YEAR BEING REPORTED: 2017

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water License No. **3BM-COR1521** issued to the Hamlet of Coral Harbour.

i)- iii) tabular summaries of all data generated under the "Monitoring Program"; monthly and annual quantities in cubic metres of freshwater obtained from all sources; monthly and annual quantities in cubic metres of each and all wastes discharged;

Attached are results for Monitoring station COR-1, as well as detailed chemical, physical and biological analysis required at COR-3, COR-4 and COR-6.

Month Reported	Quantity of Water Obtained from all sources (m³)	Quantity of Sewage Waste Discharged (Estimated, m³)		
January	3,374,069.70	Same		
February	3,311,784.00	Same		
March	3,242,105.60	Same		
April	3,149,222.10	Same		
Мау	3,137,467.00	Same		
June	3,050,120.00	Same		
July	2,928,401.00	Same		
August	3,056,689.00	Same		
September	3,041,811.00	Same		
October	3,269,239.00	Same		
November	3,087,642.00	Same		
December	3,285,353.00	Same		
ANNUAL TOTAL	37,933,903.40	37,933,903.40		

Note: No meter exists to measure the sewage discharge volume, therefore water consumption volume is considered as equal volume to the sewage discharge volume.

- iv. a summary of modifications and/or major maintenance work carried out on the Water Supply and Waste Disposal Facilities, including all associated structures and facilities;
 - No modifications and/or major work was carried out at the Solid Waste Site or the Sewage Treatment Facilities in 2017.
 - Improved segregation is taking place at the Solid Waste Site. Batteries have been collected and are stored in battery boxes.
 - The new Water Treatment Plant was substantially completed December 2016 and warranty work is still being completed (Regional CGS Project Management Office). Repairs to the chlorine system were completed during the fall 2017.



v. a list of unauthorized discharges and summary of follow-up action taken; - Spills:

Spill No.	Date	Site Description	Commodity	Quantity
2017073	2017-03-06	Coral Harbour Carpenter shop located north of the community	Heating Fuel P-50	205 L

- vi. a summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year;
 - none
- vii. a summary of any studies requested by the Board that relate to waste disposal, water use or reclamation, and a brief description of any future studies planned;

-none

- viii. any other details on water use or waste disposal requested by the Board by November 1st of the year being reported; and
 - none
- ix. Updates or revisions to the approved Operation and Maintenance Plans.
 - The updated O&M Manual for the new Water Treatment Plant will be submitted following project completion.

ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

- The Hamlet is working with the Water Compliance Working Group to implement the Solid Waste Workplan goals.

FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

- The INAC Inspection took place on July 24, 2017. A copy of the inspection report has not been received.

- The following Monitoring Program Station locations were confirmed with the INAC Inspector:



Monitoring Program Station Identification	Description	GPS Coordinates
COR-3	Effluent from Sewage	N64°09.790'
	Containment Cell	W083°11.502'
COR-4	Station within the Wetland	N64°09.785'
		W083°11.326'
COR-5	Discharge from the Wetland	N64°09.718'
	(Compliance Point)	W083°11.243'
COR-6	Run-off from the Solid Waste	N64°09.722'
	Disposal Facility	W083°11.638
COR-7	Run-off below Waste Metals	N64°09.628'
	area.	W083°11.541'

List of Appendixes:

Appendix A: COR-4 Effluent Quality Limits – 1 page

Appendix B: Weekly Inspections at Monitoring Stations – 1 page

Appendix C: Certificate of Analysis June 27, 2017 – 20 pages

Appendix D: Certificate of Analysis July 25, 2017 – 20 pages

Appendix E: Certificate of Analysis August 29, 2017 – 15 pages

Appendix F: Hazardous Materials Spill Database, Coral Harbour 2017 – 1 page

3BM-COR1521 Coral Harbour Monitoring Program Results 2017

Part D, Item 2: COR-5 Effluent Quality Limits

Parameter	Maximum Average Concentration	COR-5			
Parameter	Maximum Average Concentration	27-Jun-17	25-Jul-17		
BOD ₅	30 mg/L	19.7	7		
Total Suspended Solids	30 mg/L	11.0	29.0		
Fecal Coliforms	1x10 ⁴ CFU/100 mL	10	10		
Oil and Grease	No visible sheen	7.5	5.0		
рН	Between 6 and 9	8.65	7.86		

Nunavut Water Board Licence No. 3BM-COR1521

Coral Harbour, NU

Part H: Weekly Inspections at Monitoring Program Stations, June to August

		Checked By	ĺ	×	W.	Ň	Ñ										
			ò	9	Ĵ	ن	0	Z									
	(check)	Frozen	١	1	2	7											
COR-7	Water Present (check)	No	T	7	2	7											
	Water	Yes					1	1									
	:heck)	Frozen	7	7												-	
COR-6	esent (c	No	13	7													
Ĭ	Water Present (check)	Yes			7	7	7	1									
	heck)	Frozen	7	7	7												
COR-5	esent (c	No	Ž	7	5												
	Water Present (check)	Yes			4	\	Z	1									
	heck)	Frozen	· · · · · · · · · · · · · · · · · · ·	7	7												
COR-4	Water Present (check)	No No)	7	7												
	Water P	Yes			1	>	7	1									
	heck)	Frozen	7	>	7												
COR-3	esent (c	No	7	>	7												
	Water Present (check)	Yes					7	1									
		Starting Date	29-May-17	05-Jun-17	12-Jun-17	19-Jun-17	26-Jun-17	03-Jul-17	10-Jul-17	17-Jul-17	24-Jul-17	31-Jul-17	07-Aug-17	12-Aug-17	21-Aug-17	28-Aug-17	29-Aug-16
	**************************************	Week	m	2	3	4	5	9	7	8	6	10	11	12	13	14	15

Monitoring Program Station Locations:

COR-3: Effluent from Sewage Containment Cell COR-4: Station within Wetland

COR-5: Discharge from Wetland
COR-6: Run-off from the Solid Waste Disposal Facility
COR-7: Run-off below Waste metals area

* Fax Sheets Weekly to Contor Faukner at CGS-Rankin Inlet. Fax: (867) 645-6141.



Hamlet of Coral Harbour ATTN: LEONIE PAMEOLIK

PO Box 30

Coral Harbour MB XOC OCO

Date Received: 30-JUN-17

Report Date: 13-JUL-17 07:37 (MT)

Version: FINAL

Client Phone: 867-925-8970

Certificate of Analysis

Lab Work Order #: L1951645
Project P.O. #: NOT SUBMITTED

Job Reference: C of C Numbers: Legal Site Desc:

Mhl

Hua Wo

Chemistry Laboratory Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1951645-1 COR-3							
Sampled By: CLIENT							
Matrix:							
Nunavut WW Group 1 Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	429		1.2	mg/L		01-JUL-17	
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		01-JUL-17	
Alkalinity, Hydroxide Hydroxide (OH)	<0.34		0.34	mg/L		01-JUL-17	
Alkalinity, Total (as CaCO3)	10.01		0.01	9/ =		0.002	
Alkalinity, Total (as CaCO3)	352		1.0	mg/L		30-JUN-17	R3760167
Ammonia by colour	57.6		2.0	ma/l		07-JUL-17	D276704 <i>E</i>
Ammonia, Total (as N) Biochemical Oxygen Demand (BOD)	0.10		2.0	mg/L		07-JUL-17	R3767915
Biochemical Oxygen Demand	105	BODQ	20	mg/L		30-JUN-17	R3766986
Carbonaceous BOD		DODO				00 "": :=	Dozasa
BOD Carbonaceous Chloride in Water by IC	84	BODQ	20	mg/L		30-JUN-17	R3766986
Chloride (Cl)	44.6		0.50	mg/L		02-JUL-17	R3765465
Conductivity							
Conductivity	813		1.0	umhos/cm		30-JUN-17	R3760167
Fecal coliforms, 1:10 dilution by QT97 Fecal Coliforms	20		10	MPN/100mL		30-JUN-17	R3760070
Hardness Calculated							
Hardness (as CaCO3)	107	HTC	0.25	mg/L		06-JUL-17	
Mercury Total Mercury (Hg)-Total	0.0000158		0.0000050	mg/L	30-JUN-17	05-JUL-17	R3766324
Nitrate in Water by IC	0.0000100		0.000000	9/ =	00 00.11	33 332 11	110700021
Nitrate (as N)	<0.020		0.020	mg/L		02-JUL-17	R3765465
Nitrate+Nitrite Nitrate and Nitrite as N	<0.070		0.070	mg/L		06-JUL-17	
Nitrite in Water by IC	<0.070		0.070	1119/ =		00-301-17	
Nitrite (as N)	<0.010		0.010	mg/L		02-JUL-17	R3765465
Oil & Grease - Gravimetric Oil and Grease	0.0		5.0			10-JUL-17	D0700700
Phenol (4AAP)	6.3		5.0	mg/L		10-JUL-17	R3768790
Phenols (4AAP)	0.031	DLM	0.010	mg/L		12-JUL-17	R3770534
Phosphorus, Total			0.55			05 11 11 4-	D0705-55
Phosphorus (P)-Total Sulfate in Water by IC	8.55		0.25	mg/L		05-JUL-17	R3765590
Sulfate (SO4)	10.0		0.30	mg/L		02-JUL-17	R3765465
Total Metals by ICP-MS							
Aluminum (AI)-Total Arsenic (As)-Total	0.0871 0.00086		0.0050 0.00020	mg/L mg/L	05-JUL-17 05-JUL-17	05-JUL-17 05-JUL-17	R3766035 R3766035
Cadmium (Cd)-Total	0.00086		0.00020	mg/L	05-JUL-17	05-JUL-17 05-JUL-17	R3766035
Calcium (Ca)-Total	35.1		0.10	mg/L	05-JUL-17	05-JUL-17	R3766035
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	05-JUL-17	05-JUL-17	R3766035
Cobalt (Co)-Total	0.00070		0.00020	mg/L	05-JUL-17	05-JUL-17	R3766035
Copper (Cu)-Total Iron (Fe)-Total	0.0275 0.431		0.00020 0.010	mg/L mg/L	05-JUL-17 05-JUL-17	05-JUL-17 05-JUL-17	R3766035 R3766035
Lead (Pb)-Total	0.000423		0.00090	mg/L	05-JUL-17 05-JUL-17	05-JUL-17 05-JUL-17	R3766035
Magnesium (Mg)-Total	4.79		0.010	mg/L	05-JUL-17	05-JUL-17	R3766035
Manganese (Mn)-Total	0.0482		0.00030	mg/L	05-JUL-17	05-JUL-17	R3766035
Nickel (Ni)-Total	0.0029		0.0020	mg/L	05-JUL-17	05-JUL-17	R3766035

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

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1951645-1 COR-3							
Sampled By: CLIENT							
Matrix:							
Total Metals by ICP-MS							
Potassium (K)-Total Sodium (Na)-Total	22.9 46.1		0.020 0.030	mg/L mg/L	05-JUL-17 05-JUL-17	05-JUL-17 05-JUL-17	R3766035 R3766035
Zinc (Zn)-Total	0.0193		0.0020	mg/L	05-JUL-17	05-JUL-17	R3766035
Total Organic Carbon by Combustion Total Organic Carbon	70.0		0.5			00 1111 47	D0700450
Total Suspended Solids	70.6		2.5	mg/L		09-JUL-17	R3768459
Total Suspended Solids	120		20	mg/L		07-JUL-17	R3768512
pH pH	7.34		0.10	pH units		30-JUN-17	R3760167
L1951645-2 COR-4							
Sampled By: CLIENT							
Matrix:							
Nunavut WW Group 1							
Alkalinity, Bicarbonate Bicarbonate (HCO3)	298		1.2	mg/L		01-JUL-17	
Alkalinity, Carbonate Carbonate (CO3)	6.48		0.60	mg/L		01-JUL-17	
Alkalinity, Hydroxide Hydroxide (OH)	<0.34		0.34	mg/L		01-JUL-17	
Alkalinity, Total (as CaCO3) Alkalinity, Total (as CaCO3)	255		1.0	mg/L		30-JUN-17	R3760167
Ammonia by colour Ammonia, Total (as N)	9.4		2.0	mg/L		07-JUL-17	R3767915
Biochemical Oxygen Demand (BOD) Biochemical Oxygen Demand	16.7	BODQ	6.0	mg/L		30-JUN-17	R3766986
Carbonaceous BOD BOD Carbonaceous	10.6	BODQ	2.0	mg/L		30-JUN-17	R3766986
Chloride in Water by IC Chloride (CI)	33.8		0.50	mg/L		02-JUL-17	R3765465
Conductivity Conductivity	542		1.0	umhos/cm		30-JUN-17	R3760167
Fecal coliforms, 1:10 dilution by QT97							
Fecal Coliforms Hardness Calculated	10		10	MPN/100mL		30-JUN-17	R3760070
Hardness (as CaCO3)	185	нтс	0.25	mg/L		06-JUL-17	
Mercury Total Mercury (Hg)-Total	0.0000052		0.0000050	mg/L	30-JUN-17	05-JUL-17	R3766324
Nitrate in Water by IC Nitrate (as N)	0.704		0.020	mg/L		02-JUL-17	R3765465
Nitrate+Nitrite Nitrate and Nitrite as N	0.811		0.070	mg/L		06-JUL-17	
Nitrite in Water by IC Nitrite (as N)	0.107		0.040	mg/L		02-JUL-17	R3765465
Oil & Grease - Gravimetric Oil and Grease	<5.0		5.0	mg/L		10-JUL-17	R3768790
Phenol (4AAP) Phenols (4AAP)	0.0012		0.0010	mg/L		12-JUL-17	R3770534
Phosphorus, Total Phosphorus (P)-Total	1.51		0.050	mg/L		05-JUL-17	R3765590
Sulfate in Water by IC	1.51		0.050	ilig/L		00-00L-17	120,00090
Sulfate (SO4)	7.15		0.30	mg/L		02-JUL-17	R3765465

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

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1951645-2 COR-4							
Sampled By: CLIENT							
Matrix:							
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0172		0.0050	mg/L	05-JUL-17	05-JUL-17	R3766035
Arsenic (As)-Total	0.00171		0.00020	mg/L	05-JUL-17	05-JUL-17	R3766035
Cadmium (Cd)-Total	0.000050		0.000010	mg/L	05-JUL-17	05-JUL-17	R3766035
Calcium (Ca)-Total	65.4		0.10	mg/L	05-JUL-17	05-JUL-17	R3766035
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	05-JUL-17	05-JUL-17	R3766035
Cobalt (Co)-Total	0.00165		0.00020	mg/L	05-JUL-17	05-JUL-17	R3766035
Copper (Cu)-Total	0.00496		0.00020	mg/L	05-JUL-17	05-JUL-17	R3766035
Iron (Fe)-Total	0.556		0.010	mg/L	05-JUL-17	05-JUL-17	R3766035
Lead (Pb)-Total	0.000122		0.000090	mg/L	05-JUL-17	05-JUL-17	R3766035
Magnesium (Mg)-Total Manganese (Mn)-Total	5.34 0.0900		0.010	mg/L	05-JUL-17 05-JUL-17	05-JUL-17 05-JUL-17	R3766035
Nickel (Ni)-Total	0.0900		0.00030 0.0020	mg/L mg/L	05-JUL-17 05-JUL-17	05-JUL-17 05-JUL-17	R3766035 R3766035
Potassium (K)-Total	15.1		0.0020	mg/L	05-JUL-17	05-30L-17 05-JUL-17	R3766035
Sodium (Na)-Total	38.1		0.020	mg/L	05-JUL-17	05-JUL-17	R3766035
Zinc (Zn)-Total	0.0038		0.0020	mg/L	05-JUL-17	05-JUL-17	R3766035
Total Organic Carbon by Combustion Total Organic Carbon	16.4		0.50	mg/L		07-JUL-17	R3768090
Total Suspended Solids	10.4		0.50	IIIg/L		07-30L-17	K3700090
Total Suspended Solids	10		10	mg/L		07-JUL-17	R3768512
pH pH	8.40		0.10	pH units		30-JUN-17	R3760167
L1951645-3 COR-5							
Sampled By: CLIENT							
Matrix:							
Nunavut WW Group 1							
Alkalinity, Bicarbonate Bicarbonate (HCO3)	235		1.2	mg/L		01-JUL-17	
Alkalinity, Carbonate Carbonate (CO3)	12.8		0.60	mg/L		01-JUL-17	
Alkalinity, Hydroxide Hydroxide (OH)	<0.34		0.34	mg/L		01-JUL-17	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	214		1.0	mg/L		30-JUN-17	R3760167
Ammonia by colour Ammonia, Total (as N)	2.29		0.10	mg/L		07-JUL-17	R3767915
Biochemical Oxygen Demand (BOD) Biochemical Oxygen Demand	19.7	BODQ	6.0	mg/L		30-JUN-17	R3766986
Carbonaceous BOD BOD Carbonaceous	11.3	BODQ	2.0	mg/L		30-JUN-17	R3766986
Chloride in Water by IC Chloride (CI)	35.6		0.50	mg/L		02-JUL-17	R3765465
Conductivity Conductivity	492		1.0	umhos/cm		30-JUN-17	R3760167
Fecal coliforms, 1:10 dilution by QT97 Fecal Coliforms	<10			MPN/100mL		30-JUN-17	R3760070
Hardness Calculated Hardness (as CaCO3)	189	нтс	0.25	mg/L		06-JUL-17	1.07.00070
Mercury Total Mercury (Hg)-Total	0.0000059		0.23	mg/L	30-JUN-17	05-JUL-17	R3766324
Nitrate in Water by IC	0.0000039		0.0000000	111g/ L	30 00IN-17	00 00L-17	110700024
Nitrate (as N)	2.70		0.020	mg/L		02-JUL-17	R3765465

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

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1951645-3 COR-5							
Matrix:							
Nitrate+Nitrite Nitrate and Nitrite as N	2.82		0.070	ma/l		06-JUL-17	
Nitrite in Water by IC	2.02		0.070	mg/L		00-301-17	
Nitrite (as N)	0.119		0.040	mg/L		02-JUL-17	R3765465
Oil & Grease - Gravimetric	311.10		0.0.0				110700100
Oil and Grease	7.5		5.0	mg/L		10-JUL-17	R3768790
Phenol (4AAP)							
Phenols (4AAP)	<0.0010		0.0010	mg/L		12-JUL-17	R3770534
Phosphorus, Total				,,			
Phosphorus (P)-Total	1.15		0.050	mg/L		05-JUL-17	R3765590
Sulfate in Water by IC Sulfate (SO4)	10.7		0.30	mg/L		02-JUL-17	R3765465
Total Metals by ICP-MS	10.7		0.30	iiig/L		02-00L-17	13703403
Aluminum (Al)-Total	0.0136		0.0050	mg/L	05-JUL-17	05-JUL-17	R3766035
Arsenic (As)-Total	0.00140		0.00020	mg/L	05-JUL-17	05-JUL-17	R3766035
Cadmium (Cd)-Total	0.000089		0.000010	mg/L	05-JUL-17	05-JUL-17	R3766035
Calcium (Ca)-Total	66.7		0.10	mg/L	05-JUL-17	05-JUL-17	R3766035
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	05-JUL-17	05-JUL-17	R3766035
Cobalt (Co)-Total	0.00148		0.00020	mg/L	05-JUL-17	05-JUL-17	R3766035
Copper (Cu)-Total	0.00410		0.00020	mg/L	05-JUL-17	05-JUL-17	R3766035
Iron (Fe)-Total	0.039		0.010	mg/L	05-JUL-17	05-JUL-17	R3766035
Lead (Pb)-Total Magnesium (Mg)-Total	<0.000090 5.34		0.000090 0.010	mg/L	05-JUL-17 05-JUL-17	05-JUL-17 05-JUL-17	R3766035 R3766035
Manganese (Mn)-Total	0.0184		0.00030	mg/L mg/L	05-JUL-17 05-JUL-17	05-JUL-17 05-JUL-17	R3766035
Nickel (Ni)-Total	0.0049		0.00030	mg/L	05-JUL-17	05-JUL-17	R3766035
Potassium (K)-Total	10.2		0.020	mg/L	05-JUL-17	05-JUL-17	R3766035
Sodium (Na)-Total	44.5		0.030	mg/L	05-JUL-17	05-JUL-17	R3766035
Zinc (Zn)-Total	0.0048		0.0020	mg/L	05-JUL-17	05-JUL-17	R3766035
Total Organic Carbon by Combustion							
Total Organic Carbon	16.6		0.50	mg/L		07-JUL-17	R3768090
Total Suspended Solids				,,			
Total Suspended Solids	11.0		5.0	mg/L		07-JUL-17	R3768512
pH pH	8.65		0.10	pH units		30-JUN-17	R3760167
L1951645-4 COR-6	0.00		0.10	pri driito		00 0011 17	1137 00 107
Sampled By: CLIENT							
, ,							
Matrix: BTEX plus F1-F4							
BTX plus F1 by GCMS							
Benzene	<0.00050		0.00050	mg/L		06-JUL-17	R3767225
Toluene	<0.0010		0.0010	mg/L		06-JUL-17	R3767225
Ethyl benzene	<0.00050		0.00050	mg/L		06-JUL-17	R3767225
o-Xylene	<0.00050		0.00050	mg/L		06-JUL-17	R3767225
m+p-Xylenes	<0.00050	DLB	0.00050	mg/L		06-JUL-17	R3767225
F1 (C6-C10)	<0.10		0.10	mg/L		06-JUL-17	R3767225
Surrogate: 4-Bromofluorobenzene (SS)	115.5		70-130	%		06-JUL-17	R3767225
CCME PHC F2-F4 in Water F2 (C10-C16)	<0.10		0.10	ma/l	05-JUL-17	06-JUL-17	D2767000
F3 (C16-C34)	0.44		0.10 0.25	mg/L mg/L	05-JUL-17 05-JUL-17	06-JUL-17 06-JUL-17	R3767089 R3767089
F4 (C34-C50)	<0.25		0.25	mg/L	05-JUL-17	06-JUL-17	R3767089
Surrogate: 2-Bromobenzotrifluoride	88.7		60-140	%	05-JUL-17	06-JUL-17	R3767089
CCME Total Hydrocarbons							

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

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
LADEACAE A COD C							
L1951645-4 COR-6 Sampled By: CLIENT							
' '							
Matrix:							
CCME Total Hydrocarbons F1-BTEX	<0.10		0.10	mg/L		10-JUL-17	
F2-Naphth	<0.10		0.10	mg/L		10-30L-17 10-JUL-17	
F3-PAH	0.44		0.10	mg/L		10-JUL-17	
Total Hydrocarbons (C6-C50)	0.44		0.38	mg/L		10-JUL-17	
Sum of Xylene Isomer Concentrations			0.00				
Xylenes (Total)	<0.00071		0.00071	mg/L		07-JUL-17	
Polyaromatic Hydrocarbons (PAHs)				"	05 1111 47	00 1111 47	
1-Methyl Naphthalene	<0.000020		0.000020	mg/L	05-JUL-17	06-JUL-17	R3768615
2-Methyl Naphthalene	<0.000020		0.000020	mg/L	05-JUL-17 05-JUL-17	06-JUL-17	R3768615
Acenaphthene Acenaphthylene	<0.000020 <0.000020		0.000020 0.000020	mg/L mg/L	05-JUL-17 05-JUL-17	06-JUL-17 06-JUL-17	R3768615 R3768615
Anthracene	<0.000020		0.000020	mg/L	05-JUL-17 05-JUL-17	06-JUL-17	R3768615
Acridine	<0.000010		0.000010	mg/L	05-JUL-17	06-JUL-17	R3768615
Benzo(a)anthracene	<0.000020		0.000020	mg/L	05-JUL-17	06-JUL-17	R3768615
Benzo(a)pyrene	<0.000050		0.0000050	mg/L	05-JUL-17	06-JUL-17	R3768615
Benzo(b&j)fluoranthene	<0.00010		0.000010	mg/L	05-JUL-17	06-JUL-17	R3768615
Benzo(g,h,i)perylene	<0.000020		0.000020	mg/L	05-JUL-17	06-JUL-17	R3768615
Benzo(k)fluoranthene	<0.000010		0.000010	mg/L	05-JUL-17	06-JUL-17	R3768615
Chrysene	<0.000020		0.000020	mg/L	05-JUL-17	06-JUL-17	R3768615
Dibenzo(a,h)anthracene	<0.000050		0.0000050	mg/L	05-JUL-17	06-JUL-17	R3768615
Fluoranthene	<0.000020		0.000020	mg/L	05-JUL-17	06-JUL-17	R3768615
Fluorene	<0.000020		0.000020	mg/L	05-JUL-17	06-JUL-17	R3768615
Indeno(1,2,3-cd)pyrene	<0.000010		0.000010	mg/L	05-JUL-17	06-JUL-17	R3768615
Naphthalene	<0.000050		0.000050	mg/L	05-JUL-17	06-JUL-17	R3768615
Phenanthrene	<0.000050		0.000050	mg/L	05-JUL-17	06-JUL-17	R3768615
Pyrene Quinoline	<0.000010	DLM	0.000010 0.00020	mg/L	05-JUL-17 05-JUL-17	06-JUL-17 06-JUL-17	R3768615
B(a)P Total Potency Equivalent	<0.0002 <0.000030	DLIVI	0.00020	mg/L mg/L	05-JUL-17	06-JUL-17	R3768615 R3768615
Surrogate: Acenaphthene d10	96.4		40-130	™g/∟ %	05-30L-17 05-JUL-17	06-JUL-17	R3768615
Surrogate: Acridine d9	101.7		40-130	%	05-JUL-17	06-JUL-17	R3768615
Surrogate: Chrysene d12	93.9		40-130	%	05-JUL-17	06-JUL-17	R3768615
Surrogate: Naphthalene d8	88.3		40-130	%	05-JUL-17	06-JUL-17	R3768615
Surrogate: Phenanthrene d10	87.1		40-130	%	05-JUL-17	06-JUL-17	R3768615
Nunavut WW Group 1							
Alkalinity, Bicarbonate Bicarbonate (HCO3)	400		4.0	/I		01-JUL-17	
Alkalinity, Carbonate	189		1.2	mg/L		01-30L-17	
Carbonate (CO3)	<0.60		0.60	mg/L		01-JUL-17	
Alkalinity, Hydroxide				-			
Hydroxide (OH)	<0.34		0.34	mg/L		01-JUL-17	
Alkalinity, Total (as CaCO3) Alkalinity, Total (as CaCO3)	155		1.0	mg/L		30-JUN-17	R3760167
Ammonia by colour	0.646		0.040	ma c: B		07 11 11 47	D0707045
Ammonia, Total (as N)	0.246		0.010	mg/L		07-JUL-17	R3767915
Biochemical Oxygen Demand (BOD) Biochemical Oxygen Demand	11.8	BODQ	2.0	mg/L		30-JUN-17	R3766986
Carbonaceous BOD BOD Carbonaceous	8.0	BODQ	2.0	ma/l		20 1111 47	Dazeeooo
Chloride in Water by IC	8.0	BODQ	2.0	mg/L		30-JUN-17	R3766986
Chloride (Cl)	34.0		0.50	mg/L		02-JUL-17	R3765465
Conductivity							

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

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1951645-4 COR-6							
Sampled By: CLIENT							
Matrix:							
Conductivity Conductivity	385		1.0	umhos/cm		30-JUN-17	R3760167
Fecal coliforms, 1:10 dilution by QT97 Fecal Coliforms	<10		10	MPN/100mL		30-JUN-17	R3760070
Hardness Calculated Hardness (as CaCO3)	172	HTC	0.25	mg/L		06-JUL-17	
Mercury Total					20 11111 47		D2700004
Mercury (Hg)-Total Nitrate in Water by IC	0.0000075		0.0000050	mg/L	30-JUN-17	05-JUL-17	R3766324
Nitrate (as N) Nitrate+Nitrite	<0.020		0.020	mg/L		02-JUL-17	R3765465
Nitrate and Nitrite as N	<0.070		0.070	mg/L		06-JUL-17	
Nitrite in Water by IC Nitrite (as N)	<0.010		0.010	mg/L		02-JUL-17	R3765465
Oil & Grease - Gravimetric Oil and Grease	<5.0		5.0	mg/L		10-JUL-17	R3768790
Phenol (4AAP) Phenols (4AAP)	<0.0010		0.0010	mg/L		12-JUL-17	R3770534
Phosphorus, Total Phosphorus (P)-Total	0.453		0.010	mg/L		05-JUL-17	R3765590
Sulfate in Water by IC							
Sulfate (SO4) Total Metals by ICP-MS	36.1		0.30	mg/L		02-JUL-17	R3765465
Aluminum (Al)-Total	0.168		0.0050	mg/L	05-JUL-17	05-JUL-17	R3766035
Arsenic (As)-Total	0.00100		0.00020	mg/L	05-JUL-17	05-JUL-17	R3766035
Cadmium (Cd)-Total	0.000011		0.000010	mg/L	05-JUL-17	05-JUL-17	R3766035
Calcium (Ca)-Total	53.6		0.10	mg/L	05-JUL-17	05-JUL-17	R3766035
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	05-JUL-17	05-JUL-17	R3766035
Cobalt (Co)-Total	0.00023		0.00020	mg/L	05-JUL-17	05-JUL-17	R3766035
Copper (Cu)-Total	0.00281		0.00020	mg/L	05-JUL-17	05-JUL-17	R3766035
Iron (Fe)-Total	0.533		0.010	mg/L	05-JUL-17	05-JUL-17	R3766035
Lead (Pb)-Total	0.000443		0.000090	mg/L	05-JUL-17	05-JUL-17	R3766035
Magnesium (Mg)-Total	9.19		0.010	mg/L	05-JUL-17	05-JUL-17	R3766035
Manganese (Mn)-Total	0.0939		0.00030	mg/L	05-JUL-17	05-JUL-17	R3766035
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	05-JUL-17	05-JUL-17	R3766035
Potassium (K)-Total	10.3		0.020	mg/L	05-JUL-17	05-JUL-17	R3766035
Sodium (Na)-Total Zinc (Zn)-Total	31.8		0.030	mg/L	05-JUL-17	05-JUL-17	R3766035
	0.0060		0.0020	mg/L	05-JUL-17	05-JUL-17	R3766035
Total Organic Carbon by Combustion Total Organic Carbon	22.0		0.50	mg/L		07-JUL-17	R3768090
Total Suspended Solids Total Suspended Solids	47.0		5.0	mg/L		07-JUL-17	R3768512
pH pH	7.71		0.10	pH units		30-JUN-17	R3760167
L1951645-5 COR-7							
Sampled By: CLIENT							
Matrix:							
BTEX plus F1-F4							
BTX plus F1 by GCMS							
Benzene	<0.00050		0.00050	mg/L		06-JUL-17	R3767225
Toluene	<0.0010		0.0010	mg/L		06-JUL-17	R3767225
Ethyl benzene	<0.00050		0.00050	mg/L		06-JUL-17	R3767225
o-Xylene	<0.00050		0.00050	mg/L		06-JUL-17	R3767225

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

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1951645-5 COR-7							
Sampled By: CLIENT							
Matrix:							
BTX plus F1 by GCMS m+p-Xylenes	<0.00050	DLB	0.00050	mg/L		06-JUL-17	R3767225
F1 (C6-C10)	<0.10	525	0.00030	mg/L		06-JUL-17	R3767225
Surrogate: 4-Bromofluorobenzene (SS)	85.2		70-130	%		06-JUL-17	R3767225
CCME PHC F2-F4 in Water							
F2 (C10-C16)	<0.10		0.10	mg/L	05-JUL-17	06-JUL-17	R3767089
F3 (C16-C34)	<0.25		0.25	mg/L	05-JUL-17	06-JUL-17	R3767089
F4 (C34-C50)	<0.25		0.25	mg/L	05-JUL-17	06-JUL-17	R3767089
Surrogate: 2-Bromobenzotrifluoride	81.3		60-140	%	05-JUL-17	06-JUL-17	R3767089
CCME Total Hydrocarbons							
F1-BTEX	<0.10		0.10	mg/L		10-JUL-17	
F2-Naphth	<0.10		0.10	mg/L		10-JUL-17	
F3-PAH	<0.25		0.25	mg/L		10-JUL-17	
Total Hydrocarbons (C6-C50)	<0.38		0.38	mg/L		10-JUL-17	
Sum of Xylene Isomer Concentrations Xylenes (Total)	<0.00071		0.00071	mg/L		07-JUL-17	
Ayieries (Total)	<0.00071		0.00071	illy/L		01-JUL-11	
Polyaromatic Hydrocarbons (PAHs)							
1-Methyl Naphthalene	<0.000020		0.000020	mg/L	05-JUL-17	06-JUL-17	R3768615
2-Methyl Naphthalene	<0.000020		0.000020	mg/L	05-JUL-17	06-JUL-17	R3768615
Acenaphthene	<0.000020		0.000020	mg/L	05-JUL-17	06-JUL-17	R3768615
Acenaphthylene	<0.000020		0.000020	mg/L	05-JUL-17	06-JUL-17	R3768615
Anthracene	<0.000010		0.000010	mg/L	05-JUL-17	06-JUL-17	R3768615
Acridine	<0.000020		0.000020	mg/L	05-JUL-17	06-JUL-17	R3768615
Benzo(a)anthracene	<0.000010		0.000010	mg/L	05-JUL-17	06-JUL-17	R3768615
Benzo(a)pyrene	<0.000050		0.0000050	mg/L	05-JUL-17	06-JUL-17	R3768615
Benzo(b&j)fluoranthene	<0.000010		0.000010	mg/L	05-JUL-17	06-JUL-17	R3768615
Benzo(g,h,i)perylene	<0.000020		0.000020	mg/L	05-JUL-17	06-JUL-17	R3768615
Benzo(k)fluoranthene	<0.000010		0.000010	mg/L	05-JUL-17	06-JUL-17	R3768615
Chrysene Dibenzo(a,h)anthracene	<0.000020		0.000020	mg/L	05-JUL-17 05-JUL-17	06-JUL-17 06-JUL-17	R3768615
Fluoranthene	<0.0000050 <0.000020		0.0000050 0.000020	mg/L mg/L	05-JUL-17 05-JUL-17	06-JUL-17	R3768615 R3768615
Fluorene	<0.000020		0.000020	mg/L	05-30L-17 05-JUL-17	06-JUL-17	R3768615
Indeno(1,2,3-cd)pyrene	<0.000020		0.000020	mg/L	05-JUL-17	06-JUL-17	R3768615
Naphthalene	<0.00050		0.000050	mg/L	05-JUL-17	06-JUL-17	R3768615
Phenanthrene	<0.000050		0.000050	mg/L	05-JUL-17	06-JUL-17	R3768615
Pyrene	<0.000010		0.000010	mg/L	05-JUL-17	06-JUL-17	R3768615
Quinoline	<0.0002	DLM	0.00020	mg/L	05-JUL-17	06-JUL-17	R3768615
B(a)P Total Potency Equivalent	<0.000030		0.000030	mg/L	05-JUL-17	06-JUL-17	R3768615
Surrogate: Acenaphthene d10	96.9		40-130	%	05-JUL-17	06-JUL-17	R3768615
Surrogate: Acridine d9	108.3		40-130	%	05-JUL-17	06-JUL-17	R3768615
Surrogate: Chrysene d12	90.6		40-130	%	05-JUL-17	06-JUL-17	R3768615
Surrogate: Naphthalene d8	88.5		40-130	%	05-JUL-17	06-JUL-17	R3768615
Surrogate: Phenanthrene d10	92.4		40-130	%	05-JUL-17	06-JUL-17	R3768615
Nunavut WW Group 1							
Alkalinity, Bicarbonate Bicarbonate (HCO3)	194		1.2	mg/L		01-JUL-17	
Alkalinity, Carbonate Carbonate (CO3)	<0.60		0.60	mg/L		01-JUL-17	
Alkalinity, Hydroxide Hydroxide (OH)	<0.34		0.34	mg/L		01-JUL-17	
Alkalinity, Total (as CaCO3)	\0.04		0.04	9/ ⊏		0.00217	
Alkalinity, Total (as CaCO3)	159		1.0	mg/L		30-JUN-17	R3760167

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

L1951645-5 COR-7 Sampled By: CLIENT Matrix: Ammonia by colour Ammonia, Total (as N) Biochemical Oxygen Demand (BOD) Biochemical Oxygen Demand Carbonaceous BOD BOD Carbonaceous Chloride in Water by IC Chloride (Cl) Conductivity Conductivity Conductivity Fecal coliforms, 1:10 dilution by QT97 Fecal Coliforms Hardness Calculated Hardness (as CaCO3) Mercury Total Mercury (Hg)-Total Nitrate in Water by IC	.5 .4 .45 .19 .10 .04 .00050	BODQ BODQ HTC	0.010 2.0 2.0 0.50 1.0 10 0.25 0.0000050 0.020	mg/L mg/L mg/L umhos/cm MPN/100mL mg/L mg/L	30-JUN-17	07-JUL-17 30-JUN-17 30-JUN-17 02-JUL-17 30-JUN-17 06-JUL-17	R3767915 R3766986 R3766986 R3765465 R3760167 R3760070
Sampled By: CLIENT Matrix: Ammonia by colour Ammonia, Total (as N) Biochemical Oxygen Demand (BOD) Biochemical Oxygen Demand Carbonaceous BOD BOD Carbonaceous Chloride in Water by IC Chloride (Cl) Conductivity Conductivity Fecal coliforms, 1:10 dilution by QT97 Fecal Coliforms Hardness Calculated Hardness (as CaCO3) Mercury Total Mercury (Hg)-Total	.5 .4 .45 .19 .10 .04 .00050	BODQ	2.0 2.0 0.50 1.0 10 0.25 0.0000050	mg/L mg/L mg/L umhos/cm MPN/100mL mg/L	30-JUN-17	30-JUN-17 30-JUN-17 02-JUL-17 30-JUN-17 30-JUN-17	R3766986 R3766986 R3765465 R3760167 R3760070
Matrix: Ammonia by colour Ammonia, Total (as N) Biochemical Oxygen Demand (BOD) Biochemical Oxygen Demand Carbonaceous BOD BOD Carbonaceous Chloride in Water by IC Chloride (Cl) Conductivity Conductivity Conductivity Fecal coliforms, 1:10 dilution by QT97 Fecal Coliforms Hardness Calculated Hardness (as CaCO3) Mercury Total Mercury (Hg)-Total O.1	.5 .4 .45 .19 .10 .04 .00050	BODQ	2.0 2.0 0.50 1.0 10 0.25 0.0000050	mg/L mg/L mg/L umhos/cm MPN/100mL mg/L	30-JUN-17	30-JUN-17 30-JUN-17 02-JUL-17 30-JUN-17 30-JUN-17	R3766986 R3766986 R3765465 R3760167 R3760070
Ammonia by colour Ammonia, Total (as N) Biochemical Oxygen Demand (BOD) Biochemical Oxygen Demand Carbonaceous BOD BOD Carbonaceous Chloride in Water by IC Chloride (CI) Conductivity Conductivity Fecal coliforms, 1:10 dilution by QT97 Fecal Coliforms Hardness Calculated Hardness (as CaCO3) Mercury Total Mercury (Hg)-Total 0.00	.5 .4 .45 .19 .10 .04 .00050	BODQ	2.0 2.0 0.50 1.0 10 0.25 0.0000050	mg/L mg/L mg/L umhos/cm MPN/100mL mg/L	30-JUN-17	30-JUN-17 30-JUN-17 02-JUL-17 30-JUN-17 30-JUN-17	R3766986 R3766986 R3765465 R3760167 R3760070
Ammonia, Total (as N) Biochemical Oxygen Demand (BOD) Biochemical Oxygen Demand Carbonaceous BOD BOD Carbonaceous Chloride in Water by IC Chloride (CI) Conductivity Conductivity Fecal coliforms, 1:10 dilution by QT97 Fecal Coliforms Hardness Calculated Hardness (as CaCO3) Mercury Total Mercury (Hg)-Total	.5 .4 .45 .19 .10 .04 .00050	BODQ	2.0 2.0 0.50 1.0 10 0.25 0.0000050	mg/L mg/L mg/L umhos/cm MPN/100mL mg/L	30-JUN-17	30-JUN-17 30-JUN-17 02-JUL-17 30-JUN-17 30-JUN-17	R3766986 R3766986 R3765465 R3760167 R3760070
Biochemical Oxygen Demand Carbonaceous BOD BOD Carbonaceous Chloride in Water by IC Chloride (CI) Conductivity Conductivity Fecal coliforms, 1:10 dilution by QT97 Fecal Coliforms Hardness Calculated Hardness (as CaCO3) Mercury Total Mercury (Hg)-Total	.4 45 19 10 04 00050	BODQ	2.0 0.50 1.0 10 0.25 0.0000050	mg/L mg/L umhos/cm MPN/100mL mg/L	30-JUN-17	30-JUN-17 02-JUL-17 30-JUN-17 30-JUN-17 06-JUL-17	R3766986 R3765465 R3760167 R3760070
BOD Carbonaceous Chloride in Water by IC Chloride (CI) Conductivity Conductivity Fecal coliforms, 1:10 dilution by QT97 Fecal Coliforms Hardness Calculated Hardness (as CaCO3) Mercury Total Mercury (Hg)-Total	45 19 10 04 00050		0.50 1.0 10 0.25 0.0000050	mg/L umhos/cm MPN/100mL mg/L	30-JUN-17	02-JUL-17 30-JUN-17 30-JUN-17 06-JUL-17	R3765465 R3760167 R3760070
Chloride in Water by IC Chloride (CI) Conductivity Conductivity 71 Fecal coliforms, 1:10 dilution by QT97 Fecal Coliforms Hardness Calculated Hardness (as CaCO3) Mercury Total Mercury (Hg)-Total 7.4 40 40 40 40 40 40 40 40 40 40 40 40 40	45 19 10 04 00050	нтс	0.50 1.0 10 0.25 0.0000050	mg/L umhos/cm MPN/100mL mg/L	30-JUN-17	02-JUL-17 30-JUN-17 30-JUN-17 06-JUL-17	R3765465 R3760167 R3760070
Conductivity Conductivity 71 Fecal coliforms, 1:10 dilution by QT97 Fecal Coliforms 41 Hardness Calculated Hardness (as CaCO3) Mercury Total Mercury (Hg)-Total 40 40 40 40 40 40	19 10 04 00050	нтс	1.0 10 0.25 0.0000050	umhos/cm MPN/100mL mg/L	30-JUN-17	30-JUN-17 30-JUN-17 06-JUL-17	R3760167 R3760070
Fecal coliforms, 1:10 dilution by QT97 Fecal Coliforms <1 Hardness Calculated Hardness (as CaCO3) 40 Mercury Total Mercury (Hg)-Total <0.000	10 04 00050	нтс	10 0.25 0.0000050	MPN/100mL mg/L	30-JUN-17	30-JUN-17 06-JUL-17	R3760070
Hardness Calculated Hardness (as CaCO3) Mercury Total Mercury (Hg)-Total <0.000	00050 066	нтс	0.25	mg/L	30-JUN-17	06-JUL-17	
Hardness (as CaCO3) Mercury Total Mercury (Hg)-Total <0.000	00050 066	нтс	0.0000050		30-JUN-17		R3766324
Mercury (Hg)-Total <0.000	066			mg/L	30-JUN-17	05-JUL-17	R3766324
Nitrate in Water by IC			0.020				1
Nitrate (as N) 0.0	070			mg/L		02-JUL-17	R3765465
Nitrate+Nitrite Nitrate and Nitrite as N <0.0	UIU		0.070	mg/L		06-JUL-17	
Nitrite in Water by IC							D0705405
Oil & Grease - Gravimetric	010		0.010	mg/L		02-JUL-17	R3765465
Oil and Grease <5	5.0		5.0	mg/L		10-JUL-17	R3768790
Phenol (4AAP) Phenols (4AAP) 0.00	011		0.0010	mg/L		12-JUL-17	R3770534
Phosphorus, Total Phosphorus (P)-Total 0.1	70		0.010	mg/L		05-JUL-17	R3765590
Sulfate in Water by IC Sulfate (SO4) 26			0.30	mg/L		02-JUL-17	R3765465
Total Metals by ICP-MS					05 1111 47		
Aluminum (Al)-Total 0.00 Arsenic (As)-Total 0.00			0.0050	mg/L	05-JUL-17 05-JUL-17	05-JUL-17	R3766035
Arsenic (As)-Total 0.00 Cadmium (Cd)-Total 0.000			0.00020 0.000010	mg/L	05-JUL-17 05-JUL-17	05-JUL-17 05-JUL-17	R3766035 R3766035
Calcium (Ca)-Total 0.000			0.000010	mg/L mg/L	05-JUL-17	05-JUL-17 05-JUL-17	
Chromium (Cr)-Total <0.0			0.0010	mg/L	05-JUL-17	05-JUL-17	R3766035 R3766035
Cobalt (Co)-Total 0.00			0.0010	mg/L	05-JUL-17	05-JUL-17	R3766035
Copper (Cu)-Total 0.00			0.00020	mg/L	05-JUL-17	05-JUL-17	R3766035
Iron (Fe)-Total 0.9			0.00020	mg/L	05-JUL-17	05-JUL-17	R3766035
Lead (Pb)-Total 0.000			0.000090	mg/L	05-JUL-17	05-JUL-17	R3766035
Magnesium (Mg)-Total 8.5			0.000090	mg/L	05-JUL-17	05-JUL-17	R3766035
Manganese (Mn)-Total 0.06			0.00030	mg/L	05-JUL-17	05-JUL-17	R3766035
Nickel (Ni)-Total 0.00			0.00030	mg/L	05-JUL-17	05-JUL-17	R3766035
Potassium (K)-Total 8.7			0.0020	mg/L	05-JUL-17	05-JUL-17	R3766035
Sodium (Na)-Total	I		0.020	mg/L	05-JUL-17	05-JUL-17	R3766035
Zinc (Zn)-Total 0.02			0.0020	mg/L	05-JUL-17	05-JUL-17	R3766035
Total Organic Carbon by Combustion Total Organic Carbon 16			0.50	mg/L	30 002	07-JUL-17	R3768090
Total Suspended Solids							
Total Suspended Solids 7. pH	.0		5.0	mg/L		07-JUL-17	R3768512
pH 7.6	64		0.10	pH units		30-JUN-17	R3760167

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

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Reference Information

Sample Parameter Qualifier Kev:

Qualifier	Description
BODQ	BOD Qualification: Lab Control Sample outside standard 85-115% objective (see QC report). Sample(s) cannot be rerun due to hold time expiry.
DLB	Detection Limit Raised. Analyte detected at comparable level in Method Blank.
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
HTC	Hardness was calculated from Total Ca and/or Mg concentrations and may be biased high (dissolved Ca/Mg results unavailable).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RRQC	Refer to report remarks for information regarding this QC result.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ALK-CO3CO3-CALC-WP	Water	Alkalinity, Carbonate	CALCULATION

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by carbonate is calculated and reported as mg CO3 2-/L.

ALK-HCO3HCO3-CALC- Water Alkalinity, Bicarbonate CALCULATION WP

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by bicarbonate is calculated and reported as mg HCO3-/L

ALK-OHOH-CALC-WP Water Alkalinity, Hydroxide CALCULATION

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by hydroxide is calculated and reported as mg OH-/L.

ALK-TITR-WP Water Alkalinity, Total (as CaCO3) APHA 2320B

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. Total alkalinity is determined by titration with a strong standard mineral acid to the successive HCO3- and H2CO3 endpoints indicated electrometrically.

BOD-CBOD-WP Water Carbonaceous BOD APHA 5210 B

Samples are diluted and seeded, have TCMP added to inhibit nitrogenous demands, and then are incubated in airtight bottles at 20°C for 5 days. Dissolved oxygen is measured initially and after incubation, and results are computed from the difference between initial and final DO.

BOD-WP Water Biochemical Oxygen Demand (BOD) APHA 5210 B

Samples are diluted and seeded and then incubated in airtight bottles at 20°C for 5 days. Dissolved oxygen is measured initially and after incubation, and results are computed from the difference between initial and final DO.

BTEXS+F1-HSMS-WP Water BTX plus F1 by GCMS EPA 8260C / EPA 5021A

The water sample, with added reagents, is heated in a sealed vial to equilibrium. The headspace from the vial is transfered into a gas chromatograph.

Target compound concentrations are measured using mass spectrometry detection.

C-TOC-HTC-WP Water Total Organic Carbon by Combustion APHA 5310 B-WP

Sample is acidified and purged to remove inorganic carbon, then injected into a heated reaction chamber where organic carbon is oxidized to CO2 which is then transported in the carrier gas stream and measured via a non-dispersive infrared analyzer.

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

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

EC-WP Water Conductivity APHA 2510B

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.

F1-F4-CALC-WP Water CCME Total Hydrocarbons CCME CWS-PHC, Pub #1310, Dec 2001-L

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

Version: FINAL

Reference Information

Test Method References:

ALS Test Code Matrix Test Description Method Reference**

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-FID-WP Water CCME PHC F2-F4 in Water EPA 3511

Petroleum hydrocarbons in water are determined by liquid-liquid micro-scale solvent extraction using a reciprocal shaker extraction apparatus prior to capillary column gas chromatography with flame ionization detection (GC-FID) analysis.

FC10-QT97-WP Water Fecal coliforms, 1:10 dilution by QT97 APHA 9223B QT97

Analysis is carried out using procedures adapted from APHA 9223 "Enzyme Substrate Coliform Test". Fecal (thermotolerant) coliform bacteria are determined by mixing a 1:10 dilution of sample with a product containing hydrolyzable substrates and sealing in a 97-well packet. The packet is incubated at $44.5 - 0.2^{\circ}$ C for 18 hours and then the number of wells exhibiting positive responses are counted. The final results are obtained by comparing the number of positive responses to a probability table.

HARDNESS-CALC-WP Water Hardness Calculated 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-T-CVAF-WP Water Mercury Total EPA245.7 V2.0

Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.

MET-T-L-MS-WP Water Total Metals by ICP-MS APHA 3030E/EPA 6020A-TL

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-N-WP Water Nitrite in Water by IC EPA 300.1 (mod)

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

NO3-IC-N-WP Water Nitrate in Water by IC EPA 300.1 (mod)

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

OG-GRAV-WP Water Oil & Grease - Gravimetric EPA 1664 (modified)

Water samples are acidified and extracted with hexane; the hexane extract is collected in a pre-weighed vial. The solvent is evaporated and Total Oil & Grease is determined from the weight of the residue in the vial.

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 Phosphorus 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.

L1951645 CONTD....

PAGE 12 of 12 Version: FINAL

Reference Information

Test Method References:

ALS Test Code Matrix Method Reference** **Test Description** SO4-IC-N-WP Water Sulfate in Water by IC EPA 300.1 (mod) Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. SOLIDS-TOTSUS-WP Water **Total Suspended Solids** APHA 2540 D (modified) Total suspended solids in aquesous matrices is determined gravimetrically after drying the residue at 103 105°C. XYLENES-SUM-CALC-Sum of Xylene Isomer Concentrations CALCULATED RESULT WP

Total xylenes represents the sum of o-xylene and m&p-xylene.

** 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:

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 wwt - 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.

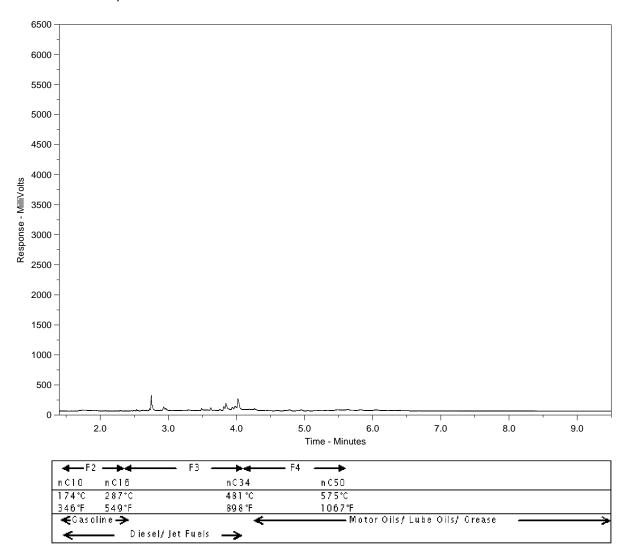
A polytical results in unsigned test reports with the DRAFT watermark are subject to change

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: L1951645-4 Client Sample ID: COR-6



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.

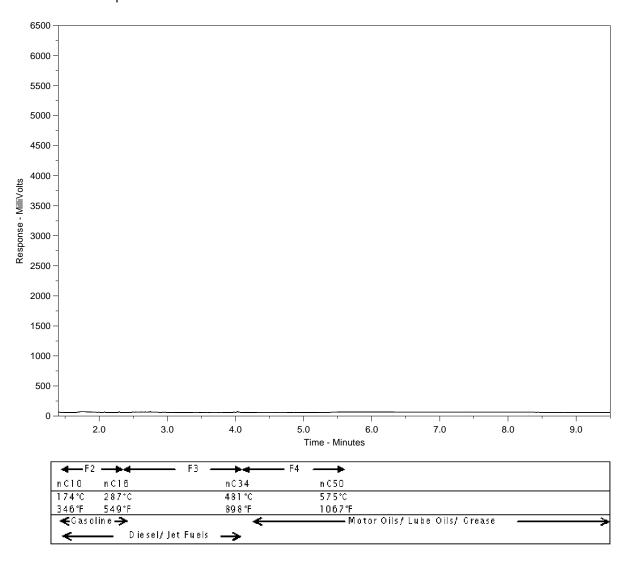
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: L1951645-5 Client Sample ID: COR-7



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.

Environmental www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

coc Number: 14 - 503468

Page ____ of ____

[1951645]

Canada Toll Free: 1 800 668 9878

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Contact: Leonie Pameolik	Quality Control ((QC) Report with Re	port 🔲 Yes	s No	P		Priority (2-4 business days if received by 3pm)										
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COR- 4					V	/											8
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COR- 7			1		/	1/							\neg	十.	7	+	1/4
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EFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION		WH	TE - LABORATORY		N - CLI	ENT CO	PY					NA-FM-	-0326a v09 Fron	t/04 January	2014		



Name of Sampler(s): George Alog at
Date of Sampling:
Time of Sampling: 10 AM
Monitoring Station Number:
GPS Coordinates: N <u>64 ° 09 '631"</u> W <u>083 ° 11 '528</u> "
Weather Conditions: Sunny Wandy
Samples:
500 mL or 1 L BOD 1 L Amber PAH + Pres
1 L Routine 3 x 40 mL BTEX, F1 Vials + Pres
250 mL Metals + Pres 2 x 60 mL Amber F2-F4 Vials + Pres
√ 40 mL Glass Mercury Vial + Pres
250 mL Amber Nutrients + Pres Other:
250 mL Amber Phenois + Pres
125 mL Sterile Bacteria Bottle
2 x 250 mL Amber Oil & Grease + Pres
Other Notes: (any unusual conditions, any deviation from standard procedures, reason sample was not taken, etc.)



Name of Sampler(s): George A	logat
Date of Sampling: Tune 27	, 2017
Time of Sampling: 10:30	AM
Monitoring Station Number:	or-6
GPS Coordinates: N <u>64° 09' 727</u>	<u>L"</u> W <u>\$5° 1/ '650."</u>
Weather Conditions:	
Samples: 500 mL or 1 L BOD 1 L Routine 250 mL Metals + Pres 40 mL Glass Mercury Vial + Pres 250 mL Amber Nutrients + Pres 250 mL Amber Phenols + Pres 125 mL Sterile Bacteria Bottle 2 x 250 mL Amber Oil & Grease + Pres	1 L Amber PAH + Pres 3 x 40 mL BTEX, F1 Vials + Pres 2 x 60 mL Amber F2-F4 Vials + Pres Other:
Other Notes: (any unusual conditions, any c sample was not taken, etc.)	deviation from standard procedures, reason
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Name of Sampler(s): heave 1	About
Date of Sampling:	,2017
Time of Sampling:	4
Monitoring Station Number:	Cor-5
GPS Coordinates: N <u>6 4 ° 09 '711</u>	" W 083 ° 11 '272"
Weather Conditions: Sunny	Windy
Samples:	
500 mL <u>or</u> 1 L BOD	1 L Amber PAH + Pres
1 L Routine	3 x 40 mL BTEX, F1 Vials + Pres
250 mL Metals + Pres	2 x 60 mL Amber F2-F4 Vials + Pres
40 mL Glass Mercury Vial + Pres	
250 mL Amber Nutrients + Pres	Other:
250 mL Amber Phenols + Pres	
125 mL Sterile Bacteria Bottle	
2 x 250 mL Amber Oil & Grease + Pres	
Other Notes: (any unusual conditions, any o sample was not taken, etc.)	deviation from standard procedures, reason
	,
	•
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Name of Sampler(s): George Alagust
Date of Sampling:
Time of Sampling: 14 AM
Monitoring Station Number:
GPS Coordinates: N <u>64 ° 09 '807"</u> W <u>083 ° 11 '321"</u>
Weather Conditions: Sunny windy
Samples: 500 mL or 1 L BOD 1 L Amber PAH + Pres 3 x 40 mL BTEX, F1 Vials + Pres 250 mL Metals + Pres 40 mL Glass Mercury Vial + Pres 250 mL Amber Nutrients + Pres 250 mL Amber Phenols + Pres 125 mL Sterile Bacteria Bottle 2 x 250 mL Amber Oil & Grease + Pres
Other Notes: (any unusual conditions, any deviation from standard procedures, reason sample was not taken, etc.)



Name of Sampler(s): <u>(PEOVSE /</u>	Mosel
Date of Sampling:	,2017
Time of Sampling: 10:3€	
Monitoring Station Number:	Cor-3
GPS Coordinates: N <u>64°09 ′ 79</u>	1" W <u>683° 11 ' 471"</u>
Weather Conditions:	
Samples:	
500 mL <u>or</u> 1 L BOD	1 L Amber PAH + Pres
1 L Routine	3 x 40 mL BTEX, F1 Vials + Pres
250 mL Metals + Pres	2 x 60 mL Amber F2-F4 Vials + Pres
40 mL Glass Mercury Vial + Pres	
250 mL Amber Nutrients + Pres	Other:
250 mL Amber Phenols + Pres	
125 mL Sterile Bacteria Bottle	
2 x 250 mL Amber Oil & Grease + Pres	
Other Notes: (any unusual conditions, any sample was not taken, etc.)	deviation from standard procedures, reason



Hamlet of Coral Harbour ATTN: LEONIE PAMEOLIK

PO Box 30

Coral Harbour MB XOC OCO

Date Received: 01-AUG-17

Report Date: 10-AUG-17 13:31 (MT)

Version: FINAL

Client Phone: 867-925-8970

Certificate of Analysis

Lab Work Order #: L1968154
Project P.O. #: NOT SUBMITTED

Job Reference: CORAL HARBOUR MONITORING PROGRAM

C of C Numbers: Legal Site Desc:

Hua Wo

Chemistry Laboratory Manager

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ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg. MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721

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L1968154 CONTD.... PAGE 2 of 12 Version: FINAL

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1968154-1 COR-7							
Sampled By: CASEY on 25-JUL-17 @ 10:44							
' '							
Matrix: Waste Water BTEX plus F1-F4							
BTX plus F1-F4 BTX plus F1 by GCMS							
Benzene	<0.00050		0.00050	mg/L		03-AUG-17	R3791367
Toluene	<0.0010		0.0010	mg/L		03-AUG-17	R3791367
Ethyl benzene	<0.00050		0.00050	mg/L		03-AUG-17	R3791367
o-Xylene	<0.00050		0.00050	mg/L		03-AUG-17	R3791367
m+p-Xylenes	<0.00040		0.00040	mg/L		03-AUG-17	R3791367
F1 (C6-C10)	<0.10		0.10	mg/L		03-AUG-17	R3791367
Surrogate: 4-Bromofluorobenzene (SS)	91.8		70-130	%		03-AUG-17	R3791367
CCME PHC F2-F4 in Water							
F2 (C10-C16)	<0.10		0.10	mg/L	03-AUG-17	04-AUG-17	R3792062
F3 (C16-C34)	<0.25		0.25	mg/L	03-AUG-17	04-AUG-17	R3792062
F4 (C34-C50)	<0.25		0.25	mg/L	03-AUG-17	04-AUG-17	R3792062
Surrogate: 2-Bromobenzotrifluoride	89.4		60-140	%	03-AUG-17	04-AUG-17	R3792062
CCME Total Hydrocarbons			0.45	"		40 4110 47	
F1-BTEX	<0.10		0.10	mg/L		10-AUG-17	
F2-Naphth F3-PAH	<0.10		0.10	mg/L		10-AUG-17	
Total Hydrocarbons (C6-C50)	<0.25 <0.38		0.25 0.38	mg/L		10-AUG-17 10-AUG-17	
` ,	<0.38		0.38	mg/L		10-AUG-17	
Sum of Xylene Isomer Concentrations Xylenes (Total)	<0.00064		0.00064	mg/L		04-AUG-17	
Miscellaneous Parameters	<0.00004		0.00004	mg/L		04 700 17	
Biochemical Oxygen Demand	<2.0		2.0	mg/L	02-AUG-17	07-AUG-17	R3792544
Polyaromatic Hydrocarbons (PAHs)	<2.0		2.0	mg/L	02 A00 17	01 700 11	137 92344
1-Methyl Naphthalene	<0.000020		0.000020	mg/L	02-AUG-17	03-AUG-17	R3794059
2-Methyl Naphthalene	<0.000020		0.000020	mg/L	02-AUG-17	03-AUG-17	R3794059
Acenaphthene	<0.000020		0.000020	mg/L	02-AUG-17	03-AUG-17	R3794059
Acenaphthylene	<0.000020		0.000020	mg/L	02-AUG-17	03-AUG-17	R3794059
Anthracene	<0.00010		0.000010	mg/L	02-AUG-17	03-AUG-17	R3794059
Acridine	<0.000020		0.000020	mg/L	02-AUG-17	03-AUG-17	R3794059
Benzo(a)anthracene	<0.000010		0.000010	mg/L	02-AUG-17	03-AUG-17	R3794059
Benzo(a)pyrene	<0.000050		0.0000050	mg/L	02-AUG-17	03-AUG-17	R3794059
Benzo(b&j)fluoranthene	<0.000010		0.000010	mg/L	02-AUG-17	03-AUG-17	R3794059
Benzo(g,h,i)perylene	<0.000020		0.000020	mg/L	02-AUG-17	03-AUG-17	R3794059
Benzo(k)fluoranthene	<0.000010		0.000010	mg/L	02-AUG-17	03-AUG-17	R3794059
Chrysene	<0.000020		0.000020	mg/L	02-AUG-17	03-AUG-17	R3794059
Dibenzo(a,h)anthracene	<0.000050		0.0000050	mg/L	02-AUG-17	03-AUG-17	R3794059
Fluoranthene	<0.000020		0.000020	mg/L	02-AUG-17	03-AUG-17	R3794059
Fluorene	<0.000020		0.000020	mg/L	02-AUG-17	03-AUG-17	R3794059
Indeno(1,2,3-cd)pyrene	<0.000010		0.000010	mg/L	02-AUG-17	03-AUG-17	R3794059
Naphthalene Phenanthrene	<0.000050		0.000050	mg/L	02-AUG-17 02-AUG-17	03-AUG-17 03-AUG-17	R3794059
Pyrene	<0.000050 <0.000010		0.000050 0.000010	mg/L mg/L	02-AUG-17 02-AUG-17	03-AUG-17 03-AUG-17	R3794059 R3794059
Quinoline	<0.000010		0.000010	mg/L	02-AUG-17 02-AUG-17	03-AUG-17 03-AUG-17	R3794059 R3794059
B(a)P Total Potency Equivalent	<0.000020		0.000020	mg/L	02-AUG-17 02-AUG-17	03-AUG-17 03-AUG-17	R3794059 R3794059
Surrogate: Acenaphthene d10	93.8		40-130	111g/L %	02-AUG-17 02-AUG-17	03-AUG-17 03-AUG-17	R3794059
Surrogate: Accidine d9	103.7		40-130	%	02-AUG-17 02-AUG-17	03-AUG-17 03-AUG-17	R3794059
Surrogate: Chrysene d12	86.7		40-130	%	02-AUG-17 02-AUG-17	03-AUG-17 03-AUG-17	R3794059
Surrogate: Naphthalene d8	86.7		40-130	%	02-AUG-17	03-AUG-17	R3794059
Surrogate: Phenanthrene d10	88.6		40-130	%	02-AUG-17	03-AUG-17	R3794059
Nunavut WW Group 1	33.0		.5 100			, , , , , , , , , , , , , , , , , , , ,	10.07000
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	74.1		1.2	mg/L		03-AUG-17	

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

L1968154 CONTD.... PAGE 3 of 12 Version: FINAL

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
140004544 COD 7							
L1968154-1 COR-7 Sampled By: CASEY on 25-JUL-17 @ 10:44							
' '							
Matrix: Waste Water							
Alkalinity, Carbonate Carbonate (CO3)	<0.60		0.60	mg/L		03-AUG-17	
Alkalinity, Hydroxide Hydroxide (OH)	<0.34		0.34	mg/L		03-AUG-17	
Alkalinity, Total (as CaCO3) Alkalinity, Total (as CaCO3)	60.7		1.0	mg/L		02-AUG-17	R3790113
Ammonia by colour Ammonia, Total (as N)	0.047		0.010	mg/L		09-AUG-17	R3794392
Carbonaceous BOD BOD Carbonaceous	<2.0		2.0	mg/L		02-AUG-17	R3793433
Chloride in Water by IC							
Chloride (CI) Conductivity	5.34		0.50	mg/L		02-AUG-17	R3791243
Conductivity Fecal coliforms, 1:10 dilution by QT97	708		1.0	umhos/cm		02-AUG-17	R3790113
Fecal Coliforms	<10	PEHR	10	MPN/100mL		01-AUG-17	R3788443
Hardness Calculated Hardness (as CaCO3)	386	HTC	0.20	mg/L		08-AUG-17	
Mercury Total Mercury (Hg)-Total	<0.000050		0.0000050	mg/L	04-AUG-17	08-AUG-17	R3793950
Nitrate in Water by IC Nitrate (as N)	<0.020		0.020	mg/L		02-AUG-17	R3791243
Nitrate+Nitrite Nitrate and Nitrite as N	<0.070		0.070	mg/L		04-AUG-17	
Nitrite in Water by IC Nitrite (as N)	<0.010		0.010	mg/L		02-AUG-17	R3791243
Oil & Grease - Gravimetric Oil and Grease	<5.0		5.0	mg/L		09-AUG-17	R3793951
Phenol (4AAP)							
Phenols (4AAP) Phosphorus, Total	<0.0010		0.0010	mg/L		03-AUG-17	R3791173
Phosphorus (P)-Total Sulfate in Water by IC	0.091		0.010	mg/L		03-AUG-17	R3790464
Sulfate (SO4)	317		0.30	mg/L		03-AUG-17	R3792726
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0510		0.0030	mg/L	04-AUG-17	04-AUG-17	R3792612
Arsenic (As)-Total	0.00071		0.00010	mg/L	04-AUG-17	04-AUG-17	R3792612
Cadmium (Cd)-Total	0.0000220		0.0000050	mg/L	04-AUG-17	04-AUG-17	R3792612
Calcium (Ca)-Total	141		0.050	mg/L	04-AUG-17	04-AUG-17	R3792612
Chromium (Cr)-Total	0.00041		0.00010	mg/L	04-AUG-17	04-AUG-17	R3792612
Cobalt (Co)-Total	0.00038		0.00010	mg/L	04-AUG-17	04-AUG-17	R3792612
Copper (Cu)-Total Iron (Fe)-Total	0.00702		0.00050	mg/L	04-AUG-17 04-AUG-17	04-AUG-17 04-AUG-17	R3792612
Lead (Pb)-Total	0.805 0.000505		0.010	mg/L	04-AUG-17 04-AUG-17	04-AUG-17 04-AUG-17	R3792612
Magnesium (Mg)-Total			0.000050	mg/L	04-AUG-17 04-AUG-17	04-AUG-17 04-AUG-17	R3792612 R3792612
Manganese (Mn)-Total	8.44			mg/L	04-AUG-17 04-AUG-17	04-AUG-17 04-AUG-17	
Nickel (Ni)-Total	0.0285		0.00010	mg/L	04-AUG-17 04-AUG-17	04-AUG-17 04-AUG-17	R3792612
Potassium (K)-Total	0.00310		0.00050	mg/L	04-AUG-17 04-AUG-17	04-AUG-17 04-AUG-17	R3792612
` '	7.63		0.050	mg/L			R3792612
Sodium (Na)-Total	12.3		0.050	mg/L	04-AUG-17	04-AUG-17	R3792612
Zinc (Zn)-Total Total Organic Carbon by Combustion	0.0261		0.0030	mg/L	04-AUG-17	04-AUG-17	R3792612
Total Organic Carbon	28.5		0.50	mg/L		03-AUG-17	R3792636
Total Suspended Solids							

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

L1968154 CONTD.... PAGE 4 of 12 Version: FINAL

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1968154-1 COR-7							
Sampled By: CASEY on 25-JUL-17 @ 10:44							
Matrix: Waste Water							
Total Suspended Solids							
Total Suspended Solids	7.0		5.0	mg/L		08-AUG-17	R3793625
pH							
pH	8.08		0.10	pH units		02-AUG-17	R3790113
L1968154-2 COR-6 Sampled By: CASEY on 25-JUL-17 @ 11:07							
' '							
Matrix: Waste Water BTEX plus F1-F4							
BTX plus F1 by GCMS							
Benzene	<0.00050		0.00050	mg/L		03-AUG-17	R3791367
Toluene	<0.0010		0.0010	mg/L		03-AUG-17	R3791367
Ethyl benzene	<0.00050		0.00050	mg/L		03-AUG-17	R3791367
o-Xylene	<0.00050		0.00050	mg/L		03-AUG-17	R3791367
m+p-Xylenes	<0.00040		0.00040	mg/L		03-AUG-17	R3791367
F1 (C6-C10)	<0.10		0.10	mg/L		03-AUG-17	R3791367
Surrogate: 4-Bromofluorobenzene (SS)	90.5		70-130	%		03-AUG-17	R3791367
CCME PHC F2-F4 in Water							
F2 (C10-C16)	<0.10		0.10	mg/L	03-AUG-17	04-AUG-17	R3792062
F3 (C16-C34)	<0.25		0.25	mg/L	03-AUG-17	04-AUG-17	R3792062
F4 (C34-C50)	<0.25		0.25	mg/L	03-AUG-17	04-AUG-17	R3792062
Surrogate: 2-Bromobenzotrifluoride	89.9		60-140	%	03-AUG-17	04-AUG-17	R3792062
CCME Total Hydrocarbons							
F1-BTEX	<0.10		0.10	mg/L		10-AUG-17	
F2-Naphth	<0.10		0.10	mg/L		10-AUG-17	
F3-PAH	<0.25		0.25	mg/L		10-AUG-17	
Total Hydrocarbons (C6-C50)	<0.38		0.38	mg/L		10-AUG-17	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.00064		0.00064	mg/L		04-AUG-17	
Miscellaneous Parameters							
Biochemical Oxygen Demand	7.7		2.0	mg/L	02-AUG-17	07-AUG-17	R3792544
Polyaromatic Hydrocarbons (PAHs)				,,			
1-Methyl Naphthalene	<0.000020		0.000020	mg/L	02-AUG-17	03-AUG-17	R3794059
2-Methyl Naphthalene	<0.000020		0.000020	mg/L	02-AUG-17	03-AUG-17	R3794059
Acenaphthene	<0.000020		0.000020	mg/L	02-AUG-17	03-AUG-17	R3794059
Acthorogona	<0.000020		0.000020	mg/L	02-AUG-17	03-AUG-17	R3794059
Anthracene	<0.000010		0.000010	mg/L	02-AUG-17	03-AUG-17	R3794059
Acridine	<0.000020		0.000020	mg/L	02-AUG-17	03-AUG-17	R3794059
Benzo(a)anthracene	<0.000010		0.000010	mg/L	02-AUG-17	03-AUG-17	R3794059
Benzo(a)pyrene	<0.000050		0.0000050	mg/L	02-AUG-17	03-AUG-17	R3794059
Benzo(b&j)fluoranthene	<0.000010		0.000010	mg/L	02-AUG-17	03-AUG-17	R3794059
Benzo(g,h,i)perylene	<0.000020		0.000020	mg/L	02-AUG-17	03-AUG-17	R3794059
Benzo(k)fluoranthene	<0.000010		0.000010	mg/L	02-AUG-17	03-AUG-17	R3794059
Chrysene	<0.000020		0.000020	mg/L	02-AUG-17	03-AUG-17	R3794059
Dibenzo(a,h)anthracene	<0.0000050		0.0000050	mg/L	02-AUG-17	03-AUG-17	R3794059
Fluoranthene	<0.000020		0.000020	mg/L	02-AUG-17	03-AUG-17	R3794059
Fluorene	<0.000020		0.000020	mg/L	02-AUG-17	03-AUG-17	R3794059
Indeno(1,2,3-cd)pyrene	<0.000010		0.000010	mg/L	02-AUG-17	03-AUG-17	R3794059
Naphthalene	<0.000050		0.000050	mg/L	02-AUG-17	03-AUG-17	R3794059
Phenanthrene	<0.000050		0.000050	mg/L	02-AUG-17	03-AUG-17	R3794059
Pyrene	<0.000010		0.000010	mg/L	02-AUG-17	03-AUG-17	R3794059
Quinoline	<0.000020		0.000020	mg/L	02-AUG-17	03-AUG-17	R3794059
B(a)P Total Potency Equivalent	<0.000030		0.000030	mg/L	02-AUG-17	03-AUG-17	R3794059

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

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1968154-2 COR-6							
Sampled By: CASEY on 25-JUL-17 @ 11:07							
Matrix: Waste Water							
Polyaromatic Hydrocarbons (PAHs)							
Surrogate: Acenaphthene d10	96.0		40-130	%	02-AUG-17	03-AUG-17	R3794059
Surrogate: Acridine d9	110.0		40-130	%	02-AUG-17	03-AUG-17	R3794059
Surrogate: Chrysene d12	72.4		40-130	%	02-AUG-17	03-AUG-17	R3794059
Surrogate: Naphthalene d8	87.7		40-130	%	02-AUG-17	03-AUG-17	R3794059
Surrogate: Phenanthrene d10 Nunavut WW Group 1	89.2		40-130	%	02-AUG-17	03-AUG-17	R3794059
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	260		1.2	mg/L		03-AUG-17	
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		03-AUG-17	
Alkalinity, Hydroxide						<u>-</u>	
Hydroxide (OH)	<0.34		0.34	mg/L		03-AUG-17	
Alkalinity, Total (as CaCO3) Alkalinity, Total (as CaCO3)	213		1.0	mg/L		02-AUG-17	R3790113
Ammonia by colour	213		1.0	illy/L		02-AUG-17	V2130112
Ammonia, Total (as N)	0.065		0.010	mg/L		09-AUG-17	R3794392
Carbonaceous BOD							
BOD Carbonaceous	5.4		2.0	mg/L		02-AUG-17	R3793433
Chloride in Water by IC							
Chloride (CI)	79.3		1.0	mg/L		02-AUG-17	R3791243
Conductivity Conductivity	935		1.0	umhos/cm		02-AUG-17	R3790113
Fecal coliforms, 1:10 dilution by QT97	933		1.0	ummos/cm		02-AUG-17	K3/90113
Fecal Coliforms	<10	PEHR	10	MPN/100mL		01-AUG-17	R3788443
Hardness Calculated							
Hardness (as CaCO3)	325	HTC	0.20	mg/L		08-AUG-17	
Mercury Total					<u>-</u>	<u>-</u>	
Mercury (Hg)-Total	<0.000050		0.0000050	mg/L	04-AUG-17	08-AUG-17	R3793950
Nitrate in Water by IC Nitrate (as N)	<0.040	DLM	0.040	mg/L		02-AUG-17	R3791243
Nitrate+Nitrite	VO.040	J 2	0.040	mg/L		02 700 17	1(3/31243
Nitrate and Nitrite as N	<0.070		0.070	mg/L		04-AUG-17	
Nitrite in Water by IC							
Nitrite (as N)	<0.020	DLM	0.020	mg/L		02-AUG-17	R3791243
Oil & Grease - Gravimetric	7.0			n		00 410 47	D0700054
Oil and Grease	7.0		5.0	mg/L		09-AUG-17	R3793951
Phenol (4AAP) Phenols (4AAP)	0.0011		0.0010	mg/L		03-AUG-17	R3791173
Phosphorus, Total	3.3011		0.0010	g/ L		307.30 17	
Phosphorus (P)-Total	0.295		0.010	mg/L		03-AUG-17	R3790464
Sulfate in Water by IC							
Sulfate (SO4)	183		0.60	mg/L		02-AUG-17	R3791243
Total Metals in Water by CRC ICPMS	0.400		0.0000	N	04 4110 47	04 4110 47	D0700040
Aluminum (AI)-Total Arsenic (As)-Total	0.138 0.00177		0.0030	mg/L	04-AUG-17 04-AUG-17	04-AUG-17 04-AUG-17	R3792612
Cadmium (Cd)-Total	0.00177		0.00010	mg/L mg/L	04-AUG-17 04-AUG-17	04-AUG-17 04-AUG-17	R3792612 R3792612
Calcium (Ca) Total	94.4		0.050	mg/L	04-AUG-17 04-AUG-17	04-AUG-17	R3792612
Chromium (Cr)-Total	0.00062		0.00010	mg/L	04-AUG-17	04-AUG-17	R3792612
Cobalt (Co)-Total	0.00031		0.00010	mg/L	04-AUG-17	04-AUG-17	R3792612
Copper (Cu)-Total	0.00266		0.00050	mg/L	04-AUG-17	04-AUG-17	R3792612
Iron (Fe)-Total	0.806		0.010	mg/L	04-AUG-17	04-AUG-17	R3792612
Lead (Pb)-Total	0.000578		0.000050	mg/L	04-AUG-17	04-AUG-17	R3792612

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

L1968154 CONTD.... PAGE 6 of 12 Version: FINAL

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1968154-2 COR-6							
Sampled By: CASEY on 25-JUL-17 @ 11:07							
Matrix: Waste Water							
Total Metals in Water by CRC ICPMS Magnesium (Mg)-Total	21.7		0.0050	mg/L	04-AUG-17	04-AUG-17	R3792612
Manganese (Mn)-Total	0.0796		0.00010	mg/L	04-AUG-17	04-AUG-17	R3792612
Nickel (Ni)-Total	0.00245		0.00050	mg/L	04-AUG-17	04-AUG-17	R3792612
Potassium (K)-Total	25.6		0.050	mg/L	04-AUG-17	04-AUG-17	R3792612
Sodium (Na)-Total	73.2		0.050	mg/L	04-AUG-17	04-AUG-17	R3792612
Zinc (Zn)-Total Total Organic Carbon by Combustion	0.0039		0.0030	mg/L	04-AUG-17	04-AUG-17	R3792612
Total Organic Carbon	40.5		0.50	mg/L		03-AUG-17	R3792636
Total Suspended Solids Total Suspended Solids	17.0		5.0	mg/L		08-AUG-17	R3793625
рН							
pH	7.50		0.10	pH units		02-AUG-17	R3790113
L1968154-3 COR-3							
Sampled By: CASEY on 25-JUL-17 @ 11:16							
Matrix: Waste Water Miscellaneous Parameters							
Biochemical Oxygen Demand	62		20	mg/L	02-AUG-17	07-AUG-17	R3792544
Nunavut WW Group 1							
Alkalinity, Bicarbonate	447		4.0			00 410 47	
Bicarbonate (HCO3) Alkalinity, Carbonate	417		1.2	mg/L		03-AUG-17	
Carbonate (CO3)	<0.60		0.60	mg/L		03-AUG-17	
Alkalinity, Hydroxide Hydroxide (OH)	<0.34		0.34	mg/L		03-AUG-17	
Alkalinity, Total (as CaCO3) Alkalinity, Total (as CaCO3)	342		1.0	mg/L		02-AUG-17	R3790113
Ammonia by colour Ammonia, Total (as N)	27.0		1.0	mg/L		09-AUG-17	R3794392
Carbonaceous BOD BOD Carbonaceous	<20		20	mg/L		02-AUG-17	R3793433
Chloride in Water by IC Chloride (CI)	69.1		1.0	mg/L		02-AUG-17	R3791243
Conductivity Conductivity	917		1.0	umhos/cm		02-AUG-17	R3790113
Fecal coliforms, 1:10 dilution by QT97 Fecal Coliforms	50	PEHR		MPN/100mL		01-AUG-17	R3788443
Hardness Calculated			10				K3/00443
Hardness (as CaCO3) Mercury Total	173	HTC	0.20	mg/L		08-AUG-17	
Mercury (Hg)-Total	<0.000050		0.0000050	mg/L	04-AUG-17	08-AUG-17	R3793950
Nitrate in Water by IC Nitrate (as N)	<0.040	DLM	0.040	mg/L		02-AUG-17	R3791243
Nitrate+Nitrite Nitrate and Nitrite as N	<0.070		0.070	mg/L		04-AUG-17	
Nitrite in Water by IC Nitrite (as N)	<0.020	DLM	0.020	mg/L		02-AUG-17	R3791243
Oil & Grease - Gravimetric Oil and Grease	5.5		5.0	mg/L		09-AUG-17	R3793951
Phenol (4AAP) Phenols (4AAP)	0.0192		0.0010	mg/L		03-AUG-17	R3791173
Phosphorus, Total							
Phosphorus (P)-Total	6.43		0.25	mg/L		03-AUG-17	R3790464

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

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1968154-3 COR-3							
Sampled By: CASEY on 25-JUL-17 @ 11:16							
Matrix: Waste Water							
Sulfate in Water by IC							
Sulfate (SO4)	13.5		0.60	mg/L		02-AUG-17	R3791243
Total Metals in Water by CRC ICPMS							
Aluminum (AI)-Total	0.0657		0.0030	mg/L	04-AUG-17	04-AUG-17	R3792612
Arsenic (As)-Total	0.00104		0.00010	mg/L	04-AUG-17	04-AUG-17	R3792612
Cadmium (Cd)-Total	0.0000074		0.0000050	mg/L	04-AUG-17	04-AUG-17	R3792612
Calcium (Ca)-Total	58.9		0.050	mg/L	04-AUG-17	04-AUG-17	R3792612
Chromium (Cr)-Total	0.00037		0.00010	mg/L	04-AUG-17	04-AUG-17	R3792612
Cobalt (Co)-Total Copper (Cu)-Total	0.00058		0.00010	mg/L	04-AUG-17 04-AUG-17	04-AUG-17 04-AUG-17	R3792612 R3792612
Iron (Fe)-Total	0.00695 0.300		0.00050 0.010	mg/L mg/L	04-AUG-17 04-AUG-17	04-AUG-17 04-AUG-17	R3792612 R3792612
Lead (Pb)-Total	0.000156		0.00050	mg/L	04-AUG-17	04-AUG-17 04-AUG-17	R3792612
Magnesium (Mg)-Total	6.19		0.00050	mg/L	04-AUG-17	04-AUG-17 04-AUG-17	R3792612
Manganese (Mn)-Total	0.0711		0.0000	mg/L	04-AUG-17	04-AUG-17	R3792612
Nickel (Ni)-Total	0.00357		0.00050	mg/L	04-AUG-17	04-AUG-17	R3792612
Potassium (K)-Total	29.4		0.050	mg/L	04-AUG-17	04-AUG-17	R3792612
Sodium (Na)-Total	63.2		0.050	mg/L	04-AUG-17	04-AUG-17	R3792612
Zinc (Zn)-Total	0.0049		0.0030	mg/L	04-AUG-17	04-AUG-17	R3792612
Total Organic Carbon by Combustion							
Total Organic Carbon	51.8		5.0	mg/L		03-AUG-17	R3792636
Total Suspended Solids							
Total Suspended Solids	31.0		5.0	mg/L		08-AUG-17	R3793625
pH pH	7.08		0.10	pH units		02-AUG-17	R3790113
	1.00		0.10	Pri uillo		02-AUG-17	13130113
L1968154-4 COR-4							
Sampled By: CASEY on 25-JUL-17 @ 11:40							
Matrix: Waste Water Miscellaneous Parameters							
Biochemical Oxygen Demand	40.5		2.0	ma/l	02-AUG-17	07-AUG-17	R3792544
Nunavut WW Group 1	40.5		2.0	mg/L	02-AUG-11	01-AUG-11	NO192044
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	378		1.2	mg/L		09-AUG-17	
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		09-AUG-17	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		09-AUG-17	
Alkalinity, Total (as CaCO3)						04 41:0 :=	D070000
Alkalinity, Total (as CaCO3)	310		1.0	mg/L		04-AUG-17	R3793824
Ammonia by colour Ammonia, Total (as N)	3.57		0.10	mg/L		09-AUG-17	R3794392
Carbonaceous BOD	3.57		0.10	illy/L		00-700-11	1101 34032
BOD Carbonaceous	2.2		2.0	mg/L		02-AUG-17	R3793433
Chloride in Water by IC				J =			
Chloride (Cl)	42.6		0.50	mg/L		02-AUG-17	R3791243
Conductivity							
Conductivity	688		1.0	umhos/cm		04-AUG-17	R3793824
Fecal coliforms, 1:10 dilution by QT97							
Fecal Coliforms	<10	PEHR	10	MPN/100mL		01-AUG-17	R3788443
Hardness Calculated	252	нтс	0.20	ma/l		09 110 17	
Hardness (as CaCO3)	253	'''	0.20	mg/L		08-AUG-17	
Mercury Total Mercury (Hg)-Total	<0.000050		0.0000050	mg/L	04-AUG-17	08-AUG-17	R3793950
Nitrate in Water by IC	13.000000		3.5555500	9, _	000 17	557.55 17	1.5. 55555
THE COLUMN TWO IS NOT	I .	1	1			1	-

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

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Sample Details/Parameters	Result	Qualifier* D.L.	Units	Extracted	Analyzed	Batch
L1968154-4 COR-4						
Sampled By: CASEY on 25-JUL-17 @ 11:40						
Matrix: Waste Water						
Nitrate in Water by IC Nitrate (as N)	3.82	0.020	mg/L		02-AUG-17	R3791243
Nitrate+Nitrite Nitrate and Nitrite as N	5 10	0.070	ma/l		04-AUG-17	
Nitrite in Water by IC	5.10	0.070	mg/L		04-AUG-17	
Nitrite (as N)	1.28	0.010	mg/L		02-AUG-17	R3791243
Oil & Grease - Gravimetric	5.0	5.0			00 4110 47	D0700054
Oil and Grease	<5.0	5.0	mg/L		09-AUG-17	R3793951
Phenol (4AAP) Phenols (4AAP)	<0.0010	0.0010	mg/L		03-AUG-17	R3791173
Phosphorus, Total						
Phosphorus (P)-Total	0.325	0.010	mg/L		03-AUG-17	R3790464
Sulfate in Water by IC	0.44	0.00			00 110 47	D0704040
Sulfate (SO4)	8.11	0.30	mg/L		02-AUG-17	R3791243
Total Metals in Water by CRC ICPMS Aluminum (Al)-Total	0.0339	0.0030	mg/L	04-AUG-17	04-AUG-17	R3792612
Arsenic (As)-Total	0.00173	0.00010	mg/L	04-AUG-17	04-AUG-17	R3792612
Cadmium (Cd)-Total	0.0000592	0.0000050	1	04-AUG-17	04-AUG-17	R3792612
Calcium (Ca)-Total	89.7	0.050	mg/L	04-AUG-17	04-AUG-17	R3792612
Chromium (Cr)-Total	0.00031	0.00010	mg/L	04-AUG-17	04-AUG-17	R3792612
Cobalt (Co)-Total	0.00233	0.00010	mg/L	04-AUG-17	04-AUG-17	R3792612
Copper (Cu)-Total	0.00303	0.00050	mg/L	04-AUG-17	04-AUG-17	R3792612
Iron (Fe)-Total	0.665	0.010	mg/L	04-AUG-17	04-AUG-17	R3792612
Lead (Pb)-Total	0.000079	0.000050	mg/L	04-AUG-17	04-AUG-17	R3792612
Magnesium (Mg)-Total	7.13	0.0050	mg/L	04-AUG-17	04-AUG-17	R3792612
Manganese (Mn)-Total	0.139	0.00010	mg/L	04-AUG-17	04-AUG-17	R3792612
Nickel (Ni)-Total	0.00723	0.00050	mg/L	04-AUG-17	04-AUG-17	R3792612
Potassium (K)-Total	14.4	0.050	mg/L	04-AUG-17	04-AUG-17	R3792612
Sodium (Na)-Total	42.1	0.050	mg/L	04-AUG-17	04-AUG-17	R3792612
Zinc (Zn)-Total	<0.0030	0.0030	mg/L	04-AUG-17	04-AUG-17	R3792612
Total Organic Carbon by Combustion Total Organic Carbon	14.8	0.50	mg/L		04-AUG-17	R3793537
Total Suspended Solids Total Suspended Solids	27.0	5.0	mg/L		08-AUG-17	R3793625
pH	27.0	3.0	ilig/L		00 A00-11	1101 90020
pH	7.47	0.10	pH units		04-AUG-17	R3793824
L1968154-5 COR-5						
Sampled By: CASEY on 25-JUL-17 @ 11:55						
Matrix: Waste Water						
Miscellaneous Parameters						
Biochemical Oxygen Demand	7.7	2.0	mg/L	02-AUG-17	07-AUG-17	R3792544
Nunavut WW Group 1						
Alkalinity, Bicarbonate Bicarbonate (HCO3)	341	1.2	mg/L		03-AUG-17	
Alkalinity, Carbonate			J			
Carbonate (CO3)	<0.60	0.60	mg/L		03-AUG-17	
Alkalinity, Hydroxide Hydroxide (OH)	<0.34	0.34	mg/L		03-AUG-17	
Alkalinity, Total (as CaCO3) Alkalinity, Total (as CaCO3)	280	1.0	mg/L		02-AUG-17	R3790113
Ammonia by colour		1.0	ilig/L		02 A00-17	1.07.90113
Ammonia, Total (as N)	0.148	0.010	mg/L		09-AUG-17	R3794392
Carbonaceous BOD						

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

L1968154 CONTD.... PAGE 9 of 12 Version: FINAL

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1968154-5 COR-5							
Sampled By: CASEY on 25-JUL-17 @ 11:55							
Matrix: Waste Water							
Carbonaceous BOD							
BOD Carbonaceous	4.6		2.0	mg/L		02-AUG-17	R3793433
Chloride in Water by IC							
Chloride (CI)	38.8		0.50	mg/L		02-AUG-17	R3791243
Conductivity Conductivity	630		1.0	umhos/cm		02-AUG-17	R3790113
Fecal coliforms, 1:10 dilution by QT97							110100110
Fecal Coliforms	<10	PEHR	10	MPN/100mL		01-AUG-17	R3788443
Hardness Calculated	000	LITO				00 4110 47	
Hardness (as CaCO3) Mercury Total	222	HTC	0.20	mg/L		08-AUG-17	
Mercury (Hg)-Total	<0.000050		0.0000050	mg/L	04-AUG-17	08-AUG-17	R3793950
Nitrate in Water by IC							
Nitrate (as N)	0.020		0.020	mg/L		02-AUG-17	R3791243
Nitrate+Nitrite Nitrate and Nitrite as N	<0.070		0.070	mg/L		04-AUG-17	
Nitrite in Water by IC	\0.070		0.070	iiig/L		0 1 -A00-17	
Nitrite (as N)	0.041		0.010	mg/L		02-AUG-17	R3791243
Oil & Grease - Gravimetric						00 4110 15	
Oil and Grease	<5.0		5.0	mg/L		09-AUG-17	R3793951
Phenol (4AAP) Phenols (4AAP)	0.0011		0.0010	mg/L		03-AUG-17	R3791173
Phosphorus, Total	-						
Phosphorus (P)-Total	0.793		0.010	mg/L		03-AUG-17	R3790464
Sulfate in Water by IC Sulfate (SO4)	8.44		0.30	mg/L		02-AUG-17	R3791243
Total Metals in Water by CRC ICPMS	0.44		0.30	IIIg/L		02-400-17	K3791243
Aluminum (Al)-Total	0.0269		0.0030	mg/L	04-AUG-17	04-AUG-17	R3792612
Arsenic (As)-Total	0.00088		0.00010	mg/L	04-AUG-17	04-AUG-17	R3792612
Cadmium (Cd)-Total	0.0000588		0.0000050	mg/L	04-AUG-17	04-AUG-17	R3792612
Calcium (Ca)-Total	77.3		0.050	mg/L	04-AUG-17	04-AUG-17	R3792612
Chromium (Cr)-Total Cobalt (Co)-Total	0.00030 0.00146		0.00010 0.00010	mg/L mg/L	04-AUG-17 04-AUG-17	04-AUG-17 04-AUG-17	R3792612 R3792612
Copper (Cu)-Total	0.00146		0.00010	mg/L	04-AUG-17 04-AUG-17	04-AUG-17 04-AUG-17	R3792612
Iron (Fe)-Total	0.071		0.0000	mg/L	04-AUG-17	04-AUG-17	R3792612
Lead (Pb)-Total	0.000095		0.000050	mg/L	04-AUG-17	04-AUG-17	R3792612
Magnesium (Mg)-Total	7.08		0.0050	mg/L	04-AUG-17	04-AUG-17	R3792612
Manganese (Mn)-Total	0.121		0.00010	mg/L	04-AUG-17	04-AUG-17	R3792612
Nickel (Ni)-Total	0.00658		0.00050	mg/L	04-AUG-17	04-AUG-17	R3792612
Potassium (K)-Total	8.96		0.050	mg/L	04-AUG-17	04-AUG-17	R3792612
Sodium (Na)-Total Zinc (Zn)-Total	50.9 0.0084		0.050 0.0030	mg/L mg/L	04-AUG-17 04-AUG-17	04-AUG-17 04-AUG-17	R3792612 R3792612
Total Organic Carbon by Combustion	0.0004		0.0000	9, -	3.7.00 17	0.7.00 17	
Total Organic Carbon	17.0		0.50	mg/L		04-AUG-17	R3793537
Total Suspended Solids	22.2			w = == D		00 4110 17	D070005
Total Suspended Solids pH	29.0		5.0	mg/L		08-AUG-17	R3793625
pH	7.86		0.10	pH units		02-AUG-17	R3790113

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

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Reference Information

Sample Parameter Qualifier Key:

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
HTC	Hardness was calculated from Total Ca and/or Mg concentrations and may be biased high (dissolved Ca/Mg results unavailable).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
PEHR	Parameter Exceeded Recommended Holding Time On Receipt: Proceed With Analysis As Requested.

Test Method References:

Matrix	Test Description	Method Reference**								
\Mator	Alkalinity Carbonato	CALCULATION								
_	Matrix Nater									

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by carbonate is calculated and reported as mg CO3 2-/L.

ALK-HCO3HCO3-CALC- Water Alkalinity, Bicarbonate CALCULATION

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by bicarbonate is calculated and reported as mg HCO3-/L

ALK-OHOH-CALC-WP Water Alkalinity, Hydroxide CALCULATION

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by hydroxide is calculated and reported as mg OH-/L.

ALK-TITR-WP Water Alkalinity, Total (as CaCO3) APHA 2320B

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. Total alkalinity is determined by titration with a strong standard mineral acid to the successive HCO3- and H2CO3 endpoints indicated electrometrically.

BOD-CBOD-WP Water Carbonaceous BOD APHA 5210 B

Samples are diluted and seeded, have TCMP added to inhibit nitrogenous demands, and then are incubated in airtight bottles at 20°C for 5 days. Dissolved oxygen is measured initially and after incubation, and results are computed from the difference between initial and final DO.

BOD-MAN-WP Water Biochemical Oxygen Demand (BOD) APHA 5210 B

Samples are diluted and seeded and then incubated in airtight bottles at 20°C for 5 days. Dissolved oxygen is measured initially and after incubation, and results are computed from the difference between initial and final DO.

BTEXS+F1-HSMS-WP Water BTX plus F1 by GCMS EPA 8260C / EPA 5021A

The water sample, with added reagents, is heated in a sealed vial to equilibrium. The headspace from the vial is transfered into a gas chromatograph. Target compound concentrations are measured using mass spectrometry detection.

C-TOC-HTC-WP Water Total Organic Carbon by Combustion APHA 5310 B-WP

Sample is acidified and purged to remove inorganic carbon, then injected into a heated reaction chamber where organic carbon is oxidized to CO2 which is then transported in the carrier gas stream and measured via a non-dispersive infrared analyzer.

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

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

EC-WP Water Conductivity APHA 2510B

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.

F1-F4-CALC-WP Water CCME Total Hydrocarbons CCME CWS-PHC, Pub #1310, Dec 2001-L

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.

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Reference Information

Test Method References:

ALS Test Code Matrix Method Reference** **Test Description**

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-FID-WP Water CCME PHC F2-F4 in Water **EPA 3511**

Petroleum hydrocarbons in water are determined by liquid-liquid micro-scale solvent extraction using a reciprocal shaker extraction apparatus prior to capillary column gas chromatography with flame ionization detection (GC-FID) analysis.

Fecal coliforms, 1:10 dilution by QT97 Water APHA 9223B QT97

Analysis is carried out using procedures adapted from APHA 9223 "Enzyme Substrate Coliform Test". Fecal (thermotolerant) coliform bacteria are determined by mixing a 1:10 dilution of sample with a product containing hydrolyzable substrates and sealing in a 97-well packet. The packet is incubated at 44.5 – 0.2°C for 18 hours and then the number of wells exhibiting positive responses are counted. The final results are obtained by comparing the number of positive responses to a probability table.

HARDNESS-CALC-WP Water Hardness Calculated **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.

EPA245.7 V2.0 HG-T-CVAF-WP Water Mercury Total

Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.

MET-T-CCMS-WP Water Total Metals in Water by CRC ICPMS EPA 200.2/6020A (mod.)

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

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

NH3-COL-WP APHA 4500 NH3 F Water Ammonia by colour

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-N-WP Water Nitrite in Water by IC EPA 300.1 (mod)

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

NO3-IC-N-WP Water Nitrate in Water by IC EPA 300.1 (mod)

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

OG-GRAV-WP Water Oil & Grease - Gravimetric EPA 1664 (modified)

Water samples are acidified and extracted with hexane; the hexane extract is collected in a pre-weighed vial. The solvent is evaporated and Total Oil &

Grease is determined from the weight of the residue in the vial.

P-T-COL-WP Phosphorus, Total APHA 4500 P PHOSPHORUS

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorus is determined colourimetrically after persulphate digestion of the sample.

PAH, PANH-WP 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 **APHA 4500H** Water

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.

L1968154 CONTD....

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Reference Information

Test Method References:

ALS Test Code Matrix Method Reference** **Test Description** SO4-IC-N-WP Water Sulfate in Water by IC EPA 300.1 (mod) Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. SOLIDS-TOTSUS-WP Water Total Suspended Solids APHA 2540 D (modified) Total suspended solids in aquesous matrices is determined gravimetrically after drying the residue at 103 105°C. XYLENES-SUM-CALC-Sum of Xylene Isomer Concentrations CALCULATED RESULT WP

Total xylenes represents the sum of o-xylene and m&p-xylene.

** 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:

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 wwt - 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.

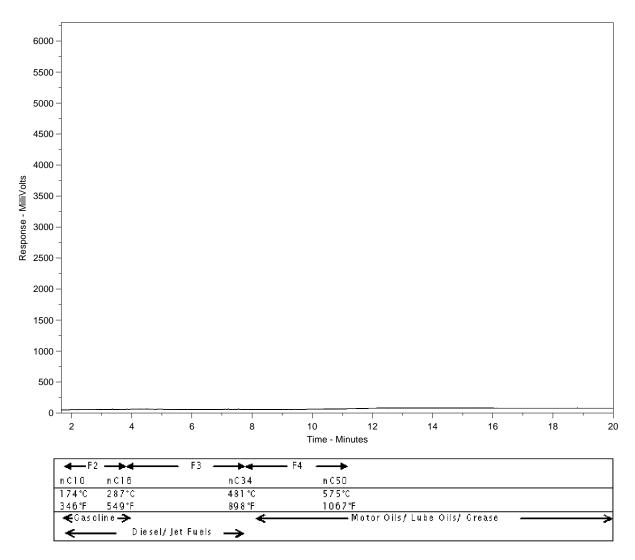
Test results reported relate only to the samples as received by the laboratory. UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

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: L1968154-1 Client Sample ID: COR-7



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.

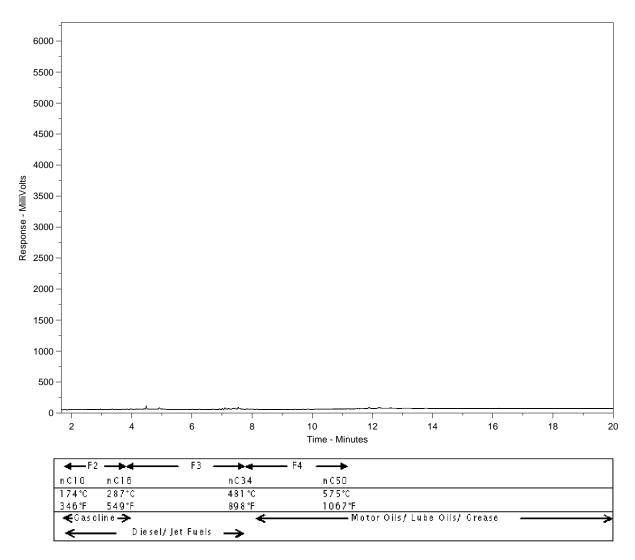
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: L1968154-2 Client Sample ID: COR-6



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.



L1968154-COFC

Field Log

Name of Sampler(s):
Date of Sampling: July 25/17
Time of Sampling: 11. 16
Monitoring Station Number:
GPS Coordinates: N 64 . 09,38.6" W 83 . 11,33.6"
Weather Conditions: Surene Wardy for South.
Samples: 500 mL or 1 L BOD 1 L Routine 250 mL Metals + Pres 40 mL Glass Mercury Vial + Pres 250 mL Amber Nutrients + Pres 250 mL Amber Phenols + Pres 125 mL Sterile Bacteria Bottle 2 x 250 mL Amber Oil & Grease + Pres Other Notes: (any unusual conditions, any deviation from standard procedures, reason sample was not taken, etc.)



Field Log	
Name of Sampler(s):	
Date of Sampling: July 15/17	
Time of Sampling:	
Monitoring Station Number:	
GPS Coordinates: N	
Weather Conditions:	
Samples: Soo mL or 14 BOD	



L 1906 154-COFC

Field Log

Name of Sampler(s):	7
Date of Sampling: July 2	5/17
Time of Sampling: 10149 am	
Monitoring Station Number:	7
GPS Coordinates: N'	
Weather Conditions: Sammy	· Wendy
Samples: 500 mL or 1 L BOD 1 L Routine 250 mL Metals + Pres 40 mL Glass Mercury Vial + Pres 250 mL Amber Nutrients + Pres 250 mL Amber Phenols + Pres 125 mL Sterile Bacteria Bottle 2 x 250 mL Amber Oil & Grease + Pres	1 L Amber PAH + Pres 3 x 40 mL BTEX, F1 Vials + Pres 2 x 60 mL Amber F2-F4 Vials + Pres Other:
Other Notes: (any unusual conditions, any desample was not taken, etc.).	eviation from standard procedures, reason



Field Log

Name of Sampler(s): 6
Date of Sampling: July 25/17
Time of Sampling:
Monitoring Station Number:
GPS Coordinates: N 64 ° 09 ' 49" W 83 ° 0// ' /3"
Weather Conditions: Sandy Windy A South
Samples:
500 mL or 1 L BOD 1 L Amber PAH + Pres
1 L Routine 3 x 40 mL BTEX, F1 Vials + Pres
250 mL Metals + Pres 2 x 60 mL Amber F2-F4 Vials + Pres
40 mL Glass Mercury Vial + Pres
250 mL Amber Nutrients + Pres Other:
250 mL Amber Phenols + Pres
125 mL Sterile Bacteria Bottle
2 x 250 mL Amber Oil & Grease + Pres
Other Notes: (any unusual conditions, any deviation from standard procedures, reason sample was not taken, etc.)



7 Field Log
Name of Sampler(s):
Date of Sampling: holy 25/176
Time of Sampling: 1/0 7
Monitoring Station Number: Cor 6
GPS Coordinates: N 64 . 9 . 40" W 83 . ((, 38 "
Weather Conditions: Same Winds
Samples:
500 mL or 1 L BOD 1 L Routine 250 mL Metals + Pres 40 mL Glass Mercury Vial + Pres 250 mL Amber Nutrients + Pres 250 mL Amber Phenols + Pres 125 mL Sterile Bacteria Bottle 2 x 250 mL Amber Oil & Grease + Près Other Notes: (any unusual conditions, any deviation from standard procedures, reason sample was not taken, etc.)
reason

ALS Environmental

Chain of Custody (COC) / Analytical Request Form

L1968154-COFC

coc Number: 14 - 503465

96 FUY of ___

Canada Toll Free: 1 800 668 9878

Report To		Report Format	1 Distribution		<u> </u>		Select Se	rvice Leve	el Below (Rush Turna	round Tim	e (TAT) is n	ot available	or all tests)	
Company: HAMLS. Tot Cord Herbor	Select Report Fo	rmat: PC	لبغل السا	EDD (DIGITAL)	R		Regular (S	tandard TA	T if receiv	ved by 3pm)					
Contact: Leonie PAMSALIE	Quality Control (C	QC) Report with Rep	ont ∏√ Yes	No 🗌 No	Р		Priority (2	4 business	days if re	ceived by 3	pm)				
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Address: POBOX 30 Coral Herbow Ny Vocaco	Select Distributio	n:	MAIL MAIL [FAX	E2	<u> </u>	Same day	or weeken	d emerger	ncy if receiv	ed by 10a	am – contac	t ALS for su	charge.	
Phonar -	Email 1 or Fax				Speci	fy Date	Require	d for E2	E or P:						
(867) 925 8867	Email 2									Analysi	s Reque	est			
Invoice To Same as Report To Yes T No		Invoice Dis	stribution			1	ndicate Fi	tered (F), F	reserved	(P) or Filter	ed and Pre	eserved (F/	P) below		
Copy of Invoice with Report PYes 1" No	Select Invoice Dis	stribution:	EMAIL MAII	L FAX						7			5/		
Company: Coral Harbour Monitoring Program	Email 1 or Fax	Munch	D ginig	· Com				_	م	V 19.	9	9	₹ °		7
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EFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION.

WHITE - LABORATORY COPY

YELLOW - CLIENT COP

FM-0326e v09 Frant/04 January 2014



Hamlet of Coral Harbour ATTN: LEONIE PAMEOLIK

PO Box 30

Coral Harbour MB XOC OCO

Date Received: 31-AUG-17

Report Date: 12-SEP-17 13:56 (MT)

Version: FINAL

Client Phone: 867-925-8970

Certificate of Analysis

Lab Work Order #: L1984280
Project P.O. #: NOT SUBMITTED

Job Reference: WASTEWATER SAMPLING

C of C Numbers: Legal Site Desc:

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Chemistry Laboratory Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721

ALS CANADA LTD Part of the ALS Group An ALS Limited Company



L1984280 CONTD.... PAGE 2 of 11 Version: FINAL

Sample Details/Parameters	Result	Qualifier* D.L.	Units	Extracted	Analyzed	Batch
L1984280-1 COR 7						
Sampled By: CODEY on 29-AUG-17 @ 12:30						
Matrix:						
BTEX plus F1-F4						
BTX plus F1 by GCMS						
Benzene Benzene	<0.00050	0.00050	mg/L		06-SEP-17	R3818931
Toluene	<0.0010	0.0010	mg/L		06-SEP-17	R3818931
Ethyl benzene	<0.00050	0.00050	_		06-SEP-17	R3818931
o-Xylene	<0.00050	0.00050	mg/L		06-SEP-17	R3818931
m+p-Xylenes	<0.00040	0.00040	mg/L		06-SEP-17	R3818931
F1 (C6-C10)	<0.10	0.10	mg/L		06-SEP-17	R3818931
Surrogate: 4-Bromofluorobenzene (SS)	92.6	70-130	%		06-SEP-17	R3818931
CCME PHC F2-F4 in Water						
F2 (C10-C16)	<0.10	0.10	mg/L	07-SEP-17	07-SEP-17	R3822936
F3 (C16-C34)	0.33	0.25	mg/L	07-SEP-17	07-SEP-17	R3822936
F4 (C34-C50)	<0.25	0.25	mg/L	07-SEP-17	07-SEP-17	R3822936
Surrogate: 2-Bromobenzotrifluoride	96.3	60-140	%	07-SEP-17	07-SEP-17	R3822936
CCME Total Hydrocarbons F1-BTEX	0.40	2.45			10.000.17	
	<0.10	0.10	mg/L		12-SEP-17	
F2-Naphth F3-PAH	<0.10 0.33	0.10 0.25	mg/L mg/L		12-SEP-17 12-SEP-17	
Total Hydrocarbons (C6-C50)	<0.38	0.25	mg/L		12-SEP-17 12-SEP-17	
Sum of Xylene Isomer Concentrations	<0.50	0.30	IIIg/L		12-3L1 -17	
Xylenes (Total)	<0.00064	0.00064	mg/L		07-SEP-17	
7,9101100 (10141)	40.00001	0.00001	9/ =		0. 01	
Polyaromatic Hydrocarbons (PAHs)						
1-Methyl Naphthalene	0.000033	0.000020) mg/L	08-SEP-17	11-SEP-17	R3824212
2-Methyl Naphthalene	0.000022	0.000020) mg/L	08-SEP-17	11-SEP-17	R3824212
Acenaphthene	<0.000020	0.000020) mg/L	08-SEP-17	11-SEP-17	R3824212
Acenaphthylene	<0.000020	0.000020) mg/L	08-SEP-17	11-SEP-17	R3824212
Anthracene	<0.000010	0.000010		08-SEP-17	11-SEP-17	R3824212
Acridine	<0.000020	0.000020		08-SEP-17	11-SEP-17	R3824212
Benzo(a)anthracene	<0.000010	0.000010		08-SEP-17	11-SEP-17	R3824212
Benzo(a)pyrene	<0.000050	0.000005		08-SEP-17	11-SEP-17	R3824212
Benzo(b&j)fluoranthene	<0.000010	0.000010		08-SEP-17	11-SEP-17	R3824212
Benzo(g,h,i)perylene	<0.000020	0.000020		08-SEP-17	11-SEP-17	R3824212
Benzo(k)fluoranthene	<0.000010	0.000010	_	08-SEP-17	11-SEP-17	R3824212
Chrysene	<0.000020	0.000020		08-SEP-17	11-SEP-17	R3824212
Dibenzo(a,h)anthracene Fluoranthene	<0.000050 <0.00020	0.000005 0.000020		08-SEP-17 08-SEP-17	11-SEP-17 11-SEP-17	R3824212 R3824212
Fluorene	<0.000020	0.000020		08-SEP-17	11-SEP-17	R3824212
Indeno(1,2,3-cd)pyrene	<0.000020	0.000020		08-SEP-17	11-SEP-17	R3824212
Naphthalene	<0.000010	0.000010		08-SEP-17	11-SEP-17	R3824212
Phenanthrene	<0.000050	0.000050		08-SEP-17	11-SEP-17	R3824212
Pyrene	<0.000010	0.000010		08-SEP-17	11-SEP-17	R3824212
Quinoline	<0.000020	0.000020	_	08-SEP-17	11-SEP-17	R3824212
B(a)P Total Potency Equivalent	<0.000030	0.000030	_	08-SEP-17	11-SEP-17	R3824212
Surrogate: Acenaphthene d10	86.0	40-130	%	08-SEP-17	11-SEP-17	R3824212
Surrogate: Acridine d9	114.7	40-130	%	08-SEP-17	11-SEP-17	R3824212
Surrogate: Chrysene d12	71.5	40-130	%	08-SEP-17	11-SEP-17	R3824212
Surrogate: Naphthalene d8	82.6	40-130	%	08-SEP-17	11-SEP-17	R3824212
Surrogate: Phenanthrene d10	91.4	40-130	%	08-SEP-17	11-SEP-17	R3824212
Nunavut WW Group 1						
Alkalinity, Bicarbonate					04.0== :=	
Bicarbonate (HCO3)	372	1.2	mg/L		01-SEP-17	
Alkalinity, Carbonate						

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

L1984280 CONTD.... PAGE 3 of 11 Version: FINAL

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1984280-1 COR 7							
L1984280-1 COR 7 Sampled By: CODEY on 29-AUG-17 @ 12:30							
Matrix:							
Alkalinity, Carbonate Carbonate (CO3)	<0.60		0.60	mg/L		01-SEP-17	
Alkalinity, Hydroxide	0.04		0.04			04.050.47	
Hydroxide (OH)	<0.34		0.34	mg/L		01-SEP-17	
Alkalinity, Total (as CaCO3) Alkalinity, Total (as CaCO3)	305		1.0	mg/L		31-AUG-17	R3816718
Ammonia by colour Ammonia, Total (as N)	0.128		0.010	mg/L		08-SEP-17	R3822830
Biochemical Oxygen Demand (BOD) Biochemical Oxygen Demand	-20	BODQ	20	ma/l		31-AUG-17	D2920E02
Carbonaceous BOD	<20	BODQ	20	mg/L		31-AUG-17	R3820502
BOD Carbonaceous Chloride in Water by IC	<20	BODQ	20	mg/L		31-AUG-17	R3820502
Chloride (CI)	10.1		1.0	mg/L		31-AUG-17	R3818525
Conductivity Conductivity	1200		1.0	umhos/cm		31-AUG-17	R3816718
Fecal coliforms, 1:10 dilution by QT97 Fecal Coliforms	90	PEHR	10	MPN/100mL		31-AUG-17	R3816611
Hardness Calculated							13010011
Hardness (as CaCO3) Mercury Total	900	HTC	0.20	mg/L		06-SEP-17	
Mercury (Hg)-Total	0.0000186		0.0000050	mg/L	01-SEP-17	05-SEP-17	R3820950
Nitrate in Water by IC Nitrate (as N)	0.056		0.040	mg/L		31-AUG-17	R3818525
Nitrate+Nitrite Nitrate and Nitrite as N	<0.070		0.070	mg/L		05-SEP-17	
Nitrite in Water by IC		DIM				04 4110 47	Dag / 2000
Nitrite (as N) Oil & Grease - Gravimetric	<0.020	DLM	0.020	mg/L		31-AUG-17	R3818525
Oil and Grease	<5.0		5.0	mg/L		11-SEP-17	R3823430
Phenol (4AAP) Phenols (4AAP)	0.0014		0.0010	mg/L		05-SEP-17	R3820191
Phosphorus, Total Phosphorus (P)-Total	0.660		0.050	ma/l		01-SEP-17	D2046752
Sulfate in Water by IC	0.660		0.050	mg/L		01-SEP-17	R3816753
Sulfate (SO4)	526		0.60	mg/L		31-AUG-17	R3818525
Total Metals in Water by CRC ICPMS	5_5		5.00				
Aluminum (Al)-Total	0.288		0.0030	mg/L	01-SEP-17	05-SEP-17	R3820268
Arsenic (As)-Total	0.00107		0.00010	mg/L	01-SEP-17	05-SEP-17	R3820268
Cadmium (Cd)-Total	0.0000915		0.0000050	mg/L	01-SEP-17	05-SEP-17	R3820268
Calcium (Ca)-Total	330		0.050	mg/L	01-SEP-17	05-SEP-17	R3820268
Chromium (Cr)-Total	0.00136		0.00010	mg/L	01-SEP-17	05-SEP-17	R3820268
Cobalt (Co)-Total	0.00058		0.00010	mg/L	01-SEP-17	05-SEP-17	R3820268
Copper (Cu)-Total	0.00594		0.00050	mg/L	01-SEP-17	05-SEP-17	R3820268
Iron (Fe)-Total	6.01		0.010	mg/L	01-SEP-17	05-SEP-17	R3820268
Lead (Pb)-Total	0.00145		0.000050	mg/L	01-SEP-17	05-SEP-17	R3820268
Magnesium (Mg)-Total	18.5		0.0050	mg/L	01-SEP-17	05-SEP-17	R3820268
Manganese (Mn)-Total	0.418		0.00010	mg/L	01-SEP-17	05-SEP-17	R3820268
Nickel (Ni)-Total	0.00390		0.00050	mg/L	01-SEP-17	05-SEP-17	R3820268
Potassium (K)-Total	13.0		0.050	mg/L	01-SEP-17	05-SEP-17	R3820268
Sodium (Na)-Total	22.8		0.050	mg/L	01-SEP-17	05-SEP-17	R3820268
Zinc (Zn)-Total	0.0591		0.0030	mg/L	01-SEP-17	05-SEP-17	R3820268
Total Organic Carbon by Combustion							

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

L1984280 CONTD.... PAGE 4 of 11 Version: FINAL

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1984280-1 COR 7							
Sampled By: CODEY on 29-AUG-17 @ 12:30							
' '							
Matrix:							
Total Organic Carbon by Combustion Total Organic Carbon	21.0		0.50	mg/L		05-SEP-17	R3820396
Total Suspended Solids	21.0		0.00	g/ =		00 02: 17	110020000
Total Suspended Solids	76		10	mg/L		05-SEP-17	R3820572
pH							
рН	7.37		0.10	pH units		31-AUG-17	R3816718
L1984280-2 COR 6							
Sampled By: CODEY on 29-AUG-17 @ 12:30							
Matrix:							
BTEX plus F1-F4							
BTX plus F1 by GCMS							
Benzene	<0.00050		0.00050	mg/L		02-SEP-17	R3818931
Toluene	<0.0010		0.0010	mg/L		02-SEP-17	R3818931
Ethyl benzene	<0.00050		0.00050	mg/L		02-SEP-17	R3818931
o-Xylene	<0.00050		0.00050	mg/L		02-SEP-17	R3818931
m+p-Xylenes	<0.00040		0.00040	mg/L		02-SEP-17	R3818931
F1 (C6-C10)	<0.10		0.10	mg/L		02-SEP-17	R3818931
Surrogate: 4-Bromofluorobenzene (SS)	90.6		70-130	%		02-SEP-17	R3818931
CCME PHC F2-F4 in Water							
F2 (C10-C16)	<0.10		0.10	mg/L	07-SEP-17	07-SEP-17	R3822936
F3 (C16-C34)	0.45		0.25	mg/L	07-SEP-17	07-SEP-17	R3822936
F4 (C34-C50)	<0.25		0.25	mg/L	07-SEP-17	07-SEP-17	R3822936
Surrogate: 2-Bromobenzotrifluoride	101.7		60-140	%	07-SEP-17	07-SEP-17	R3822936
CCME Total Hydrocarbons							
F1-BTEX	<0.10		0.10	mg/L		12-SEP-17	
F2-Naphth	<0.10		0.10	mg/L		12-SEP-17	
F3-PAH	0.45		0.25	mg/L		12-SEP-17	
Total Hydrocarbons (C6-C50)	0.45		0.38	mg/L		12-SEP-17	
Sum of Xylene Isomer Concentrations	0.0004		0.00004			05 05D 47	
Xylenes (Total)	<0.00064		0.00064	mg/L		05-SEP-17	
Polyaromatic Hydrocarbons (PAHs)							
1-Methyl Naphthalene	<0.000020		0.000020	mg/L	08-SEP-17	11-SEP-17	R3824212
2-Methyl Naphthalene	<0.000020		0.000020	mg/L	08-SEP-17	11-SEP-17	R3824212
Acenaphthene	<0.000020		0.000020	mg/L	08-SEP-17	11-SEP-17	R3824212
Acenaphthylene	<0.000020		0.000020	mg/L	08-SEP-17	11-SEP-17	R3824212
Anthracene	<0.000010		0.000010	mg/L	08-SEP-17	11-SEP-17	R3824212
Acridine	<0.000020		0.000020	mg/L	08-SEP-17	11-SEP-17	R3824212
Benzo(a)anthracene	<0.000010		0.000010	mg/L	08-SEP-17	11-SEP-17	R3824212
Benzo(a)pyrene	<0.0000050		0.0000050	mg/L	08-SEP-17	11-SEP-17	R3824212
Benzo(b&j)fluoranthene	<0.000010		0.000010	mg/L	08-SEP-17	11-SEP-17	R3824212
Benzo(g,h,i)perylene	<0.000020		0.000020	mg/L	08-SEP-17	11-SEP-17	R3824212
Benzo(k)fluoranthene	<0.000010		0.000010	mg/L	08-SEP-17	11-SEP-17	R3824212
Chrysene	<0.000020		0.000020	mg/L	08-SEP-17	11-SEP-17	R3824212
Dibenzo(a,h)anthracene	<0.0000050		0.0000050	mg/L	08-SEP-17	11-SEP-17	R3824212
Fluoranthene	<0.000020		0.000020	mg/L	08-SEP-17	11-SEP-17	R3824212
Fluorene	<0.000020		0.000020	mg/L	08-SEP-17	11-SEP-17	R3824212
Indeno(1,2,3-cd)pyrene	<0.000010		0.000010	mg/L	08-SEP-17	11-SEP-17	R3824212
Naphthalene	<0.000050		0.000050	mg/L	08-SEP-17	11-SEP-17	R3824212
Phenanthrene	<0.000050		0.000050	mg/L	08-SEP-17	11-SEP-17	R3824212
Pyrene	<0.000010		0.000010	mg/L	08-SEP-17	11-SEP-17	R3824212
Quinoline	<0.000020		0.000020	mg/L	08-SEP-17	11-SEP-17	R3824212

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

L1984280 CONTD.... PAGE 5 of 11 Version: FINAL

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1984280-2 COR 6							
Sampled By: CODEY on 29-AUG-17 @ 12:30							
Matrix:							
Polyaromatic Hydrocarbons (PAHs) B(a)P Total Potency Equivalent	<0.000030		0.000030	mg/L	08-SEP-17	11-SEP-17	R3824212
Surrogate: Acenaphthene d10	103.5		40-130	%	08-SEP-17	11-SEP-17	R3824212
Surrogate: Acridine d9	109.4		40-130	%	08-SEP-17	11-SEP-17	R3824212
Surrogate: Chrysene d12	73.8		40-130	%	08-SEP-17	11-SEP-17	R3824212
Surrogate: Naphthalene d8	80.9		40-130	%	08-SEP-17	11-SEP-17	R3824212
Surrogate: Phenanthrene d10	89.3		40-130	%	08-SEP-17	11-SEP-17	R3824212
Nunavut WW Group 1							
Alkalinity, Bicarbonate Bicarbonate (HCO3)	332		1.2	mg/L		01-SEP-17	
Alkalinity, Carbonate Carbonate (CO3)	<0.60		0.60	mg/L		01-SEP-17	
Alkalinity, Hydroxide Hydroxide (OH)	<0.34		0.34	mg/L		01-SEP-17	
Alkalinity, Total (as CaCO3) Alkalinity, Total (as CaCO3)	272		1.0	mg/L		31-AUG-17	R3816718
Ammonia by colour Ammonia, Total (as N)	0.156		0.010	mg/L		08-SEP-17	R3822830
Biochemical Oxygen Demand (BOD) Biochemical Oxygen Demand	13.3	BODQ	2.0	mg/L		31-AUG-17	R3820502
Carbonaceous BOD BOD Carbonaceous		BODQ					
Chloride in Water by IC	8.1	BODQ	2.0	mg/L		31-AUG-17	R3820502
Chloride (Cl) Conductivity	88.2		1.0	mg/L		31-AUG-17	R3818525
Conductivity	1010		1.0	umhos/cm		31-AUG-17	R3816718
Fecal coliforms, 1:10 dilution by QT97 Fecal Coliforms	1520	PEHR	10	MPN/100mL		31-AUG-17	R3816611
Hardness Calculated Hardness (as CaCO3)	428	HTC	0.20	mg/L		06-SEP-17	
Mercury Total Mercury (Hg)-Total	0.0000118		0.0000050	mg/L	01-SEP-17	05-SEP-17	R3820950
Nitrate in Water by IC Nitrate (as N)	<0.040	DLM	0.040	mg/L		31-AUG-17	R3818525
Nitrate+Nitrite Nitrate and Nitrite as N	<0.070		0.070	mg/L		05-SEP-17	
Nitrite in Water by IC Nitrite (as N)	<0.020	DLM	0.020	mg/L		31-AUG-17	R3818525
Oil & Grease - Gravimetric Oil and Grease	<5.0		5.0	mg/L		11-SEP-17	R3823430
Phenol (4AAP) Phenols (4AAP)	0.0012		0.0010	mg/L		05-SEP-17	R3820191
Phosphorus, Total Phosphorus (P)-Total			0.050			01-SEP-17	
Sulfate in Water by IC	0.381			mg/L			R3816753
Sulfate (SO4)	213		0.60	mg/L		31-AUG-17	R3818525
Total Metals in Water by CRC ICPMS Aluminum (Al)-Total	0.0727		0.0030	mg/L	01-SEP-17	05-SEP-17	R3820268
Arsenic (As)-Total	0.00192		0.0030	mg/L	01-SEP-17	05-SEP-17	R3820268
Cadmium (Cd)-Total	0.000070		0.00010	mg/L	01-SEP-17	05-SEP-17	R3820268
Calcium (Ca)-Total	126		0.050	mg/L	01-SEP-17	05-SEP-17	R3820268
Chromium (Cr)-Total	0.00072		0.00010	mg/L	01-SEP-17	05-SEP-17	R3820268
Cobalt (Co)-Total	0.00027		0.00010	mg/L	01-SEP-17	05-SEP-17	R3820268

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

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1984280-2 COR 6							
Sampled By: CODEY on 29-AUG-17 @ 12:30							
Matrix:							
Total Metals in Water by CRC ICPMS							
Copper (Cu)-Total	0.00190		0.00050	mg/L	01-SEP-17	05-SEP-17	R3820268
Iron (Fe)-Total	1.19		0.010	mg/L	01-SEP-17	05-SEP-17	R3820268
Lead (Pb)-Total	0.000518		0.000050	mg/L	01-SEP-17	05-SEP-17	R3820268
Magnesium (Mg)-Total	27.4		0.0050	mg/L	01-SEP-17	05-SEP-17	R3820268
Manganese (Mn)-Total Nickel (Ni)-Total	0.131 0.00271		0.00010 0.00050	mg/L	01-SEP-17 01-SEP-17	05-SEP-17 05-SEP-17	R3820268 R3820268
Potassium (K)-Total	31.6		0.00050	mg/L mg/L	01-SEP-17 01-SEP-17	05-SEP-17 05-SEP-17	R3820268
Sodium (Na)-Total	84.1		0.050	mg/L	01-SEP-17	05-SEP-17	R3820268
Zinc (Zn)-Total	0.0033		0.0030	mg/L	01-SEP-17	05-SEP-17	R3820268
Total Organic Carbon by Combustion							
Total Organic Carbon	41.2		0.50	mg/L		05-SEP-17	R3820396
Total Suspended Solids							
Total Suspended Solids	26		10	mg/L		05-SEP-17	R3820572
pH pH	7.96		0.10	pH units		31-AUG-17	R3816718
	7.90		0.10	priunis		31-400-17	1,3010/10
L1984280-3 COR 3							
Sampled By: CODEY on 29-AUG-17 @ 12:30 Matrix:							
Matrix.							
Nunavut WW Group 1							
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	317		1.2	mg/L		01-SEP-17	
Alkalinity, Carbonate Carbonate (CO3)	<0.60		0.60	mg/L		01-SEP-17	
Alkalinity, Hydroxide Hydroxide (OH)	<0.34		0.34	mg/L		01-SEP-17	
Alkalinity, Total (as CaCO3) Alkalinity, Total (as CaCO3)	260		1.0	mg/L		31-AUG-17	R3816718
Ammonia by colour Ammonia, Total (as N)	10.0		1.0	mg/L		08-SEP-17	R3822830
Biochemical Oxygen Demand (BOD) Biochemical Oxygen Demand	67	BODQ	20	mg/L		31-AUG-17	R3820502
Carbonaceous BOD							
BOD Carbonaceous	44	BODQ	20	mg/L		31-AUG-17	R3820502
Chloride in Water by IC Chloride (CI)	71.3		0.50	mg/L		31-AUG-17	R3818525
Conductivity Conductivity	689		1.0	umhos/cm		31-AUG-17	R3816718
Fecal coliforms, 1:10 dilution by QT97 Fecal Coliforms	1720	PEHR	10	MPN/100mL		31-AUG-17	R3816611
Hardness Calculated Hardness (as CaCO3)	172	нтс	0.20	mg/L		06-SEP-17	
Mercury Total Mercury (Hg)-Total	<0.000025		0.000025	mg/L	01-SEP-17	05-SEP-17	R3820950
Nitrate in Water by IC Nitrate (as N)	<0.020		0.020	mg/L		31-AUG-17	R3818525
Nitrate+Nitrite Nitrate and Nitrite as N	<0.070		0.070	mg/L		05-SEP-17	
Nitrite in Water by IC Nitrite (as N)	0.060		0.010	mg/L		31-AUG-17	R3818525
Oil & Grease - Gravimetric	0.000		0.010	1119/2		01 A00-17	110010020
Oil and Grease	<5.0		5.0	mg/L		11-SEP-17	R3823430

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

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1984280-3 COR 3							
Sampled By: CODEY on 29-AUG-17 @ 12:30							
Matrix:							
Phenol (4AAP)							
Phenols (4AAP)	0.0032		0.0010	mg/L		05-SEP-17	R3820191
Phosphorus, Total							
Phosphorus (P)-Total	7.10		0.25	mg/L		01-SEP-17	R3816753
Sulfate in Water by IC	45.4		0.00			31-AUG-17	D2040525
Sulfate (SO4) Total Metals in Water by CRC ICPMS	15.4		0.30	mg/L		31-AUG-17	R3818525
Aluminum (Al)-Total	0.122		0.0030	mg/L	01-SEP-17	05-SEP-17	R3820268
Arsenic (As)-Total	0.00094		0.00010	mg/L	01-SEP-17	05-SEP-17	R3820268
Cadmium (Cd)-Total	0.0000154		0.0000050	mg/L	01-SEP-17	05-SEP-17	R3820268
Calcium (Ca)-Total	58.3		0.050	mg/L	01-SEP-17	05-SEP-17	R3820268
Chromium (Cr)-Total	0.00043		0.00010	mg/L	01-SEP-17	05-SEP-17	R3820268
Cobalt (Co)-Total	0.00060		0.00010	mg/L	01-SEP-17	05-SEP-17	R3820268
Copper (Cu)-Total	0.0110		0.00050	mg/L	01-SEP-17	05-SEP-17	R3820268
Iron (Fe)-Total Lead (Pb)-Total	0.544 0.000404		0.010 0.000050	mg/L	01-SEP-17 01-SEP-17	05-SEP-17 05-SEP-17	R3820268 R3820268
Magnesium (Mg)-Total	6.47		0.000050	mg/L mg/L	01-SEP-17 01-SEP-17	05-SEP-17 05-SEP-17	R3820268 R3820268
Manganese (Mn)-Total	0.0700		0.0030	mg/L	01-SEP-17	05-SEP-17	R3820268
Nickel (Ni)-Total	0.00376		0.00050	mg/L	01-SEP-17	05-SEP-17	R3820268
Potassium (K)-Total	29.0		0.050	mg/L	01-SEP-17	05-SEP-17	R3820268
Sodium (Na)-Total	72.8		0.050	mg/L	01-SEP-17	05-SEP-17	R3820268
Zinc (Zn)-Total	0.0132		0.0030	mg/L	01-SEP-17	05-SEP-17	R3820268
Total Organic Carbon by Combustion							
Total Organic Carbon	82.8		5.0	mg/L		05-SEP-17	R3820396
Total Suspended Solids Total Suspended Solids	208		20	mg/L		05-SEP-17	R3820572
pH	200		20	mg/L		05 021 17	13020372
pH	7.56		0.10	pH units		31-AUG-17	R3816718
L1984280-4 COR 4							
Sampled By: CODEY on 29-AUG-17 @ 12:30							
Matrix:							
Nunavut WW Group 1							
Alkalinity, Bicarbonate Bicarbonate (HCO3)	364		1.2	mg/L		01-SEP-17	
Alkalinity, Carbonate	304		1.2	illy/L		01-0L1-11	
Carbonate (CO3)	<0.60		0.60	mg/L		01-SEP-17	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		01-SEP-17	
Alkalinity, Total (as CaCO3)						04 4110 1=	
Alkalinity, Total (as CaCO3)	298		1.0	mg/L		31-AUG-17	R3816718
Ammonia by colour Ammonia, Total (as N)	0.85		0.10	mg/L		08-SEP-17	R3822830
Biochemical Oxygen Demand (BOD)	0.05		0.10	iiig/∟		00 OLI -17	113022030
Biochemical Oxygen Demand	2.5	BODQ	2.0	mg/L		31-AUG-17	R3820502
Carbonaceous BOD							
BOD Carbonaceous	<2.0	BODQ	2.0	mg/L		31-AUG-17	R3820502
Chloride in Water by IC	7.5		0.50			04 4110 47	Doores
Chloride (CI)	74.5		0.50	mg/L		31-AUG-17	R3818525
Conductivity Conductivity	707		1.0	umhos/cm		31-AUG-17	R3816718
Fecal coliforms, 1:10 dilution by QT97			1.0	3111103/0111		317.00-17	1.0010710
Fecal Coliforms	200	PEHR	10	MPN/100mL		31-AUG-17	R3816611
				, 100111L		3.7.30 17	. 100 100 11

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

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1984280-4 COR 4							
Sampled By: CODEY on 29-AUG-17 @ 12:30							
Matrix:							
Hardness Calculated Hardness (as CaCO3)	265	HTC	0.20	mg/L		06-SEP-17	
Mercury Total							
Mercury (Hg)-Total	0.0000050		0.0000050	mg/L	01-SEP-17	05-SEP-17	R3820950
Nitrate in Water by IC Nitrate (as N)	0.106		0.020	mg/L		31-AUG-17	R3818525
Nitrate+Nitrite	0.106		0.020	IIIg/L		31-A0G-17	K3010323
Nitrate and Nitrite as N	0.106		0.070	mg/L		05-SEP-17	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		31-AUG-17	R3818525
Oil & Grease - Gravimetric	5.0		F 0	e B		44.055.47	D0000 400
Oil and Grease	<5.0		5.0	mg/L		11-SEP-17	R3823430
Phenol (4AAP) Phenols (4AAP)	0.0011		0.0010	mg/L		05-SEP-17	R3820191
Phosphorus, Total	3.00.1			·			
Phosphorus (P)-Total	0.969		0.010	mg/L		01-SEP-17	R3816753
Sulfate in Water by IC							
Sulfate (SO4)	6.36		0.30	mg/L		31-AUG-17	R3818525
Total Metals in Water by CRC ICPMS Aluminum (Al)-Total	0.0094		0.0030	mg/L	01-SEP-17	05-SEP-17	R3820268
Arsenic (As)-Total	0.00115		0.00010	mg/L	01-SEP-17	05-SEP-17	R3820268
Cadmium (Cd)-Total	0.0000158		0.0000050	mg/L	01-SEP-17	05-SEP-17	R3820268
Calcium (Ca)-Total	93.0		0.050	mg/L	01-SEP-17	05-SEP-17	R3820268
Chromium (Cr)-Total	0.00025		0.00010	mg/L	01-SEP-17	05-SEP-17	R3820268
Cobalt (Co)-Total	0.00096		0.00010	mg/L	01-SEP-17	05-SEP-17	R3820268
Copper (Cu)-Total	0.00176		0.00050	mg/L	01-SEP-17	05-SEP-17	R3820268
Iron (Fe)-Total	0.533		0.010	mg/L	01-SEP-17	05-SEP-17	R3820268
Lead (Pb)-Total	<0.000050		0.000050	mg/L	01-SEP-17	05-SEP-17	R3820268
Magnesium (Mg)-Total	7.88		0.0050	mg/L	01-SEP-17	05-SEP-17	R3820268
Manganese (Mn)-Total	0.0587		0.00010	mg/L	01-SEP-17	05-SEP-17	R3820268
Nickel (Ni)-Total	0.00477		0.00050	mg/L	01-SEP-17	05-SEP-17	R3820268
Potassium (K)-Total Sodium (Na)-Total	22.5 68.7		0.050 0.050	mg/L mg/L	01-SEP-17 01-SEP-17	05-SEP-17 05-SEP-17	R3820268 R3820268
Zinc (Zn)-Total	0.0037		0.030	mg/L	01-SEP-17	05-SEP-17	R3820268
Total Organic Carbon by Combustion	0.0001		0.0000	9/ _	5. <u>5</u> 217	00 0E1 -17	
Total Organic Carbon	22.6		0.50	mg/L		05-SEP-17	R3820396
Total Suspended Solids							
Total Suspended Solids	<10		10	mg/L		05-SEP-17	R3820572
pH pH	7.68		0.40	pH units		31-AUG-17	D2016740
 	7.00		0.10	priunits		31-AUG-1/	R3816718
	L	1	1				

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

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Reference Information

Sample Parameter Qualifier Key:

Qualifier	Description
BODQ	BOD Qualification: Lab Control Sample outside standard 85-115% objective (see QC report). Sample(s) cannot be rerun due to hold time expiry.
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
HTC	Hardness was calculated from Total Ca and/or Mg concentrations and may be biased high (dissolved Ca/Mg results unavailable).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
PEHR	Parameter Exceeded Recommended Holding Time On Receipt: Proceed With Analysis As Requested.
RRQC	Refer to report remarks for information regarding this QC result.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ALK-CO3CO3-CALC-WP	Water	Alkalinity, Carbonate	CALCULATION

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by carbonate is calculated and reported as mg CO3 2-/L.

ALK-HCO3HCO3-CALC- Water Alkalinity, Bicarbonate CALCULATION WP

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by bicarbonate is calculated and reported as mg HCO3-/L

ALK-OHOH-CALC-WP Water Alkalinity, Hydroxide CALCULATION

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by hydroxide is calculated and reported as mg OH-/L.

ALK-TITR-WP Water Alkalinity, Total (as CaCO3) APHA 2320B

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. Total alkalinity is determined by titration with a strong standard mineral acid to the successive HCO3- and H2CO3 endpoints indicated electrometrically.

BOD-CBOD-WP Water Carbonaceous BOD APHA 5210 B

Samples are diluted and seeded, have TCMP added to inhibit nitrogenous demands, and then are incubated in airtight bottles at 20°C for 5 days. Dissolved oxygen is measured initially and after incubation, and results are computed from the difference between initial and final DO.

BOD-WP Water Biochemical Oxygen Demand (BOD) APHA 5210 B

Samples are diluted and seeded and then incubated in airtight bottles at 20°C for 5 days. Dissolved oxygen is measured initially and after incubation, and results are computed from the difference between initial and final DO.

BTEXS+F1-HSMS-WP Water BTX plus F1 by GCMS EPA 8260C / EPA 5021A

The water sample, with added reagents, is heated in a sealed vial to equilibrium. The headspace from the vial is transfered into a gas chromatograph.

Target compound concentrations are measured using mass spectrometry detection.

C-TOC-HTC-WP Water Total Organic Carbon by Combustion APHA 5310 B-WP

Sample is acidified and purged to remove inorganic carbon, then injected into a heated reaction chamber where organic carbon is oxidized to CO2 which is then transported in the carrier gas stream and measured via a non-dispersive infrared analyzer.

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

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

EC-WP Water Conductivity APHA 2510B

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.

F1-F4-CALC-WP Water CCME Total Hydrocarbons CCME CWS-PHC, Pub #1310, Dec 2001-L

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

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Reference Information

Test Method References:

ALS Test Code Matrix Test Description Method Reference**

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-FID-WP Water CCME PHC F2-F4 in Water EPA 3511

Petroleum hydrocarbons in water are determined by liquid-liquid micro-scale solvent extraction using a reciprocal shaker extraction apparatus prior to capillary column gas chromatography with flame ionization detection (GC-FID) analysis.

FC10-QT97-WP Water Fecal coliforms, 1:10 dilution by QT97 APHA 9223B QT97

Analysis is carried out using procedures adapted from APHA 9223 "Enzyme Substrate Coliform Test". Fecal (thermotolerant) coliform bacteria are determined by mixing a 1:10 dilution of sample with a product containing hydrolyzable substrates and sealing in a 97-well packet. The packet is incubated at $44.5 - 0.2^{\circ}$ C for 18 hours and then the number of wells exhibiting positive responses are counted. The final results are obtained by comparing the number of positive responses to a probability table.

HARDNESS-CALC-WP Water Hardness Calculated 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-T-CVAF-WP Water Mercury Total EPA245.7 V2.0

Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.

MET-T-CCMS-WP Water Total Metals in Water by CRC ICPMS EPA 200.2/6020A (mod.)

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

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

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-N-WP Water Nitrite in Water by IC EPA 300.1 (mod)

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

NO3-IC-N-WP Water Nitrate in Water by IC EPA 300.1 (mod)

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

OG-GRAV-WP Water Oil & Grease - Gravimetric EPA 1664 (modified)

Water samples are acidified and extracted with hexane; the hexane extract is collected in a pre-weighed vial. The solvent is evaporated and Total Oil & Grease is determined from the weight of the residue in the vial.

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 Phosphorus 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.

WASTEWATER SAMPLING

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Reference Information

Test Method References:

ALS Test Code Matrix Test Description Method Reference**

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

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

SOLIDS-TOTSUS-WP Water Total Suspended Solids APHA 2540 D (modified)

Total suspended solids in aquesous matrices is determined gravimetrically after drying the residue at 103 105°C.

XYLENES-SUM-CALC- Water Sum of Xylene Isomer Concentrations CALCULATED RESULT

Total xylenes represents the sum of o-xylene and m&p-xylene.

** 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:

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 wwt - 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.

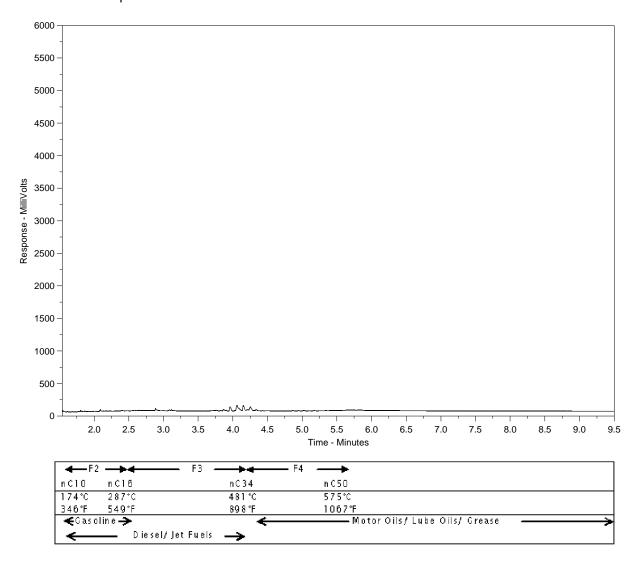
Test results reported relate only to the samples as received by the laboratory. UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

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: L1984280-1 Client Sample ID: COR 7



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.

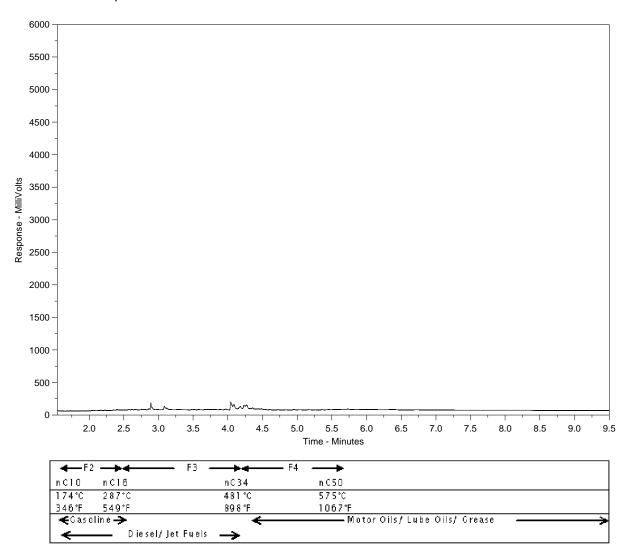
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: L1984280-2 Client Sample ID: COR 6



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.



Chain of Custody (COC) / Analytical Request Form

coc Number: 14 - 454537

Canada Toll Free: 1 800 668 9878

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REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NA-FM-9326e v08 Front/03 October 2013



L1984280-COFC

Field Los

Name of Sampler(s):
Name of Sampler(s):
Time of Sampling:/1.75
Monitoring Station Number:
GPS Coordinates: N
Weather Conditions: <u>Cloudy</u>
Samples: 500 mL or 1 L BOD 1 L Amber PAH + Pres 3 x 40 mL BTEX, F1 Vials + Pres 2 x 60 mL Amber F2-F4 Vials + Pres V 250 mL Amber Nutrients + Pres 1250 mL Amber Phenols + Pres 125 mL Sterile Bacteria Bottle 2 x 250 mL Amber Oil & Grease + Pres
Other Notes: (any unusual conditions, any deviation from standard procedures, reason Cor - 5
Over in the state



Hazardous Materials Spill Database

Environment Division of ENR Scotia 6, 5102-50th Avenue; Yellowknife, NT X1A 3S8 Phone: (867) 873-7654 Fax: (867) 873-0221

Sorted By: SpillNo for the year(s):

Spill No.	Date	Ter	Region	Location	Site Description	Commodity	Quantity	Source	Agency
2017073	2017-03-06	NU	KEE	Coral Harbour	Coral Harbour Carpenter shop located north of the community	Heating Fuel P-50	205 L	PL	GN

Total Spills on this Report: 1

This report contains information regarding spills that were reported to the NWT 24-Hour Spill Line. The absence of information on any particular location in no way guarantees that contamination has not occurred at that location.

LEGEND

Region:	Source:			Agency:
BAF - Baffin DEH - Deh Cho INU - Inuvik KEE - Keewatin KIT - Kitikmeot	AIR - Aircraft DRUM - Drum or Barrel MV - Marine Vessel NS - Natural Seepage OTH - Other Transportation	PL - Pipe or Line RT - Rail Train SL - Sewage Lagoon ST - Storage Tank <4000 litres ST - Storage Tank >4000 litres	TP - Tailings Pond TRU - Truck UK - Unkown WELL - Wet Wells, Flaring Boom	CCG - Canadian Coast Guard EP - Environment Canada GN - Government of Nunavut GNWT - Government of Northwest Territories ILA - Inuvialiut Land Administration
NSL - North Slave SAH - Sahtu SSL - South Slave	Since Transportation	on storage failty 4000 littles	200	INAC - Indian and Northern Affairs Canada NEB - National Energy Board