

HEMMERA ENVIROCHEM INC.

ATTN: Natasha Sandys 230 - 2237 2nd Avenue Whitehorse YK Y1A 0K7 Date Received: 11-OCT-14

Report Date: 24-OCT-14 10:41 (MT)

Version: FINAL

Client Phone: 867-456-4865

Certificate of Analysis

Lab Work Order #: L1531711

Project P.O. #: NOT SUBMITTED

Job Reference: 1343-005.05

C of C Numbers: 1, 2

Legal Site Desc:

13 Hack

Brent Mack, B.Sc. Account Manager

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ADDRESS: 8081 Lougheed Hwy, Suite 100, Burnaby, BC V5A 1W9 Canada | Phone: +1 604 253 4188 | Fax: +1 604 253 6700 ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company



L1531711 CONTD.... PAGE 2 of 17 24-OCT-14 10:41 (MT)

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1531711-1 Water 10-OCT-14 10:20 GSI-DC-06B	L1531711-2 Water 10-OCT-14 10:20 FB4	L1531711-3 Water 10-OCT-14 11:10 GSI-DC-08B	L1531711-4 Water 09-OCT-14 17:45 CH-P-13-03/50	L1531711-5 Water 10-OCT-14 14:30 CH-P-13-04/10
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	1130	<2.0	999	2630	912
	Hardness (as CaCO3) (mg/L)	734	<0.50	560	1820	541
	pH (pH)	7.90	5.59	7.36	7.71	8.03
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	702	<2.0	403	382	217
	Ammonia, Total (as N) (mg/L)	2.90	<0.0050		0.190	0.0444
	Chloride (CI) (mg/L)	10.3	<0.50	3.2	<10 DLA	1.80
	Fluoride (F) (mg/L)	0.33	<0.020	0.14	<0.40 DLA	0.112
	Nitrate (as N) (mg/L)	<0.050	<0.0050	<0.025	0.27	0.0159
	Nitrite (as N) (mg/L)	<0.010	<0.0010	0.0200	0.072	<0.0010
	Total Kjeldahl Nitrogen (mg/L)	8.39	<0.050		2.52	0.577
	Sulfate (SO4) (mg/L)	5.0	<0.50	190	1390	306
	Sulphide as S (mg/L)	0.020	<0.020		0.025	<0.020
	Anion Sum (meq/L)	14.4	<0.10	12.1	36.5	10.8
	Cation Sum (meq/L)	17.3	<0.10	19.4	39.7	11.4
	Cation - Anion Balance (%)	9.0	0.0	23.1	4.2	2.7
Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050	<0.0050		<0.0050	<0.0050
	Cyanide, Total (mg/L)	<0.0050	<0.0050		<0.0050	<0.0050
	Thiocyanate (SCN) (mg/L)	<0.50	<0.50		<0.50	<0.50
	Cyanide, Free (mg/L)	<0.0050	<0.0050		<0.0050	<0.0050
Organic / Inorganic Carbon	Total Inorganic Carbon (mg/L)	105	<0.50		87.0	
	Total Organic Carbon (mg/L)	79.6	<0.50		57.8	13.1
Total Metals	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)					
	Bismuth (Bi)-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)					

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

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ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1531711-6 Water 10-OCT-14 12:59 GSI-DC-10B	L1531711-7 Water 10-OCT-14 11:59 GSI-DC-09B	L1531711-8 Water 10-OCT-14 09:02 MW09-07	L1531711-9 Water 10-OCT-14 11:50 GSI-DC-07B	L1531711-10 Water 10-OCT-14 15:13 CH-P-13-01/10
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	1050	411	1780	525	1030
	Hardness (as CaCO3) (mg/L)	548	194	971	261	624
	pH (pH)	6.83	7.40	7.40	7.75	8.17
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	138	81.0	212	149	167
	Ammonia, Total (as N) (mg/L)	1.61	1.74 RRV	2.00	1.39	0.0209
	Chloride (CI) (mg/L)	<5.0	<0.50	<5.0	0.56	2.5
	Fluoride (F) (mg/L)	<0.20	0.054	<0.20	0.081	<0.10 DLA
	Nitrate (as N) (mg/L)	<0.050	<0.0050	<0.050	<0.0050	0.259
	Nitrite (as N) (mg/L)	<0.010	<0.0010	<0.010	<0.0010	<0.0050
	Total Kjeldahl Nitrogen (mg/L)	2.80	2.61	3.65	1.87	0.472
	Sulfate (SO4) (mg/L)	496	128	893	135	437
	Sulphide as S (mg/L)	0.024	<0.020	0.54	0.024	
	Anion Sum (meq/L)	13.1	4.28	22.8	5.80	12.5
	Cation Sum (meq/L)	16.3	5.28	22.6	6.76	13.0
	Cation - Anion Balance (%)	11.0	10.4	-0.6	7.7	1.7
Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Cyanide, Total (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Thiocyanate (SCN) (mg/L)	<0.50	<0.50	<0.50	<0.50	
	Cyanide, Free (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Organic / Inorganic Carbon	Total Inorganic Carbon (mg/L)	25.4	16.1	42.2	30.2	
	Total Organic Carbon (mg/L)	35.2	21.2	29.8	18.1	12.4
Total Metals	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)					
	Bismuth (Bi)-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)					

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ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1531711-11 Water 10-OCT-14 13:15 MP09-09	L1531711-12 Water 10-OCT-14 14:00 MP09-10	L1531711-13 Water 10-OCT-14 11:50 DUP6	L1531711-15 Water 11-OCT-14 TRIP BLANK 1	L1531711-16 Water 11-OCT-14 TRIP BLANK 2
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	513	629	523	<2.0	<2.0
	Hardness (as CaCO3) (mg/L)	216	261	260	<0.50	<0.50
	pH (pH)	8.90	8.59	7.32	5.55	5.49
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	82.6	90.5	148	<2.0	<2.0
	Ammonia, Total (as N) (mg/L)	3.71	5.21	1.39	0.0093	<0.0050
	Chloride (CI) (mg/L)	2.47	2.63	0.58	<0.50	<0.50
	Fluoride (F) (mg/L)	1.77	1.54	0.062	<0.020	<0.020
	Nitrate (as N) (mg/L)	0.0124	0.0270	<0.0050	<0.0050	<0.0050
	Nitrite (as N) (mg/L)	0.0058	0.0841	<0.0010	<0.0010	<0.0010
	Total Kjeldahl Nitrogen (mg/L)	5.59	12.0	1.91	<0.050	<0.050
	Sulfate (SO4) (mg/L)	148	212	135	<0.50	<0.50
	Sulphide as S (mg/L)	<2.0 DLM	<0.020	0.024	<0.020	<0.020
	Anion Sum (meq/L)	4.89	6.39	5.80	<0.10	<0.10
	Cation Sum (meq/L)	5.91	7.05	6.73	<0.10	<0.10
	Cation - Anion Balance (%)	9.4	4.9	7.4	0.0	0.0
Cyanides	Cyanide, Weak Acid Diss (mg/L)	0.602	1.11	<0.0050	<0.0050	<0.0050
	Cyanide, Total (mg/L)	1.98	11.1	<0.0050	<0.0050	<0.0050
	Thiocyanate (SCN) (mg/L)	<0.50	<0.50	<0.50	<0.50	<0.50
	Cyanide, Free (mg/L)	0.356	1.04	<0.0050	<0.0050	<0.0050
Organic / Inorganic Carbon	Total Inorganic Carbon (mg/L)	8.8	28.0	36.0	<0.50	<0.50
	Total Organic Carbon (mg/L)	33.3	46.6	17.9	<0.50	<0.50
Total Metals	Aluminum (AI)-Total (mg/L)				<0.0030	<0.0030
	Antimony (Sb)-Total (mg/L)				<0.00010	<0.00010
	Arsenic (As)-Total (mg/L)				<0.00010	<0.00010
	Barium (Ba)-Total (mg/L)				<0.000050	<0.000050
	Beryllium (Be)-Total (mg/L)				<0.00010	<0.00010
	Bismuth (Bi)-Total (mg/L)				<0.00050	<0.00050
	Boron (B)-Total (mg/L)				<0.010	<0.010
	Cadmium (Cd)-Total (mg/L)				<0.000010	<0.000010
	Calcium (Ca)-Total (mg/L)				<0.050	<0.050
	Chromium (Cr)-Total (mg/L)				<0.00010	<0.00010
	Cobalt (Co)-Total (mg/L)				<0.00010	<0.00010
	Copper (Cu)-Total (mg/L)				<0.00050	<0.00050
	Iron (Fe)-Total (mg/L)				<0.010	<0.010
	Lead (Pb)-Total (mg/L)				<0.000050	<0.000050
	Lithium (Li)-Total (mg/L)				<0.00050	<0.00050

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ALS ENVIRONMENTAL ANALYTICAL REPORT

					version	FINAL
	Sample ID Description Sampled Date Sampled Time Client ID	L1531711-17 Water 10-OCT-14 12:59 GSI-DC-10B DISSOLVED METALS TEST	L1531711-18 Water 10-OCT-14 13:15 MP09-09 DISSOLVED METALS TEST	L1531711-19 Water 10-OCT-14 10:20 GSI-DC-06B DISSOLVED METALS TEST		
Grouping	Analyte	WE TALO TEOT	WETAES TEST	WE THE TEST		
WATER	•					
Physical Tests	Conductivity (uS/cm)					
	Hardness (as CaCO3) (mg/L)	555	213	749		
	pH (pH)	000	2.0	7 10		
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)					
	Ammonia, Total (as N) (mg/L)					
	Chloride (CI) (mg/L)					
	Fluoride (F) (mg/L)					
	Nitrate (as N) (mg/L)					
	Nitrite (as N) (mg/L)					
	Total Kjeldahl Nitrogen (mg/L)					
	Sulfate (SO4) (mg/L)					
	Sulphide as S (mg/L)					
	Anion Sum (meq/L)					
	Cation Sum (meq/L)					
	Cation - Anion Balance (%)					
Cyanides	Cyanide, Weak Acid Diss (mg/L)					
	Cyanide, Total (mg/L)					
	Thiocyanate (SCN) (mg/L)					
	Cyanide, Free (mg/L)					
Organic / Inorganic Carbon	Total Inorganic Carbon (mg/L)					
	Total Organic Carbon (mg/L)					
Total Metals	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)					
	Bismuth (Bi)-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)					

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ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1531711-1 Water 10-OCT-14 10:20 GSI-DC-06B	L1531711-2 Water 10-OCT-14 10:20 FB4	L1531711-3 Water 10-OCT-14 11:10 GSI-DC-08B	L1531711-4 Water 09-OCT-14 17:45 CH-P-13-03/50	L1531711-5 Water 10-OCT-14 14:30 CH-P-13-04/10
Grouping	Analyte					
WATER						
Total Metals	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)					
	Phosphorus (P)-Total (mg/L)					
	Potassium (K)-Total (mg/L)					
	Selenium (Se)-Total (mg/L)					
	Silicon (Si)-Total (mg/L)					
	Silver (Ag)-Total (mg/L)					
	Sodium (Na)-Total (mg/L)					
	Strontium (Sr)-Total (mg/L)					
	Sulfur (S)-Total (mg/L)					
	Thallium (TI)-Total (mg/L)					
	Tin (Sn)-Total (mg/L)					
	Titanium (Ti)-Total (mg/L)					
	Uranium (U)-Total (mg/L)					
	Vanadium (V)-Total (mg/L)					
	Zinc (Zn)-Total (mg/L)					
Dissolved Metals	Dissolved Mercury Filtration Location	NA	NA	NA	NA	NA
	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (AI)-Dissolved (mg/L)	0.0169	<0.0010	0.394	0.0065	0.0033
	Antimony (Sb)-Dissolved (mg/L)	0.00029	<0.00010	0.00185	0.00103	0.00107
	Arsenic (As)-Dissolved (mg/L)	0.326	<0.00010	0.0945	0.00195	0.00128
	Barium (Ba)-Dissolved (mg/L)	0.240	<0.000050	0.180	0.0623	0.0317
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.0010	<0.00050
	Boron (B)-Dissolved (mg/L)	<0.010	<0.010	0.110	<0.020	0.019
	Cadmium (Cd)-Dissolved (mg/L)	<0.000010	<0.000010	0.000038	0.000192	0.000674
	Calcium (Ca)-Dissolved (mg/L)	177	<0.050	154	455	107
	Chromium (Cr)-Dissolved (mg/L)	0.00181	<0.00010	0.0737	<0.00020	0.00027
	Cobalt (Co)-Dissolved (mg/L)	0.00220	<0.00010	0.0190	0.0213	0.0122
	Copper (Cu)-Dissolved (mg/L)	0.00052	<0.00020	0.00179	0.00068	0.00210
	Iron (Fe)-Dissolved (mg/L)	23.2	<0.010	125	1.05	0.146
	Lead (Pb)-Dissolved (mg/L)	0.000059	<0.000050	0.00180	<0.00010	0.000098
	Lithium (Li)-Dissolved (mg/L)	<0.00050	<0.00050	0.00129	0.0037	0.0113
	Magnesium (Mg)-Dissolved (mg/L)	71.0	<0.10	42.6	166	66.2

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ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1531711-6 Water 10-OCT-14 12:59 GSI-DC-10B	L1531711-7 Water 10-OCT-14 11:59 GSI-DC-09B	L1531711-8 Water 10-OCT-14 09:02 MW09-07	L1531711-9 Water 10-OCT-14 11:50 GSI-DC-07B	L1531711-10 Water 10-OCT-14 15:13 CH-P-13-01/10
Grouping	Analyte					
WATER						
Total Metals	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)					
	Phosphorus (P)-Total (mg/L)					
	Potassium (K)-Total (mg/L)					
	Selenium (Se)-Total (mg/L)					
	Silicon (Si)-Total (mg/L)					
	Silver (Ag)-Total (mg/L)					
	Sodium (Na)-Total (mg/L)					
	Strontium (Sr)-Total (mg/L)					
	Sulfur (S)-Total (mg/L)					
	Thallium (TI)-Total (mg/L)					
	Tin (Sn)-Total (mg/L)					
	Titanium (Ti)-Total (mg/L)					
	Uranium (U)-Total (mg/L)					
	Vanadium (V)-Total (mg/L)					
	Zinc (Zn)-Total (mg/L)					
Dissolved Metals	Dissolved Mercury Filtration Location	NA	NA	NA	NA	NA
	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.142	0.0477	0.0491	0.0103	0.0087
	Antimony (Sb)-Dissolved (mg/L)	0.00035	0.00021	0.00568	0.00017	0.00220
	Arsenic (As)-Dissolved (mg/L)	0.130	0.0453	0.556	0.144	0.00206
	Barium (Ba)-Dissolved (mg/L)	0.424	0.0341	0.0220	0.0715	0.0635
	Beryllium (Be)-Dissolved (mg/L)	DLA <0.00020	<0.00010	<0.00020	<0.00010	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	OLA <0.0010	<0.00050	<0.0010	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)	DLA <0.020	0.012	0.058	0.011	0.017
	Cadmium (Cd)-Dissolved (mg/L)	<0.00020	<0.000010	0.000223	<0.000010	0.000168
	Calcium (Ca)-Dissolved (mg/L)	152	49.7	297	73.7	150
	Chromium (Cr)-Dissolved (mg/L)	0.00231	0.00086	0.00096	0.00045	0.00018
	Cobalt (Co)-Dissolved (mg/L)	0.0215	0.00096	0.0264	0.00155	0.00048
	Copper (Cu)-Dissolved (mg/L)	0.00097	<0.00020	0.00606	<0.00020	0.0101
	Iron (Fe)-Dissolved (mg/L)	68.7	14.2	9.16	14.3	0.057
	Lead (Pb)-Dissolved (mg/L)	0.00014	<0.000050	<0.00010	<0.000050	0.000217
	Lithium (Li)-Dissolved (mg/L)	O.0010	<0.00050	0.0029	0.00110	0.00325
	Magnesium (Mg)-Dissolved (mg/L)	40.7	16.9	55.7	18.8	60.9

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ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1531711-11 Water 10-OCT-14 13:15 MP09-09	L1531711-12 Water 10-OCT-14 14:00 MP09-10	L1531711-13 Water 10-OCT-14 11:50 DUP6	L1531711-15 Water 11-OCT-14 TRIP BLANK 1	L1531711-16 Water 11-OCT-14 TRIP BLANK 2
Grouping	Analyte					
WATER						
Total Metals	Magnesium (Mg)-Total (mg/L)				<0.10	<0.10
	Manganese (Mn)-Total (mg/L)				<0.000050	<0.000050
	Mercury (Hg)-Total (mg/L)				<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)				<0.000050	<0.000050
	Nickel (Ni)-Total (mg/L)				<0.00050	<0.00050
	Phosphorus (P)-Total (mg/L)				<0.050	<0.050
	Potassium (K)-Total (mg/L)				<0.10	<0.10
	Selenium (Se)-Total (mg/L)				<0.00010	<0.00010
	Silicon (Si)-Total (mg/L)				<0.050	<0.050
	Silver (Ag)-Total (mg/L)				<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)				<0.050	<0.050
	Strontium (Sr)-Total (mg/L)				<0.00020	<0.00020
	Sulfur (S)-Total (mg/L)				<0.50	<0.50
	Thallium (TI)-Total (mg/L)				<0.000010	<0.000010
	Tin (Sn)-Total (mg/L)				<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)				<0.010	<0.010
	Uranium (U)-Total (mg/L)				<0.000010	<0.000010
	Vanadium (V)-Total (mg/L)				<0.0010	<0.0010
	Zinc (Zn)-Total (mg/L)				<0.0030	<0.0030
Dissolved Metals	Dissolved Mercury Filtration Location	NA	NA	NA		
	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD		
	Aluminum (AI)-Dissolved (mg/L)	0.0041	0.0037	0.0102		
	Antimony (Sb)-Dissolved (mg/L)	0.101	0.0951	0.00015		
	Arsenic (As)-Dissolved (mg/L)	20.6	9.93	0.150		
	Barium (Ba)-Dissolved (mg/L)	0.00174	0.000633	0.0698		
	Beryllium (Be)-Dissolved (mg/L)	<0.00020	<0.00010	<0.00010		
	Bismuth (Bi)-Dissolved (mg/L)	<0.0010	<0.00050	<0.00050		
	Boron (B)-Dissolved (mg/L)	0.306	0.307	0.013		
	Cadmium (Cd)-Dissolved (mg/L)	0.000322	0.000287	<0.000010		
	Calcium (Ca)-Dissolved (mg/L)	85.8	103	73.5		
	Chromium (Cr)-Dissolved (mg/L)	OLA <0.00020	<0.00010	0.00036		
	Cobalt (Co)-Dissolved (mg/L)	0.0458	0.0447	0.00153		
	Copper (Cu)-Dissolved (mg/L)	0.714	0.215	0.00060		
	Iron (Fe)-Dissolved (mg/L)	0.214	0.279	14.1		
	Lead (Pb)-Dissolved (mg/L)	0.00099	0.000806	<0.000050		
	Lithium (Li)-Dissolved (mg/L)	OLA <0.0010	<0.00050	0.00092		
	Magnesium (Mg)-Dissolved (mg/L)	0.41	0.76	18.6		

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

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ALS ENVIRONMENTAL ANALYTICAL REPORT

		1	1	I	1	l
	Sample ID Description Sampled Date Sampled Time Client ID	L1531711-17 Water 10-OCT-14 12:59 GSI-DC-10B DISSOLVED METALS TEST	L1531711-18 Water 10-OCT-14 13:15 MP09-09 DISSOLVED METALS TEST	L1531711-19 Water 10-OCT-14 10:20 GSI-DC-06B DISSOLVED METALS TEST		
Grouping	Analyte	WETALO TEOT	WETALO TEOT	WILTALO TEOT		
WATER						
Total Metals	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)					
	Phosphorus (P)-Total (mg/L)					
	Potassium (K)-Total (mg/L)					
	Selenium (Se)-Total (mg/L)					
	Silicon (Si)-Total (mg/L)					
	Silver (Ag)-Total (mg/L)					
	Sodium (Na)-Total (mg/L)					
	Strontium (Sr)-Total (mg/L)					
	Sulfur (S)-Total (mg/L)					
	Thallium (TI)-Total (mg/L)					
	Tin (Sn)-Total (mg/L)					
	Titanium (Ti)-Total (mg/L)					
	Uranium (U)-Total (mg/L)					
	Vanadium (V)-Total (mg/L)					
	Zinc (Zn)-Total (mg/L)					
Dissolved Metals	Dissolved Mercury Filtration Location	FIELD	FIELD	FIELD		
	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD		
	Aluminum (AI)-Dissolved (mg/L)	0.134	0.0051	0.0155		
	Antimony (Sb)-Dissolved (mg/L)	0.00033	0.0987	0.00026		
	Arsenic (As)-Dissolved (mg/L)	0.107	20.7	0.342		
	Barium (Ba)-Dissolved (mg/L)	0.408	0.00146	0.232		
	Beryllium (Be)-Dissolved (mg/L)	<0.00020	<0.00050	<0.00010		
	Bismuth (Bi)-Dissolved (mg/L)	<0.0010	<0.0025	<0.00050		
	Boron (B)-Dissolved (mg/L)	<0.020	0.313	<0.010		
	Cadmium (Cd)-Dissolved (mg/L)	<0.000020	0.000318	<0.000010		
	Calcium (Ca)-Dissolved (mg/L)	154	84.7	181		
	Chromium (Cr)-Dissolved (mg/L)	0.00221	<0.00050	0.00158		
	Cobalt (Co)-Dissolved (mg/L)	0.0218	0.0469	0.00219		
	Copper (Cu)-Dissolved (mg/L)	<0.00040	0.657	0.00020		
	Iron (Fe)-Dissolved (mg/L)	66.7	0.322	22.4		
	Lead (Pb)-Dissolved (mg/L)	0.00014	0.00080	<0.000050		
	Lithium (Li)-Dissolved (mg/L)	<0.0010	<0.0025	<0.00050		
	Magnesium (Mg)-Dissolved (mg/L)	41.1	0.40	71.7		

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

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ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1531711-1 Water 10-OCT-14 10:20 GSI-DC-06B	L1531711-2 Water 10-OCT-14 10:20 FB4	L1531711-3 Water 10-OCT-14 11:10 GSI-DC-08B	L1531711-4 Water 09-OCT-14 17:45 CH-P-13-03/50	L1531711-5 Water 10-OCT-14 14:30 CH-P-13-04/10
Grouping	Analyte					
WATER						
Dissolved Metals	Manganese (Mn)-Dissolved (mg/L)	5.07	<0.000050	4.58	12.5	1.35
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.00010
	Molybdenum (Mo)-Dissolved (mg/L)	0.00380	<0.000050	0.0110	0.00285	0.00273
	Nickel (Ni)-Dissolved (mg/L)	0.00368	<0.00050	0.190	0.0392	0.0457
	Phosphorus (P)-Dissolved (mg/L)	0.251	<0.050	0.218	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	3.95	<0.10	6.82	9.18	3.86
	Selenium (Se)-Dissolved (mg/L)	0.00054	<0.00010	0.00105	0.00445	0.00012
	Silicon (Si)-Dissolved (mg/L)	8.00	<0.050	10.6	6.69	4.92
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	0.000020	<0.000020	<0.000010
	Sodium (Na)-Dissolved (mg/L)	20.3	<0.050	25.1	58.6	8.85
	Strontium (Sr)-Dissolved (mg/L)	0.897	<0.00020	0.585	1.05	0.623
	Sulfur (S)-Dissolved (mg/L)	3.23	<0.50	73.1	501	106
	Thallium (TI)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000020	0.000045
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	0.00050	0.00092	0.00143
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	0.028	<0.020	<0.010
	Uranium (U)-Dissolved (mg/L)	0.000155	<0.000010	0.00205	0.0101	0.000980
	Vanadium (V)-Dissolved (mg/L)	0.0085	<0.0010	0.0816	<0.0020	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	0.0018	<0.0010	0.0170	0.0239	0.156

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

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ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1531711-6 Water 10-OCT-14 12:59 GSI-DC-10B	L1531711-7 Water 10-OCT-14 11:59 GSI-DC-09B	L1531711-8 Water 10-OCT-14 09:02 MW09-07	L1531711-9 Water 10-OCT-14 11:50 GSI-DC-07B	L1531711-10 Water 10-OCT-14 15:13 CH-P-13-01/10
Grouping	Analyte					
WATER						
Dissolved Metals	Manganese (Mn)-Dissolved (mg/L)	13.0	0.510	20.5	1.06	0.401
	Mercury (Hg)-Dissolved (mg/L)	<0.00010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.00060	0.000210	0.00156	0.000378	0.00145
	Nickel (Ni)-Dissolved (mg/L)	0.0045	0.00059	0.0207	0.00054	0.00365
	Phosphorus (P)-Dissolved (mg/L)	<0.050	0.164	<0.050	0.083	<0.050
	Potassium (K)-Dissolved (mg/L)	2.22	2.22	12.0	2.37	2.85
	Selenium (Se)-Dissolved (mg/L)	0.00036	0.00013	0.00020	0.00016	0.00016
	Silicon (Si)-Dissolved (mg/L)	7.77	8.13	9.98	7.10	7.37
	Silver (Ag)-Dissolved (mg/L)	<0.000020	<0.000010	0.000168	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	23.7	10.2	33.5	13.2	9.30
	Strontium (Sr)-Dissolved (mg/L)	0.579	0.159	0.706	0.239	0.452
	Sulfur (S)-Dissolved (mg/L)	155	44.7	274	46.2	146
	Thallium (TI)-Dissolved (mg/L)	<0.000020	<0.000010	<0.000020	<0.000010	0.000028
	Tin (Sn)-Dissolved (mg/L)	<0.00020	<0.00010	<0.00020	<0.00010	0.00328
	Titanium (Ti)-Dissolved (mg/L)	<0.020	<0.010	<0.020	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.000300	0.000109	0.00117	0.000034	0.00211
	Vanadium (V)-Dissolved (mg/L)	0.0113	0.0046	0.0026	0.0020	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	0.0101	0.0015	0.360	0.0017	0.0203
						0.0250

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

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ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1531711-11 Water 10-OCT-14 13:15 MP09-09	L1531711-12 Water 10-OCT-14 14:00 MP09-10	L1531711-13 Water 10-OCT-14 11:50 DUP6	L1531711-15 Water 11-OCT-14 TRIP BLANK 1	L1531711-16 Water 11-OCT-14 TRIP BLANK 2
Grouping	Analyte					
WATER						
Dissolved Metals	Manganese (Mn)-Dissolved (mg/L)	0.0409	0.0300	1.05		
	Mercury (Hg)-Dissolved (mg/L)	0.000021	0.000028	<0.000010		
	Molybdenum (Mo)-Dissolved (mg/L)	0.0146	0.0148	0.000379		
	Nickel (Ni)-Dissolved (mg/L)	0.0184	0.0124	<0.00050		
	Phosphorus (P)-Dissolved (mg/L)	0.168	0.220	0.081		
	Potassium (K)-Dissolved (mg/L)	8.78	9.44	2.36		
	Selenium (Se)-Dissolved (mg/L)	0.00233	0.00161	0.00019		
	Silicon (Si)-Dissolved (mg/L)	9.60	6.09	7.08		
	Silver (Ag)-Dissolved (mg/L)	0.0299	0.0533	<0.000010		
	Sodium (Na)-Dissolved (mg/L)	24.5	27.6	13.1		
	Strontium (Sr)-Dissolved (mg/L)	0.158	0.162	0.230		
	Sulfur (S)-Dissolved (mg/L)	90.0	86.2	46.0		
	Thallium (TI)-Dissolved (mg/L)	0.000040	0.000051	<0.000010		
	Tin (Sn)-Dissolved (mg/L)	<0.00020	<0.00010	<0.00010		
	Titanium (Ti)-Dissolved (mg/L)	<0.020	<0.010	<0.010		
	Uranium (U)-Dissolved (mg/L)	0.000514	0.00138	0.000032		
	Vanadium (V)-Dissolved (mg/L)	<0.0020	<0.0010	0.0019		
	Zinc (Zn)-Dissolved (mg/L)	0.0045	0.0021	<0.0010		

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

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Date Sampled Time Client ID Description Sampled Time Client ID Client ID Description Sampled Time Client ID Description Descripti	
WATER Dissolved Metals Manganese (Mn)-Dissolved (mg/L) 13.4 0.0385 5.19 Mercury (Hg)-Dissolved (mg/L) <0.000010 0.000021 <0.000010 Molybdenum (Mo)-Dissolved (mg/L) 0.00057 0.0146 0.00368 Nickel (Ni)-Dissolved (mg/L) 0.0046 0.0197 0.00362 Phosphorus (P)-Dissolved (mg/L) <0.050 0.154 0.244 Potassium (K)-Dissolved (mg/L) 2.23 8.58 3.94 Selenium (Se)-Dissolved (mg/L) 0.00031 0.00238 0.00057 Silicon (Si)-Dissolved (mg/L) 7.81 9.47 8.00 Silver (Ag)-Dissolved (mg/L) 23.1 24.6 19.4 Strontium (Sr)-Dissolved (mg/L) 0.560 0.160 0.869 Sulfur (S)-Dissolved (mg/L) 157 66.6 3.16 Thallium (TI)-Dissolved (mg/L) <0.000020 0.000066 <0.000010 Tin (Sn)-Dissolved (mg/L) <0.000020 <0.00050 <0.00010	
Dissolved Metals Manganese (Mn)-Dissolved (mg/L) 13.4 0.0385 5.19 Mercury (Hg)-Dissolved (mg/L) <0.000010 0.000021 <0.000010 Molybdenum (Mo)-Dissolved (mg/L) 0.00057 0.0146 0.00368 Nickel (Ni)-Dissolved (mg/L) 0.0046 0.0197 0.00362 Phosphorus (P)-Dissolved (mg/L) <0.050 0.154 0.244 Potassium (K)-Dissolved (mg/L) 2.23 8.58 3.94 Selenium (Se)-Dissolved (mg/L) 0.00031 0.00238 0.00057 Silicon (Si)-Dissolved (mg/L) 7.81 9.47 8.00 Silver (Ag)-Dissolved (mg/L) <0.000020 0.0280 <0.000010 Sodium (Na)-Dissolved (mg/L) 23.1 24.6 19.4 Strontium (Sr)-Dissolved (mg/L) 0.560 0.160 0.869 Sulfur (S)-Dissolved (mg/L) 157 66.6 3.16 Thallium (TI)-Dissolved (mg/L) <0.000020 0.000066 <0.000010 Tin (Sn)-Dissolved (mg/L) <0.000020 <0.000050 <0.000010	
Mercury (Hg)-Dissolved (mg/L) <0.000010	
Molybdenum (Mo)-Dissolved (mg/L) 0.00057 0.0146 0.00368 Nickel (Ni)-Dissolved (mg/L) 0.0046 0.0197 0.00362 Phosphorus (P)-Dissolved (mg/L) <0.050 0.154 0.244 Potassium (K)-Dissolved (mg/L) 2.23 8.58 3.94 Selenium (Se)-Dissolved (mg/L) 0.00031 0.00238 0.00057 Silicon (Si)-Dissolved (mg/L) 7.81 9.47 8.00 Silver (Ag)-Dissolved (mg/L) <0.000020 0.0280 <0.000010 Sodium (Na)-Dissolved (mg/L) 23.1 24.6 19.4 Strontium (Sr)-Dissolved (mg/L) 0.560 0.160 0.869 Sulfur (S)-Dissolved (mg/L) 157 66.6 3.16 Thallium (TI)-Dissolved (mg/L) <0.000020 0.000066 <0.000010 Tin (Sn)-Dissolved (mg/L) <0.00020 <0.00050 <0.00010	
Nickel (Ni)-Dissolved (mg/L) 0.0046 0.0197 0.00362 Phosphorus (P)-Dissolved (mg/L) <0.050 0.154 0.244 Potassium (K)-Dissolved (mg/L) 2.23 8.58 3.94 Selenium (Se)-Dissolved (mg/L) 0.00031 0.00238 0.00057 Silicon (Si)-Dissolved (mg/L) 7.81 9.47 8.00 Silver (Ag)-Dissolved (mg/L) <0.000020 0.0280 <0.000010 Sodium (Na)-Dissolved (mg/L) 23.1 24.6 19.4 Strontium (Sr)-Dissolved (mg/L) 0.560 0.160 0.869 Sulfur (S)-Dissolved (mg/L) 157 66.6 3.16 Thallium (TI)-Dissolved (mg/L) <0.000020 0.000066 <0.000010 Tin (Sn)-Dissolved (mg/L) <0.00020 <0.00050 <0.00010	
Phosphorus (P)-Dissolved (mg/L) Potassium (K)-Dissolved (mg/L) Selenium (Se)-Dissolved (mg/L) Silicon (Si)-Dissolved (mg/L) Silver (Ag)-Dissolved (mg/L) Sodium (Na)-Dissolved (mg/L) Strontium (Sr)-Dissolved (mg/L) Strontium (Sr)-Dissolved (mg/L) Strontium (Sr)-Dissolved (mg/L) Thallium (Tl)-Dissolved (mg/L) Tin (Sn)-Dissolved (mg/L) Solo50 0.154 0.244 0.00031 0.00238 0.00023 0.000238 0.000238 0.000238 0.00020 0.0280 0.000010 23.1 24.6 19.4 0.560 0.160 0.869 3.16	
Potassium (K)-Dissolved (mg/L) Selenium (Se)-Dissolved (mg/L) Silicon (Si)-Dissolved (mg/L) Silver (Ag)-Dissolved (mg/L) Sodium (Na)-Dissolved (mg/L) Strontium (Sr)-Dissolved (mg/L) Sulfur (S)-Dissolved (mg/L) Thallium (Tl)-Dissolved (mg/L) Tin (Sn)-Dissolved (mg/L) Selenium (Se)-Dissolved (mg/L) 2.23 8.58 3.94 0.00023 0.00238 0.00023 0.0280 0.0280 0.0280 0.000010 0.869 0.160 0.869 3.16 3.16 0.000020 0.000066 0.000010 0.000066 0.000010 0.000060 0.000010	
Selenium (Se)-Dissolved (mg/L) 0.00031 0.00238 0.00057 Silicon (Si)-Dissolved (mg/L) 7.81 9.47 8.00 Silver (Ag)-Dissolved (mg/L) <0.000020 0.0280 <0.000010 Sodium (Na)-Dissolved (mg/L) 23.1 24.6 19.4 Strontium (Sr)-Dissolved (mg/L) 0.560 0.160 0.869 Sulfur (S)-Dissolved (mg/L) 157 66.6 3.16 Thallium (TI)-Dissolved (mg/L) <0.000020 <0.000066 <0.000010 Tin (Sn)-Dissolved (mg/L) <0.000020 <0.00050 <0.00010	
Silicon (Si)-Dissolved (mg/L) 7.81 9.47 8.00 Silver (Ag)-Dissolved (mg/L) <0.000020 0.0280 <0.000010 Sodium (Na)-Dissolved (mg/L) 23.1 24.6 19.4 Strontium (Sr)-Dissolved (mg/L) 0.560 0.160 0.869 Sulfur (S)-Dissolved (mg/L) 157 66.6 3.16 Thallium (Tl)-Dissolved (mg/L) <0.000020 0.000066 <0.000010 Tin (Sn)-Dissolved (mg/L) <0.00020 <0.00050 <0.00010	
Silver (Ag)-Dissolved (mg/L) <0.000020 0.0280 <0.000010 Sodium (Na)-Dissolved (mg/L) 23.1 24.6 19.4 Strontium (Sr)-Dissolved (mg/L) 0.560 0.160 0.869 Sulfur (S)-Dissolved (mg/L) 157 66.6 3.16 Thallium (TI)-Dissolved (mg/L) <0.000020 0.000066 <0.000010 Tin (Sn)-Dissolved (mg/L) <0.00020 <0.00050 <0.00010	
Silver (Ag)-Dissolved (mg/L)	
Strontium (Sr)-Dissolved (mg/L) 0.560 0.160 0.869 Sulfur (S)-Dissolved (mg/L) 157 66.6 3.16 Thallium (TI)-Dissolved (mg/L) <0.000020 0.000066 <0.000010 Tin (Sn)-Dissolved (mg/L) <0.00020 <0.00050 <0.00010	
Sulfur (S)-Dissolved (mg/L) 157 66.6 Thallium (TI)-Dissolved (mg/L) 7in (Sn)-Dissolved (mg/L) 5.300 6.100 6.300 6.100 6.000 6.000 6.0000 6.00000 6.000000 6.000000 6.0000000 6.0000000 6.0000000 6.0000000 6.0000000 6.00000000	
Thallium (TI)-Dissolved (mg/L)	
Thallium (TI)-Dissolved (mg/L)	
Tin (Sn)-Dissolved (mg/L) <0.00020 <0.00050 <0.00010	
Titanium (Ti)-Dissolved (mg/L) <0.020 C0.050 C0.010	
Uranium (U)-Dissolved (mg/L) 0.000306 0.000540 0.000160	
Vanadium (V)-Dissolved (mg/L) 0.0102 <0.0050 0.0079	
Zinc (Zn)-Dissolved (mg/L) 0.0099 <0.0050 0.0020	

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

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Version: FINAL

Reference Information

Qualifiers for Individual Samples Listed:

Sample Number	Client Sample ID	Qualifier	Description
L1531711-17	GSI-DC-10B DISSOLVED ME	WSMD	Water sample(s) for dissolved mercury analysis was not submitted in glass or PTFE container with HCl preservative. Results may be biased low.
L1531711-18	MP09-09 DISSOLVED META	WSMD	Water sample(s) for dissolved mercury analysis was not submitted in glass or PTFE container with HCl preservative. Results may be biased low.
L1531711-19	GSI-DC-06B DISSOLVED ME	WSMD	Water sample(s) for dissolved mercury analysis was not submitted in glass or PTFE container with HCl preservative. Results may be biased low.

QC Samples with Qualifiers	&	Comments:
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QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Duplicate	Beryllium (Be)-Dissolved	DLA	L1531711-1, -10, -11, -12, -13, -17, -18, -19, -2, -3, -4, -5 -6, -7, -8, -9
Duplicate	Bismuth (Bi)-Dissolved	DLA	L1531711-1, -10, -11, -12, -13, -17, -18, -19, -2, -3, -4, -5 -6, -7, -8, -9
Duplicate	Chromium (Cr)-Dissolved	DLA	L1531711-1, -10, -11, -12, -13, -17, -18, -19, -2, -3, -4, -5 -6, -7, -8, -9
Duplicate	Lead (Pb)-Dissolved	DLA	L1531711-1, -10, -11, -12, -13, -17, -18, -19, -2, -3, -4, -5 -6, -7, -8, -9
Duplicate	Silver (Ag)-Dissolved	DLA	L1531711-1, -10, -11, -12, -13, -17, -18, -19, -2, -3, -4, -5 -6, -7, -8, -9
Duplicate	Thallium (TI)-Dissolved	DLA	L1531711-1, -10, -11, -12, -13, -17, -18, -19, -2, -3, -4, -5 -6, -7, -8, -9
Duplicate	Titanium (Ti)-Dissolved	DLA	L1531711-1, -10, -11, -12, -13, -17, -18, -19, -2, -3, -4, -5 -6, -7, -8, -9
Duplicate	Vanadium (V)-Dissolved	DLA	L1531711-1, -10, -11, -12, -13, -17, -18, -19, -2, -3, -4, -5 -6, -7, -8, -9
Matrix Spike	Fluoride (F)	MS-B	L1531711-1, -10, -11, -12, -13, -15, -16, -2, -3, -4, -5, -6, 7, -8, -9
Matrix Spike	Sulfate (SO4)	MS-B	L1531711-1, -10, -11, -12, -13, -15, -16, -2, -3, -4, -5, -6, 7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1531711-1, -10, -11, -12, -13, -17, -18, -19, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sulfur (S)-Dissolved	MS-B	L1531711-1, -10, -11, -12, -13, -17, -18, -19, -2, -3, -4, -5
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1531711-1, -10, -11, -12, -13, -17, -18, -19, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1531711-1, -10, -11, -12, -13, -17, -18, -19, -2, -3, -4, -5
Matrix Spike	Total Inorganic Carbon	MS-B	L1531711-13
Matrix Spike	Total Kjeldahl Nitrogen	MS-B	L1531711-1, -10, -11, -12, -13, -2, -4, -5, -6, -9
Matrix Spike	Total Kjeldahl Nitrogen	MS-B	L1531711-1, -10, -11, -12, -13, -2, -4, -5, -6, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1531711-1, -10, -11, -12, -13, -17, -18, -19, -2, -3, -4, -5 -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1531711-1, -10, -11, -12, -13, -17, -18, -19, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Nickel (Ni)-Dissolved	MS-B	L1531711-1, -10, -11, -12, -13, -17, -18, -19, -2, -3, -4, -5 -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1531711-1, -10, -11, -12, -13, -17, -18, -19, -2, -3, -4, -5 -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1531711-1, -10, -11, -12, -13, -17, -18, -19, -2, -3, -4, -5 -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Total	MS-B	L1531711-15, -16
Matrix Spike	Strontium (Sr)-Total	MS-B	L1531711-15, -16
Matrix Spike	Total Kjeldahl Nitrogen	MSTN	L1531711-16, -7

Qualifiers for Individual Parameters Listed:

DLA Detection Limit adjusted for required dilution DLM Detection Limit Adjusted due to sample matrix effects. MS-B Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. MSTN TKN Matrix Spike recovery was low due to interference from high nitrate, which causes negative bias on The Reported Result Verified By Repeat Analysis	Qualifier	Description
MS-B Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. MSTN TKN Matrix Spike recovery was low due to interference from high nitrate, which causes negative bias on Tk	DLA	Detection Limit adjusted for required dilution
MSTN TKN Matrix Spike recovery was low due to interference from high nitrate, which causes negative bias on The	DLM	Detection Limit Adjusted due to sample matrix effects.
э	MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
Reported Result Verified By Repeat Analysis	MSTN	TKN Matrix Spike recovery was low due to interference from high nitrate, which causes negative bias on TKN.
		Reported Result Verified By Repeat Analysis

Reference Information

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RRV			
Test Method Referen	ces:		
ALS Test Code	Matrix	Test Description	Method Reference**
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	EPA 310.2
This analysis is carried colourimetric method.	out using proce	edures adapted from EPA Method 310.2 "Alk	alinity". Total Alkalinity is determined using the methyl orange
ALK-PCT-VA	Water	Alkalinity by Auto. Titration	APHA 2320 "Alkalinity"
			kalinity". Total alkalinity is determined by potentiometric titration to a method physical ph
ALK-PCT-VA	Water	Alkalinity by Auto. Titration	APHA 2320 Alkalinity
			kalinity". Total alkalinity is determined by potentiometric titration to a method physical ph
ANIONS-CL-IC-WR	Water	Chloride by Ion Chromatography	EPA 300.1
			etermination of Inorganic Anions by Ion Chromatography", Revision ers Using a Hydroxide-Selective Column", Application Note 154 v.19
ANIONS-F-IC-WR	Water	Fluoride by Ion Chromatography	EPA 300.1
			etermination of Inorganic Anions by Ion Chromatography", Revision ers Using a Hydroxide-Selective Column", Application Note 154 v.19
ANIONS-NO2-IC-WR	Water	Nitrite Nitrogen by Ion Chromatography	EPA 300.1
	m "Determinatio	n of Inorganic Anions in Environmental Wate	etermination of Inorganic Anions by Ion Chromatography", Revision ers Using a Hydroxide-Selective Column", Application Note 154 v.19
ANIONS-NO3-IC-WR	Water	Nitrate Nitrogen by Ion Chromatography	EPA 300.1
	m "Determinatio	n of Inorganic Anions in Environmental Wate	etermination of Inorganic Anions by Ion Chromatography", Revision ers Using a Hydroxide-Selective Column", Application Note 154 v.19
ANIONS-SO4-IC-WR	Water	Sulphate by Ion Chromatography	EPA 300.1
			etermination of Inorganic Anions by Ion Chromatography", Revision ers Using a Hydroxide-Selective Column", Application Note 154 v.19
CARBONS-TIC-VA	Water	Total inorganic carbon by CO2 purge	APHA 5310 TOTAL ORGANIC CARBON (TOC)
This analysis is carried	out using proce	edures adapted from APHA Method 5310 "To	otal Organic Carbon (TOC)".
CARBONS-TOC-VA	Water	Total organic carbon by combustion	APHA 5310 TOTAL ORGANIC CARBON (TOC)
		edures adapted from APHA Method 5310 "To	` '
rine analysis is same	out doing proof		
CN-FREE-CFA-VA	Water	Free Cyanide in water by CFA	ASTM 7237
			ee Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusions diffusion at pH 6 with final determination by colourimetric analysis
CN-SCN-VA	Water	Thiocyanate by Colour	APHA 4500-CN CYANIDE
This analysis is carried colourimetric method.	out using proce	edures adapted from APHA Method 4500-CN	I- M "Thiocyanate" Thiocyanate is determined by the ferric nitrate
CN-T-CFA-VA	Water	Total Cyanide in water by CFA	ISO 14403:2002
CFA)". Total or strong colourimetric analysis.	acid dissociable Method Limitati	(SAD) cyanide is determined by in-line UV of	2 "Determination of Total Cyanide using Flow Analysis (FIA and digestion along with sample distillation and final determination by the from thiocyanate (SCN). If SCN is present in the sample, there could be as low as zero.
CN-WAD-CFA-VA	Water	Weak Acid Diss. Cyanide in water by CFA	A APHA 4500-CN CYANIDE
This analysis is carried	out using proce	edures adapted from APHA Method 4500-CN	I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable

APHA 2510 Auto. Conduc.

HARDNESS-CALC-VA Water Hardness APHA 2340B

(WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.

Conductivity (Automated)

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity

Water

EC-PCT-VA

electrode.

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Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO3 equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.

HG-DIS-LOW-CVAFS-VA

Dissolved Mercury in Water by CVAFS(Low)

EPA SW-846 3005A & EPA 245.7

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).

HG-TOT-LOW-CVAFS-VA Water

Total Mercury in Water by CVAFS(Low)

EPA 245.7

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).

IONBALANCE-VA

Water

Water

Ion Balance Calculation

APHA 1030E

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

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

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

MET-D-CCMS-VA

Water

Dissolved Metals in Water by CRC ICPMS

APHA 3030 B&E / EPA SW-846 6020A

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using hotblock, or filtration (APHA 3030B&E). Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A).

MET-DIS-LOW-ICP-VA

Water

Dissolved Metals in Water by ICPOES

EPA 3005A/6010B

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma optical emission spectrophotometry (EPA Method 6010B).

MET-T-CCMS-VA

Water

Total Metals in Water by CRC ICPMS

APHA 3030 B&F / FPA SW-846 6020A

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using hotblock, or filtration (APHA 3030B&E). Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A).

MET-TOT-LOW-ICP-VA

Water

Total Metals in Water by ICPOES

EPA 3005A/6010B

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

NH3-F-VA

Water

Ammonia in Water by Fluorescence

J. ENVIRON. MONIT., 2005, 7, 37-42, RSC

This analysis is carried out, on sulfuric acid preserved samples, using procedures modified from J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society of Chemistry, "Flow-injection analysis with fluorescence detection for the determination of trace levels of ammonium in seawater", Roslyn J. Waston et al.

PH-PCT-VA

Water

pH by Meter (Automated)

APHA 4500-H "pH Value"

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

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

PH-PCT-VA

Water

pH by Meter (Automated)

APHA 4500-H pH Value

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

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

S-DIS-ICP-VA

Water

Dissolved Sulfur in Water by ICPOES

EPA SW-846 3005A/6010B

Reference Information

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This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

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

S-TOT-ICP-VA

Water

Total Sulfur in Water by ICPOES

EPA SW-846 3005A/6010B

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

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

S2-T-COL-VA

Water

Total Sulphide by Colorimetric

APHA 4500-S2 Sulphide

This analysis is carried out using procedures adapted from APHA Method 4500-S2 "Sulphide". Sulphide is determined using the methlyene blue colourimetric method.

TKN-F-VA

Water

TKN in Water by Fluorescence

APHA 4500-NORG D.

This analysis is carried out using procedures adapted from APHA Method 4500-Norg D. "Block Digestion and Flow Injection Analysis". Total Kjeldahl Nitrogen is determined using block digestion followed by Flow-injection analysis with fluorescence detection.

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

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

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

Chain of Custody Numbers:

2

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.

1

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.

ALS Environmental

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

L1531711-COFC

COC Number: 1 - 10102014

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1	GSI-DC-06B			Ĭ			10-Oct-14	10:20	Water	R	R	R	R	R	R	R	R	R					9
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ALS Environmental

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

L1531711-COFC

COC Number: 1 - 10102014

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