



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

Date Received: 23-MAR-15  
Report Date: 31-MAR-15 15:40 (MT)  
Version: FINAL

Client Phone: 867-456-4865

## Certificate of Analysis

**Lab Work Order #:** L1590448  
Project P.O. #: NOT SUBMITTED  
Job Reference: 1343-005.06  
C of C Numbers: 1  
Legal Site Desc:

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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

## ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID	L1590448-1 Water 20-MAR-15 16:10 MW09-18	L1590448-2 Water 20-MAR-15 16:10 MW09-18 FILTERED ALK	L1590448-3 Water 20-MAR-15 13:45 MW09-19	L1590448-4 Water 20-MAR-15 13:45 MW09-19 FILTERED ALK	L1590448-5 Water 20-MAR-15 12:40 CH-P-13-05-/50	
Grouping	Analyte					
<b>WATER</b>						
<b>Physical Tests</b>	Conductivity (uS/cm)	2770		2010	2720	
	Hardness (as CaCO3) (mg/L)	2060		1300	1910	
	pH (pH)	7.57		7.29	6.58	
<b>Anions and Nutrients</b>	Alkalinity, Total (as CaCO3) (mg/L)	491	626	483	482	94.7
	Ammonia, Total (as N) (mg/L)	0.0339		6.88		0.0381
	Chloride (Cl) (mg/L)	<5.0 <sup>DLA</sup>		<5.0 <sup>DLA</sup>		<5.0 <sup>DLA</sup>
	Fluoride (F) (mg/L)	<0.20 <sup>DLA</sup>		<0.20 <sup>DLA</sup>		<0.20 <sup>DLA</sup>
	Nitrate (as N) (mg/L)	<0.050 <sup>DLA</sup>		<0.050 <sup>DLA</sup>		<0.050 <sup>DLA</sup>
	Nitrite (as N) (mg/L)	<0.010 <sup>DLA</sup>		<0.010 <sup>DLA</sup>		<0.010 <sup>DLA</sup>
	Total Kjeldahl Nitrogen (mg/L)	0.140		7.47		0.149
	Sulfate (SO4) (mg/L)	1570		909		1880
	Sulphide as S (mg/L)	<0.020		0.134		<0.020
	Anion Sum (meq/L)	42.5		28.6		41.1
	Cation Sum (meq/L)	42.0		29.3		41.5
	Cation - Anion Balance (%)	-0.6		1.2		0.5
	<b>Cyanides</b>	Cyanide, Weak Acid Diss (mg/L)	<0.0050		<0.0050	
Cyanide, Total (mg/L)		<0.0050		<0.0050		<0.0050 <sup>CNP</sup>
Thiocyanate (SCN) (mg/L)		<0.50		0.68		<0.50
Cyanide, Free (mg/L)		<0.0050		<0.0050		<0.0050 <sup>CNP</sup>
<b>Organic / Inorganic Carbon</b>	Total Inorganic Carbon (mg/L)	104		103		14.8
	Total Organic Carbon (mg/L)	2.62		22.2		2.37
<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)					
	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	L1590448-6	L1590448-7	L1590448-8	L1590448-9	L1590448-10
					Water	Water	Water	Water	Water
		20-MAR-15	12:40	CH-P-13-05/50	20-MAR-15	20-MAR-15	20-MAR-15	20-MAR-15	20-MAR-15
				FILTERED ALK	13:45	13:45	13:45	12:40	12:40
					DUP-1	DUP-1	DUP-1 FILTERED ALK	DUP-2	DUP-2 FILTERED ALK
Grouping	Analyte								
WATER									
Physical Tests	Conductivity (uS/cm)					1910		2710	
	Hardness (as CaCO3) (mg/L)					1330		1920	
	pH (pH)					7.11		6.56	
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	95.1			472		487	96.4	97.6
	Ammonia, Total (as N) (mg/L)				6.75			0.0377	
	Chloride (Cl) (mg/L)				<2.5 <sup>DLA</sup>			<5.0 <sup>DLA</sup>	
	Fluoride (F) (mg/L)				<0.10 <sup>DLA</sup>			0.20 <sup>DLA</sup>	
	Nitrate (as N) (mg/L)				<0.025 <sup>DLA</sup>			<0.050 <sup>DLA</sup>	
	Nitrite (as N) (mg/L)				<0.0050 <sup>DLA</sup>			<0.010 <sup>DLA</sup>	
	Total Kjeldahl Nitrogen (mg/L)				7.48			0.157	
	Sulfate (SO4) (mg/L)				882			1880	
	Sulphide as S (mg/L)				0.132			<0.020	
	Anion Sum (meq/L)				27.8			41.0	
	Cation Sum (meq/L)				29.9			41.8	
	Cation - Anion Balance (%)				3.6			0.9	
	Cyanides	Cyanide, Weak Acid Diss (mg/L)				<0.0050			<0.0050 <sup>CNP</sup>
Cyanide, Total (mg/L)					<0.0050			<0.0050 <sup>CNP</sup>	
Thiocyanate (SCN) (mg/L)					0.66			<0.50	
Cyanide, Free (mg/L)					<0.0050			<0.0050 <sup>CNP</sup>	
Organic / Inorganic Carbon	Total Inorganic Carbon (mg/L)				101			13.4	
	Total Organic Carbon (mg/L)				21.7			2.44	
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	L1590448-11 Water 23-MAR-15  TRAVEL BLANK	L1590448-12 Water 20-MAR-15 16:10 FB-3	L1590448-13 Water 20-MAR-15 16:10 FB-3 FILTERED ALK		
Grouping	Analyte				
<b>WATER</b>					
<b>Physical Tests</b>	Conductivity (uS/cm)	<2.0	<2.0		
	Hardness (as CaCO3) (mg/L)	<0.50	<0.50		
	pH (pH)	5.45	5.87		
<b>Anions and Nutrients</b>	Alkalinity, Total (as CaCO3) (mg/L)	<2.0	<2.0	<2.0	
	Ammonia, Total (as N) (mg/L)	0.0118 <sup>RRV</sup>	<0.0050		
	Chloride (Cl) (mg/L)	<0.50	<0.50		
	Fluoride (F) (mg/L)	<0.020	<0.020		
	Nitrate (as N) (mg/L)	<0.0050	<0.0050		
	Nitrite (as N) (mg/L)	<0.0010	<0.0010		
	Total Kjeldahl Nitrogen (mg/L)	<0.050	<0.050		
	Sulfate (SO4) (mg/L)	<0.30	<0.30		
	Sulphide as S (mg/L)	<0.020	<0.020		
	Anion Sum (meq/L)	<0.10	<0.10		
	Cation Sum (meq/L)	<0.10	<0.10		
	Cation - Anion Balance (%)	0.0	0.0		
	<b>Cyanides</b>	Cyanide, Weak Acid Diss (mg/L)	<0.0050	<0.0050	
Cyanide, Total (mg/L)		<0.0050	<0.0050		
Thiocyanate (SCN) (mg/L)		<0.50	<0.50		
Cyanide, Free (mg/L)		<0.0050	<0.0050		
<b>Organic / Inorganic Carbon</b>	Total Inorganic Carbon (mg/L)	<0.50	<0.50		
	Total Organic Carbon (mg/L)	<0.50	<0.50		
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)	<0.0030			
	Antimony (Sb)-Total (mg/L)	<0.00010			
	Arsenic (As)-Total (mg/L)	<0.00010			
	Barium (Ba)-Total (mg/L)	<0.000050			
	Beryllium (Be)-Total (mg/L)	<0.00010			
	Bismuth (Bi)-Total (mg/L)	<0.00050			
	Boron (B)-Total (mg/L)	<0.010			
	Cadmium (Cd)-Total (mg/L)	<0.000010			
	Calcium (Ca)-Total (mg/L)	<0.050			
	Chromium (Cr)-Total (mg/L)	<0.00010			
	Cobalt (Co)-Total (mg/L)	<0.00010			
	Copper (Cu)-Total (mg/L)	<0.00050			
	Iron (Fe)-Total (mg/L)	<0.010			
	Lead (Pb)-Total (mg/L)	<0.000050			
	Lithium (Li)-Total (mg/L)	<0.00050			

\* 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	L1590448-1	L1590448-2	L1590448-3	L1590448-4	L1590448-5
					Water 20-MAR-15 16:10 MW09-18	Water 20-MAR-15 16:10 MW09-18 FILTERED ALK	Water 20-MAR-15 13:45 MW09-19	Water 20-MAR-15 13:45 MW09-19 FILTERED ALK	Water 20-MAR-15 12:40 CH-P-13-05-/50
Grouping	Analyte								
<b>WATER</b>									
<b>Total Metals</b>	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)								
<b>Dissolved Metals</b>	Dissolved Mercury Filtration Location	FIELD					FIELD		FIELD
	Dissolved Metals Filtration Location	FIELD					FIELD		FIELD
	Aluminum (Al)-Dissolved (mg/L)	<0.0020 <sup>DLA</sup>					0.0134		0.0649
	Antimony (Sb)-Dissolved (mg/L)	0.00041					0.00046		<0.00050 <sup>DLA</sup>
	Arsenic (As)-Dissolved (mg/L)	0.0556					0.125		0.00444
	Barium (Ba)-Dissolved (mg/L)	0.00940					0.0520		0.00627
	Beryllium (Be)-Dissolved (mg/L)	<0.00020 <sup>DLA</sup>					<0.00020 <sup>DLA</sup>		<0.00050 <sup>DLA</sup>
	Bismuth (Bi)-Dissolved (mg/L)	<0.0010 <sup>DLA</sup>					<0.0010 <sup>DLA</sup>		<0.0025 <sup>DLA</sup>
	Boron (B)-Dissolved (mg/L)	<0.020 <sup>DLA</sup>					0.130		<0.050 <sup>DLA</sup>
	Cadmium (Cd)-Dissolved (mg/L)	0.000050					<0.000020 <sup>DLA</sup>		0.330
	Calcium (Ca)-Dissolved (mg/L)	369					302		453
	Chromium (Cr)-Dissolved (mg/L)	<0.00020 <sup>DLA</sup>					0.00041		<0.00050 <sup>DLA</sup>
	Cobalt (Co)-Dissolved (mg/L)	0.00030					0.00306		0.0398
	Copper (Cu)-Dissolved (mg/L)	<0.00040 <sup>DLA</sup>					<0.00040 <sup>DLA</sup>		0.0550
	Iron (Fe)-Dissolved (mg/L)	0.037					24.4		11.3
	Lead (Pb)-Dissolved (mg/L)	<0.00010 <sup>DLA</sup>					<0.00010 <sup>DLA</sup>		0.00451
	Lithium (Li)-Dissolved (mg/L)	0.0216					0.0081		0.0379
	Magnesium (Mg)-Dissolved (mg/L)	277					133		188

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## ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	L1590448-6	L1590448-7	L1590448-8	L1590448-9	L1590448-10
Description	Water	Water	Water	Water	Water
Sampled Date	20-MAR-15	20-MAR-15	20-MAR-15	20-MAR-15	20-MAR-15
Sampled Time	12:40	13:45	13:45	12:40	12:40
Client ID	CH-P-13-05-/50 FILTERED ALK	DUP-1	DUP-1 FILTERED ALK	DUP-2	DUP-2 FILTERED ALK
Grouping	Analyte				
<b>WATER</b>					
<b>Total Metals</b>	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)				
<b>Dissolved Metals</b>	Dissolved Mercury Filtration Location	FIELD		FIELD	
	Dissolved Metals Filtration Location	FIELD		FIELD	
	Aluminum (Al)-Dissolved (mg/L)	0.0127		0.0573	
	Antimony (Sb)-Dissolved (mg/L)	0.00048		<0.00050 <sup>DLA</sup>	
	Arsenic (As)-Dissolved (mg/L)	0.131		0.00455	
	Barium (Ba)-Dissolved (mg/L)	0.0542		0.00639	
	Beryllium (Be)-Dissolved (mg/L)	<0.00020 <sup>DLA</sup>		<0.00050 <sup>DLA</sup>	
	Bismuth (Bi)-Dissolved (mg/L)	<0.0010 <sup>DLA</sup>		<0.0025 <sup>DLA</sup>	
	Boron (B)-Dissolved (mg/L)	0.127		<0.050 <sup>DLA</sup>	
	Cadmium (Cd)-Dissolved (mg/L)	<0.000020 <sup>DLA</sup>		0.349	
	Calcium (Ca)-Dissolved (mg/L)	309		460	
	Chromium (Cr)-Dissolved (mg/L)	0.00035		<0.00050 <sup>DLA</sup>	
	Cobalt (Co)-Dissolved (mg/L)	0.00303		0.0402	
	Copper (Cu)-Dissolved (mg/L)	<0.00040 <sup>DLA</sup>		0.0555	
	Iron (Fe)-Dissolved (mg/L)	25.2		11.6	
	Lead (Pb)-Dissolved (mg/L)	<0.00010 <sup>DLA</sup>		0.00456	
	Lithium (Li)-Dissolved (mg/L)	0.0069		0.0368	
	Magnesium (Mg)-Dissolved (mg/L)	136		187	

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# ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1590448-11 Water 23-MAR-15  TRAVEL BLANK	L1590448-12 Water 20-MAR-15 16:10 FB-3	L1590448-13 Water 20-MAR-15 16:10 FB-3 FILTERED ALK	
Grouping	Analyte				
<b>WATER</b>					
<b>Total Metals</b>	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			
<b>Dissolved Metals</b>	Dissolved Mercury Filtration Location		FIELD		
	Dissolved Metals Filtration Location		FIELD		
	Aluminum (Al)-Dissolved (mg/L)		<0.0010		
	Antimony (Sb)-Dissolved (mg/L)		<0.00010		
	Arsenic (As)-Dissolved (mg/L)		<0.00010		
	Barium (Ba)-Dissolved (mg/L)		<0.000050		
	Beryllium (Be)-Dissolved (mg/L)		<0.00010		
	Bismuth (Bi)-Dissolved (mg/L)		<0.00050		
	Boron (B)-Dissolved (mg/L)		<0.010		
	Cadmium (Cd)-Dissolved (mg/L)		<0.000010		
	Calcium (Ca)-Dissolved (mg/L)		<0.050		
	Chromium (Cr)-Dissolved (mg/L)		<0.00010		
	Cobalt (Co)-Dissolved (mg/L)		<0.00010		
	Copper (Cu)-Dissolved (mg/L)		<0.00020		
	Iron (Fe)-Dissolved (mg/L)		<0.010		
	Lead (Pb)-Dissolved (mg/L)		<0.000050		
	Lithium (Li)-Dissolved (mg/L)		<0.00050		
	Magnesium (Mg)-Dissolved (mg/L)		<0.10		

\* 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	L1590448-1 Water 20-MAR-15 16:10 MW09-18	L1590448-2 Water 20-MAR-15 16:10 MW09-18 FILTERED ALK	L1590448-3 Water 20-MAR-15 13:45 MW09-19	L1590448-4 Water 20-MAR-15 13:45 MW09-19 FILTERED ALK	L1590448-5 Water 20-MAR-15 12:40 CH-P-13-05-/50
Grouping	Analyte					
<b>WATER</b>						
<b>Dissolved Metals</b>	Manganese (Mn)-Dissolved (mg/L)	0.848		9.20		37.5
	Mercury (Hg)-Dissolved (mg/L)	<0.000010		<0.000010		<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.00011		0.00013		0.00040
	Nickel (Ni)-Dissolved (mg/L)	<0.0010 <sup>DLA</sup>		0.0012		0.0143
	Phosphorus (P)-Dissolved (mg/L)	<0.050		0.207		<0.050
	Potassium (K)-Dissolved (mg/L)	7.61		9.21		5.00
	Selenium (Se)-Dissolved (mg/L)	<0.00020 <sup>DLA</sup>		<0.00020 <sup>DLA</sup>		<0.00050 <sup>DLA</sup>
	Silicon (Si)-Dissolved (mg/L)	5.35		11.0		7.20
	Silver (Ag)-Dissolved (mg/L)	<0.000020 <sup>DLA</sup>		<0.000020 <sup>DLA</sup>		<0.000050 <sup>DLA</sup>
	Sodium (Na)-Dissolved (mg/L)	13.1		20.6		8.37
	Strontium (Sr)-Dissolved (mg/L)	1.08		1.04		0.567
	Sulfur (S)-Dissolved (mg/L)	525		311		658
	Thallium (Tl)-Dissolved (mg/L)	0.000257 <sup>DLA</sup>		<0.000020 <sup>DLA</sup>		0.000520 <sup>DLA</sup>
	Tin (Sn)-Dissolved (mg/L)	<0.00020 <sup>DLA</sup>		<0.00020 <sup>DLA</sup>		<0.00050 <sup>DLA</sup>
	Titanium (Ti)-Dissolved (mg/L)	<0.020 <sup>DLA</sup>		<0.020 <sup>DLA</sup>		<0.050 <sup>DLA</sup>
	Uranium (U)-Dissolved (mg/L)	0.00779		0.000291 <sup>DLA</sup>		0.000695 <sup>DLA</sup>
	Vanadium (V)-Dissolved (mg/L)	<0.0020 <sup>DLA</sup>		<0.0020 <sup>DLA</sup>		<0.0050 <sup>DLA</sup>
	Zinc (Zn)-Dissolved (mg/L)	0.0031		<0.0020 <sup>DLA</sup>		31.7

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## ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	L1590448-6	L1590448-7	L1590448-8	L1590448-9	L1590448-10
Description	Water	Water	Water	Water	Water
Sampled Date	20-MAR-15	20-MAR-15	20-MAR-15	20-MAR-15	20-MAR-15
Sampled Time	12:40	13:45	13:45	12:40	12:40
Client ID	CH-P-13-05-/50 FILTERED ALK	DUP-1	DUP-1 FILTERED ALK	DUP-2	DUP-2 FILTERED ALK
Grouping	Analyte				
<b>WATER</b>					
<b>Dissolved Metals</b>	Manganese (Mn)-Dissolved (mg/L)		9.24		37.5
	Mercury (Hg)-Dissolved (mg/L)		<0.000010		<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)		0.00014		0.00042
	Nickel (Ni)-Dissolved (mg/L)		0.0015		0.0142
	Phosphorus (P)-Dissolved (mg/L)		0.211		<0.050
	Potassium (K)-Dissolved (mg/L)		9.85		5.15
	Selenium (Se)-Dissolved (mg/L)		<0.00020 <sup>DLA</sup>		<0.00050 <sup>DLA</sup>
	Silicon (Si)-Dissolved (mg/L)		11.4		7.34
	Silver (Ag)-Dissolved (mg/L)		<0.000020 <sup>DLA</sup>		<0.000050 <sup>DLA</sup>
	Sodium (Na)-Dissolved (mg/L)		20.4		8.31
	Strontium (Sr)-Dissolved (mg/L)		1.10		0.578
	Sulfur (S)-Dissolved (mg/L)		313		645
	Thallium (Tl)-Dissolved (mg/L)		<0.000020 <sup>DLA</sup>		0.000543 <sup>DLA</sup>
	Tin (Sn)-Dissolved (mg/L)		<0.00020 <sup>DLA</sup>		<0.00050 <sup>DLA</sup>
	Titanium (Ti)-Dissolved (mg/L)		<0.020 <sup>DLA</sup>		<0.050 <sup>DLA</sup>
	Uranium (U)-Dissolved (mg/L)		0.000296 <sup>DLA</sup>		0.000709 <sup>DLA</sup>
	Vanadium (V)-Dissolved (mg/L)		<0.0020 <sup>DLA</sup>		<0.0050 <sup>DLA</sup>
	Zinc (Zn)-Dissolved (mg/L)		<0.0020 <sup>DLA</sup>		31.8

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

# ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1590448-11	L1590448-12	L1590448-13		
		Description	Water	Water	Water		
		Sampled Date	23-MAR-15	20-MAR-15	20-MAR-15		
		Sampled Time		16:10	16:10		
		Client ID	TRAVEL BLANK	FB-3	FB-3 FILTERED ALK		
Grouping	Analyte						
<b>WATER</b>							
<b>Dissolved Metals</b>	Manganese (Mn)-Dissolved (mg/L)			<0.000050			
	Mercury (Hg)-Dissolved (mg/L)			<0.000010			
	Molybdenum (Mo)-Dissolved (mg/L)			<0.000050			
	Nickel (Ni)-Dissolved (mg/L)			<0.00050			
	Phosphorus (P)-Dissolved (mg/L)			<0.050			
	Potassium (K)-Dissolved (mg/L)			<0.10			
	Selenium (Se)-Dissolved (mg/L)			<0.00010			
	Silicon (Si)-Dissolved (mg/L)			<0.050			
	Silver (Ag)-Dissolved (mg/L)			<0.000010			
	Sodium (Na)-Dissolved (mg/L)			<0.050			
	Strontium (Sr)-Dissolved (mg/L)			<0.00020			
	Sulfur (S)-Dissolved (mg/L)			<0.50			
	Thallium (Tl)-Dissolved (mg/L)			<0.000010			
	Tin (Sn)-Dissolved (mg/L)			<0.00010			
	Titanium (Ti)-Dissolved (mg/L)			<0.010			
	Uranium (U)-Dissolved (mg/L)			<0.000010			
	Vanadium (V)-Dissolved (mg/L)			<0.0010			
	Zinc (Zn)-Dissolved (mg/L)			<0.0010			

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

## Reference Information

### QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Silicon (Si)-Dissolved	MS-B	L1590448-1, -12, -3, -5, -7, -9
Matrix Spike	Sulfur (S)-Dissolved	MS-B	L1590448-1, -12, -3, -5, -7, -9
Matrix Spike	Molybdenum (Mo)-Dissolved	MS-B	L1590448-1, -12, -3, -5, -7, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1590448-1, -12, -3, -5, -7, -9
Matrix Spike	Total Organic Carbon	MS-B	L1590448-12, -5, -7, -9
Matrix Spike	Total Inorganic Carbon	MS-B	L1590448-1, -11, -12, -3, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1590448-1, -12, -3, -5, -7, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1590448-1, -12, -3, -5, -7, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1590448-1, -12, -3, -5, -7, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1590448-1, -12, -3, -5, -7, -9
Matrix Spike	Total Organic Carbon	MS-B	L1590448-1, -11, -3
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1590448-1, -12, -3, -5, -7, -9
Matrix Spike	Iron (Fe)-Dissolved	MS-B	L1590448-1, -12, -3, -5, -7, -9
Matrix Spike	Silicon (Si)-Dissolved	MS-B	L1590448-1, -12, -3, -5, -7, -9
Matrix Spike	Total Kjeldahl Nitrogen	MSTN	L1590448-1, -12, -3, -5, -7, -9

### Qualifiers for Individual Parameters Listed:

Qualifier	Description
CNP	Cyanide test sample appears to have been preserved, but pH was <10 at time of testing. Results may be biased low, particularly for Free CN species.
DLA	Detection Limit adjusted for required dilution
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 TKN.
RRV	Reported Result Verified By Repeat Analysis

### Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
<b>ALK-COL-VA</b>	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.			
<b>ALK-PCT-VA</b>	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.			
<b>ALK-PCT-VA</b>	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.			
<b>CARBONS-TIC-VA</b>	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)".			
<b>CARBONS-TOC-VA</b>	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)".			
<b>CL-IC-N-WR</b>	Water	Chloride in Water by IC	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
<b>CN-FREE-CFA-VA</b>	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.			
<b>CN-SCN-VA</b>	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.			
<b>CN-T-CFA-VA</b>	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			

## Reference Information

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.

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

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

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

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

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

**IONBALANCE-VA** Water Ion Balance Calculation APHA 1030E

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

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

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

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

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

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

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

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

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

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

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

**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

## Reference Information

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**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)

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.

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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
WR	ALS ENVIRONMENTAL - WHITEHORSE, YUKON, CANADA
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

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**Chain of Custody Numbers:**

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## Reference Information

### GLOSSARY OF REPORT TERMS

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

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

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

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

*mg/L* - milligrams per litre.

*<* - Less than.

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

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

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

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

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



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, rmartinka@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		<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 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>		<b>Oil and Gas Required Fields (client use)</b>																	
ALS Quote #: Q45623		Approver ID:		Cost 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,T,J,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	Dissolved Metals, Hardness	Dissolved Mercury	Nitrate, Nitrite, Total Kjeldahl N (TKN)	Cl, F, Sulfate, conductivity, ph, alkalinity	Anion Sum, Cation Sum, Cation/Anion Balance	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	
MW09-18				20-Mar-15	16:10	Water	R	R	R	R	R	R	R	R	R	R	R	9	
MW09-19				20-Mar-15	13:45	Water	R	R	R	R	R	R	R	R	R	R	R	9	
CH-P-13-05-150				20-Mar-15	12:40	Water	R	R	R	R	R	R	R	R	R	R	R	9	
DUP-1				20-Mar-15	13:45	Water	R	R	R	R	R	R	R	R	R	R	R	9	
DUP-2				20-Mar-15	12:40	Water	R	R	R	R	R	R	R	R	R	R	R	9	
Travel Blank				20-Mar-25		Water	R	R	R	R	R	R	R	R	R	R	R	9	
FB-3				20-Mar-25	16:10	Water	R	R	R	R	R	R	R	R	R	R	R	9	
<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		- See attached parameter sheet for full parameter list.				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: 2.6 1.9 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:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:											

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

HA-FM 0326 v03 Print 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.