



Hamlet of Whale Cove
ATTN: BROCK JUNKIN
PO Box 120
Whale Cove MB X0C 0J0

Date Received: 18-JUN-13
Report Date: 24-MAR-14 09:05 (MT)
Version: FINAL REV. 2

Client Phone: 867-896-9961

Certificate of Analysis

Lab Work Order #: L1318619
Project P.O. #: NOT SUBMITTED
Job Reference: WHALE COVE MONITORING PROGRAM
C of C Numbers:
Legal Site Desc:

Paul Nicolas
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1318619-1 WHA-2							
Sampled By: Terri-Rose Teenar on 13-JUN-13							
Matrix: Water							
BTEX plus F1-F4							
BTX plus F1 by GCMS							
Benzene	<0.00050		0.00050	mg/L		26-JUN-13	R2639122
Toluene	<0.0010		0.0010	mg/L		26-JUN-13	R2639122
Ethyl benzene	<0.00050		0.00050	mg/L		26-JUN-13	R2639122
o-Xylene	<0.00050		0.00050	mg/L		26-JUN-13	R2639122
m+p-Xylenes	<0.00050		0.00050	mg/L		26-JUN-13	R2639122
Xylenes	<0.0015		0.0015	mg/L		26-JUN-13	R2639122
F1 (C6-C10)	<0.10		0.10	mg/L		26-JUN-13	R2639122
Surrogate: 4-Bromofluorobenzene (SS)	101.3		70-130	%		26-JUN-13	R2639122
CCME Total Hydrocarbons							
F1-BTEX	<0.10		0.10	mg/L		27-JUN-13	
F2-Naphth	<0.25		0.25	mg/L		27-JUN-13	
F3-PAH	<0.25		0.25	mg/L		27-JUN-13	
Total Hydrocarbons (C6-C50)	<0.44		0.44	mg/L		27-JUN-13	
F2-F4 PHC method							
F2 (C10-C16)	<0.25		0.25	mg/L	21-JUN-13	21-JUN-13	R2637344
F3 (C16-C34)	<0.25		0.25	mg/L	21-JUN-13	21-JUN-13	R2637344
F4 (C34-C50)	<0.25		0.25	mg/L	21-JUN-13	21-JUN-13	R2637344
Surrogate: 2-Bromobenzotrifluoride	79.2		65-135	%	21-JUN-13	21-JUN-13	R2637344
Miscellaneous Parameters							
Ammonia, Total (as N)	0.482		0.010	mg/L		19-JUN-13	R2635020
Oil and Grease, Total	<2.0		2.0	mg/L	21-JUN-13	21-JUN-13	R2636663
Phenols (4AAP)	<0.0010		0.0010	mg/L	21-JUN-13	21-JUN-13	R2636109
Phosphorus (P)-Total	0.147		0.010	mg/L		20-JUN-13	R2635219
Total Organic Carbon	7.7		1.0	mg/L		29-JUN-13	R2641476
Total Suspended Solids	14.0		5.0	mg/L		19-JUN-13	R2634985
Polyaromatic Hydrocarbons (PAHs)							
1-Methyl Naphthalene	0.000038		0.000020	mg/L	19-JUN-13	19-JUN-13	R2638290
2-Methyl Naphthalene	0.000040		0.000020	mg/L	19-JUN-13	19-JUN-13	R2638290
Acenaphthene	<0.000020		0.000020	mg/L	19-JUN-13	19-JUN-13	R2638290
Acenaphthylene	<0.000020		0.000020	mg/L	19-JUN-13	19-JUN-13	R2638290
Anthracene	<0.000010		0.000010	mg/L	19-JUN-13	19-JUN-13	R2638290
Acridine	<0.000020		0.000020	mg/L	19-JUN-13	19-JUN-13	R2638290
Benzo(a)anthracene	<0.000010		0.000010	mg/L	19-JUN-13	19-JUN-13	R2638290
Benzo(a)pyrene	<0.0000050		0.0000050	mg/L	19-JUN-13	19-JUN-13	R2638290
Benzo(b&j)fluoranthene	<0.000010		0.000010	mg/L	19-JUN-13	19-JUN-13	R2638290
Benzo(g,h,i)perylene	<0.000020		0.000020	mg/L	19-JUN-13	19-JUN-13	R2638290
Benzo(k)fluoranthene	<0.000010		0.000010	mg/L	19-JUN-13	19-JUN-13	R2638290
Chrysene	<0.000020		0.000020	mg/L	19-JUN-13	19-JUN-13	R2638290
Dibenzo(a,h)anthracene	<0.0000050		0.0000050	mg/L	19-JUN-13	19-JUN-13	R2638290
Fluoranthene	<0.000020		0.000020	mg/L	19-JUN-13	19-JUN-13	R2638290
Fluorene	0.000022		0.000020	mg/L	19-JUN-13	19-JUN-13	R2638290
Indeno(1,2,3-cd)pyrene	<0.000010		0.000010	mg/L	19-JUN-13	19-JUN-13	R2638290
Naphthalene	0.000120		0.000050	mg/L	19-JUN-13	19-JUN-13	R2638290
Phenanthrene	<0.000050		0.000050	mg/L	19-JUN-13	19-JUN-13	R2638290
Pyrene	<0.000010		0.000010	mg/L	19-JUN-13	19-JUN-13	R2638290
Quinoline	0.000103	EMPC	0.000020	mg/L	19-JUN-13	19-JUN-13	R2638290
B(a)P Total Potency Equivalent	<0.000030		0.000030	mg/L	19-JUN-13	19-JUN-13	R2638290
Surrogate: Acenaphthene d10	88.8		40-130	%	19-JUN-13	19-JUN-13	R2638290
Surrogate: Acridine d9	93.4		40-130	%	19-JUN-13	19-JUN-13	R2638290
Surrogate: Chrysene d12	77.6		40-130	%	19-JUN-13	19-JUN-13	R2638290

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1318619-1 WHA-2							
Sampled By: Terri-Rose Teenar on 13-JUN-13							
Matrix: Water							
Polyaromatic Hydrocarbons (PAHs)							
Surrogate: Naphthalene d8	86.8		40-130	%	19-JUN-13	19-JUN-13	R2638290
Surrogate: Phenanthrene d10	92.3		40-130	%	19-JUN-13	19-JUN-13	R2638290
Routine Soluble + Metal scan							
Alkalinity							
Alkalinity, Total (as CaCO3)	47		20	mg/L		19-JUN-13	R2634831
Bicarbonate (HCO3)	58		24	mg/L		19-JUN-13	R2634831
Carbonate (CO3)	<12		12	mg/L		19-JUN-13	R2634831
Hydroxide (OH)	<6.8		6.8	mg/L		19-JUN-13	R2634831
Chloride by Ion Chromatography							
Chloride	19.1		0.50	mg/L		19-JUN-13	R2635565
Conductivity							
Conductivity	286		20	umhos/cm		19-JUN-13	R2634831
Hardness Calculated							
Hardness (as CaCO3)	113		0.30	mg/L		21-JUN-13	
Nitrate as N by Ion Chromatography							
Nitrate-N	0.130		0.050	mg/L		19-JUN-13	R2635565
Nitrate+Nitrite							
Nitrate and Nitrite as N	0.130		0.071	mg/L		21-JUN-13	
Nitrite as N by Ion Chromatography							
Nitrite-N	<0.050		0.050	mg/L		19-JUN-13	R2635565
Sulfate by Ion Chromatography							
Sulfate	36.5		0.50	mg/L		19-JUN-13	R2635565
TDS calculated							
TDS (Calculated)	147		5.0	mg/L		21-JUN-13	
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.120		0.020	mg/L	20-JUN-13	20-JUN-13	R2635555
Antimony (Sb)-Total	0.0046		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
Arsenic (As)-Total	0.0014		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
Barium (Ba)-Total	0.0157		0.00050	mg/L	20-JUN-13	20-JUN-13	R2635555
Beryllium (Be)-Total	<0.0010		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
Bismuth (Bi)-Total	<0.00050		0.00050	mg/L	20-JUN-13	20-JUN-13	R2635555
Boron (B)-Total	0.105		0.030	mg/L	20-JUN-13	20-JUN-13	R2635555
Cadmium (Cd)-Total	<0.00020		0.00020	mg/L	20-JUN-13	20-JUN-13	R2635555
Calcium (Ca)-Total	38.2		0.20	mg/L	20-JUN-13	20-JUN-13	R2635555
Cesium (Cs)-Total	<0.00050		0.00050	mg/L	20-JUN-13	20-JUN-13	R2635555
Chromium (Cr)-Total	<0.0020		0.0020	mg/L	20-JUN-13	20-JUN-13	R2635555
Cobalt (Co)-Total	0.00114		0.00050	mg/L	20-JUN-13	20-JUN-13	R2635555
Copper (Cu)-Total	0.0119		0.0020	mg/L	20-JUN-13	20-JUN-13	R2635555
Iron (Fe)-Total	0.75		0.10	mg/L	20-JUN-13	20-JUN-13	R2635555
Lead (Pb)-Total	0.0024		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
Lithium (Li)-Total	<0.0020		0.0020	mg/L	20-JUN-13	20-JUN-13	R2635555
Magnesium (Mg)-Total	4.21		0.050	mg/L	20-JUN-13	20-JUN-13	R2635555
Manganese (Mn)-Total	0.126		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
Molybdenum (Mo)-Total	0.0203		0.00050	mg/L	20-JUN-13	20-JUN-13	R2635555
Nickel (Ni)-Total	0.0041		0.0020	mg/L	20-JUN-13	20-JUN-13	R2635555
Phosphorus (P)-Total	<0.50		0.50	mg/L	20-JUN-13	20-JUN-13	R2635555
Potassium (K)-Total	4.37		0.10	mg/L	20-JUN-13	20-JUN-13	R2635555
Rubidium (Rb)-Total	0.00424		0.00050	mg/L	20-JUN-13	20-JUN-13	R2635555
Selenium (Se)-Total	<0.0050		0.0050	mg/L	20-JUN-13	20-JUN-13	R2635555
Silicon (Si)-Total	1.07		0.30	mg/L	20-JUN-13	20-JUN-13	R2635555
Silver (Ag)-Total	<0.0010		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
Sodium (Na)-Total	15.9		0.050	mg/L	20-JUN-13	20-JUN-13	R2635555

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1318619-1	WHA-2							
Sampled By: Terri-Rose Teenar on 13-JUN-13								
Matrix: Water								
Total Metals by ICP-MS								
Strontium (Sr)-Total		0.207		0.00050	mg/L	20-JUN-13	20-JUN-13	R2635555
Tellurium (Te)-Total		<0.0010		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
Thallium (Tl)-Total		<0.0050		0.0050	mg/L	20-JUN-13	20-JUN-13	R2635555
Thorium (Th)-Total		<0.0010		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
Tin (Sn)-Total		<0.00060		0.00060	mg/L	20-JUN-13	20-JUN-13	R2635555
Titanium (Ti)-Total		0.0038		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
Tungsten (W)-Total		<0.0020		0.0020	mg/L	20-JUN-13	20-JUN-13	R2635555
Uranium (U)-Total		<0.00050		0.00050	mg/L	20-JUN-13	20-JUN-13	R2635555
Vanadium (V)-Total		<0.0020		0.0020	mg/L	20-JUN-13	20-JUN-13	R2635555
Zinc (Zn)-Total		0.055		0.020	mg/L	20-JUN-13	20-JUN-13	R2635555
Zirconium (Zr)-Total		<0.0010		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
pH								
pH		6.05		0.10	pH units		19-JUN-13	R2634831
L1318619-2	WHA-3							
Sampled By: Terri-Rose Teenar on 13-JUN-13								
Matrix: Water								
BTEX plus F1-F4								
BTX plus F1 by GCMS								
Benzene		<0.00050		0.00050	mg/L		26-JUN-13	R2639122
Toluene		<0.0010		0.0010	mg/L		26-JUN-13	R2639122
Ethyl benzene		<0.00050		0.00050	mg/L		26-JUN-13	R2639122
o-Xylene		<0.00050		0.00050	mg/L		26-JUN-13	R2639122
m+p-Xylenes		<0.00050		0.00050	mg/L		26-JUN-13	R2639122
Xylenes		<0.0015		0.0015	mg/L		26-JUN-13	R2639122
F1 (C6-C10)		<0.10		0.10	mg/L		26-JUN-13	R2639122
Surrogate: 4-Bromofluorobenzene (SS)		107.0		70-130	%		26-JUN-13	R2639122
CCME Total Hydrocarbons								
F1-BTEX		<0.10		0.10	mg/L		27-JUN-13	
F2-Naphth		<0.25		0.25	mg/L		27-JUN-13	
F3-PAH		<0.25		0.25	mg/L		27-JUN-13	
Total Hydrocarbons (C6-C50)		<0.44		0.44	mg/L		27-JUN-13	
F2-F4 PHC method								
F2 (C10-C16)		<0.25		0.25	mg/L	21-JUN-13	21-JUN-13	R2637344
F3 (C16-C34)		<0.25		0.25	mg/L	21-JUN-13	21-JUN-13	R2637344
F4 (C34-C50)		<0.25		0.25	mg/L	21-JUN-13	21-JUN-13	R2637344
Surrogate: 2-Bromobenzotrifluoride		80.7		65-135	%	21-JUN-13	21-JUN-13	R2637344
Miscellaneous Parameters								
Ammonia, Total (as N)		0.74	DLA	0.10	mg/L		19-JUN-13	R2635020
Oil and Grease, Total		<2.0		2.0	mg/L	21-JUN-13	21-JUN-13	R2636663
Phenols (4AAP)		0.0020		0.0010	mg/L	21-JUN-13	21-JUN-13	R2636109
Phosphorus (P)-Total		0.878		0.010	mg/L		20-JUN-13	R2635219
Total Organic Carbon		13.4		1.0	mg/L		29-JUN-13	R2641476
Total Suspended Solids		11.0		5.0	mg/L		19-JUN-13	R2634985
Polyaromatic Hydrocarbons (PAHs)								
1-Methyl Naphthalene		<0.000020		0.000020	mg/L	19-JUN-13	19-JUN-13	R2638290
2-Methyl Naphthalene		<0.000020		0.000020	mg/L	19-JUN-13	19-JUN-13	R2638290
Acenaphthene		<0.000020		0.000020	mg/L	19-JUN-13	19-JUN-13	R2638290
Acenaphthylene		<0.000020		0.000020	mg/L	19-JUN-13	19-JUN-13	R2638290
Anthracene		<0.000010		0.000010	mg/L	19-JUN-13	19-JUN-13	R2638290
Acridine		<0.000020		0.000020	mg/L	19-JUN-1		

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1318619-2 WHA-3							
Sampled By: Terri-Rose Teenar on 13-JUN-13							
Matrix: Water							
Polyaromatic Hydrocarbons (PAHs)							
Benzo(a)pyrene	<0.0000050		0.0000050	mg/L	19-JUN-13	19-JUN-13	R2638290
Benzo(b&j)fluoranthene	<0.000010		0.000010	mg/L	19-JUN-13	19-JUN-13	R2638290
Benzo(g,h,i)perylene	<0.000020		0.000020	mg/L	19-JUN-13	19-JUN-13	R2638290
Benzo(k)fluoranthene	<0.000010		0.000010	mg/L	19-JUN-13	19-JUN-13	R2638290
Chrysene	<0.000020		0.000020	mg/L	19-JUN-13	19-JUN-13	R2638290
Dibenzo(a,h)anthracene	<0.0000050		0.0000050	mg/L	19-JUN-13	19-JUN-13	R2638290
Fluoranthene	<0.000020		0.000020	mg/L	19-JUN-13	19-JUN-13	R2638290
Fluorene	<0.000020		0.000020	mg/L	19-JUN-13	19-JUN-13	R2638290
Indeno(1,2,3-cd)pyrene	<0.000010		0.000010	mg/L	19-JUN-13	19-JUN-13	R2638290
Naphthalene	<0.000050		0.000050	mg/L	19-JUN-13	19-JUN-13	R2638290
Phenanthrene	<0.000050		0.000050	mg/L	19-JUN-13	19-JUN-13	R2638290
Pyrene	<0.000010		0.000010	mg/L	19-JUN-13	19-JUN-13	R2638290
Quinoline	<0.000020		0.000020	mg/L	19-JUN-13	19-JUN-13	R2638290
B(a)P Total Potency Equivalent	<0.000030		0.000030	mg/L	19-JUN-13	19-JUN-13	R2638290
Surrogate: Acenaphthene d10	100.2		40-130	%	19-JUN-13	19-JUN-13	R2638290
Surrogate: Acridine d9	93.4		40-130	%	19-JUN-13	19-JUN-13	R2638290
Surrogate: Chrysene d12	87.4		40-130	%	19-JUN-13	19-JUN-13	R2638290
Surrogate: Naphthalene d8	92.5		40-130	%	19-JUN-13	19-JUN-13	R2638290
Surrogate: Phenanthrene d10	101.0		40-130	%	19-JUN-13	19-JUN-13	R2638290
Routine Soluble + Metal scan							
Alkalinity							
Alkalinity, Total (as CaCO3)	147		20	mg/L		19-JUN-13	R2634831
Bicarbonate (HCO3)	180		24	mg/L		19-JUN-13	R2634831
Carbonate (CO3)	<12		12	mg/L		19-JUN-13	R2634831
Hydroxide (OH)	<6.8		6.8	mg/L		19-JUN-13	R2634831
Chloride by Ion Chromatography							
Chloride	76.9		0.50	mg/L		19-JUN-13	R2635565
Conductivity							
Conductivity	572		20	umhos/cm		19-JUN-13	R2634831
Hardness Calculated							
Hardness (as CaCO3)	94.5		0.30	mg/L		21-JUN-13	
Nitrate as N by Ion Chromatography							
Nitrate-N	<0.050		0.050	mg/L		19-JUN-13	R2635565
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.071		0.071	mg/L		21-JUN-13	
Nitrite as N by Ion Chromatography							
Nitrite-N	<0.050		0.050	mg/L		19-JUN-13	R2635565
Sulfate by Ion Chromatography							
Sulfate	28.5		0.50	mg/L		19-JUN-13	R2635565
TDS calculated							
TDS (Calculated)	275		5.0	mg/L		21-JUN-13	
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.031		0.020	mg/L	20-JUN-13	20-JUN-13	R2635555
Antimony (Sb)-Total	<0.0010		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
Arsenic (As)-Total	0.0042		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
Barium (Ba)-Total	0.00672		0.00050	mg/L	20-JUN-13	20-JUN-13	R2635555
Beryllium (Be)-Total	<0.0010		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
Bismuth (Bi)-Total	<0.00050		0.00050	mg/L	20-JUN-13	20-JUN-13	R2635555
Boron (B)-Total	0.056		0.030	mg/L	20-JUN-13	20-JUN-13	R2635555
Cadmium (Cd)-Total	<0.00020		0.00020	mg/L	20-JUN-13	20-JUN-13	R2635555
Calcium (Ca)-Total	29.8		0.20	mg/L	20-JUN-13	20-JUN-13	R2635555
Cesium (Cs)-Total	<0.00050		0.00050	mg/L	20-JUN-13	20-JUN-13	R2635555

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1318619-2	WHA-3							
Sampled By:	Terri-Rose Teenar on 13-JUN-13							
Matrix:	Water							
Total Metals by ICP-MS								
Chromium (Cr)-Total		<0.0020		0.0020	mg/L	20-JUN-13	20-JUN-13	R2635555
Cobalt (Co)-Total		0.00056		0.00050	mg/L	20-JUN-13	20-JUN-13	R2635555
Copper (Cu)-Total		0.0062		0.0020	mg/L	20-JUN-13	20-JUN-13	R2635555
Iron (Fe)-Total		<0.10		0.10	mg/L	20-JUN-13	20-JUN-13	R2635555
Lead (Pb)-Total		<0.0010		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
Lithium (Li)-Total		<0.0020		0.0020	mg/L	20-JUN-13	20-JUN-13	R2635555
Magnesium (Mg)-Total		4.86		0.050	mg/L	20-JUN-13	20-JUN-13	R2635555
Manganese (Mn)-Total		0.363		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
Molybdenum (Mo)-Total		0.00126		0.00050	mg/L	20-JUN-13	20-JUN-13	R2635555
Nickel (Ni)-Total		0.0023		0.0020	mg/L	20-JUN-13	20-JUN-13	R2635555
Phosphorus (P)-Total		1.25		0.50	mg/L	20-JUN-13	20-JUN-13	R2635555
Potassium (K)-Total		11.8		0.10	mg/L	20-JUN-13	20-JUN-13	R2635555
Rubidium (Rb)-Total		0.00507		0.00050	mg/L	20-JUN-13	20-JUN-13	R2635555
Selenium (Se)-Total		<0.0050		0.0050	mg/L	20-JUN-13	20-JUN-13	R2635555
Silicon (Si)-Total		1.68		0.30	mg/L	20-JUN-13	20-JUN-13	R2635555
Silver (Ag)-Total		<0.0010		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
Sodium (Na)-Total		34.8		0.050	mg/L	20-JUN-13	20-JUN-13	R2635555
Strontium (Sr)-Total		0.143		0.00050	mg/L	20-JUN-13	20-JUN-13	R2635555
Tellurium (Te)-Total		<0.0010		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
Thallium (Tl)-Total		<0.0050		0.0050	mg/L	20-JUN-13	20-JUN-13	R2635555
Thorium (Th)-Total		<0.0010		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
Tin (Sn)-Total		<0.00060		0.00060	mg/L	20-JUN-13	20-JUN-13	R2635555
Titanium (Ti)-Total		<0.0010		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
Tungsten (W)-Total		<0.0020		0.0020	mg/L	20-JUN-13	20-JUN-13	R2635555
Uranium (U)-Total		0.00094		0.00050	mg/L	20-JUN-13	20-JUN-13	R2635555
Vanadium (V)-Total		<0.0020		0.0020	mg/L	20-JUN-13	20-JUN-13	R2635555
Zinc (Zn)-Total		<0.020		0.020	mg/L	20-JUN-13	20-JUN-13	R2635555
Zirconium (Zr)-Total		<0.0010		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
pH								
pH		7.68		0.10	pH units		19-JUN-13	R2634831
L1318619-3	WHA-4							
Sampled By:	Terri-Rose Teenar on 13-JUN-13							
Matrix:	Water							
BTEX plus F1-F4								
BTX plus F1 by GCMS								
Benzene		<0.00050		0.00050	mg/L		26-JUN-13	R2639122
Toluene		0.0025		0.0010	mg/L		26-JUN-13	R2639122
Ethyl benzene		<0.00050		0.00050	mg/L		26-JUN-13	R2639122
o-Xylene		<0.00050		0.00050	mg/L		26-JUN-13	R2639122
m+p-Xylenes		<0.00050		0.00050	mg/L		26-JUN-13	R2639122
Xylenes		<0.0015		0.0015	mg/L		26-JUN-13	R2639122
F1 (C6-C10)		<0.10		0.10	mg/L		26-JUN-13	R2639122
Surrogate: 4-Bromofluorobenzene (SS)		109.3		70-130	%		26-JUN-13	R2639122
CCME Total Hydrocarbons								
F1-BTEX		<0.10		0.10	mg/L		27-JUN-13	
F2-Naphth		<0.25		0.25	mg/L		27-JUN-13	
F3-PAH		2.05		0.25	mg/L		27-JUN-13	
Total Hydrocarbons (C6-C50)		2.77		0.44	mg/L		27-JUN-13	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1318619-3 WHA-4							
Sampled By: Terri-Rose Teenar on 13-JUN-13							
Matrix: Water							
F2-F4 PHC method							
F4 (C34-C50)	0.72		0.25	mg/L	21-JUN-13	21-JUN-13	R2637344
Surrogate: 2-Bromobenzotrifluoride	81.9		65-135	%	21-JUN-13	21-JUN-13	R2637344
Miscellaneous Parameters							
Ammonia, Total (as N)	28.2	DLA	1.0	mg/L		21-JUN-13	R2637029
Oil and Grease, Total	2.3		2.0	mg/L	21-JUN-13	21-JUN-13	R2636663
Phenols (4AAP)	0.0290		0.0010	mg/L	21-JUN-13	21-JUN-13	R2636109
Phosphorus (P)-Total	4.65		0.010	mg/L		20-JUN-13	R2635219
Total Organic Carbon	29.9		1.0	mg/L		29-JUN-13	R2641476
Total Suspended Solids	26.0		5.0	mg/L		19-JUN-13	R2634985
Polyaromatic Hydrocarbons (PAHs)							
1-Methyl Naphthalene	<0.000020		0.000020	mg/L	19-JUN-13	19-JUN-13	R2638290
2-Methyl Naphthalene	<0.000020		0.000020	mg/L	19-JUN-13	19-JUN-13	R2638290
Acenaphthene	<0.000020		0.000020	mg/L	19-JUN-13	19-JUN-13	R2638290
Acenaphthylene	<0.000020		0.000020	mg/L	19-JUN-13	19-JUN-13	R2638290
Anthracene	<0.000010		0.000010	mg/L	19-JUN-13	19-JUN-13	R2638290
Acridine	<0.000020		0.000020	mg/L	19-JUN-13	19-JUN-13	R2638290
Benzo(a)anthracene	<0.000010		0.000010	mg/L	19-JUN-13	19-JUN-13	R2638290
Benzo(a)pyrene	<0.0000050		0.0000050	mg/L	19-JUN-13	19-JUN-13	R2638290
Benzo(b&j)fluoranthene	<0.000010		0.000010	mg/L	19-JUN-13	19-JUN-13	R2638290
Benzo(g,h,i)perylene	<0.000020		0.000020	mg/L	19-JUN-13	19-JUN-13	R2638290
Benzo(k)fluoranthene	<0.000010		0.000010	mg/L	19-JUN-13	19-JUN-13	R2638290
Chrysene	<0.000020		0.000020	mg/L	19-JUN-13	19-JUN-13	R2638290
Dibenzo(a,h)anthracene	<0.0000050		0.0000050	mg/L	19-JUN-13	19-JUN-13	R2638290
Fluoranthene	<0.000020		0.000020	mg/L	19-JUN-13	19-JUN-13	R2638290
Fluorene	<0.000020		0.000020	mg/L	19-JUN-13	19-JUN-13	R2638290
Indeno(1,2,3-cd)pyrene	0.000057		0.000010	mg/L	19-JUN-13	19-JUN-13	R2638290
Naphthalene	<0.000050		0.000050	mg/L	19-JUN-13	19-JUN-13	R2638290
Phenanthrene	<0.000050		0.000050	mg/L	19-JUN-13	19-JUN-13	R2638290
Pyrene	<0.000010		0.000010	mg/L	19-JUN-13	19-JUN-13	R2638290
Quinoline	0.000027		0.000020	mg/L	19-JUN-13	19-JUN-13	R2638290
B(a)P Total Potency Equivalent	<0.000030		0.000030	mg/L	19-JUN-13	19-JUN-13	R2638290
Surrogate: Acenaphthene d10	96.0		40-130	%	19-JUN-13	19-JUN-13	R2638290
Surrogate: Acridine d9	69.4		40-130	%	19-JUN-13	19-JUN-13	R2638290
Surrogate: Chrysene d12	63.6		40-130	%	19-JUN-13	19-JUN-13	R2638290
Surrogate: Naphthalene d8	N/A	SOL:MI	40-130	%	19-JUN-13	19-JUN-13	R2638290
Surrogate: Phenanthrene d10	77.4		40-130	%	19-JUN-13	19-JUN-13	R2638290
Routine Soluble + Metal scan							
Alkalinity							
Alkalinity, Total (as CaCO3)	194		20	mg/L		19-JUN-13	R2634831
Bicarbonate (HCO3)	237		24	mg/L		19-JUN-13	R2634831
Carbonate (CO3)	<12		12	mg/L		19-JUN-13	R2634831
Hydroxide (OH)	<6.8		6.8	mg/L		19-JUN-13	R2634831
Chloride by Ion Chromatography							
Chloride	68.2		0.50	mg/L		19-JUN-13	R2635565
Conductivity							
Conductivity	657		20	umhos/cm		19-JUN-13	R2634831
Hardness Calculated							
Hardness (as CaCO3)	75.5		0.30	mg/L		21-JUN-13	
Nitrate as N by Ion Chromatography							
Nitrate-N	<0.050		0.050	mg/L		19-JUN-13	R2635565
Nitrate+Nitrite							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1318619-3 WHA-4							
Sampled By: Terri-Rose Teenar on 13-JUN-13							
Matrix: Water							
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.071		0.071	mg/L		21-JUN-13	
Nitrite as N by Ion Chromatography							
Nitrite-N	<0.050		0.050	mg/L		19-JUN-13	R2635555
Sulfate by Ion Chromatography							
Sulfate	16.1		0.50	mg/L		19-JUN-13	R2635555
TDS calculated							
TDS (Calculated)	293		5.0	mg/L		21-JUN-13	
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.079		0.020	mg/L	20-JUN-13	20-JUN-13	R2635555
Antimony (Sb)-Total	<0.0010		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
Arsenic (As)-Total	<0.0010		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
Barium (Ba)-Total	0.00251		0.00050	mg/L	20-JUN-13	20-JUN-13	R2635555
Beryllium (Be)-Total	<0.0010		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
Bismuth (Bi)-Total	<0.00050		0.00050	mg/L	20-JUN-13	20-JUN-13	R2635555
Boron (B)-Total	0.111		0.030	mg/L	20-JUN-13	20-JUN-13	R2635555
Cadmium (Cd)-Total	<0.00020		0.00020	mg/L	20-JUN-13	20-JUN-13	R2635555
Calcium (Ca)-Total	21.4		0.20	mg/L	20-JUN-13	20-JUN-13	R2635555
Cesium (Cs)-Total	<0.00050		0.00050	mg/L	20-JUN-13	20-JUN-13	R2635555
Chromium (Cr)-Total	<0.0020		0.0020	mg/L	20-JUN-13	20-JUN-13	R2635555
Cobalt (Co)-Total	<0.00050		0.00050	mg/L	20-JUN-13	20-JUN-13	R2635555
Copper (Cu)-Total	0.0332		0.0020	mg/L	20-JUN-13	20-JUN-13	R2635555
Iron (Fe)-Total	0.21		0.10	mg/L	20-JUN-13	20-JUN-13	R2635555
Lead (Pb)-Total	<0.0010		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
Lithium (Li)-Total	<0.0020		0.0020	mg/L	20-JUN-13	20-JUN-13	R2635555
Magnesium (Mg)-Total	5.34		0.050	mg/L	20-JUN-13	20-JUN-13	R2635555
Manganese (Mn)-Total	0.0643		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
Molybdenum (Mo)-Total	0.00061		0.00050	mg/L	20-JUN-13	20-JUN-13	R2635555
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	20-JUN-13	20-JUN-13	R2635555
Phosphorus (P)-Total	4.97		0.50	mg/L	20-JUN-13	20-JUN-13	R2635555
Potassium (K)-Total	15.2		0.10	mg/L	20-JUN-13	20-JUN-13	R2635555
Rubidium (Rb)-Total	0.0159		0.00050	mg/L	20-JUN-13	20-JUN-13	R2635555
Selenium (Se)-Total	<0.0050		0.0050	mg/L	20-JUN-13	20-JUN-13	R2635555
Silicon (Si)-Total	1.64		0.30	mg/L	20-JUN-13	20-JUN-13	R2635555
Silver (Ag)-Total	<0.0010		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
Sodium (Na)-Total	50.8		0.050	mg/L	20-JUN-13	20-JUN-13	R2635555
Strontium (Sr)-Total	0.0822		0.00050	mg/L	20-JUN-13	20-JUN-13	R2635555
Tellurium (Te)-Total	<0.0010		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
Thallium (Tl)-Total	<0.0050		0.0050	mg/L	20-JUN-13	20-JUN-13	R2635555
Thorium (Th)-Total	<0.0010		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
Tin (Sn)-Total	0.00077		0.00060	mg/L	20-JUN-13	20-JUN-13	R2635555
Titanium (Ti)-Total	0.0061		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
Tungsten (W)-Total	<0.0020		0.0020	mg/L	20-JUN-13	20-JUN-13	R2635555
Uranium (U)-Total	<0.00050		0.00050	mg/L	20-JUN-13	20-JUN-13	R2635555
Vanadium (V)-Total	<0.0020		0.0020	mg/L	20-JUN-13	20-JUN-13	R2635555
Zinc (Zn)-Total	0.035		0.020	mg/L	20-JUN-13	20-JUN-13	R2635555
Zirconium (Zr)-Total	<0.0010		0.0010	mg/L	20-JUN-13	20-JUN-13	R2635555
pH							
pH	7.45		0.10	pH units		19-JUN-13	R2634831

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Sample Parameter Qualifier Key:

Qualifier	Description
DLA	Detection Limit adjusted for required dilution
EMPC	Estimated Maximum Possible Concentration. Parameter detected but didn't meet all criteria for positive identification.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
SOL:MI	Surrogate recovery outside acceptable limits due to matrix interference

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
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ALK-TOT-WP	Water	Alkalinity	APHA 2320B
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Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO₃⁻ and H₂CO₃ endpoints indicated electrometrically.

BTEXS+F1-HSMS-WP	Water	BTX plus F1 by GCMS	EPA 8260C / EPA 5021A
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The water sample, with added reagents, is heated in a sealed vial to equilibrium. The headspace from the vial is transferred into a gas chromatograph. Target compound concentrations are measured using mass spectrometry detection.

C-TOT-ORG-WP	Water	Total Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
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This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.

The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC.

TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.

CL-IC-WP	Water	Chloride by Ion Chromatography	EPA 300.1 (modified)
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Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

EC-WP	Water	Conductivity	APHA 2510B
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Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.

ETL-HARDNESS-TOT-WP	Water	Hardness Calculated	HARDNESS CALCULATED
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ETL-SOLIDS-CALC-WP	Water	TDS calculated	CALCULATION
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F1-F4-CALC-WP	Water	CCME Total Hydrocarbons	CCME CWS-PHC DEC-2000 - PUB# 1310-L
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Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.

In samples where BTEX and F1 were analyzed, F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:

1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:

1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F2-F4-WS-WP	Water	F2-F4 PHC method	EPA 3510/8000
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This is the determination of the Petroleum Hydrocarbon fractions in water (F2, F3 and F4). A water sample volume of 200 mL in a 250 mL glass amber bottle is shaken with 10 mL hexane for two hours on a wrist action shaker, and then sonicated for 5 minutes. After extraction, the solvent layer is drawn off and analyzed against C10, C16 and C34 standards on a gas chromatograph equipped with a flame ionization detector.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
IONBALANCE-CALC-WP	Water	Ion Balance Calculation	APHA 1030E
MET-T-MS-WP	Water	Total Metals by ICP-MS	APHA 3030E/EPA 6020A-T
This analysis involves preliminary sample treatment by hotblock acid digestion (APHA 3030E). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).			
NH3-COL-WP	Water	Ammonia by colour	APHA 4500 NH3 F
Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium nitroprusside and measured colourmetrically.			
NO2+NO3-CALC-WP	Water	Nitrate+Nitrite	CALCULATION
NO2-IC-WP	Water	Nitrite as N by Ion Chromatography	EPA 300.1 (modified)
Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.			
NO3-IC-WP	Water	Nitrate as N by Ion Chromatography	EPA 300.1 (modified)
Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.			
OGG-TOT-WT	Water	Oil and Grease, Total	APHA 5520 B
Sample is extracted with hexane, extract is then evaporated and the residue is weighed to determine total oil and grease.			
P-T-COL-WP	Water	Phosphorus, Total	APHA 4500 P PHOSPHORUS
This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous is determined colourimetrically after persulphate digestion of the sample.			
PAH,PANH-WP	Water	Polyaromatic Hydrocarbons (PAHs)	EPA SW 846/8270-GC/MS
Water is spiked with a surrogate spike mix and extracted using solvent extraction techniques. Analysis is performed by GC/MS in the selected ion monitoring (SIM) mode.			
PH-WP	Water	pH	APHA 4500H
The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.			
PHENOLS-4AAP-WT	Water	Phenol (4AAP)	EPA 9066
An automated method is used to distill the sample. The distillate is then buffered to pH 9.4 which reacts with 4AAP and potassium ferricyanide to form a red complex which is measured colorimetrically.			
SO4-IC-WP	Water	Sulfate by Ion Chromatography	EPA 300.1 (modified)
Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.			
SOLIDS-TOTSUS-WP	Water	Total Suspended Solids	APHA 2540 D (modified)
Total suspended solids in aqueous matrices is determined gravimetrically after drying the residue at 103 105°C.			

** 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
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA

Chain of Custody Numbers:

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
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GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
mg/L - unit of concentration based on volume, parts per million.

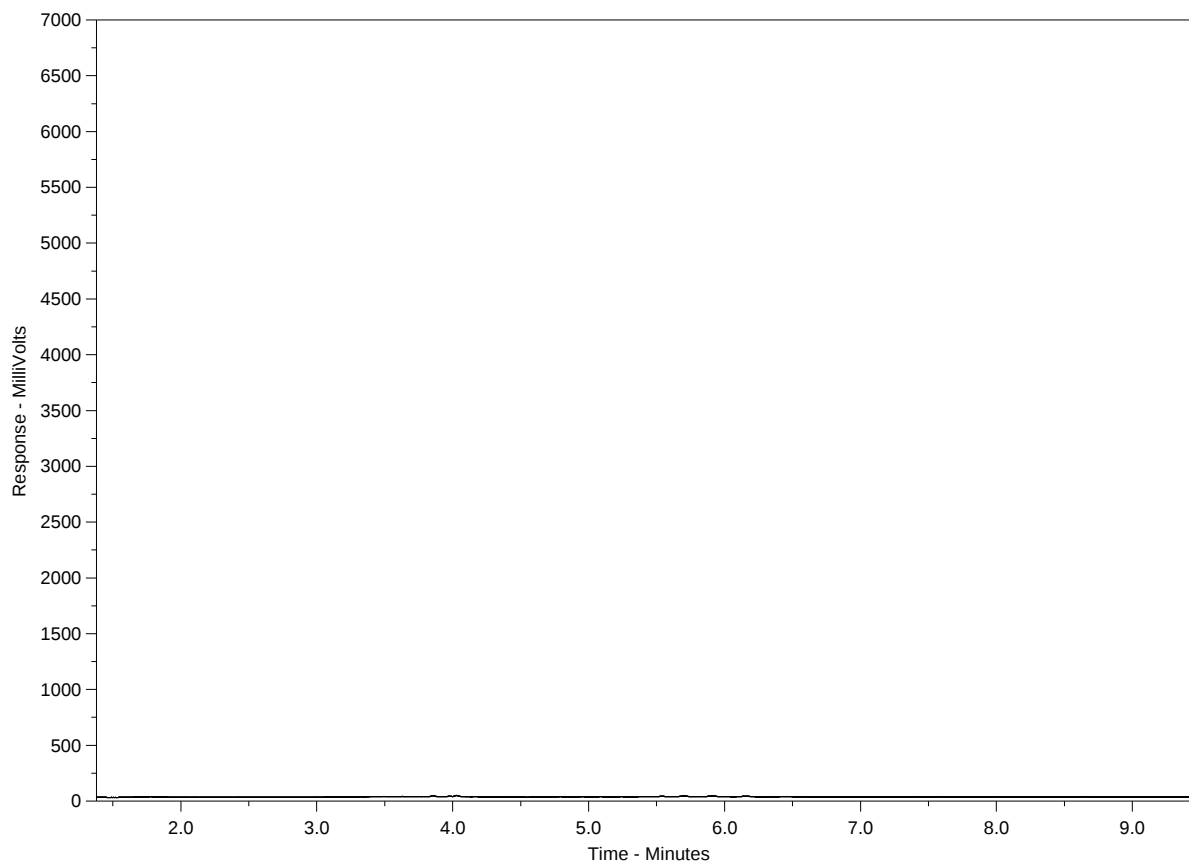
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

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.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L1318619-1
Client Sample ID: WHA-2



← F2 →		F3		← F4 →	
nC10	nC16		nC34		nC50
174°C	287°C		481°C		575°C
346°F	549°F		898°F		1067°F
← Gasoline →		← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

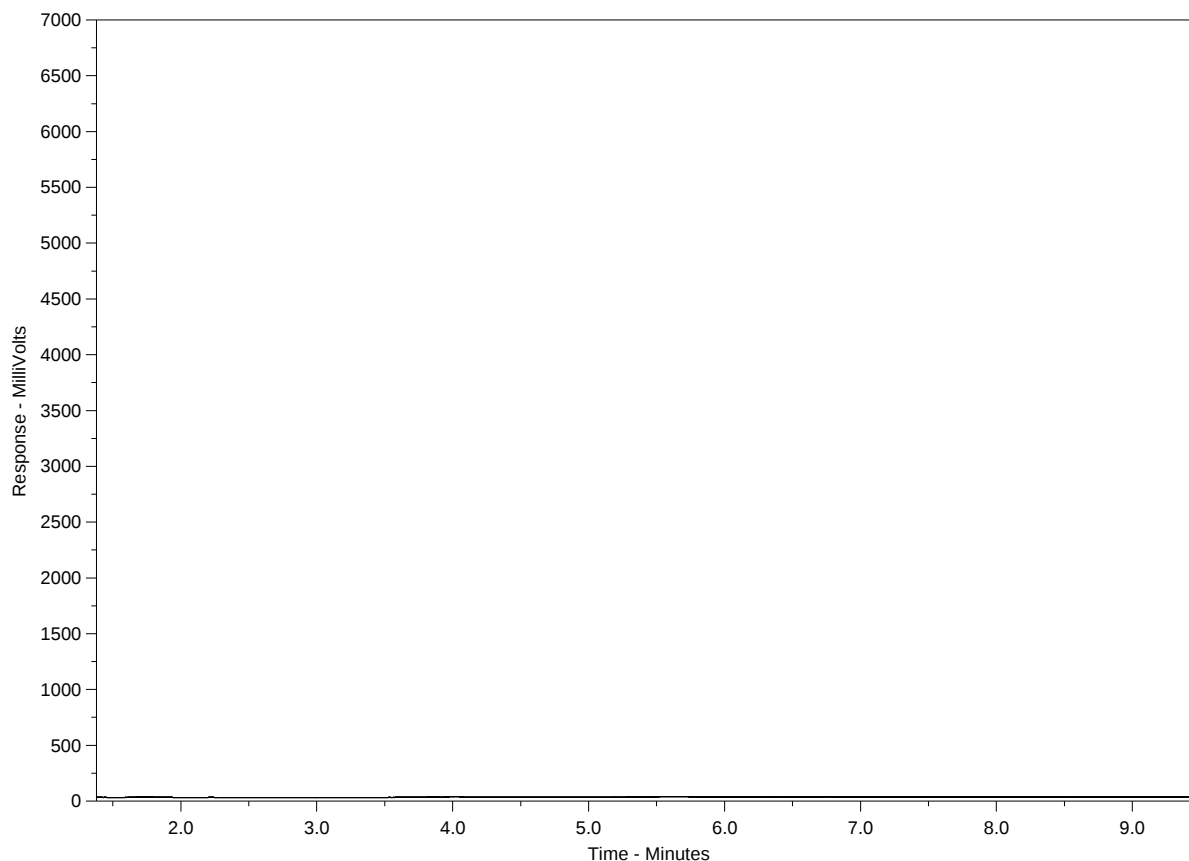
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L1318619-2
Client Sample ID: WHA-3



← F2 →		F3		← F4 →	
nC10	nC16		nC34		nC50
174°C	287°C		481°C		575°C
346°F	549°F		898°F		1067°F
← Gasoline →		← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →					

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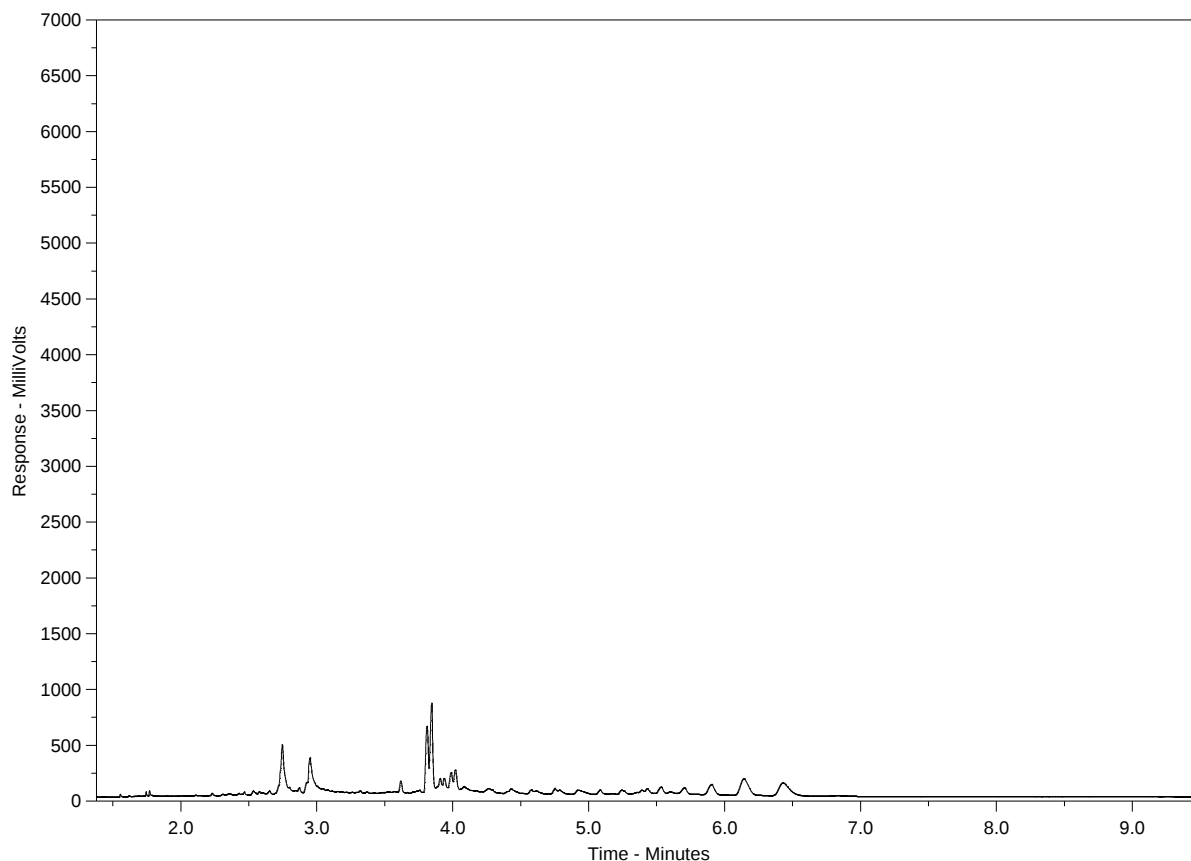
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L1318619-3
Client Sample ID: WHA-4



← F2 →		F3		← F4 →	
nC10	nC16		nC34		nC50
174°C	287°C		481°C		575°C
346°F	549°F		898°F		1067°F
← Gasoline →		← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

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Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

HAMLET OF WHALE COVE
POST OFFICE BOX 120
WHALE COVE, NUNAVUT, X0C 0J0
Telephone: (867) 896-9961 ~ Fax: (867) 896-9109



Water Licence Sampling Field Log

10°C
rec'd by: TT
18/06/2013
12:00pm
L1318619

Name of Sampler(s): Terri-Rose Teenar

Date of Sampling: June 13, 2013

Time of Sampling: _____



L1318619-COFC

Monitoring Station Number: WHA-2

GPS Coordinates: N 62°10' 176" W 92°35'665" (bermed pond at dump)

Weather Conditions: _____

Samples:

- ☒ 1 L Routine
- ☒ 500 mL BOD
- ☒ 250 mL Metals + Pres
- ☒ 250 mL Nutrients + Pres
- ☒ 125 mL Sterile Bacteria Bottle¹
- ☒ 250 mL Amber Phenols + Pres
- ☒ 1 L Amber Oil & Grease + Pres¹
- ☒ 100 mL Amber TOC + Pres

- ☒ 1 L Amber PAH + Pres¹
- ☒ 3 x 40 mL BTEX, F1 vials + Pres¹
- ☒ 2 x 250 mL Amber F2-F4 + Pres¹

Other:

Other Notes: (any unusual conditions, any deviation from standard procedures, etc.)

Footnote 1) Do not rinse this bottle but rinse all others in the sampling pond

HAMLET OF WHALE COVE
POST OFFICE BOX 120
WHALE COVE, NUNAVUT, X0C 0J0
Telephone: (867) 896-9961 ~ Fax: (867) 896-9109



Water Licence Sampling Field Log

Name of Sampler(s): Terri-Rose Teenar

Date of Sampling: June 13, 2013



L1318619-COFC

Time of Sampling: _____

Monitoring Station Number: WHA-3

GPS Coordinates: N 62°10' 112" W 92°35'496" (lagoon on south side)

Weather Conditions: _____

Samples:

- ☒ 1 L Routine
- ☒ 500 mL BOD
- ☒ 250 mL Metals + Pres
- ☒ 250 mL Nutrients + Pres
- ☒ 125 mL Sterile Bacteria Bottle¹
- ☒ 250 mL Amber Phenols + Pres
- ☒ 1 L Amber Oil & Grease + Pres¹
- ☒ 100 mL Amber TOC + Pres

- ☒ 1 L Amber PAH + Pres¹
- ☒ 3 x 40 mL BTEX, F1 vials + Pres¹
- ☒ 2 x 250 mL Amber F2-F4 + Pres¹

Other:

Other Notes: (any unusual conditions, any deviation from standard procedures, etc.)

Footnote 1) Do not rinse this bottle but rinse all others in the sampling pond

HAMLET OF WHALE COVE

POST OFFICE BOX 120

WHALE COVE, NUNAVUT, X0C 0J0

Telephone: (867) 896-9961 ~ Fax: (867) 896-9109



Water Licence Sampling Field Log

Name of Sampler(s): Terri-Rose Teenar

Date of Sampling: June 13, 2013



L1318619-COFC

Time of Sampling: _____

Monitoring Station Number: WHA-4

GPS Coordinates: N 62°10' 552" W 92°35' 712" (below lagoon in water course)

Weather Conditions: _____

Samples:

- | | |
|-------------------------------------|---|
| ☒ | 1 L Routine |
| ☒ | 500 mL BOD |
| ☒ | 250 mL Metals + Pres |
| ☒ | 250 mL Nutrients + Pres |
| ☒ | 125 mL Sterile Bacteria Bottle ¹ |
| ☒ | 250 mL Amber Phenols + Pres |
| ☒ | 1 L Amber Oil & Grease + Pres ¹ |
| ☒ | 100 mL Amber TOC + Pres |

- | | |
|-------------------------------------|--|
| ☒ | 1 L Amber PAH + Pres ¹ |
| ☒ | 3 x 40 mL BTEX, F1 vials + Pres ¹ |
| ☒ | 2 x 250 mL Amber F2-F4 + Pres ¹ |

Other:

☐	_____
☐	_____
☐	_____

Other Notes: (any unusual conditions, any deviation from standard procedures, etc.)

Footnote 1) Do not rinse this bottle but rinse all others in the sampling pond