



HEMMERA ENVIROCHEM INC.
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Date Received: 20-MAR-15
Report Date: 30-MAR-15 16:42 (MT)
Version: FINAL

Client Phone: 867-456-4865

Certificate of Analysis

Lab Work Order #: L1589940
Project P.O. #: NOT SUBMITTED
Job Reference: 1343-005.06
C of C Numbers: 1
Legal Site Desc:

Brent Mack, B.Sc.
Account Manager

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ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID	L1589940-1 Water 19-MAR-15 13:05 MW09-24	L1589940-2 Water 19-MAR-15 13:05 MW09-24 FILTERED ALK	L1589940-3 Water 19-MAR-15 10:30 MW09-06	L1589940-4 Water 19-MAR-15 15:30 MW09-02	L1589940-5 Water 19-MAR-15 15:30 MW09-02 FILTERED ALK	
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	979		1910	2820	
	Hardness (as CaCO3) (mg/L)	620		1310	1580	
	pH (pH)	7.38		7.81	6.49	
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	189	190	119	40.9	43.8
	Ammonia, Total (as N) (mg/L)	0.0113		0.733	14.4	
	Chloride (Cl) (mg/L)	<1.0 ^{DLA}		<2.5 ^{DLA}	<10 ^{DLA}	
	Fluoride (F) (mg/L)	<0.040 ^{DLA}		0.26	0.75	
	Nitrate (as N) (mg/L)	3.28		0.192	0.50	
	Nitrite (as N) (mg/L)	<0.0020 ^{DLA}		0.0138	0.023	
	Total Kjeldahl Nitrogen (mg/L)	0.378		1.16	15.7	
	Sulfate (SO4) (mg/L)	387		1190	2020	
	Sulphide as S (mg/L)	<0.020		<0.020	<0.020	
	Anion Sum (meq/L)	12.1		27.1	43.0	
	Cation Sum (meq/L)	12.8		27.7	42.1	
	Cation - Anion Balance (%)	3.1		1.0	-1.0	
	Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050		<0.0050	0.0053
Cyanide, Total (mg/L)		0.0117		<0.0050	0.169	
Thiocyanate (SCN) (mg/L)		<0.50		<0.50	1.28	
Cyanide, Free (mg/L)		<0.0050		<0.0050	<0.0050 ^{RRA}	
Organic / Inorganic Carbon	Total Inorganic Carbon (mg/L)	37.1		21.6	3.81	
	Total Organic Carbon (mg/L)	8.74		7.27	5.71	
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.

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1589940-6 Water 19-MAR-15 16:20 MW09-23	L1589940-7 Water 19-MAR-15 16:20 MW09-23 FILTERED ALK	L1589940-8 Water 18-MAR-15 16:50 GSI-DC-02B	L1589940-9 Water 18-MAR-15 17:55 GSI-HA-04A	L1589940-10 Water 18-MAR-15 16:30 GSI-HA-01A
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	1260		1010		
	Hardness (as CaCO3) (mg/L)	618		632	647	657
	pH (pH)	7.33		8.10		
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	365	380	295		
	Ammonia, Total (as N) (mg/L)	3.79				
	Chloride (Cl) (mg/L)	<2.5 ^{DLA}		<1.0 ^{DLA}		
	Fluoride (F) (mg/L)	0.16		0.066		
	Nitrate (as N) (mg/L)	<0.025 ^{DLA}		0.778		
	Nitrite (as N) (mg/L)	0.0058		0.0102		
	Total Kjeldahl Nitrogen (mg/L)	5.73				
	Sulfate (SO4) (mg/L)	428		337		
	Sulphide as S (mg/L)	0.023				
	Anion Sum (meq/L)	16.2		13.0		
	Cation Sum (meq/L)	15.3		13.1		
	Cation - Anion Balance (%)	-3.0		0.4		
	Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050			
Cyanide, Total (mg/L)		0.0376				
Thiocyanate (SCN) (mg/L)		<0.50				
Cyanide, Free (mg/L)		<0.0050				
Organic / Inorganic Carbon	Total Inorganic Carbon (mg/L)	76.6				
	Total Organic Carbon (mg/L)	25.6				
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	L1589940-11	L1589940-12	L1589940-13	L1589940-14	L1589940-15
Sampled Date	Sampled Time	18-MAR-15 17:00	18-MAR-15 17:00	19-MAR-15 18:00	19-MAR-15 18:00	20-MAR-15
Client ID	FB-1	FB-1 FILTERED ALK	FB-2	FB-2 FILTERED ALK	TRIP BLANK	
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	<2.0		<2.0		<2.0
	Hardness (as CaCO3) (mg/L)	<0.50		<0.50		<0.50
	pH (pH)	5.45		5.98		5.23
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0
	Ammonia, Total (as N) (mg/L)	<0.0050		<0.0050		0.0167 ^{RRV}
	Chloride (Cl) (mg/L)	<0.50		<0.50		<0.50
	Fluoride (F) (mg/L)	<0.020		<0.020		<0.020
	Nitrate (as N) (mg/L)	<0.0050		<0.0050		<0.0050
	Nitrite (as N) (mg/L)	<0.0010		<0.0010		<0.0010
	Total Kjeldahl Nitrogen (mg/L)	<0.050		<0.050		<0.050
	Sulfate (SO4) (mg/L)	<0.30		<0.30		<0.30
	Sulphide as S (mg/L)	<0.020		<0.020		<0.020
	Anion Sum (meq/L)	<0.10		<0.10		<0.10
	Cation Sum (meq/L)	<0.10		<0.10		<0.10
	Cation - Anion Balance (%)	0.0		0.0		0.0
Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050		<0.0050		<0.0050
	Cyanide, Total (mg/L)	<0.0050		<0.0050		<0.0050
	Thiocyanate (SCN) (mg/L)	<0.50		<0.50		<0.50
	Cyanide, Free (mg/L)	<0.0050		<0.0050		<0.0050
Organic / Inorganic Carbon	Total Inorganic Carbon (mg/L)	<0.50		<0.50		<0.50
	Total Organic Carbon (mg/L)	<0.50		<0.50		<0.50
Total Metals	Aluminum (Al)-Total (mg/L)					<0.0030
	Antimony (Sb)-Total (mg/L)					<0.00010
	Arsenic (As)-Total (mg/L)					<0.00010
	Barium (Ba)-Total (mg/L)					<0.000050
	Beryllium (Be)-Total (mg/L)					<0.00010
	Bismuth (Bi)-Total (mg/L)					<0.00050
	Boron (B)-Total (mg/L)					<0.010
	Cadmium (Cd)-Total (mg/L)					<0.000010
	Calcium (Ca)-Total (mg/L)					<0.050
	Chromium (Cr)-Total (mg/L)					0.00025
	Cobalt (Co)-Total (mg/L)					<0.00010
	Copper (Cu)-Total (mg/L)					<0.00050
	Iron (Fe)-Total (mg/L)					<0.010
	Lead (Pb)-Total (mg/L)					<0.000050
	Lithium (Li)-Total (mg/L)					<0.00050

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ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1589940-1 Water 19-MAR-15 13:05 MW09-24	L1589940-2 Water 19-MAR-15 13:05 MW09-24 FILTERED ALK	L1589940-3 Water 19-MAR-15 10:30 MW09-06	L1589940-4 Water 19-MAR-15 15:30 MW09-02	L1589940-5 Water 19-MAR-15 15:30 MW09-02 FILTERED ALK
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 (Tl)-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 (Al)-Dissolved (mg/L)	0.0012		0.0020	<0.0050 ^{DLA}	
	Antimony (Sb)-Dissolved (mg/L)	0.00018		0.213	0.00508	
	Arsenic (As)-Dissolved (mg/L)	0.00165		0.197	19.2	
	Barium (Ba)-Dissolved (mg/L)	0.205		0.00762	0.00896	
	Beryllium (Be)-Dissolved (mg/L)	<0.00010		<0.00020 ^{DLA}	<0.00050 ^{DLA}	
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050		<0.0010 ^{DLA}	<0.0025 ^{DLA}	
	Boron (B)-Dissolved (mg/L)	0.015		0.116	0.058	
	Cadmium (Cd)-Dissolved (mg/L)	0.000058		0.00557	0.000707	
	Calcium (Ca)-Dissolved (mg/L)	169		443	487	
	Chromium (Cr)-Dissolved (mg/L)	0.00031		<0.00020 ^{DLA}	<0.00050 ^{DLA}	
	Cobalt (Co)-Dissolved (mg/L)	0.00053		0.00151	0.0115 ^{DLA}	
	Copper (Cu)-Dissolved (mg/L)	0.00769		0.00670	<0.0010 ^{DLA}	
	Iron (Fe)-Dissolved (mg/L)	0.010		<0.010	46.7 ^{DLA}	
	Lead (Pb)-Dissolved (mg/L)	<0.000050		0.00045	<0.00025 ^{DLA}	
	Lithium (Li)-Dissolved (mg/L)	0.00120		0.0089	0.0284	
	Magnesium (Mg)-Dissolved (mg/L)	48.3		50.4	87.8	

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ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1589940-6 Water 19-MAR-15 16:20 MW09-23	L1589940-7 Water 19-MAR-15 16:20 MW09-23 FILTERED ALK	L1589940-8 Water 18-MAR-15 16:50 GSI-DC-02B	L1589940-9 Water 18-MAR-15 17:55 GSI-HA-04A	L1589940-10 Water 18-MAR-15 16:30 GSI-HA-01A
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 (Tl)-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	FIELD
	Dissolved Metals Filtration Location	FIELD		FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0182		0.0017	0.0042	0.0038
	Antimony (Sb)-Dissolved (mg/L)	0.00032		0.00051	0.00141	0.00047
	Arsenic (As)-Dissolved (mg/L)	0.0168		0.00298	0.00517	0.0147
	Barium (Ba)-Dissolved (mg/L)	0.0375		0.103	0.116	0.175
	Beryllium (Be)-Dissolved (mg/L)	<0.00020 ^{DLA}		<0.00010	<0.00010	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	<0.0010 ^{DLA}		<0.00050	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)	0.169		<0.010	<0.010	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	0.000025		0.000059	0.000017	<0.000010
	Calcium (Ca)-Dissolved (mg/L)	159		166	166	172
	Chromium (Cr)-Dissolved (mg/L)	0.00022		0.00017	<0.00010	0.00015
	Cobalt (Co)-Dissolved (mg/L)	0.0192		0.00169	0.00040	0.00018
	Copper (Cu)-Dissolved (mg/L)	<0.00040 ^{DLA}		0.00208	0.00046	0.00128
	Iron (Fe)-Dissolved (mg/L)	5.83		0.331	1.55	4.00
	Lead (Pb)-Dissolved (mg/L)	<0.00010 ^{DLA}		0.000078	0.000056	0.000085
	Lithium (Li)-Dissolved (mg/L)	<0.0010 ^{DLA}		0.00262	0.00491	0.00686
	Magnesium (Mg)-Dissolved (mg/L)	53.8		52.8	56.4	55.5

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ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1589940-11	L1589940-12	L1589940-13	L1589940-14	L1589940-15
Description	Water	Water	Water	Water	Water	Water
Sampled Date	18-MAR-15	18-MAR-15	19-MAR-15	19-MAR-15	20-MAR-15	20-MAR-15
Sampled Time	17:00	17:00	18:00	18:00	18:00	18:00
Client ID	FB-1	FB-1 FILTERED ALK	FB-2	FB-2 FILTERED ALK	FB-2 FILTERED ALK	TRIP BLANK
Grouping	Analyte					
WATER						
Total Metals	Magnesium (Mg)-Total (mg/L)					<0.10
	Manganese (Mn)-Total (mg/L)					<0.000050
	Mercury (Hg)-Total (mg/L)					<0.000010
	Molybdenum (Mo)-Total (mg/L)					<0.000050
	Nickel (Ni)-Total (mg/L)					<0.00050
	Phosphorus (P)-Total (mg/L)					<0.050
	Potassium (K)-Total (mg/L)					<0.10
	Selenium (Se)-Total (mg/L)					<0.00010
	Silicon (Si)-Total (mg/L)					<0.050
	Silver (Ag)-Total (mg/L)					<0.000010
	Sodium (Na)-Total (mg/L)					<0.050
	Strontium (Sr)-Total (mg/L)					<0.00020
	Sulfur (S)-Total (mg/L)					<0.50
	Thallium (Tl)-Total (mg/L)					<0.000010
	Tin (Sn)-Total (mg/L)					<0.00010
	Titanium (Ti)-Total (mg/L)					<0.010
	Uranium (U)-Total (mg/L)					<0.000010
	Vanadium (V)-Total (mg/L)					<0.0010
	Zinc (Zn)-Total (mg/L)					<0.0030
Dissolved Metals	Dissolved Mercury Filtration Location	FIELD		FIELD		
	Dissolved Metals Filtration Location	FIELD		FIELD		
	Aluminum (Al)-Dissolved (mg/L)	<0.0010		<0.0010		
	Antimony (Sb)-Dissolved (mg/L)	<0.00010		<0.00010		
	Arsenic (As)-Dissolved (mg/L)	<0.00010		<0.00010		
	Barium (Ba)-Dissolved (mg/L)	<0.000050		<0.000050		
	Beryllium (Be)-Dissolved (mg/L)	<0.00010		<0.00010		
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050		<0.00050		
	Boron (B)-Dissolved (mg/L)	<0.010		<0.010		
	Cadmium (Cd)-Dissolved (mg/L)	<0.000010		<0.000010		
	Calcium (Ca)-Dissolved (mg/L)	<0.050		<0.050		
	Chromium (Cr)-Dissolved (mg/L)	<0.00010		<0.00010		
	Cobalt (Co)-Dissolved (mg/L)	<0.00010		<0.00010		
	Copper (Cu)-Dissolved (mg/L)	<0.00020		<0.00020		
	Iron (Fe)-Dissolved (mg/L)	<0.010		<0.010		
	Lead (Pb)-Dissolved (mg/L)	<0.000050		<0.000050		
	Lithium (Li)-Dissolved (mg/L)	<0.00050		<0.00050		
	Magnesium (Mg)-Dissolved (mg/L)	<0.10		<0.10		

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	Description	Sampled Date	Sampled Time	Client ID	L1589940-1	L1589940-2	L1589940-3	L1589940-4	L1589940-5
					Water	Water	Water	Water	Water
		19-MAR-15	13:05	MW09-24	19-MAR-15	13:05	19-MAR-15	15:30	19-MAR-15
					MW09-24	MW09-24 FILTERED ALK	MW09-06	MW09-02	MW09-02 FILTERED ALK
Grouping	Analyte								
WATER									
Dissolved Metals	Manganese (Mn)-Dissolved (mg/L)	0.000515					6.31	35.2	
	Mercury (Hg)-Dissolved (mg/L)	<0.000010					<0.000010	<0.000010	
	Molybdenum (Mo)-Dissolved (mg/L)	0.000203					0.00564	0.00515	
	Nickel (Ni)-Dissolved (mg/L)	<0.00050					0.0023	0.0030	
	Phosphorus (P)-Dissolved (mg/L)	<0.050					<0.050	<0.050	
	Potassium (K)-Dissolved (mg/L)	1.98					15.4	92.8	
	Selenium (Se)-Dissolved (mg/L)	0.00048					<0.00020 ^{DLA}	<0.00050 ^{DLA}	
	Silicon (Si)-Dissolved (mg/L)	6.12					6.81	6.61	
	Silver (Ag)-Dissolved (mg/L)	<0.000010					0.000029	<0.000050 ^{DLA}	
	Sodium (Na)-Dissolved (mg/L)	9.09					17.4	77.1	
	Strontium (Sr)-Dissolved (mg/L)	0.686					0.696	0.998	
	Sulfur (S)-Dissolved (mg/L)	139					404	632	
	Thallium (Tl)-Dissolved (mg/L)	<0.000010					0.000360 ^{DLA}	0.000238 ^{DLA}	
	Tin (Sn)-Dissolved (mg/L)	<0.00010					<0.00020 ^{DLA}	<0.00050 ^{DLA}	
	Titanium (Ti)-Dissolved (mg/L)	<0.010					<0.020 ^{DLA}	<0.050 ^{DLA}	
	Uranium (U)-Dissolved (mg/L)	0.00324					0.00159 ^{DLA}	0.000380 ^{DLA}	
	Vanadium (V)-Dissolved (mg/L)	<0.0010					<0.0020 ^{DLA}	<0.0050 ^{DLA}	
	Zinc (Zn)-Dissolved (mg/L)	0.0014					0.0939	0.299	

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID	L1589940-6 Water 19-MAR-15 16:20 MW09-23	L1589940-7 Water 19-MAR-15 16:20 MW09-23 FILTERED ALK	L1589940-8 Water 18-MAR-15 16:50 GSI-DC-02B	L1589940-9 Water 18-MAR-15 17:55 GSI-HA-04A	L1589940-10 Water 18-MAR-15 16:30 GSI-HA-01A	
Grouping	Analyte					
WATER						
Dissolved Metals	Manganese (Mn)-Dissolved (mg/L)	11.2		2.85	0.321	0.206
	Mercury (Hg)-Dissolved (mg/L)	<0.000010		<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.00375		0.00487	0.000531	0.000739
	Nickel (Ni)-Dissolved (mg/L)	0.0015		0.0152	0.00155	0.00423
	Phosphorus (P)-Dissolved (mg/L)	<0.050		<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	7.28		3.67	2.95	3.66
	Selenium (Se)-Dissolved (mg/L)	<0.00020 ^{DLA}		<0.00010	<0.00010	<0.00010
	Silicon (Si)-Dissolved (mg/L)	4.98		6.25	5.12	6.09
	Silver (Ag)-Dissolved (mg/L)	<0.000020 ^{DLA}		<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	40.1		5.54	4.65	5.76
	Strontium (Sr)-Dissolved (mg/L)	0.392		0.353	0.399	0.385
	Sulfur (S)-Dissolved (mg/L)	129		114	145	132
	Thallium (Tl)-Dissolved (mg/L)	<0.000020 ^{DLA}		<0.000010	<0.000010	<0.000010
	Tin (Sn)-Dissolved (mg/L)	<0.00020 ^{DLA}		<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<0.020 ^{DLA}		<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.00182		0.000625	0.000615	0.000080
	Vanadium (V)-Dissolved (mg/L)	<0.0020 ^{DLA}		<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	0.0051		0.0077	0.0043	0.0057

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1589940-11	L1589940-12	L1589940-13	L1589940-14	L1589940-15
Description	Water	Water	Water	Water	Water	Water
Sampled Date	18-MAR-15	18-MAR-15	18-MAR-15	19-MAR-15	19-MAR-15	20-MAR-15
Sampled Time	17:00	17:00	17:00	18:00	18:00	18:00
Client ID	FB-1	FB-1 FILTERED ALK	FB-2	FB-2 FILTERED ALK	TRIP BLANK	TRIP BLANK
Grouping	Analyte					
WATER						
Dissolved Metals	Manganese (Mn)-Dissolved (mg/L)	<0.000050		<0.000050		
	Mercury (Hg)-Dissolved (mg/L)	<0.000010		<0.000010		
	Molybdenum (Mo)-Dissolved (mg/L)	<0.000050		<0.000050		
	Nickel (Ni)-Dissolved (mg/L)	<0.000050		<0.000050		
	Phosphorus (P)-Dissolved (mg/L)	<0.050		<0.050		
	Potassium (K)-Dissolved (mg/L)	0.16		0.14		
	Selenium (Se)-Dissolved (mg/L)	<0.00010		<0.00010		
	Silicon (Si)-Dissolved (mg/L)	<0.050		<0.050		
	Silver (Ag)-Dissolved (mg/L)	<0.000010		<0.000010		
	Sodium (Na)-Dissolved (mg/L)	<0.050		<0.050		
	Strontium (Sr)-Dissolved (mg/L)	<0.00020		<0.00020		
	Sulfur (S)-Dissolved (mg/L)	<0.50		<0.50		
	Thallium (Tl)-Dissolved (mg/L)	<0.000010		<0.000010		
	Tin (Sn)-Dissolved (mg/L)	<0.00010		<0.00010		
	Titanium (Ti)-Dissolved (mg/L)	<0.010		<0.010		
	Uranium (U)-Dissolved (mg/L)	<0.000010		<0.000010		
	Vanadium (V)-Dissolved (mg/L)	<0.0010		<0.0010		
	Zinc (Zn)-Dissolved (mg/L)	<0.0010		<0.0010		

* 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
L1589940-15	TRIP BLANK	LPMB	Lab-Preserved for Metals. Sample received with pH > 2 and preserved at the lab. Metals results may be biased low.

QC Samples with Qualifiers & Comments:

QC Type	Description	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike		Total Inorganic Carbon	MS-B	L1589940-1, -11, -13, -15, -3, -4, -6
Matrix Spike		Total Organic Carbon	MS-B	L1589940-1, -13, -15, -3, -4
Matrix Spike		Total Organic Carbon	MS-B	L1589940-11, -6
Matrix Spike		Barium (Ba)-Dissolved	MS-B	L1589940-1, -10, -11, -13, -3, -4, -6, -8, -9
Matrix Spike		Manganese (Mn)-Dissolved	MS-B	L1589940-1, -10, -11, -13, -3, -4, -6, -8, -9
Matrix Spike		Sodium (Na)-Dissolved	MS-B	L1589940-1, -10, -11, -13, -3, -4, -6, -8, -9
Matrix Spike		Strontium (Sr)-Dissolved	MS-B	L1589940-1, -10, -11, -13, -3, -4, -6, -8, -9

Qualifiers for Individual Parameters Listed:

Qualifier	Description
DLA	Detection Limit adjusted for required dilution
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RRA	Reported Result Is The Average Of 2 Or More Analyses
RRV	Reported Result Verified By Repeat Analysis

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	EPA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
ALK-PCT-VA	Water	Alkalinity by Auto. Titration	APHA 2320 "Alkalinity"
This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.			
ALK-PCT-VA	Water	Alkalinity by Auto. Titration	APHA 2320 Alkalinity
This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.			
CARBONS-TIC-VA	Water	Total inorganic carbon by CO2 purge	APHA 5310 TOTAL ORGANIC CARBON (TOC)
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)".			
CARBONS-TOC-VA	Water	Total organic carbon by combustion	APHA 5310 TOTAL ORGANIC CARBON (TOC)
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)".			
CL-IC-N-WR	Water	Chloride in Water by IC	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
CN-FREE-CFA-VA	Water	Free Cyanide in water by CFA	ASTM 7237
This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas 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 out using procedures adapted from APHA Method 4500-CN- M "Thiocyanate" Thiocyanate is determined by the ferric nitrate colourimetric method.			
CN-T-CFA-VA	Water	Total Cyanide in water by CFA	ISO 14403:2002
This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis. Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero.			
CN-WAD-CFA-VA	Water	Weak Acid Diss. Cyanide in water by CFA	APHA 4500-CN CYANIDE
This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.			
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.

Reference Information

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

F-IC-N-WR Water Fluoride in Water by IC EPA 300.1 (mod)

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

HARDNESS-CALC-VA Water Hardness APHA 2340B

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

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

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

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

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

IONBALANCE-VA Water Ion Balance Calculation APHA 1030E

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

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

$$\text{Ion Balance (\%)} = \frac{[\text{Cation Sum} - \text{Anion Sum}]}{[\text{Cation Sum} + \text{Anion Sum}]}$$

MET-D-CCMS-VA Water Dissolved Metals in Water by CRC ICPMS APHA 3030 B&E / EPA SW-846 6020A

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

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

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

MET-T-CCMS-VA Water Total Metals in Water by CRC ICPMS APHA 3030 B&E / EPA SW-846 6020A

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

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

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

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. Weston et al.

NO2-L-IC-N-WR Water Nitrite in Water by IC (Low Level) EPA 300.1 (mod)

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

NO3-L-IC-N-WR Water Nitrate in Water by IC (Low Level) EPA 300.1 (mod)

Reference Information

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

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

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

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

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

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

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

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

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

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

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

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 methylene blue colourimetric method.

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

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

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:

Reference Information

GLOSSARY OF REPORT TERMS

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

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

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

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

mg/L - milligrams per litre.

< - Less than.

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

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

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

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

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



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: 867-335-3235		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, rmarlinka@hemmera.com			Specify Date Required for E2, E or P:																									
		Email 2 chris@elr.ca			Analysis Request																									
Invoice To		Invoice Distribution			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 type="checkbox"/> MAIL <input type="checkbox"/> FAX			F/P F/P																									
Copy of Invoice with Report <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Email 1 or Fax nsandys@hemmera.com			P P P P P P P P P P P P P P P P																									
Company: Hemmera Environchem Inc.		Email 2 chris@elr.ca			<table border="1" style="width:100%; border-collapse: collapse; font-size: small;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Dissolved Metals, Hardness</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Dissolved Mercury</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Nitrate, Nitrite, Total Kjeldahl N (TKN)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Cl, F, Sulfate, conductivity, pH, alkalinity</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Anion Sum, Cation Sum, Cation/Anion Balan</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Cyanide - Weak Acid Diss., Total, Free</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Ammonia N (total), Total Organic Carbon</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Thiocyanate (SCN)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Sulphide as S</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Inorganic Carbon</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Dissolved Alkalinity</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Number of Containers</td> </tr> </table>														Dissolved Metals, Hardness	Dissolved Mercury	Nitrate, Nitrite, Total Kjeldahl N (TKN)	Cl, F, Sulfate, conductivity, pH, alkalinity	Anion Sum, Cation Sum, Cation/Anion Balan	Cyanide - Weak Acid Diss., Total, Free	Ammonia N (total), Total Organic Carbon	Thiocyanate (SCN)	Sulphide as S	Total Inorganic Carbon	Dissolved Alkalinity	Number of Containers
Dissolved Metals, Hardness	Dissolved Mercury	Nitrate, Nitrite, Total Kjeldahl N (TKN)	Cl, F, Sulfate, conductivity, pH, alkalinity	Anion Sum, Cation Sum, Cation/Anion Balan															Cyanide - Weak Acid Diss., Total, Free	Ammonia N (total), Total Organic Carbon	Thiocyanate (SCN)	Sulphide as S	Total Inorganic Carbon	Dissolved Alkalinity	Number of Containers					
Project Information		Oil and Gas Required Fields (client use)																												
ALS Quote #: Q45623		Approver ID:	Gost Center:																											
Job #: 1343-005,06		GL Account:	Routing Code:																											
PO / AFE:		Activity Code:																												
LSD:		Location:																												
ALS Lab Work Order # (lab use only)		ALS Contact:	Sampler: RM,TJ,AN, JL																											
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																										
MW09-24		19-Mar-15	13:05	Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	9								
MW09-06		19-Mar-15	10:30	Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	8								
MW09-02		19-Mar-15	15:30	Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	9								
MW09-23		19-Mar-15	16:20	Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	9								
GSI-DC-02B		18-Mar-15	16:50	Water	R	R	R	R	R													3								
GSI-HA-04A		18-Mar-15	17:55	Water	R	R																2								
GSI-HA-01A		18-Mar-15	16:30	Water	R	R																2								
FB-1		18-Mar-15	17:00	Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	9								
FB-2		19-Mar-15	18:00	Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	9								
Trip Blank				Water	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	9								
Drinking Water (DW) Samples ¹ (client use)		Special Instructions / Specify Criteria to add on report (client Use)			SAMPLE CONDITION AS RECEIVED (lab use only)																									
Are samples taken from a Regulated DW System? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		- See attached parameter sheet for full parameter list. - note limited volume in General bottle for GSA-DC-02B			Frozen <input type="checkbox"/> SIF Observations Yes <input type="checkbox"/> No <input type="checkbox"/>																									
Are samples for human drinking water use? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					Ice packs Yes <input type="checkbox"/> No <input type="checkbox"/> Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/>																									
					Cooling Initiated <input type="checkbox"/>																									
					INITIAL COOLER TEMPERATURES °C							FINAL COOLER TEMPERATURES °C																		
					1.6 1.3							3°C																		
SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)																								
Released by: <i>Chris Jastrowski</i>		Date: <i>19-Mar-15</i>	Time: <i>09:30</i>	Received by: <i>[Signature]</i>		Date: <i>20-Mar-15</i>	Time: <i>9:30</i>	Received by: <i>[Signature]</i>																						
								Date: <i>Mar. 23</i> Time: <i>950</i>																						

Short Holding Time

● Rush Processing