissolved (mg/L)	<0.00050	0.00050	<0.0020 <sup>DLA</sup>	<0.00050	<0.00050
	Cobalt (Co)-Dissolved (mg/L)	0.0377	0.00084	0.0113 <sup>DLA</sup>	0.0105	0.00454
	Copper (Cu)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0040 <sup>DLA</sup>	<0.0010	<0.0010
	Iron (Fe)-Dissolved (mg/L)	18.5	1.98	34.4	27.2	24.9
	Lead (Pb)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Lithium (Li)-Dissolved (mg/L)	0.053	<0.050	0.108	0.054	<0.050
	Magnesium (Mg)-Dissolved (mg/L)	152	14.9	605	94.0	108
	Manganese (Mn)-Dissolved (mg/L)	7.59	0.841	23.0	2.39	2.75
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Nickel (Ni)-Dissolved (mg/L)	0.0936	0.0093	0.700	0.0256	0.0184
	Potassium (K)-Dissolved (mg/L)	5.9	<2.0	10.3	6.1	5.1
	Selenium (Se)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Silver (Ag)-Dissolved (mg/L)	<0.000050	<0.000050	<0.00020 <sup>DLA</sup>	<0.000050	<0.000050
	Sodium (Na)-Dissolved (mg/L)	14.2	2.6	30.3	11.3	10.9
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Titanium (Ti)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Uranium (U)-Dissolved (mg/L)	0.00311	<0.00020	0.00089 <sup>DLHC</sup>	0.00099	0.00045
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.060 <sup>DLHC</sup>	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)	19.5	2.41	106	0.882	3.38

\* 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	L1835022-16	L1835022-17	L1835022-18	L1835022-19	L1835022-20
					Water	Water	Water	Water	Water
		20-SEP-16	13:10	DUP-1	20-SEP-16	20-SEP-16	20-SEP-16	21-SEP-16	21-SEP-16
						10:55	11:50	10:25	09:55
					DUP-1	CH14-107-MW009	CH14-107-MW010	SRK08-SBR3	SRK08-SBR4
Grouping	Analyte								
<b>WATER</b>									
<b>Dissolved Metals</b>	Aluminum (Al)-Dissolved (mg/L)	0.038	0.029	0.056	<0.010	0.052			DLA
	Antimony (Sb)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050			DLA
	Arsenic (As)-Dissolved (mg/L)	0.0152	0.0036	0.0068	<0.0010	<0.0050			DLHC
	Barium (Ba)-Dissolved (mg/L)	0.030	0.026	0.023	<0.020	<0.050			DLHC
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.025			DLHC
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.50			
	Cadmium (Cd)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	0.143			
	Calcium (Ca)-Dissolved (mg/L)	241	211	111	486	426			DLA
	Chromium (Cr)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.0050			DLA
	Cobalt (Co)-Dissolved (mg/L)	0.00442	0.00639	0.00430	<0.00050	1.09			
	Copper (Cu)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	0.010			
	Iron (Fe)-Dissolved (mg/L)	24.4	20.1	21.9	<0.030	2.34			DLA
	Lead (Pb)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0025			
	Lithium (Li)-Dissolved (mg/L)	<0.050	0.056	0.090	0.068	0.234			
	Magnesium (Mg)-Dissolved (mg/L)	105	73.5	41.4	370	1590			
	Manganese (Mn)-Dissolved (mg/L)	2.71	1.50	0.962	<0.010	87.4			DLA
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0025			
	Nickel (Ni)-Dissolved (mg/L)	0.0179	0.0149	0.0178	0.0256	2.16			
	Potassium (K)-Dissolved (mg/L)	5.0	6.4	5.6	8.3	15			DLA
	Selenium (Se)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	0.0013	<0.0025			DLA
	Silver (Ag)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.00050			DLA
	Sodium (Na)-Dissolved (mg/L)	10.7	12.7	13.1	49.0	70			DLA
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00050			
	Titanium (Ti)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050			
	Uranium (U)-Dissolved (mg/L)	0.00044	0.00249	<0.00020	0.0343	0.00134			DLHC
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.030	<0.030	<0.15			
	Zinc (Zn)-Dissolved (mg/L)	3.30	0.762	1.17	0.0542	409			

\* 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	L1835022-21 Water 21-SEP-16 09:05 SRK05-SP-5	L1835022-22 Water 21-SEP-16 12:52 CH15-107-MW025	L1835022-23 Water 21-SEP-16 11:25 P96-7	L1835022-24 Water 21-SEP-16 15:55 P03-05-02	L1835022-25 Water 21-SEP-16 17:12 P03-05-04	
Grouping	Analyte					
<b>WATER</b>						
<b>Dissolved Metals</b>	Aluminum (Al)-Dissolved (mg/L)	0.13	0.011	<0.010	0.033	0.012
	Antimony (Sb)-Dissolved (mg/L)	<0.010 <sup>DLA</sup>	<0.00050	<0.00050	<0.0010 <sup>DLA</sup>	<0.0010 <sup>DLA</sup>
	Arsenic (As)-Dissolved (mg/L)	<0.010 <sup>DLA</sup>	0.0016	<0.0010	0.0075	<0.0010
	Barium (Ba)-Dissolved (mg/L)	<0.050 <sup>DLHC</sup>	0.093	<0.020	0.024	0.023
	Beryllium (Be)-Dissolved (mg/L)	<0.025 <sup>DLHC</sup>	<0.0050	<0.0050	<0.0050	<0.0050
	Boron (B)-Dissolved (mg/L)	<0.50 <sup>DLHC</sup>	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.389	<0.000050	0.000064	0.000846	0.00180
	Calcium (Ca)-Dissolved (mg/L)	422	205	472	280	323
	Chromium (Cr)-Dissolved (mg/L)	<0.010 <sup>DLA</sup>	0.00075	<0.00050	<0.0010 <sup>DLA</sup>	<0.0010 <sup>DLA</sup>
	Cobalt (Co)-Dissolved (mg/L)	1.85	0.00112	<0.00050	0.722	0.320
	Copper (Cu)-Dissolved (mg/L)	<0.020 <sup>DLA</sup>	<0.0010	<0.0010	<0.0020 <sup>DLA</sup>	<0.0020 <sup>DLA</sup>
	Iron (Fe)-Dissolved (mg/L)	2.43	1.61	<0.030	263	137
	Lead (Pb)-Dissolved (mg/L)	<0.0050 <sup>DLA</sup>	<0.0010	<0.0010	<0.0010	<0.0010
	Lithium (Li)-Dissolved (mg/L)	0.224	0.143	<0.050	0.068	0.060
	Magnesium (Mg)-Dissolved (mg/L)	1860	57.8	213	48.7	57.4
	Manganese (Mn)-Dissolved (mg/L)	127	3.56	<0.010	59.4	58.3
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0050 <sup>DLA</sup>	0.0013	<0.0010	<0.0010	<0.0010
	Nickel (Ni)-Dissolved (mg/L)	3.03	<0.0050	<0.0050	0.900	0.162
	Potassium (K)-Dissolved (mg/L)	16	7.3	5.6	4.9	4.2
	Selenium (Se)-Dissolved (mg/L)	<0.0050 <sup>DLA</sup>	<0.0010	<0.0010	<0.0010	<0.0010
	Silver (Ag)-Dissolved (mg/L)	<0.0010 <sup>DLA</sup>	<0.000050	<0.000050	<0.00010 <sup>DLA</sup>	<0.00010 <sup>DLA</sup>
	Sodium (Na)-Dissolved (mg/L)	71	512	21.7	13.0	15.5
	Thallium (Tl)-Dissolved (mg/L)	<0.0010 <sup>DLA</sup>	<0.00020	<0.00020	<0.00020	<0.00020
	Titanium (Ti)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Uranium (U)-Dissolved (mg/L)	0.0026	0.0858	0.0293	0.00122	0.00048
	Vanadium (V)-Dissolved (mg/L)	<0.15 <sup>DLHC</sup>	<0.030	<0.030	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)	596	0.0386	<0.0050	45.6	2.26

\* 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	L1835022-26 Water 21-SEP-16 15:15 P03-04-06	L1835022-27 Water 21-SEP-16 11:10 CH15-107-MW022	L1835022-28 Water 21-SEP-16 17:15 P03-06-2	L1835022-29 Water 21-SEP-16 13:30 CH15-107-MW023	L1835022-30 Water 21-SEP-16 11:50 CH15-107-MW019	
Grouping	Analyte					
<b>WATER</b>						
<b>Dissolved Metals</b>	Aluminum (Al)-Dissolved (mg/L)	<0.010 <sup>DLA</sup>	<0.010	4.02 <sup>DLA</sup>	0.043	0.026
	Antimony (Sb)-Dissolved (mg/L)	<0.0010	<0.00050	<0.0020	<0.00050	<0.00050
	Arsenic (As)-Dissolved (mg/L)	0.0167 <sup>DLHC</sup>	0.0022	0.0040 <sup>DLHC</sup>	0.0056	0.0176
	Barium (Ba)-Dissolved (mg/L)	<0.030 <sup>DLHC</sup>	0.025	<0.030 <sup>DLHC</sup>	0.182	<0.020
	Beryllium (Be)-Dissolved (mg/L)	<0.015 <sup>DLHC</sup>	<0.0050	<0.015 <sup>DLHC</sup>	<0.0050	<0.0050
	Boron (B)-Dissolved (mg/L)	<0.30 <sup>DLHC</sup>	<0.10	<0.30 <sup>DLHC</sup>	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	<0.000050	<0.000050	0.0389	<0.000050	0.000083
	Calcium (Ca)-Dissolved (mg/L)	499	221	453 <sup>DLA</sup>	111	607
	Chromium (Cr)-Dissolved (mg/L)	<0.0010 <sup>DLA</sup>	<0.00050	<0.0020	<0.00050	<0.00050
	Cobalt (Co)-Dissolved (mg/L)	0.0313	0.00179	1.64	0.00149	0.00581
	Copper (Cu)-Dissolved (mg/L)	<0.0020 <sup>DLA</sup>	<0.0010	0.0238	<0.0010	<0.0010
	Iron (Fe)-Dissolved (mg/L)	1290	9.22	1470	2.14	29.8
	Lead (Pb)-Dissolved (mg/L)	<0.0010	<0.0010	0.0291	<0.0010	<0.0010
	Lithium (Li)-Dissolved (mg/L)	<0.050	0.117	0.133	0.091	0.252
	Magnesium (Mg)-Dissolved (mg/L)	118	90.2	191	52.9	277
	Manganese (Mn)-Dissolved (mg/L)	14.4	0.671	143	0.316	2.87
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0010	<0.0010	0.0016	0.0033	<0.0010
	Nickel (Ni)-Dissolved (mg/L)	0.0764	<0.0050	1.80	<0.0050	0.0165
	Potassium (K)-Dissolved (mg/L)	9.3	7.4	8.3	4.7	9.2
	Selenium (Se)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Silver (Ag)-Dissolved (mg/L)	<0.00010 <sup>DLA</sup>	<0.000050	<0.00020 <sup>DLA</sup>	<0.000050	<0.000050
	Sodium (Na)-Dissolved (mg/L)	58.8	12.2	21.7	24.4	41.1
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Titanium (Ti)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Uranium (U)-Dissolved (mg/L)	0.00209	0.00065	0.00359	0.00469	0.00215
	Vanadium (V)-Dissolved (mg/L)	<0.090 <sup>DLHC</sup>	<0.030	<0.090 <sup>DLHC</sup>	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)	1.23	0.0640	50.6	0.0589	0.0342

\* 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	L1835022-31 Water 21-SEP-16 09:30 S1B	L1835022-32 Water 21-SEP-16 09:10 S2A	L1835022-33 Water 21-SEP-16 08:20 S2B	L1835022-34 Water 22-SEP-16 14:50 SRK05-07	L1835022-35 Water 22-SEP-16 15:35 SRK05-08
Grouping	Analyte					
<b>WATER</b>						
<b>Dissolved Metals</b>	Aluminum (Al)-Dissolved (mg/L)	<0.010	0.013	<0.10 <sup>DLA</sup>	<0.010	<0.010
	Antimony (Sb)-Dissolved (mg/L)	<0.00050	<0.00050	<0.010 <sup>DLA</sup>	0.00059	<0.00050
	Arsenic (As)-Dissolved (mg/L)	<0.0010	<0.0010	<0.010 <sup>DLA</sup>	0.0031	<0.0010
	Barium (Ba)-Dissolved (mg/L)	0.049	<0.020	<0.050 <sup>DLHC</sup>	0.044	<0.020
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.0050	<0.025 <sup>DLHC</sup>	<0.0050	<0.0050
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.50 <sup>DLHC</sup>	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.000143	0.00103	0.170	0.000094	0.000187
	Calcium (Ca)-Dissolved (mg/L)	126	281	509	488	430
	Chromium (Cr)-Dissolved (mg/L)	<0.00050	<0.00050	<0.010 <sup>DLA</sup>	<0.00050	0.00054
	Cobalt (Co)-Dissolved (mg/L)	<0.00050	0.0220	1.97	0.00257	0.00064
	Copper (Cu)-Dissolved (mg/L)	0.0031	<0.0010	<0.020 <sup>DLA</sup>	0.0013	0.0030
	Iron (Fe)-Dissolved (mg/L)	<0.030	22.6	24.9	<0.030	<0.030
	Lead (Pb)-Dissolved (mg/L)	<0.0010	0.0023	<0.0050 <sup>DLA</sup>	<0.0010	<0.0010
	Lithium (Li)-Dissolved (mg/L)	<0.050	0.058	0.228	<0.050	<0.050
	Magnesium (Mg)-Dissolved (mg/L)	33.3	124	1920	337	254
	Manganese (Mn)-Dissolved (mg/L)	0.017	4.38	151	0.025	<0.010
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0050 <sup>DLA</sup>	<0.0010	<0.0010
	Nickel (Ni)-Dissolved (mg/L)	<0.0050	0.0409	2.95	0.0462	<0.0050
	Potassium (K)-Dissolved (mg/L)	3.2	6.2	16	2.7	2.2
	Selenium (Se)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0050 <sup>DLA</sup>	<0.0010	<0.0010
	Silver (Ag)-Dissolved (mg/L)	<0.000050	<0.000050	<0.0010 <sup>DLA</sup>	<0.000050	<0.000050
	Sodium (Na)-Dissolved (mg/L)	28.9	12.6	69	14.4	12.0
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.00020	<0.0010 <sup>DLA</sup>	<0.00020	<0.00020
	Titanium (Ti)-Dissolved (mg/L)	<0.050	<0.050	<0.050 <sup>DLA</sup>	<0.050	<0.050
	Uranium (U)-Dissolved (mg/L)	0.00380	0.00321	<0.0010 <sup>DLA</sup>	0.0348	0.0294
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.15 <sup>DLHC</sup>	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)	0.0203	3.79	643	<0.0050	<0.0050

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



## ALS ENVIRONMENTAL ANALYTICAL REPORT

11-OCT-16 13:52 (MT)

Version: FINAL

Sample ID	Description	Sampled Date	Sampled Time	Client ID	L1835022-36	L1835022-37	L1835022-38	L1835022-39	L1835022-40
					Water	Water	Water	Water	Water
		22-SEP-16	08:55	V34	22-SEP-16	10:10	13:05	13:05	13:05
					V34	V35	V36	FB-3	DUP-4
Grouping	Analyte								
<b>WATER</b>									
<b>Dissolved Metals</b>	Aluminum (Al)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
	Antimony (Sb)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Arsenic (As)-Dissolved (mg/L)	0.0016	<0.0010	0.0028	<0.0010	0.0027	<0.0010	0.0027	0.0027
	Barium (Ba)-Dissolved (mg/L)	0.036	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	<0.000050	0.000087	0.000356	<0.000050	0.000360	<0.000050	0.000360	0.000360
	Calcium (Ca)-Dissolved (mg/L)	242	407	455	<0.10	448	<0.10	448	448
	Chromium (Cr)-Dissolved (mg/L)	<0.00050	0.00053	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Cobalt (Co)-Dissolved (mg/L)	0.00201	<0.00050	0.00236	<0.00050	0.00244	<0.00050	0.00244	0.00244
	Copper (Cu)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Iron (Fe)-Dissolved (mg/L)	1.81	<0.030	0.397	<0.030	0.423	<0.030	0.423	0.423
	Lead (Pb)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	0.0033	<0.0010	0.0033	0.0033
	Lithium (Li)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	0.056	<0.050	0.056	0.056
	Magnesium (Mg)-Dissolved (mg/L)	248	217	326	<0.10	359	<0.10	359	359
	Manganese (Mn)-Dissolved (mg/L)	0.054	<0.010	0.213	<0.010	0.241	<0.010	0.241	0.241
	Molybdenum (Mo)-Dissolved (mg/L)	0.0012	<0.0010	0.0022	<0.0010	0.0022	<0.0010	0.0022	0.0022
	Nickel (Ni)-Dissolved (mg/L)	0.0057	<0.0050	0.0157	<0.0050	0.0161	<0.0050	0.0161	0.0161
	Potassium (K)-Dissolved (mg/L)	5.3	4.1	6.4	<2.0	7.4	<2.0	7.4	7.4
	Selenium (Se)-Dissolved (mg/L)	<0.0010	0.0016	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Silver (Ag)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Sodium (Na)-Dissolved (mg/L)	8.8	7.6	9.7	<2.0	11.8	<2.0	11.8	11.8
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Titanium (Ti)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	Uranium (U)-Dissolved (mg/L)	0.0216	0.0632	0.0658	<0.00020	0.0669	<0.00020	0.0669	0.0669
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)	<0.0050	<0.0050	0.0916	<0.0050	0.0888	<0.0050	0.0888	0.0888

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

## ALS ENVIRONMENTAL ANALYTICAL REPORT

11-OCT-16 13:52 (MT)

Version: FINAL

Sample ID Description Sampled Date Sampled Time Client ID		L1835022-41 Water 22-SEP-16 17:25 SRK05-9	L1835022-42 Water 22-SEP-16 17:45 CH14-107- MW006A	L1835022-43 Water 22-SEP-16 18:10 CH14-107- MW006B	L1835022-44 Water 22-SEP-16 14:05 X18A	L1835022-45 Water 22-SEP-16 16:35 P01-01B
Grouping	Analyte					
<b>WATER</b>						
<b>Dissolved Metals</b>	Aluminum (Al)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Antimony (Sb)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Arsenic (As)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	0.0103	0.0019
	Barium (Ba)-Dissolved (mg/L)	0.025	0.162	0.143	0.096	0.046
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.000166	<0.000050	<0.000050	<0.000050	<0.000050
	Calcium (Ca)-Dissolved (mg/L)	159	97.2	86.2	299	268
	Chromium (Cr)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Cobalt (Co)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	0.00356	<0.00050
	Copper (Cu)-Dissolved (mg/L)	0.0010	0.0013	<0.0010	<0.0010	<0.0010
	Iron (Fe)-Dissolved (mg/L)	<0.030	<0.030	<0.030	3.05	0.634
	Lead (Pb)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Lithium (Li)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Magnesium (Mg)-Dissolved (mg/L)	102	22.5	40.9	79.6	58.3
	Manganese (Mn)-Dissolved (mg/L)	<0.010	<0.010	<0.010	5.41	0.244
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Nickel (Ni)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	0.0081	<0.0050
	Potassium (K)-Dissolved (mg/L)	2.7	3.3	3.0	6.2	4.6
	Selenium (Se)-Dissolved (mg/L)	<0.0010	0.0026	0.0041	<0.0010	<0.0010
	Silver (Ag)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Sodium (Na)-Dissolved (mg/L)	7.2	2.1	3.2	20.2	25.0
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Titanium (Ti)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Uranium (U)-Dissolved (mg/L)	0.0129	0.00445	0.00541	0.00926	0.00993
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.030	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)	0.377	0.0097	<0.0050	<0.0050	<0.0050

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

## ALS ENVIRONMENTAL ANALYTICAL REPORT

11-OCT-16 13:52 (MT)

Version: FINAL

Sample ID	Description	Sampled Date	Sampled Time	Client ID	L1835022-46	L1835022-47	L1835022-48	L1835022-49	L1835022-50
					Water	Water	Water	Water	Water
		22-SEP-16	15:50	P01-01A	22-SEP-16	22-SEP-16	22-SEP-16	22-SEP-16	22-SEP-16
					15:50	15:50	12:10	14:52	12:30
					P01-01A	DUP-5	X16A	X18B	X16B
Grouping	Analyte								
<b>WATER</b>									
<b>Dissolved Metals</b>	Aluminum (Al)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
	Antimony (Sb)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Arsenic (As)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Barium (Ba)-Dissolved (mg/L)	0.034	0.035	0.098	0.060	0.141			
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.010 <sup>DLHC</sup>	<0.0050			
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.20 <sup>DLHC</sup>	<0.10			
	Cadmium (Cd)-Dissolved (mg/L)	0.00166	0.00148	0.000051	0.000136	<0.000050			
	Calcium (Ca)-Dissolved (mg/L)	405	410	58.9	287	62.7			
	Chromium (Cr)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050			
	Cobalt (Co)-Dissolved (mg/L)	0.00909	0.00420	<0.00050	<0.00050	<0.00050			
	Copper (Cu)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010			
	Iron (Fe)-Dissolved (mg/L)	<0.030	<0.030	<0.030	0.170	<0.030			
	Lead (Pb)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010			
	Lithium (Li)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050			
	Magnesium (Mg)-Dissolved (mg/L)	95.3	101	13.2	75.5	16.5			
	Manganese (Mn)-Dissolved (mg/L)	13.2	13.6	<0.010	0.506	<0.010			
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0010	<0.0010	0.0017	<0.0010	0.0014			
	Nickel (Ni)-Dissolved (mg/L)	0.0253	0.0230	<0.0050	0.0061	<0.0050			
	Potassium (K)-Dissolved (mg/L)	6.8	7.1	<2.0	6.0	<2.0			
	Selenium (Se)-Dissolved (mg/L)	<0.0010	<0.0010	0.0012	<0.0010	0.0018			
	Silver (Ag)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050			
	Sodium (Na)-Dissolved (mg/L)	21.9	22.6	2.1	16.2	2.0			
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020			
	Titanium (Ti)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050			
	Uranium (U)-Dissolved (mg/L)	0.00996	0.0101	0.00171	0.0122	0.00195			
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.030	<0.060 <sup>DLHC</sup>	<0.030			
	Zinc (Zn)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.010 <sup>DLHC</sup>	<0.0050			

\* 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	L1835022-51 Water 22-SEP-16 09:38 P01-03	L1835022-52 Water 22-SEP-16 09:38 DUP-3	L1835022-53 Water 22-SEP-16 10:10 X25-96A	L1835022-54 Water 22-SEP-16 10:35 X25-96B	L1835022-55 Water 22-SEP-16 09:05 X24-96D
Grouping	Analyte					
<b>WATER</b>						
<b>Dissolved Metals</b>	Aluminum (Al)-Dissolved (mg/L)	<0.010	<0.010 <sup>DLA</sup>	<0.010	<0.010	<0.010 <sup>DLA</sup>
	Antimony (Sb)-Dissolved (mg/L)	<0.0010	<0.0010 <sup>DLA</sup>	<0.00050	<0.00050	<0.0010 <sup>DLA</sup>
	Arsenic (As)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	0.0012	<0.0010
	Barium (Ba)-Dissolved (mg/L)	<0.020	<0.020	0.061	0.025	<0.020
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.000465	0.000391	0.000116	<0.000050	0.000382
	Calcium (Ca)-Dissolved (mg/L)	443	445	325	371	477
	Chromium (Cr)-Dissolved (mg/L)	<0.0010 <sup>DLA</sup>	<0.0010 <sup>DLA</sup>	<0.00050	<0.00050	<0.0010 <sup>DLA</sup>
	Cobalt (Co)-Dissolved (mg/L)	0.303	0.313	0.0235	<0.00050	0.342
	Copper (Cu)-Dissolved (mg/L)	<0.0020 <sup>DLA</sup>	<0.0020 <sup>DLA</sup>	<0.0010	<0.0010	<0.0020 <sup>DLA</sup>
	Iron (Fe)-Dissolved (mg/L)	603	609	16.5	3.44	502
	Lead (Pb)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Lithium (Li)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Magnesium (Mg)-Dissolved (mg/L)	234	240	71.4	54.4	230
	Manganese (Mn)-Dissolved (mg/L)	88.2	89.2	24.2	0.319	94.5
	Molybdenum (Mo)-Dissolved (mg/L)	0.0010	<0.0010	0.0010	<0.0010	<0.0010
	Nickel (Ni)-Dissolved (mg/L)	0.155	0.160	0.0201	<0.0050	0.188
	Potassium (K)-Dissolved (mg/L)	8.0	8.0	5.1	4.4	7.9
	Selenium (Se)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Silver (Ag)-Dissolved (mg/L)	<0.00010 <sup>DLA</sup>	<0.00010 <sup>DLA</sup>	<0.000050	<0.000050	<0.00010 <sup>DLA</sup>
	Sodium (Na)-Dissolved (mg/L)	25.9	26.0	19.9	43.9	28.5
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	0.00029
	Titanium (Ti)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Uranium (U)-Dissolved (mg/L)	0.00507	0.00499	0.0115	0.00732	0.00396
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.030	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)	2.57	2.60	<0.0050	<0.0050	2.13

\* 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	L1835022-56 Water 22-SEP-16 09:05 FB-2	L1835022-57 Water 22-SEP-16 11:10 P01-04A	L1835022-58 Water 22-SEP-16 16:25 P96-9A	L1835022-59 Water 23-SEP-16 10:10 P01-11	L1835022-60 Water  TRAVEL BLANK
Grouping	Analyte					
<b>WATER</b>						
<b>Dissolved Metals</b>	Aluminum (Al)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	
	Antimony (Sb)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.0010 <sup>DLA</sup>	
	Arsenic (As)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	0.0475	
	Barium (Ba)-Dissolved (mg/L)	<0.020	0.481	0.052	0.023	
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	
	Cadmium (Cd)-Dissolved (mg/L)	<0.000050	<0.000050	0.000733	0.000065	
	Calcium (Ca)-Dissolved (mg/L)	<0.10	155	391	741	
	Chromium (Cr)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.0010 <sup>DLA</sup>	
	Cobalt (Co)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	0.0197	
	Copper (Cu)-Dissolved (mg/L)	<0.0010	<0.0010	0.0029	<0.0020 <sup>DLA</sup>	
	Iron (Fe)-Dissolved (mg/L)	<0.030	0.438	<0.030	106	
	Lead (Pb)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	
	Lithium (Li)-Dissolved (mg/L)	<0.050	0.155	<0.050	<0.050	
	Magnesium (Mg)-Dissolved (mg/L)	<0.10	51.5	352	176	
	Manganese (Mn)-Dissolved (mg/L)	<0.010	0.273	<0.010	68.5	
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	
	Nickel (Ni)-Dissolved (mg/L)	<0.0050	<0.0050	0.0188	0.0494	
	Potassium (K)-Dissolved (mg/L)	<2.0	3.7	6.0	8.4	
	Selenium (Se)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	
	Silver (Ag)-Dissolved (mg/L)	<0.000050	0.000206	<0.000050	<0.00010 <sup>DLA</sup>	
	Sodium (Na)-Dissolved (mg/L)	<2.0	74.0	12.3	35.3	
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	
	Titanium (Ti)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	
	Uranium (U)-Dissolved (mg/L)	<0.00020	0.00029	0.0525	0.00908	
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.030	<0.030	
	Zinc (Zn)-Dissolved (mg/L)	<0.0050	<0.0050	0.186	0.0092	

\* 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	L1835022-61 Water 22-SEP-16 09:20 SRK05-ETA-BR2	L1835022-62 Water 23-SEP-16 08:40 SRK05-ETA-BR1	L1835022-63 Water 23-SEP-16 11:30 P05-01-03	L1835022-64 Water 23-SEP-16 11:18 P05-01-04	L1835022-65 Water 23-SEP-16 11:42 P05-01-02	
Grouping	Analyte					
<b>WATER</b>						
<b>Dissolved Metals</b>	Aluminum (Al)-Dissolved (mg/L)	<0.010	1.13 <small>DLA</small>	<0.010 <small>DLA</small>	<0.010 <small>DLA</small>	<0.010 <small>DLA</small>
	Antimony (Sb)-Dissolved (mg/L)	<0.00050	<0.010 <small>DLA</small>	<0.0010 <small>DLA</small>	<0.0010 <small>DLA</small>	<0.0010 <small>DLA</small>
	Arsenic (As)-Dissolved (mg/L)	<0.0010	0.014 <small>DLHC</small>	<0.0010	0.0035	<0.0010
	Barium (Ba)-Dissolved (mg/L)	0.032	<0.050 <small>DLHC</small>	0.022	<0.020	0.022
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.025 <small>DLHC</small>	<0.0050	<0.0050	<0.0050
	Boron (B)-Dissolved (mg/L)	<0.10	<0.50 <small>DLHC</small>	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.000153	0.0662	<0.000050	<0.000050	<0.000050
	Calcium (Ca)-Dissolved (mg/L)	500	419 <small>DLA</small>	763 <small>DLA</small>	774 <small>DLA</small>	727 <small>DLA</small>
	Chromium (Cr)-Dissolved (mg/L)	<0.00050	<0.010 <small>DLA</small>	<0.0010 <small>DLA</small>	<0.0010 <small>DLA</small>	<0.0010 <small>DLA</small>
	Cobalt (Co)-Dissolved (mg/L)	0.0296	1.79 <small>DLA</small>	0.0026 <small>DLA</small>	0.0290 <small>DLA</small>	0.0013 <small>DLA</small>
	Copper (Cu)-Dissolved (mg/L)	<0.0010	<0.020 <small>DLA</small>	<0.0020 <small>DLA</small>	<0.0020 <small>DLA</small>	<0.0020 <small>DLA</small>
	Iron (Fe)-Dissolved (mg/L)	23.3	939	46.6	65.2	39.3
	Lead (Pb)-Dissolved (mg/L)	<0.0010	0.0650	0.0023	0.0015	<0.0010
	Lithium (Li)-Dissolved (mg/L)	<0.050	0.154	<0.050	<0.050	<0.050
	Magnesium (Mg)-Dissolved (mg/L)	101	972	181	189	169
	Manganese (Mn)-Dissolved (mg/L)	4.24	127 <small>DLA</small>	68.9	75.9	63.6
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0010	<0.0050 <small>DLA</small>	<0.0010	<0.0010	<0.0010
	Nickel (Ni)-Dissolved (mg/L)	0.0252	1.47	<0.0050	0.0121	<0.0050
	Potassium (K)-Dissolved (mg/L)	4.0	14 <small>DLA</small>	8.4	8.9	8.4
	Selenium (Se)-Dissolved (mg/L)	<0.0010	<0.0050 <small>DLA</small>	<0.0010 <small>DLA</small>	<0.0010 <small>DLA</small>	<0.0010 <small>DLA</small>
	Silver (Ag)-Dissolved (mg/L)	<0.000050	<0.0010 <small>DLA</small>	<0.00010 <small>DLA</small>	<0.00010 <small>DLA</small>	<0.00010 <small>DLA</small>
	Sodium (Na)-Dissolved (mg/L)	29.3	51 <small>DLA</small>	37.0	36.9	39.2
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.0010 <small>DLA</small>	<0.00020	<0.00020	<0.00020
	Titanium (Ti)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Uranium (U)-Dissolved (mg/L)	0.00059	0.0084 <small>DLHC</small>	0.00049	0.00204	0.00038
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.15 <small>DLHC</small>	<0.030	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)	11.5	727	<0.0050	<0.0050	<0.0050

\* 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	L1835022-66 Water 23-SEP-16 17:10 P96-8B	L1835022-67 Water 23-SEP-16 16:45 P96-8A	L1835022-68 Water 23-SEP-16 15:25 X17A	L1835022-69 Water 23-SEP-16 16:45 X17B	L1835022-70 Water 23-SEP-16 18:00 P09-ETA-2	
Grouping	Analyte					
<b>WATER</b>						
<b>Dissolved Metals</b>	Aluminum (Al)-Dissolved (mg/L)	2.43 <small>DLA</small>	20.0 <small>DLA</small>	<0.010	<0.010	0.043 <small>DLA</small>
	Antimony (Sb)-Dissolved (mg/L)	<0.010 <small>DLA</small>	<0.010 <small>DLA</small>	<0.00050	<0.00050	<0.0020
	Arsenic (As)-Dissolved (mg/L)	<0.010 <small>DLHC</small>	<0.010 <small>DLHC</small>	<0.0010	<0.0010	0.0911 <small>DLHC</small>
	Barium (Ba)-Dissolved (mg/L)	<0.050 <small>DLHC</small>	<0.050 <small>DLHC</small>	0.210	0.142	<0.050 <small>DLHC</small>
	Beryllium (Be)-Dissolved (mg/L)	<0.025 <small>DLHC</small>	<0.025 <small>DLHC</small>	<0.0050	<0.0050	<0.025 <small>DLHC</small>
	Boron (B)-Dissolved (mg/L)	<0.50 <small>DLA</small>	<0.50 <small>DLA</small>	<0.10	<0.10	<0.50 <small>DLA</small>
	Cadmium (Cd)-Dissolved (mg/L)	0.113	0.109	0.000103	<0.000050	<0.00010
	Calcium (Ca)-Dissolved (mg/L)	437 <small>DLA</small>	390 <small>DLA</small>	87.3	270	490 <small>DLA</small>
	Chromium (Cr)-Dissolved (mg/L)	<0.010 <small>DLA</small>	<0.010 <small>DLA</small>	<0.00050	<0.00050	<0.0020 <small>DLA</small>
	Cobalt (Co)-Dissolved (mg/L)	1.63 <small>DLA</small>	1.49	<0.00050	<0.00050	0.581 <small>DLA</small>
	Copper (Cu)-Dissolved (mg/L)	<0.020 <small>DLA</small>	0.149	<0.0010	<0.0010	<0.0040 <small>DLA</small>
	Iron (Fe)-Dissolved (mg/L)	287	159	<0.030	5.27	243
	Lead (Pb)-Dissolved (mg/L)	0.0865	0.199	<0.0010	<0.0010	<0.0010
	Lithium (Li)-Dissolved (mg/L)	0.224	0.244	<0.050	0.073	0.128
	Magnesium (Mg)-Dissolved (mg/L)	1430	1220	21.4	74.2	901
	Manganese (Mn)-Dissolved (mg/L)	127 <small>DLA</small>	113 <small>DLA</small>	0.240	0.895	87.7
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0050 <small>DLA</small>	<0.0050 <small>DLA</small>	0.0015	<0.0010	0.0014
	Nickel (Ni)-Dissolved (mg/L)	1.77	1.80	<0.0050	<0.0050	0.544 <small>DLHC</small>
	Potassium (K)-Dissolved (mg/L)	18 <small>DLA</small>	15 <small>DLA</small>	<2.0	4.9	<10 <small>DLHC</small>
	Selenium (Se)-Dissolved (mg/L)	<0.0050 <small>DLA</small>	<0.0050 <small>DLA</small>	<0.0010	<0.0010	<0.0010 <small>DLA</small>
	Silver (Ag)-Dissolved (mg/L)	<0.0010 <small>DLA</small>	<0.0010 <small>DLA</small>	<0.000050	<0.000050	<0.00020 <small>DLA</small>
	Sodium (Na)-Dissolved (mg/L)	61	54	3.2	75.7	51
	Thallium (Tl)-Dissolved (mg/L)	0.0013	0.0021	<0.00020	<0.00020	<0.00020
	Titanium (Ti)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Uranium (U)-Dissolved (mg/L)	0.0027 <small>DLHC</small>	0.0170 <small>DLHC</small>	0.00197	0.00243	0.00551 <small>DLHC</small>
	Vanadium (V)-Dissolved (mg/L)	<0.15 <small>DLHC</small>	<0.15 <small>DLHC</small>	<0.030	<0.030	<0.15 <small>DLHC</small>
	Zinc (Zn)-Dissolved (mg/L)	838	841	<0.0050	<0.0050	211

\* 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	L1835022-71	L1835022-72	L1835022-73	L1835022-74	L1835022-75
					Water	Water	Water	Water	Water
		23-SEP-16	17:35		23-SEP-16		23-SEP-16	23-SEP-16	23-SEP-16
					17:35		18:00	08:30	16:45
					P03-09-06	TRAVEL BLANK	P03-09-09	SRK04-3A	P03-09-02
Grouping	Analyte								
<b>WATER</b>									
<b>Dissolved Metals</b>	Aluminum (Al)-Dissolved (mg/L)	<0.010		<0.010	0.84	<0.010			<0.010
	Antimony (Sb)-Dissolved (mg/L)	<0.00050		<0.00050	<sup>DLA</sup> <0.010	<0.00050			<0.00050
	Arsenic (As)-Dissolved (mg/L)	<0.0010		<0.0010	0.046	<0.0010			0.0017
	Barium (Ba)-Dissolved (mg/L)	0.029		0.023	<0.050	0.023		<sup>DLHC</sup> <0.050	0.028
	Beryllium (Be)-Dissolved (mg/L)	<0.0050		<0.0050	<0.025	<0.0050		<sup>DLHC</sup> <0.025	<0.0050
	Boron (B)-Dissolved (mg/L)	<0.10		<0.10	<0.50	<0.10		<sup>DLHC</sup> <0.50	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.000498		0.00104	0.0543	0.00104			<0.000050
	Calcium (Ca)-Dissolved (mg/L)	387		418	405	387			317
	Chromium (Cr)-Dissolved (mg/L)	<0.00050		<0.00050	<0.010	<0.00050		<sup>DLA</sup> <0.010	<0.00050
	Cobalt (Co)-Dissolved (mg/L)	0.00285		0.00593	1.63	0.00285			<0.00050
	Copper (Cu)-Dissolved (mg/L)	<0.0010		<0.0010	<0.020	<0.0010		<sup>DLA</sup> <0.020	<0.0010
	Iron (Fe)-Dissolved (mg/L)	0.047		0.086	816	0.047			12.7
	Lead (Pb)-Dissolved (mg/L)	<0.0010		<0.0010	0.0134	<0.0010			<0.0010
	Lithium (Li)-Dissolved (mg/L)	<0.050		<0.050	0.205	<0.050			<0.050
	Magnesium (Mg)-Dissolved (mg/L)	87.1		91.0	1040	87.1			81.9
	Manganese (Mn)-Dissolved (mg/L)	17.8		23.0	120	17.8			0.961
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0010		<0.0010	<0.0050	<0.0010		<sup>DLA</sup> <0.0050	<0.0010
	Nickel (Ni)-Dissolved (mg/L)	0.0266		0.0405	1.40	0.0266			<0.0050
	Potassium (K)-Dissolved (mg/L)	5.1		5.1	15	5.1			4.2
	Selenium (Se)-Dissolved (mg/L)	<0.0010		<0.0010	<0.0050	<0.0010		<sup>DLA</sup> <0.0050	<0.0010
	Silver (Ag)-Dissolved (mg/L)	<0.000050		<0.000050	<0.0010	<0.000050		<sup>DLA</sup> <0.0010	<0.000050
	Sodium (Na)-Dissolved (mg/L)	32.0		28.6	50	32.0			43.6
	Thallium (Tl)-Dissolved (mg/L)	<0.00020		<0.00020	<0.0010	<0.00020		<sup>DLA</sup> <0.0010	<0.00020
	Titanium (Ti)-Dissolved (mg/L)	<0.050		<0.050	<0.050	<0.050			<0.050
	Uranium (U)-Dissolved (mg/L)	0.00941		0.0107	0.0075	0.00941			0.00276
	Vanadium (V)-Dissolved (mg/L)	<0.030		<0.030	<0.15	<0.030		<sup>DLHC</sup> <0.15	<0.030
	Zinc (Zn)-Dissolved (mg/L)	<0.0050		<0.0050	674	<0.0050			<0.0050

\* 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	L1835022-76 Water 23-SEP-16 17:20 P03-09-04	L1835022-77 Water 23-SEP-16 17:47 P03-09-08	L1835022-78 Water 23-SEP-16 14:40 P01-02A	L1835022-79 Water 23-SEP-16 14:20 P01-02B	L1835022-80 Water 23-SEP-16 13:07 P05-03
Grouping	Analyte					
<b>WATER</b>						
<b>Dissolved Metals</b>	Aluminum (Al)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Antimony (Sb)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Arsenic (As)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	0.0039	0.0025
	Barium (Ba)-Dissolved (mg/L)	0.030	0.024	0.062	0.043	0.151
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.00130	0.00150	0.000079	<0.000050	0.000766
	Calcium (Ca)-Dissolved (mg/L)	392	470	112	82.9	386
	Chromium (Cr)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Cobalt (Co)-Dissolved (mg/L)	0.00997	0.00592	0.00074	<0.00050	0.00453
	Copper (Cu)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Iron (Fe)-Dissolved (mg/L)	<0.030	0.151	<0.030	1.43	4.80
	Lead (Pb)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Lithium (Li)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Magnesium (Mg)-Dissolved (mg/L)	88.6	95.3	30.7	31.8	85.5
	Manganese (Mn)-Dissolved (mg/L)	22.9	23.9	1.11	0.126	21.5
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	0.0027
	Nickel (Ni)-Dissolved (mg/L)	0.0285	0.0403	<0.0050	<0.0050	0.0068
	Potassium (K)-Dissolved (mg/L)	5.1	5.4	2.4	2.2	5.2
	Selenium (Se)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Silver (Ag)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Sodium (Na)-Dissolved (mg/L)	25.6	27.5	5.6	4.9	28.5
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Titanium (Ti)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Uranium (U)-Dissolved (mg/L)	0.0101	0.0107	0.00224	0.00320	0.0117
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.030	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)	0.0056	<0.0050	<0.0050	<0.0050	0.0098

\* 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	L1835022-81	L1835022-82	L1835022-83	L1835022-84	L1835022-85
					Water	Water	Water	Water	Water
		23-SEP-16	13:07	FB-4	23-SEP-16	23-SEP-16	23-SEP-16	23-SEP-16	23-SEP-16
					13:07	13:10	13:10	12:10	11:10
					FB-4	P05-02	DUP-6	P05-01-01	P05-01-05
Grouping	Analyte								
<b>WATER</b>									
<b>Dissolved Metals</b>	Aluminum (Al)-Dissolved (mg/L)	<0.010	0.011	0.021	0.024	0.020			
	Antimony (Sb)-Dissolved (mg/L)	<0.00050	<0.0010 <sup>DLA</sup>	<0.00050	<0.00050	<0.0010 <sup>DLA</sup>			
	Arsenic (As)-Dissolved (mg/L)	<0.0010	0.0024	0.0025	<0.0010	0.0059			
	Barium (Ba)-Dissolved (mg/L)	<0.020	0.022	0.022	0.022	<0.020			
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050			
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10			
	Cadmium (Cd)-Dissolved (mg/L)	<0.000050	0.000116	0.000168	<0.000050	0.000478			
	Calcium (Ca)-Dissolved (mg/L)	<0.10	710	716	662	690			
	Chromium (Cr)-Dissolved (mg/L)	<0.00050	<0.0010 <sup>DLA</sup>	<0.00050	<0.00050	<0.0010 <sup>DLA</sup>			
	Cobalt (Co)-Dissolved (mg/L)	<0.00050	0.0231	0.0235	0.00064	0.0395			
	Copper (Cu)-Dissolved (mg/L)	<0.0010	<0.0020 <sup>DLA</sup>	<0.0010	<0.0010	<0.0020 <sup>DLA</sup>			
	Iron (Fe)-Dissolved (mg/L)	<0.030	37.0	37.1	27.4	48.8			
	Lead (Pb)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	0.0085	0.0161			
	Lithium (Li)-Dissolved (mg/L)	<0.050	<0.050	<0.050	0.088	<0.050			
	Magnesium (Mg)-Dissolved (mg/L)	<0.10	158	152	165	171			
	Manganese (Mn)-Dissolved (mg/L)	<0.010	63.8	64.0	49.8	61.7			
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010			
	Nickel (Ni)-Dissolved (mg/L)	<0.0050	0.0265	0.0274	<0.0050	0.0302			
	Potassium (K)-Dissolved (mg/L)	<2.0	7.8	7.9	7.6	9.4			
	Selenium (Se)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010			
	Silver (Ag)-Dissolved (mg/L)	<0.000050	<0.00010 <sup>DLA</sup>	<0.000050	<0.000050	<0.00010 <sup>DLA</sup>			
	Sodium (Na)-Dissolved (mg/L)	<2.0	32.5	32.8	47.3	38.1			
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020			
	Titanium (Ti)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050			
	Uranium (U)-Dissolved (mg/L)	<0.00020	0.00557	0.00588	0.00042	0.00595			
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.030	<0.030	<0.030			
	Zinc (Zn)-Dissolved (mg/L)	<0.0050	0.0615	0.0647	<0.0050	0.0092			

\* 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	L1835022-86 Water 24-SEP-16 12:40 P09-GS1B	L1835022-87 Water 24-SEP-16 13:55 CH15-107-MW030	L1835022-88 Water 24-SEP-16 11:20 P2001-2B	L1835022-89 Water 24-SEP-16 10:40 V37	L1835022-90 Water 24-SEP-16 09:00 P09-LCD1
Grouping	Analyte					
<b>WATER</b>						
<b>Dissolved Metals</b>	Aluminum (Al)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Antimony (Sb)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Arsenic (As)-Dissolved (mg/L)	1.90	<0.0010	<0.0010	<0.0010	0.121
	Barium (Ba)-Dissolved (mg/L)	0.022	0.052	<0.020	0.042	0.045
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	<0.000050	0.000188	<0.000050	<0.000050	<0.000050
	Calcium (Ca)-Dissolved (mg/L)	236	182	580	89.8	189
	Chromium (Cr)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Cobalt (Co)-Dissolved (mg/L)	0.00082	<0.00050	0.00097	<0.00050	0.00070
	Copper (Cu)-Dissolved (mg/L)	<0.0010	0.0027	<0.0010	<0.0010	<0.0010
	Iron (Fe)-Dissolved (mg/L)	4.77	<0.030	0.364	<0.030	5.68
	Lead (Pb)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	0.0284
	Lithium (Li)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Magnesium (Mg)-Dissolved (mg/L)	90.7	206	346	104	54.1
	Manganese (Mn)-Dissolved (mg/L)	0.574	<0.010	0.172	0.102	0.805
	Molybdenum (Mo)-Dissolved (mg/L)	0.0035	<0.0010	<0.0010	0.0224	0.0052
	Nickel (Ni)-Dissolved (mg/L)	0.0079	0.0189	0.0085	<0.0050	<0.0050
	Potassium (K)-Dissolved (mg/L)	2.1	4.0	6.5	5.2	3.1
	Selenium (Se)-Dissolved (mg/L)	<0.0010	0.0019	<0.0010	<0.0010	<0.0010
	Silver (Ag)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Sodium (Na)-Dissolved (mg/L)	15.2	8.3	12.6	23.9	17.6
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Titanium (Ti)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Uranium (U)-Dissolved (mg/L)	0.00121	0.00775	0.101	0.00145	0.00901
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.030	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)	0.0622	0.326	0.0141	0.0054	0.0083

\* 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	L1835022-91 Water 24-SEP-16 09:00 DUP-7	L1835022-92 Water 24-SEP-16 10:20 P09-LCD6	L1835022-93 Water 24-SEP-16 11:00 P2001-2A	L1835022-94 Water 24-SEP-16 15:40 CH15-107-MW033	L1835022-95 Water 24-SEP-16 12:15 P09-GS1A
Grouping	Analyte					
<b>WATER</b>						
<b>Dissolved Metals</b>	Aluminum (Al)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Antimony (Sb)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	0.0160
	Arsenic (As)-Dissolved (mg/L)	0.121	0.137	0.0013	<0.0010	0.0737
	Barium (Ba)-Dissolved (mg/L)	0.046	0.047	<0.020	0.022	<0.020
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	<0.000050	0.000057	<0.000050	0.00116	0.00145
	Calcium (Ca)-Dissolved (mg/L)	179	179	633	156	158
	Chromium (Cr)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Cobalt (Co)-Dissolved (mg/L)	0.00069	0.00127	0.00066	<0.00050	0.0918
	Copper (Cu)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	0.0021	<0.0010
	Iron (Fe)-Dissolved (mg/L)	5.47	7.81	2.37	<0.030	0.582
	Lead (Pb)-Dissolved (mg/L)	0.0293	0.0099	<0.0010	<0.0010	0.0386
	Lithium (Li)-Dissolved (mg/L)	<0.050	<0.050	0.050	<0.050	<0.050
	Magnesium (Mg)-Dissolved (mg/L)	55.4	55.4	341	157	65.1
	Manganese (Mn)-Dissolved (mg/L)	0.828	0.602	0.141	<0.010	1.89
	Molybdenum (Mo)-Dissolved (mg/L)	0.0050	0.0026	<0.0010	<0.0010	0.0018
	Nickel (Ni)-Dissolved (mg/L)	<0.0050	<0.0050	0.0074	0.0354	0.122
	Potassium (K)-Dissolved (mg/L)	3.3	2.5	6.1	3.6	4.0
	Selenium (Se)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	0.0022	<0.0010
	Silver (Ag)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Sodium (Na)-Dissolved (mg/L)	18.8	7.1	10.0	6.9	10.8
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	0.00622
	Titanium (Ti)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Uranium (U)-Dissolved (mg/L)	0.00908	0.00415	0.105	0.00804	0.0142
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.030	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)	0.0080	<0.0050	0.0091	2.58	5.07

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

## ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1835022-96	L1835022-97	L1835022-98	L1835022-99	L1835022-100
		Description	Water	Water	Water	Water	Water
		Sampled Date	24-SEP-16	24-SEP-16	24-SEP-16	24-SEP-16	24-SEP-16
		Sampled Time	16:55	16:55	14:55	14:55	19:00
		Client ID	CH16-107-MW029	FB-5	CH15-107-MW034	DUP-9	BH14B
Grouping	Analyte						
<b>WATER</b>							
<b>Dissolved Metals</b>	Aluminum (Al)-Dissolved (mg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
	Antimony (Sb)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Arsenic (As)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Barium (Ba)-Dissolved (mg/L)		0.070	<0.020	0.031	0.033	<0.020
	Beryllium (Be)-Dissolved (mg/L)		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Boron (B)-Dissolved (mg/L)		<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)		0.000394	<0.000050	<0.000050	<0.000050	0.000191
	Calcium (Ca)-Dissolved (mg/L)		205	<0.10	126	129	524
	Chromium (Cr)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Cobalt (Co)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Copper (Cu)-Dissolved (mg/L)		0.0021	<0.0010	0.0029	0.0029	0.0012
	Iron (Fe)-Dissolved (mg/L)		<0.030	<0.030	<0.030	<0.030	<0.030
	Lead (Pb)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010	0.0081
	Lithium (Li)-Dissolved (mg/L)		<0.050	<0.050	<0.050	<0.050	0.090
	Magnesium (Mg)-Dissolved (mg/L)		258	<0.10	59.5	61.1	356
	Manganese (Mn)-Dissolved (mg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
	Molybdenum (Mo)-Dissolved (mg/L)		<0.0010	<0.0010	0.0025	0.0025	<0.0010
	Nickel (Ni)-Dissolved (mg/L)		0.0261	<0.0050	0.0083	0.0081	0.0057
	Potassium (K)-Dissolved (mg/L)		4.8	<2.0	2.7	3.0	4.6
	Selenium (Se)-Dissolved (mg/L)		0.0020	<0.0010	0.0029	0.0030	<0.0010
	Silver (Ag)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Sodium (Na)-Dissolved (mg/L)		10.4	<2.0	5.4	5.7	18.1
	Thallium (Tl)-Dissolved (mg/L)		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Titanium (Ti)-Dissolved (mg/L)		<0.050	<0.050	<0.050	<0.050	<0.050
	Uranium (U)-Dissolved (mg/L)		0.0107	<0.00020	0.00145	0.00145	0.199
	Vanadium (V)-Dissolved (mg/L)		<0.030	<0.030	<0.030	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)		0.529	<0.0050	<0.0050	<0.0050	0.358

\* 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	L1835022-101 Water 24-SEP-16 08:50 P03-04-02	L1835022-102 Water 24-SEP-16 09:50 P03-04-04	L1835022-103 Water 24-SEP-16 13:00 P03-06-03	L1835022-104 Water 24-SEP-16 11:52 P03-06-01	L1835022-105 Water 24-SEP-16 13:20 P03-06-04
Grouping	Analyte					
<b>WATER</b>						
<b>Dissolved Metals</b>	Aluminum (Al)-Dissolved (mg/L)	<0.010 <sup>DLA</sup>	<0.010	0.254 <sup>DLA</sup>	4.12 <sup>DLA</sup>	0.049
	Antimony (Sb)-Dissolved (mg/L)	<0.0010 <sup>DLA</sup>	<0.00050	<0.0010	<0.0020 <sup>DLA</sup>	<0.00050
	Arsenic (As)-Dissolved (mg/L)	0.0019	0.0076	0.0021	<0.0020 <sup>DLA</sup>	0.0017
	Barium (Ba)-Dissolved (mg/L)	<0.020	0.058	<0.020	<0.020	<0.020
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.0050	<0.010 <sup>DLHC</sup>	<0.010 <sup>DLHC</sup>	<0.0050
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.20 <sup>DLHC</sup>	<0.20 <sup>DLHC</sup>	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.000119	<0.000050	0.0107	0.0493	0.00500
	Calcium (Ca)-Dissolved (mg/L)	451	243	393	401	463
	Chromium (Cr)-Dissolved (mg/L)	<0.0010 <sup>DLA</sup>	<0.00050	<0.0010 <sup>DLA</sup>	<0.0020 <sup>DLA</sup>	<0.00050
	Cobalt (Co)-Dissolved (mg/L)	0.111	0.00394	0.341	1.93	0.162
	Copper (Cu)-Dissolved (mg/L)	<0.0020 <sup>DLA</sup>	<0.0010	<0.0020 <sup>DLA</sup>	0.0172	0.0019
	Iron (Fe)-Dissolved (mg/L)	1.45	6.60	1840	1460	468
	Lead (Pb)-Dissolved (mg/L)	<0.0010	<0.0010	0.0027	0.0147	0.0011
	Lithium (Li)-Dissolved (mg/L)	<0.050	<0.050	0.059	0.139	<0.050
	Magnesium (Mg)-Dissolved (mg/L)	80.0	33.3	125	192	95.8
	Manganese (Mn)-Dissolved (mg/L)	58.2	8.26	71.2	165	57.9
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0010	0.0012	0.0013	0.0013	0.0019
	Nickel (Ni)-Dissolved (mg/L)	0.113	<0.0050	0.315	2.11	0.138
	Potassium (K)-Dissolved (mg/L)	4.3	3.3	6.9	8.3	5.0
	Selenium (Se)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Silver (Ag)-Dissolved (mg/L)	<0.00010 <sup>DLA</sup>	<0.000050	<0.00010 <sup>DLA</sup>	<0.00020 <sup>DLA</sup>	<0.000050
	Sodium (Na)-Dissolved (mg/L)	24.7	86.9	17.8	23.8	23.9
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Titanium (Ti)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Uranium (U)-Dissolved (mg/L)	0.00100	0.00368	0.00389	0.00402	0.0205
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.060 <sup>DLHC</sup>	<0.060 <sup>DLHC</sup>	<0.030
	Zinc (Zn)-Dissolved (mg/L)	0.0755	0.0091	75.1	46.7	16.6

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

## ALS ENVIRONMENTAL ANALYTICAL REPORT

11-OCT-16 13:52 (MT)

Version: FINAL

Sample ID Description Sampled Date Sampled Time Client ID		L1835022-106 Water 24-SEP-16 10:55 P03-05-05	L1835022-107 Water 24-SEP-16 11:45 P03-06-05	L1835022-108 Water 24-SEP-16 14:50 BH10A	L1835022-109 Water 24-SEP-16 14:50 DUP-8	L1835022-110 Water 24-SEP-16 16:45 CH14-107-MW001
Grouping	Analyte					
<b>WATER</b>						
<b>Dissolved Metals</b>	Aluminum (Al)-Dissolved (mg/L)	0.053 <sup>DLA</sup>	0.247 <sup>DLA</sup>	<0.010	<0.010	0.155
	Antimony (Sb)-Dissolved (mg/L)	<0.0020	<0.0010	<0.00050	<0.00050	<0.00050
	Arsenic (As)-Dissolved (mg/L)	0.0100	0.0011	<0.0010	<0.0010	<0.0010
	Barium (Ba)-Dissolved (mg/L)	<0.050 <sup>DLHC</sup>	<0.020 <sup>DLHC</sup>	<0.020	<0.020	0.035 <sup>DLM</sup>
	Beryllium (Be)-Dissolved (mg/L)	<0.025 <sup>DLHC</sup>	<0.010 <sup>DLHC</sup>	<0.0050	<0.0050	<0.010 <sup>DLM</sup>
	Boron (B)-Dissolved (mg/L)	<0.50 <sup>DLHC</sup>	<0.20 <sup>DLHC</sup>	<0.10	<0.10	<0.20 <sup>DLM</sup>
	Cadmium (Cd)-Dissolved (mg/L)	0.00046	0.0112	0.00283	0.00279	<0.000050
	Calcium (Ca)-Dissolved (mg/L)	375	395	46.5	47.1	113
	Chromium (Cr)-Dissolved (mg/L)	<0.0020 <sup>DLA</sup>	<0.0010 <sup>DLA</sup>	<0.00050	<0.00050	0.00188
	Cobalt (Co)-Dissolved (mg/L)	0.400	0.345	0.00059	<0.00050	0.0303
	Copper (Cu)-Dissolved (mg/L)	<0.0040 <sup>DLA</sup>	<0.0020 <sup>DLA</sup>	0.0013	0.0013	<0.0010
	Iron (Fe)-Dissolved (mg/L)	3720	1850	<0.030	<0.030	51.7
	Lead (Pb)-Dissolved (mg/L)	0.0022	<0.0010	<0.0010	<0.0010	<0.0010
	Lithium (Li)-Dissolved (mg/L)	0.118	0.063	<0.050	<0.050	0.052
	Magnesium (Mg)-Dissolved (mg/L)	206	125	11.3	11.4	41.3
	Manganese (Mn)-Dissolved (mg/L)	80.9	71.6	<0.010	<0.010	3.27
	Molybdenum (Mo)-Dissolved (mg/L)	0.0020	<0.0010	<0.0010	<0.0010	<0.0010
	Nickel (Ni)-Dissolved (mg/L)	0.340	0.318	<0.0050	<0.0050	0.0645
	Potassium (K)-Dissolved (mg/L)	16	7.2	<2.0	<2.0	4.3
	Selenium (Se)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Silver (Ag)-Dissolved (mg/L)	<0.00020 <sup>DLA</sup>	<0.00010 <sup>DLA</sup>	<0.000050	<0.000050	<0.000050
	Sodium (Na)-Dissolved (mg/L)	57	18.5	3.8	3.7	14.5
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Titanium (Ti)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Uranium (U)-Dissolved (mg/L)	0.00096	0.00368	<0.00020	<0.00020	<0.00020
	Vanadium (V)-Dissolved (mg/L)	<0.15 <sup>DLHC</sup>	<0.060 <sup>DLHC</sup>	<0.030	<0.030	<0.060 <sup>DLM</sup>
	Zinc (Zn)-Dissolved (mg/L)	1.17	74.6	0.435	0.432	4.01

\* 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		L1835022-111 Water 24-SEP-16 15:13 BH10B	L1835022-112 Water 24-SEP-16 15:40 P05-04	L1835022-113 Water 24-SEP-16 16:10 CH14-107-MW002	L1835022-114 Water 24-SEP-16 16:10 DUP-10	L1835022-115 Water 24-SEP-16 18:52 BH14A
Grouping	Analyte					
<b>WATER</b>						
<b>Dissolved Metals</b>	Aluminum (Al)-Dissolved (mg/L)	0.028	0.039	0.016	0.015	<0.010
	Antimony (Sb)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Arsenic (As)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Barium (Ba)-Dissolved (mg/L)	<0.020	0.029	0.022	0.021	<0.020
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.00118	0.00224	0.00131	0.00128	0.00372
	Calcium (Ca)-Dissolved (mg/L)	58.2	66.7	80.0	78.7	540
	Chromium (Cr)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	0.00062
	Cobalt (Co)-Dissolved (mg/L)	<0.00050	<0.00050	0.00928	0.00940	<0.00050
	Copper (Cu)-Dissolved (mg/L)	<0.0010	<0.0010	0.0013	0.0013	0.0011
	Iron (Fe)-Dissolved (mg/L)	<0.030	<0.030	0.419	0.417	<0.030
	Lead (Pb)-Dissolved (mg/L)	0.0014	<0.0010	<0.0010	<0.0010	0.0059
	Lithium (Li)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	0.135
	Magnesium (Mg)-Dissolved (mg/L)	14.9	16.8	26.5	26.4	460
	Manganese (Mn)-Dissolved (mg/L)	<0.010	<0.010	1.88	1.90	0.695
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Nickel (Ni)-Dissolved (mg/L)	<0.0050	0.0076	0.0500	0.0497	0.394
	Potassium (K)-Dissolved (mg/L)	<2.0	<2.0	2.5	2.6	4.7
	Selenium (Se)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Silver (Ag)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Sodium (Na)-Dissolved (mg/L)	4.4	4.7	5.7	5.9	20.6
	Thallium (Tl)-Dissolved (mg/L)	0.00024	<0.00020	<0.00020	<0.00020	<0.00020
	Titanium (Ti)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Uranium (U)-Dissolved (mg/L)	<0.00020	0.00114	<0.00020	<0.00020	0.131
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.030	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)	0.784	1.19	8.49	8.91	32.5

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



## ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	L1835022-116	L1835022-117	L1835022-118	L1835022-119	
Description	Water	Water	Water	Water	
Sampled Date	24-SEP-16	25-SEP-16	25-SEP-16	25-SEP-16	
Sampled Time	18:52	09:35	09:15	09:35	
Client ID	DUP-11	P09-LCD4	BH8	CH15-107-MW032	
Grouping	Analyte				
<b>WATER</b>					
<b>Dissolved Metals</b>	Aluminum (Al)-Dissolved (mg/L)	<0.010	0.015	26.7 <sup>DLA</sup>	<0.010
	Antimony (Sb)-Dissolved (mg/L)	<0.00050	0.00052	<0.0020	<0.00050
	Arsenic (As)-Dissolved (mg/L)	<0.0010	0.0031	0.0108	<0.0010
	Barium (Ba)-Dissolved (mg/L)	<0.020	0.090	<0.020	0.025
	Beryllium (Be)-Dissolved (mg/L)	<0.0050	<0.0050	0.0175	<0.0050
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.00398	0.000098	0.606	0.000181
	Calcium (Ca)-Dissolved (mg/L)	527	99.1	278	522
	Chromium (Cr)-Dissolved (mg/L)	0.00072	<0.00050	0.0029	<0.00050
	Cobalt (Co)-Dissolved (mg/L)	0.00174	0.00090	0.605	0.0112
	Copper (Cu)-Dissolved (mg/L)	0.0015	0.0041	3.48	<0.0010
	Iron (Fe)-Dissolved (mg/L)	0.036	<0.030	574	0.053
	Lead (Pb)-Dissolved (mg/L)	0.0221	0.0028	0.988	<0.0010
	Lithium (Li)-Dissolved (mg/L)	0.126	<0.050	0.113	0.061
	Magnesium (Mg)-Dissolved (mg/L)	449	25.8	219	85.2
	Manganese (Mn)-Dissolved (mg/L)	0.692	0.860	13.2	4.72
	Molybdenum (Mo)-Dissolved (mg/L)	<0.0010	0.0054	<0.0010	0.0065
	Nickel (Ni)-Dissolved (mg/L)	0.388	0.0058	0.521	0.0143
	Potassium (K)-Dissolved (mg/L)	4.4	<2.0	6.5	9.7
	Selenium (Se)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010
	Silver (Ag)-Dissolved (mg/L)	<0.000050	<0.000050	<0.00020 <sup>DLA</sup>	<0.000050
	Sodium (Na)-Dissolved (mg/L)	19.4	61.5	20.6	137
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.00020	0.00675	<0.00020
	Titanium (Ti)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050
	Uranium (U)-Dissolved (mg/L)	0.129	0.00327	0.0540	0.0271
	Vanadium (V)-Dissolved (mg/L)	<0.030	<0.030	<0.030	<0.030
	Zinc (Zn)-Dissolved (mg/L)	31.4	0.0071	211	0.0093

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

## Reference Information

## Qualifiers for Individual Samples Listed:

Sample Number	Client Sample ID	Qualifier	Description
L1835022-60	TRAVEL BLANK	WSMT	Water sample(s) for total mercury analysis was not submitted in glass or PTFE container with HCl preservative. Results may be biased low.
L1835022-72	TRAVEL BLANK	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 &amp; Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Arsenic (As)-Dissolved	MS-B	L1835022-1, -10, -100, -101, -102, -103, -104, -105, -106, -107, -108, -109, -11, -110, -111, -112, -113, -114, -115, -116, -117, -118, -119, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -61, -62, -63, -64, -65, -66, -67, -68, -69, -7, -70, -71, -73, -74, -75, -76, -77, -78, -79, -8, -80, -81, -82, -83, -84, -85, -86, -87, -88, -89, -9, -90, -91, -92, -93, -94, -95, -96, -97, -98, -99
Matrix Spike	Cobalt (Co)-Dissolved	MS-B	L1835022-1, -10, -100, -101, -102, -103, -104, -105, -106, -107, -108, -109, -11, -110, -111, -112, -113, -114, -115, -116, -117, -118, -119, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -61, -62, -63, -64, -65, -66, -67, -68, -69, -7, -70, -71, -73, -74, -75, -76, -77, -78, -79, -8, -80, -81, -82, -83, -84, -85, -86, -87, -88, -89, -9, -90, -91, -92, -93, -94, -95, -96, -97, -98, -99
Matrix Spike	Lead (Pb)-Dissolved	MS-B	L1835022-1, -10, -100, -101, -102, -103, -104, -105, -106, -107, -108, -109, -11, -110, -111, -112, -113, -114, -115, -116, -117, -118, -119, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -61, -62, -63, -64, -65, -66, -67, -68, -69, -7, -70, -71, -73, -74, -75, -76, -77, -78, -79, -8, -80, -81, -82, -83, -84, -85, -86, -87, -88, -89, -9, -90, -91, -92, -93, -94, -95, -96, -97, -98, -99
Matrix Spike	Nickel (Ni)-Dissolved	MS-B	L1835022-1, -10, -100, -101, -102, -103, -104, -105, -106, -107, -108, -109, -11, -110, -111, -112, -113, -114, -115, -116, -117, -118, -119, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -61, -62, -63, -64, -65, -66, -67, -68, -69, -7, -70, -71, -73, -74, -75, -76, -77, -78, -79, -8, -80, -81, -82, -83, -84, -85, -86, -87, -88, -89, -9, -90, -91, -92, -93, -94, -95, -96, -97, -98, -99
Matrix Spike	Nickel (Ni)-Dissolved	MS-B	L1835022-1, -10, -100, -101, -102, -103, -104, -105, -106, -107, -108, -109, -11, -110, -111, -112, -113, -114, -115, -116, -117, -118, -119, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -61, -62, -63, -64, -65, -66, -67, -68, -69, -7, -70, -71, -73, -74, -75, -76, -77, -78, -79, -8, -80, -81, -82, -83, -84, -85, -86, -87, -88, -89, -9, -90, -91, -92, -93, -94, -95, -96, -97, -98, -99
Matrix Spike	Uranium (U)-Dissolved	MS-B	L1835022-1, -10, -100, -101, -102, -103, -104, -105, -106, -107, -108, -109, -11, -110, -111, -112, -113, -114, -115, -116, -117, -118, -119, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -61, -62, -63, -64, -65, -66, -67, -68, -69, -7, -70, -71, -73, -74, -75, -76, -77, -78, -79, -8, -80, -81, -82, -83, -84, -85, -86, -87, -88, -89, -9, -90, -91, -92, -93, -94, -95, -96, -97, -98, -99
Matrix Spike	Uranium (U)-Dissolved	MS-B	L1835022-1, -10, -100, -101, -102, -103, -104, -105, -106, -107, -108, -109, -11, -110, -111, -112, -113, -114, -115, -116, -117, -118, -119, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -61, -62, -63, -64, -65, -66, -67, -68, -69, -7, -70, -71, -73, -74, -75, -76, -77, -78, -79, -8, -80, -81, -82, -83, -84, -85, -86, -87, -88, -89, -9, -90, -91, -92, -93, -94, -95, -96, -97, -98, -99









## Reference Information

Parameter	Qualifier	Applies to Sample Number(s)
		116, -117, -118, -119, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -61, -62, -63, -64, -65, -66, -67, -68, -69, -7, -70, -71, -73, -74, -75, -76, -77, -78, -79, -8, -80, -81, -82, -83, -84, -85, -86, -87, -88, -89, -9, -90, -91, -92, -93, -94, -95, -96, -97, -98, -99
Matrix Spike	Zinc (Zn)-Dissolved	MS-B L1835022-1, -10, -100, -101, -102, -103, -104, -105, -106, -107, -108, -109, -11, -110, -111, -112, -113, -114, -115, -116, -117, -118, -119, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -61, -62, -63, -64, -65, -66, -67, -68, -69, -7, -70, -71, -73, -74, -75, -76, -77, -78, -79, -8, -80, -81, -82, -83, -84, -85, -86, -87, -88, -89, -9, -90, -91, -92, -93, -94, -95, -96, -97, -98, -99
Matrix Spike	Zinc (Zn)-Dissolved	MS-B L1835022-1, -10, -100, -101, -102, -103, -104, -105, -106, -107, -108, -109, -11, -110, -111, -112, -113, -114, -115, -116, -117, -118, -119, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -61, -62, -63, -64, -65, -66, -67, -68, -69, -7, -70, -71, -73, -74, -75, -76, -77, -78, -79, -8, -80, -81, -82, -83, -84, -85, -86, -87, -88, -89, -9, -90, -91, -92, -93, -94, -95, -96, -97, -98, -99
Matrix Spike	Zinc (Zn)-Dissolved	MS-B L1835022-1, -10, -100, -101, -102, -103, -104, -105, -106, -107, -108, -109, -11, -110, -111, -112, -113, -114, -115, -116, -117, -118, -119, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -61, -62, -63, -64, -65, -66, -67, -68, -69, -7, -70, -71, -73, -74, -75, -76, -77, -78, -79, -8, -80, -81, -82, -83, -84, -85, -86, -87, -88, -89, -9, -90, -91, -92, -93, -94, -95, -96, -97, -98, -99
Matrix Spike	Zinc (Zn)-Dissolved	MS-B L1835022-1, -10, -100, -101, -102, -103, -104, -105, -106, -107, -108, -109, -11, -110, -111, -112, -113, -114, -115, -116, -117, -118, -119, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -4, -40, -41, -42, -43, -44, -45, -46, -47, -48, -49, -5, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -6, -61, -62, -63, -64, -65, -66, -67, -68, -69, -7, -70, -71, -73, -74, -75, -76, -77, -78, -79, -8, -80, -81, -82, -83, -84, -85, -86, -87, -88, -89, -9, -90, -91, -92, -93, -94, -95, -96, -97, -98, -99

## Qualifiers for Individual Parameters Listed:

Qualifier	Description
DLA	Detection Limit adjusted for required dilution
DLDS	Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
HTC	Hardness was calculated from Total Ca and/or Mg concentrations and may be biased high (dissolved Ca/Mg results unavailable).
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,

## Reference Information

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 CaCO<sub>3</sub>)' 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 CaCO<sub>3</sub>)' have not been peroxide treated.

**ALK-COL-VA** Water Alkalinity by Colourimetric (Automated) EPA 310.2

This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.

**ALK-TITR-VA** Water Alkalinity Species by Titration APHA 2320 Alkalinity

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

**CL-IC-N-VA** Water Chloride in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

**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<sub>3</sub> equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.

**HG-TOT-CVAFS-VA** Water Total Hg in Water by CVAFS LOR=50ppt EPA 1631E (mod)

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).

**MET-D-CCMS-VA** Water Dissolved Metals in Water by CRC ICPMS APHA 3030B/6020A (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

**MET-DIS-ICP-VA** Water Dissolved Metals 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 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 EPA 200.2/6020A (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

**MET-TOT-ICP-VA** Water Total Metals 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 (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

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

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

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

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

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



## Reference Information

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

**SO4-IC-N-VA**                      Water              Sulfate in Water by IC    EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

**TSS-VA**                              Water              Total Suspended Solids by Gravimetric    APHA 2540 D - GRAVIMETRIC

This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Suspended Solids (TSS) are determined by filtering a sample through a glass fibre filter, TSS is determined by drying the filter at 104 degrees celsius.

Samples containing very high dissolved solid content (i.e. seawaters, brackish waters) may produce a positive bias by this method. Alternate analysis methods are available for these types of samples.

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\*\* ALS test methods may incorporate modifications from specified reference methods to improve performance.

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*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:*

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Laboratory Definition Code	Laboratory Location
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

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**Chain of Custody Numbers:**

1-1343-005.31

**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.*



L1835022-COFC

<b>Report To</b>		<b>Report Format / Distribution</b>			<b>Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)</b>												
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, jchua@hemmera.com			Specify Date Required for E2, E or P:												
		Email 2 chris@elr.ca			<b>Analysis Request</b>												
<b>Invoice To</b> Same as Report To <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<b>Invoice Distribution</b>			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		Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input checked="" type="checkbox"/> MAIL <input type="checkbox"/> FAX															
Company: Hemmera Environchem Inc.		Email 1 or Fax nsandys@hemmera.com															
Contact: Natasha Sandys		Email 2 chris@elr.ca															
<b>Project Information</b>		Oil and Gas Required Fields (client use)															
ALS Quote #: 1343-005.31		Approver ID: [REDACTED] Cost Center: [REDACTED]															
Job #: 1343-005.31		GL*Account: [REDACTED] Routing Code: [REDACTED]															
PO / AFE:		Activity Code: [REDACTED]															
LSD:		Location: [REDACTED]															
ALS Lab Work Order # (lab use only)		ALS Contact: Sean Siuggett Sampler: JC,CH,AN,MM															
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 (excluding mercury)	Number of Containers				
	SRK05-SP-4A	20-Sep-16	14:25	Water	R	R	R	R	R	R	R	R		2			
	P09-SIS2	20-Sep-16	15:55	Water	R	R	R	R	R	R	R	R		2			
	SRK05-SP-4B	20-Sep-16	13:50	Water	R	R	R	R	R	R	R	R		2			
	P09-SIS1	20-Sep-16	17:45	Water	R	R	R	R	R	R	R	R		2			
	P09-SIS3	20-Sep-16	15:15	Water	R	R	R	R	R	R	R	R		2			
	P09-SIS4	20-Sep-16	12:55	Water	R	R	R	R	R	R	R	R		2			
	P09-SIS6	20-Sep-16	11:16	Water	R	R	R	R	R	R	R	R		2			
	SRK08-SBR2	20-Sep-16	16:40	Water	R	R	R	R	R	R	R	R		2			
	FB-1	20-Sep-16	16:40	Water	R	R	R	R	R	R	R	R		2			
	DUP-2	20-Sep-16	16:40	Water	R	R	R	R	R	R	R	R		2			
	S1A	20-Sep-16	16:00	Water	R	R	R	R	R	R	R	R		2			
	SRK08-SP7B	20-Sep-16	14:20	Water	R	R	R	R	R	R	R	R		2			
<b>Drinking Water (DW) Samples<sup>1</sup> (client use)</b>		<b>Special Instructions / Specify Criteria to add on report (client Use)</b>			<b>SAMPLE CONDITION AS RECEIVED (lab use only)</b>												
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"/>												
Are samples for human drinking water use? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					Ice packs Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/>												
					Cooling Initiated <input checked="" type="checkbox"/>												
					INITIAL COOLER TEMPERATURES °C					FINAL COOLER TEMPERATURES °C							
<b>SHIPMENT RELEASE (client use)</b>				<b>INITIAL SHIPMENT RECEPTION (lab use only)</b>				<b>FINAL SHIPMENT RECEPTION (lab use only)</b>									
Released by: [Signature]		Date: 20-sept-16		Time: 10:50		Received by: [Signature]		Date: 26 SEP-16		Time: 11:00		Received by: FIMC		Date: Sept-27		Time: 11:00	

**Short Holding Time**  
**Rush Processing**  
 TSS EXTRA

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

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

Initial Temps: 4.0, 2.0, 2.0, 3.0, 3.0  
 3.0, 1.0, 2.0, 1.0



L1835022-COFC

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, jchua@hemmera.com			Specify Date Required for E2, E or P:												
		Email 2 chris@elr.ca			Analysis Request												
Invoice To Same as Report To <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Invoice Distribution			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		Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input checked="" type="checkbox"/> MAIL <input type="checkbox"/> FAX															
Company: Hemmera Environchem Inc.		Email 1 or Fax nsandys@hemmera.com															
Contact: Natasha Sandys		Email 2 chris@elr.ca															
Project Information		Oil and Gas Required Fields (client use)															
ALS Quote #: 1343-005.31		Approver ID: [REDACTED] Cost Center: [REDACTED]															
Job #: 1343-005.31		GL Account: [REDACTED] Routing Code: [REDACTED]															
PO / AFE:		Activity Code: [REDACTED]															
LSD:		Location: [REDACTED]															
ALS Lab Work Order # (lab use only)		ALS Contact: Sean Sluggett			Sampler: JC, CH, AN, MM												
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 6.3)	alkalinity	chloride	conductivity	pH	sulphate	suspended solids, total (TSS)	dissolved metals (excluding mercury)	Number of Containers				
CH14-107-MW007A		20-Sep-16	12:30	Water	R	R	R	R	R	R	R	R		2			
SRK08-SP7A		20-Sep-16	14:50	Water	R	R	R	R	R	R	R	R		2			
CH14-107-MW007B		20-Sep-16	13:10	Water	R	R	R	R	R	R	R	R		2			
DUP-1		20-Sep-16	13:10	Water	R	R	R	R	R	R	R	R		2			
CH14-107-MW009		20-Sep-16	10:55	Water	R	R	R	R	R	R	R	R		2			
CH14-107-MW010		20-Sep-16	11:50	Water	R	R	R	R	R	R	R	R		2			
SRK08-SBR3		21-Sep-16	10:25	Water	R	R	R	R	R	R	R	R		2			
SRK08-SBR4		21-Sep-16	9:55	Water	R	R	R	R	R	R	R	R		2			
SRK05-SP-5		21-Sep-16	9:05	Water	R	R	R	R	R	R	R	R		2			
CH15-107-MW025		21-Sep-16	12:52	Water	R	R	R	R	R	R	R	R		2			
P96-7		21-Sep-16	11:25	Water	R	R	R	R	R	R	R	R		2			
P03-05-02		21-Sep-16	15:55	Water	R	R	R	R	R	R	R	R		2			
Drinking Water (DW) Samples <sup>1</sup> (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"/>												
Are samples for human drinking water use? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					Ice packs Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/>												
					Cooling Initiated <input checked="" 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: [Signature]	Date: 26-sept-16	Time: 10:50	Received by: [Signature]	Date: 26-SEP-16	Time: 11:00	Received by: HMC	Date: Sept. 27	Time: 11:00									

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NA-FAC-0326-V01 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.

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

 Initial Temps: 4.0, 2.0, 2.0, 3.0, 3.0  
 30.1, 0, 2.0, 1.0



**Chain of Custody (COC) / Analytical Request Form**

Canada Toll Free: 1 800 668 9878



L1835022-COFC

COC Number: 1 - 1343-005.31

Page 3 of 10

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<b>Report To</b>		<b>Report Format / Distribution</b>			<b>Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)</b>															
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, jchua@hemmera.com			Specify Date Required for E2, E or P:															
		Email 2 chris@elr.ca			<b>Analysis Request</b>															
<b>Invoice To</b>		<b>Invoice Distribution</b>			Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below															
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																		
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																		
Contact: Natasha Sandys																				
<b>Project Information</b>		<b>Oil and Gas Required Fields (client use)</b>																		
ALS Quote #: 1343-005.31		Approver, ID: [REDACTED] Cost Center: [REDACTED]																		
Job #: 1343-005.31		GL Account: [REDACTED] Routing Code: [REDACTED]																		
PO / AFE:		Activity Code: [REDACTED]																		
LSD:		Location: [REDACTED]																		
ALS Lab Work Order # (lab use only)		ALS Contact: Sean Sluggett			Sampler: JC, CH, AN, MM															
<b>ALS Sample # (lab use only)</b>		<b>Sample Identification and/or Coordinates (This description will appear on the report)</b>			<b>Date (dd-mmm-yy)</b>		<b>Time (hh:mm)</b>		<b>Sample Type</b>											
P03-05-04					21-Sep-16		17:12		Water											
P03-04-06					21-Sep-16		15:15		Water											
CH15-107-MW022					21-Sep-16		11:10		Water											
P03-06-2					21-Sep-16		17:15		Water											
CH15-107-MW023					21-Sep-16		13:30		Water											
CH15-107-MW019					21-Sep-16		11:50		Water											
S1B					21-Sep-16		9:30		Water											
S2A					21-Sep-16		9:10		Water											
S2B					21-Sep-16		8:20		Water											
SRK05-07					22-Sep-16		14:50		Water											
SRK05-08					22-Sep-16		15:35		Water											
V34					22-Sep-16		8:55		Water											
<b>Drinking Water (DW) Samples<sup>1</sup> (client use)</b>		<b>Special Instructions / Specify Criteria to add on report (client use)</b>			<b>SAMPLE CONDITION AS RECEIVED (lab use only)</b>															
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"/>															
Are samples for human drinking water use? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					Ice packs Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/>															
					Cooling Initiated <input checked="" type="checkbox"/>															
					INITIAL COOLER TEMPERATURES °C					FINAL COOLER TEMPERATURES °C										
<b>SHIPMENT RELEASE (client use)</b>		<b>INITIAL SHIPMENT RECEPTION (lab use only)</b>			<b>FINAL SHIPMENT RECEPTION (lab use only)</b>															
Released by: [Signature]		Date: 26-SEP-16		Time: 10:50		Received by: [Signature]		Date: 26-SEP-16		Time: 11:00		Received by: Hmc		Date: 27-SEP-16		Time: 11:00				

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NA-FRM-0328e v08 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.

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

Initial Temps: 40, 2.0, 2.0, 3.0, 3.0  
30, 1.0, 2.0, 1.0



L1835022-COFC

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 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, jchua@hemmera.com				Specify Date Required for E2, E or P:													
		Email 2 chris@elr.ca				<b>Analysis Request</b>													
Invoice To Same as Report To <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Invoice Distribution				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		Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input checked="" type="checkbox"/> MAIL <input type="checkbox"/> FAX																	
Company: Hemmera Environchem Inc.		Email 1 or Fax nsandys@hemmera.com																	
Contact: Natasha Sandys		Email 2 chris@elr.ca																	
<b>Project Information</b>		Oil and Gas Required Fields (client use)																	
ALS Quote #: 1343-005.31		Approver ID:		Cost Center:															
Job #: 1343-005.31		GL Account:		Routing Code:															
PO / AFE:		Activity Code:																	
LSD:		Location:																	
ALS Lab Work Order # (lab use only)		ALS Contact: Sean Sluggett		Sampler: JC, CH, AN, MM															
ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	acidity (to pH 8.3)	alkalinity	chloride	conductivity	pH	sulphate	suspended solids, total (TSS)	dissolved metals (excluding mercury)					Number of Containers		
V35		22-Sep-16	10:10	Water	R	R	R	R	R	R	R	R					2		
V36		22-Sep-16	13:05	Water	R	R	R	R	R	R	R	R					2		
FB-3		22-Sep-16	13:05	Water	R	R	R	R	R	R	R	R					2		
DUP-4		22-Sep-16	13:05	Water	R	R	R	R	R	R	R	R					2		
SRK05-9		22-Sep-16	17:25	Water	R	R	R	R	R	R	R	R					2		
CH14-107-MW006A		22-Sep-16	17:45	Water	R	R	R	R	R	R	R	R					2		
CH14-107-MW006B		22-Sep-16	18:10	Water	R	R	R	R	R	R	R	R					2		
X18A		22-Sep-16	14:05	Water	R	R	R	R	R	R	R	R					2		
P01-01B		22-Sep-16	16:35	Water	R	R	R	R	R	R	R	R					2		
P01-01A		22-Sep-16	15:50	Water	R	R	R	R	R	R	R	R					2		
DUP-5		22-Sep-16	15:50	Water	R	R	R	R	R	R	R	R					2		
X16A		22-Sep-16	12:10	Water	R	R	R	R	R	R	R	R					2		
Drinking Water (DW) Samples <sup>1</sup> (client use)		Special Instructions / Specify Criteria to add on report (client Use)				<b>SAMPLE CONDITION AS RECEIVED (lab use only)</b>													
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"/>													
Are samples for human drinking water use? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						Ice packs Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/>													
INITIAL COOLER TEMPERATURES °C												FINAL COOLER TEMPERATURES °C							
<b>SHIPMENT RELEASE (client use)</b>				<b>INITIAL SHIPMENT RECEPTION (lab use only)</b>				<b>FINAL SHIPMENT RECEPTION (lab use only)</b>											
Released by: <i>[Signature]</i>	Date: 26-Sep-16	Time: 10:50	Received by: <i>[Signature]</i>	Date: 26-Sep-16	Time: 11:00	Received by: <i>[Signature]</i>	Date: 27-Sep-16	Time: 12:00											

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NA-FM-0220a V06 From 04 January 2014

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

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

 Initial Temps: 4.0, 2.0, 2.0, 3.0, 3.0  
 3.0, 1.0, 2.0, 1.0







<b>Report To</b>		<b>Report Format / Distribution</b>				<b>Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)</b>													
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, jchua@hemmera.com				Specify Date Required for E2, E or P:													
		Email 2 chris@elr.ca				<b>Analysis Request</b>													
<b>Invoice To</b> Same as Report To <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<b>Invoice Distribution</b>				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		Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input checked="" type="checkbox"/> MAIL <input type="checkbox"/> FAX																	
Company: Hemmera Environchem Inc.		Email 1 or Fax nsandys@hemmera.com																	
Contact: Natasha Sandys		Email 2 chris@elr.ca																	
<b>Project Information</b>		Oil and Gas Required Fields (client use)																	
ALS Quote #: 1343-005.31		Approver ID:		Cost Center:															
Job #: 1343-005.31		GL Account:		Routing Code:															
PO / AFE:		Activity Code:																	
LSD:		Location:																	
ALS Lab Work Order # (lab use only)		ALS Contact: Sean Sluggett		Sampler: JC, CH, AN, MM															
<b>ALS Sample # (lab use only)</b>	<b>Sample Identification and/or Coordinates (This description will appear on the report)</b>	<b>Date (dd-mmm-yy)</b>	<b>Time (hh:mm)</b>	<b>Sample Type</b>	acidity (to pH 8.3)	alkalinity	chloride	conductivity	pH	sulphate	suspended solids, total (TSS)	dissolved metals (excluding mercury)					Number of Containers		
	P03-08-09	23-Sep-16	18:00	Water	R	R	R	R	R	R	R	R						2	
	SRK04-3A	23-Sep-16	8:30	Water	R	R	R	R	R	R	R	R						2	
	P03-09-02	23-Sep-16	16:45	Water	R	R	R	R	R	R	R	R						2	
	P03-09-04	23-Sep-16	17:20	Water	R	R	R	R	R	R	R	R						2	
	P03-09-08	23-Sep-16	17:47	Water	R	R	R	R	R	R	R	R						2	
	P01-02A	23-Sep-16	14:40	Water	R	R	R	R	R	R	R	R						2	
	P01-02B	23-Sep-16	14:20	Water	R	R	R	R	R	R	R	R						2	
	P05-03	23-Sep-16	13:07	Water	R	R	R	R	R	R	R	R						2	
	FB-4	23-Sep-16	13:07	Water	R	R	R	R	R	R	R	R						2	
	P05-02	23-Sep-16	13:10	Water	R	R	R	R	R	R	R	R						2	
	DUP-6	23-Sep-16	13:10	Water	R	R	R	R	R	R	R	R						2	
	P05-01-01	23-Sep-16	12:10	Water	R	R	R	R	R	R	R	R						2	
<b>Drinking Water (DW) Samples<sup>1</sup> (client use)</b>		<b>Special Instructions / Specify Criteria to add on report (client Use)</b>				<b>SAMPLE CONDITION AS RECEIVED (lab use only)</b>													
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"/>													
Are samples for human drinking water use? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						Ice packs Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/>													
						Cooling Initiated <input checked="" type="checkbox"/>													
						INITIAL COOLER TEMPERATURES °C						FINAL COOLER TEMPERATURES °C							
<b>SHIPMENT RELEASE (client use)</b>				<b>INITIAL SHIPMENT RECEPTION (lab use only)</b>				<b>FINAL SHIPMENT RECEPTION (lab use only)</b>											
Released by: <i>[Signature]</i>		Date: 26-2016		Time: 10:50		Received by: <i>[Signature]</i>		Date: 26-SEP-16		Time: 11:00		Received by: <i>[Signature]</i>				Date: 26-27		Time: 11:00	

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

14-FM-9328e v09 From/CA January 2014

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

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

 Initial Temps: 4.0, 2.0, 2.0, 3.0, 3.0  
 3.0, 1.0, 2.0, 1.0





L1835022-COFC

<b>Report To</b>		<b>Report Format / Distribution</b>				<b>Select Service Level Below</b> (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, jchua@hemmera.com				Specify Date Required for E2, E or P:											
		Email 2 chris@elr.ca				<b>Analysis Request</b>											
<b>Invoice To</b>		<b>Invoice Distribution</b>				Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below											
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															
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															
Contact: Natasha Sandys																	
<b>Project Information</b>		<b>Oil and Gas Required Fields (client use)</b>															
ALS Quote #: 1343-005.31		Approver ID:		Cost Center:													
Job #: 1343-005.31		GL Account:		Routing Code:													
PO / AFE:		Activity Code:		Location:													
LSD:		ALS Contact: Sean Sluggett		Sampler: JC, CH, AN, MM													
ALS Lab Work Order # (lab use only)																	
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 (excluding mercury)	F/P	Number of Containers	
P05-01-05				23-Sep-16	11:10	Water	R	R	R	R	R	R	R	R		2	
P09-GS1B				24-Sep-16	12:40	Water	R	R	R	R	R	R	R	R		2	
CH15-107-MW030				24-Sep-16	13:55	Water	R	R	R	R	R	R	R	R		2	
P2001-2B				24-Sep-16	11:20	Water	R	R	R	R	R	R	R	R		2	
V37				24-Sep-16	10:40	Water	R	R	R	R	R	R	R	R		2	
P09-LCD1				24-Sep-16	9:00	Water	R	R	R	R	R	R	R	R		2	
DUP-7				24-Sep-16	9:00	Water	R	R	R	R	R	R	R	R		2	
P09-LCD6				24-Sep-16	10:20	Water	R	R	R	R	R	R	R	R		2	
P2001-2A				24-Sep-16	11:00	Water	R	R	R	R	R	R	R	R		2	
CH15-107-MW033				24-Sep-16	15:40	Water	R	R	R	R	R	R	R	R		2	
P09-GS1A				24-Sep-16	12:15	Water	R	R	R	R	R	R	R	R		2	
CH15-107-MW029				24-Sep-16	16:55	Water	R	R	R	R	R	R	R	R		2	
<b>Drinking Water (DW) Samples<sup>1</sup> (client use)</b>				<b>Special Instructions / Specify Criteria to add on report (client Use)</b>								<b>SAMPLE CONDITION AS RECEIVED (lab use only)</b>					
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"/>					
Are samples for human drinking water use? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No												Ice packs Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/>					
												Cooling Initiated <input checked="" type="checkbox"/>					
												INITIAL COOLER TEMPERATURES °C					
												FINAL COOLER TEMPERATURES °C					
<b>SHIPMENT RELEASE (client use)</b>				<b>INITIAL SHIPMENT RECEPTION (lab use only)</b>								<b>FINAL SHIPMENT RECEPTION (lab use only)</b>					
Released by: <i>[Signature]</i>		Date: 26 Sep 16	Time: 10:50	Received by: <i>[Signature]</i>		Date: 26 Sep 16	Time: 11:00	Received by: <i>[Signature]</i>		Date: 26 Sep 16	Time: 1100						

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NA-FM-0226e-09 From 04 January 2014

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

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

Initial Temp: 4.0, 2.0, 2.9, 3.0, 3.0  
3.0, 1.0, 2.0, 1.0



L1835022-COFC

<b>Report To</b>		<b>Report Format / Distribution</b>			<b>Select Service Level Below</b> (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, jchua@hemmera.com			Specify Date Required for E2,E or P:												
		Email 2 chris@elr.ca			<b>Analysis Request</b>												
<b>Invoice To</b>		<b>Invoice Distribution</b>			Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below												
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															
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															
Contact: Natasha Sandys																	
<b>Project Information</b>		<b>Oil and Gas Required Fields (client use)</b>															
ALS Quote #: 1343-005.31		Approver ID: [REDACTED] Cost Center: [REDACTED]															
Job #: 1343-005.31		GL Account: [REDACTED] Routing Code: [REDACTED]															
PO / AFE:		Activity Code: [REDACTED]															
LSD:		Location: [REDACTED]															
ALS Lab Work Order # (lab use only)		ALS Contact: Sean Sluggett			Sampler: JC,CH,AN,MM												
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 (excluding mercury)	Number of Containers				
FB-5		24-Sep-16	16:55	Water	R	R	R	R	R	R	R	R		2			
CH15-107-MW034		24-Sep-16	14:55	Water	R	R	R	R	R	R	R	R		2			
DUP-9		24-Sep-16	14:55	Water	R	R	R	R	R	R	R	R		2			
BH14B		24-Sep-16	19:00	Water	R	R	R	R	R	R	R	R		2			
P03-04-02		24-Sep-16	8:50	Water	R	R	R	R	R	R	R	R		2			
P03-04-04		24-Sep-16	9:50	Water	R	R	R	R	R	R	R	R		2			
P03-06-03		24-Sep-16	13:00	Water	R	R	R	R	R	R	R	R		2			
P03-06-01		24-Sep-16	11:52	Water	R	R	R	R	R	R	R	R		2			
P03-06-04		24-Sep-16	13:20	Water	R	R	R	R	R	R	R	R		2			
P03-05-05		24-Sep-16	10:55	Water	R	R	R	R	R	R	R	R		2			
P03-06-05		24-Sep-16	11:45	Water	R	R	R	R	R	R	R	R		2			
BH10A		24-Sep-16	14:50	Water	R	R	R	R	R	R	R	R		2			
<b>Drinking Water (DW) Samples<sup>1</sup> (client use)</b>		<b>Special Instructions / Specify Criteria to add on report (client Use)</b>			<b>SAMPLE CONDITION AS RECEIVED (lab use only)</b>												
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"/>												
Are samples for human drinking water use? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					Ice packs Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/>												
					Cooling Initiated <input checked="" type="checkbox"/>												
					INITIAL COOLER TEMPERATURES °C					FINAL COOLER TEMPERATURES °C							
<b>SHIPMENT RELEASE (client use)</b>				<b>INITIAL SHIPMENT RECEPTION (lab use only)</b>				<b>FINAL SHIPMENT RECEPTION (lab use only)</b>									
Released by: <i>[Signature]</i>	Date: 20 Sep-16	Time: 10:50	Received by: <i>[Signature]</i>	Date: 26 Sep-16	Time: 11:00	Received by: <i>[Signature]</i>	Date: 27 Sep-16	Time: 11:00									

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NA-FM-0228a v00 Form/04 January 2014

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

 Initial Temps: 4.0, 2.0, 2.0, 3.0, 3.0  
 3.0, 1.0, 2.0, 1.0

