

C.O.C.: ---

REPORT No. B16-28148

Report To:

Hamlet of Pangnirtung

P.O. Box 253,
Pangnirtung Nunavut X0A 0R0 Canada

Attention: Billy Qaqasiq

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1
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DATE RECEIVED: 20-Sep-16

JOB/PROJECT NO.: WWTP

DATE REPORTED: 04-Oct-16

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.	Raw	Membrane #1	Final Effluent	
			Sample I.D.	B16-28148-1	B16-28148-2	B16-28148-3	
			Date Collected	14-Sep-16	14-Sep-16	14-Sep-16	
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
BOD	mg/L	3	SM 5210B	21-Sep-16/O	376	1470	< 3
Total Suspended Solids	mg/L	3	SM 2540D	23-Sep-16/O	300	17000	3
Hardness (as CaCO ₃)	mg/L	1	SM 3120	22-Sep-16/O	42	436	27
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	20-Sep-16/O	490	455	292
Conductivity @25°C	µmho/cm	1	SM 2510B	20-Sep-16/O	1190	1070	1070
TDS (Calc. from Cond.)	mg/L		Calc.	21-Sep-16	842	757	757
pH @25°C	pH Units		SM 4500H	20-Sep-16/O	7.53	7.74	7.94
Turbidity	NTU	0.1	SM 2130	21-Sep-16/O	243	> 1000 ²	0.8
Nitrite (N)	mg/L	0.1	SM4110C	20-Sep-16/O	< 0.1	< 0.1	< 0.1
Nitrate (N)	mg/L	0.1	SM4110C	20-Sep-16/O	0.1	0.9	36.4
Chloride	mg/L	0.5	SM4110C	20-Sep-16/O	58.1	58.3	61.0
Sulphate	mg/L	1	SM4110C	20-Sep-16/O	20	36	36
Total Organic Carbon	mg/L	0.2	EPA 415.1	22-Sep-16/O	105	18.6 ¹	13.1
Dissolved Organic Carbon	mg/L	0.2	EPA 415.1	22-Sep-16/O	87.2	18.6	12.3
COD	mg/L	5	SM 5220D	22-Sep-16/O	813	18900	34
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	22-Sep-16/O	95.1	2.72	< 0.01
Total Kjeldahl Nitrogen	mg/L	0.05	MOEE 3367	26-Sep-16/O	124	972	1.76
Phosphorus-Total	mg/L	0.01	MOEE 3367	26-Sep-16/O	14.8	241	11.2
o-Phosphate (P)	mg/L	0.01	MOEE 3366	22-Sep-16/O	10.1	21.4	10.9
Phenolics	mg/L	0.001	MOEE 3179	23-Sep-16/O	0.320	< 0.001	< 0.001
Aluminum (total)	mg/L	0.01	SM 3120	22-Sep-16/O	1.04	73.1	0.03
Aluminum	mg/L	0.01	SM 3120	22-Sep-16/O	1.04	73.1	0.03
Arsenic	mg/L	0.0005	EPA 200.8	22-Sep-16/O	0.0011	0.0310	0.0007
Barium	mg/L	0.001	SM 3120	22-Sep-16/O	0.016	0.566	< 0.001
Beryllium	mg/L	0.002	SM 3120	22-Sep-16/O	< 0.002	< 0.002	< 0.002
Bismuth	mg/L	0.02	SM 3120	22-Sep-16/O	< 0.02	0.40	< 0.02
Boron	mg/L	0.005	SM 3120	22-Sep-16/O	0.148	0.941	0.211

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an *

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.



Gord Murphy
Lab Supervisor

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			Sample I.D.	B16-28148-1	B16-28148-2	B16-28148-3	
			Date Collected	14-Sep-16	14-Sep-16	14-Sep-16	
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Calcium	mg/L	0.02	SM 3120	22-Sep-16/O	10.0	118	5.87
Cadmium	mg/L	0.005	SM 3120	22-Sep-16/O	< 0.005	0.013	< 0.005
Chromium	mg/L	0.002	SM 3120	22-Sep-16/O	0.004	0.124	< 0.002
Cobalt	mg/L	0.005	SM 3120	22-Sep-16/O	< 0.005	0.021	< 0.005
Copper	mg/L	0.002	SM 3120	22-Sep-16/O	0.199	7.53	0.058
Iron	mg/L	0.005	SM 3120	22-Sep-16/O	0.900	54.6	0.099
Lead	mg/L	0.02	SM 3120	22-Sep-16/O	< 0.02	0.29	< 0.02
Lithium	mg/L	0.01	SM 3120	22-Sep-16/O	0.02	0.03	0.02
Magnesium	mg/L	0.01	SM 3120	22-Sep-16/O	4.24	34.2	2.89
Manganese	mg/L	0.001	SM 3120	22-Sep-16/O	0.057	1.80	0.016
Mercury	mg/L	0.00002	SM 3112 B	21-Sep-16/O	0.00024	0.00930	< 0.00002
Molybdenum	mg/L	0.01	SM 3120	22-Sep-16/O	< 0.01	0.05	< 0.01
Nickel	mg/L	0.01	SM 3120	22-Sep-16/O	0.01	0.12	< 0.01
Silicon	mg/L	0.01	SM 3120	22-Sep-16/O	3.23	21.3	3.01
Silver	mg/L	0.00002	EPA 200.8	04-Oct-16/O	0.00003	0.00529	< 0.00002
Sodium	mg/L	0.2	SM 3120	22-Sep-16/O	64.9	170	196
Zinc	mg/L	0.005	SM 3120	22-Sep-16/O	0.235	10.7	0.086
Oil & Grease-Total	mg/L	1.0	SM 5520	23-Sep-16/K	61.4	69.0	< 1.0
Total Coliform	cfu/100mL	1	MOE E3371	20-Sep-16/O	51000000	40000000	10
E coli	cfu/100mL	1	MOE E3371	20-Sep-16/O	860000	1200000	< 10
Fecal Coliform	cfu/100mL	1	MOE E3371	20-Sep-16/O	940000	1500000	< 10
Fecal Strep.	cfu/100mL	1	MOE E3371	20-Sep-16/O	12100	420000	< 10

1. Sample matrix is not suitable for toc test

2. Sample received was Liquid Sludge

R.L. = Reporting Limit

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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill

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