

C.O.C.: ---

REPORT No. B18-10235

Report To:

Hamlet of Pangnirtung

P.O. Box 253,

Pangnirtung Nunavut X0A 0R0 Canada

Attention: SAO -

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 613-526-0123

Fax: 613-526-1244

DATE RECEIVED: 20-Apr-18

JOB/PROJECT NO.: Waste Water

DATE REPORTED: 26-Apr-18

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.	Influent Pan #2	Effluent Pan #3		
			Sample I.D.	B18-10235-1	B18-10235-2		
			Date Collected	16-Apr-18	16-Apr-18		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Hardness (as CaCO ₃)	mg/L	1	SM 3120	26-Apr-18/O	49	44	
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	20-Apr-18/O	358	199	
pH @25°C	pH Units		SM 4500H	20-Apr-18/O	7.65	8.01	
Conductivity @25°C	µmho/cm	1	SM 2510B	20-Apr-18/O	1010	1060	
TDS(ion sum calc.)	mg/L	1	Calc.	26-Apr-18/O	465	597	
Total Suspended Solids	mg/L	3	SM 2540D	23-Apr-18/O	180	9	
Turbidity	NTU	0.1	SM 2130	23-Apr-18/O	115	0.8	
Chloride	mg/L	0.5	SM4110C	20-Apr-18/O	42.7	108	
Nitrite (N)	mg/L	0.1	SM4110C	20-Apr-18/O	< 0.1	< 0.1	
Nitrate (N)	mg/L	0.1	SM4110C	20-Apr-18/O	< 0.1	21.5	
Sulphate	mg/L	1	SM4110C	20-Apr-18/O	3	30	
Aluminum	mg/L	0.01	SM 3120	26-Apr-18/O	0.59	0.02	
Arsenic	mg/L	0.0005	EPA 200.8	23-Apr-18/O	0.0010	0.0039	
Barium	mg/L	0.001	SM 3120	26-Apr-18/O	0.021	0.001	
Beryllium	mg/L	0.002	SM 3120	26-Apr-18/O	< 0.002	< 0.002	
Bismuth	mg/L	0.02	SM 3120	26-Apr-18/O	0.02	< 0.02	
Boron	mg/L	0.005	SM 3120	26-Apr-18/O	0.189	0.187	
Cadmium	mg/L	0.005	SM 3120	26-Apr-18/O	< 0.005	< 0.005	
Calcium	mg/L	0.02	SM 3120	26-Apr-18/O	12.4	7.47	
Chromium	mg/L	0.002	SM 3120	26-Apr-18/O	0.003	< 0.002	
Cobalt	mg/L	0.005	SM 3120	26-Apr-18/O	< 0.005	< 0.005	
Copper	mg/L	0.002	SM 3120	26-Apr-18/O	0.224	0.061	
Iron	mg/L	0.005	SM 3120	26-Apr-18/O	0.852	0.066	
Lead	mg/L	0.02	SM 3120	26-Apr-18/O	< 0.02	< 0.02	
Lithium	mg/L	0.01	SM 3120	26-Apr-18/O	< 0.01	< 0.01	
Magnesium	mg/L	0.02	SM 3120	26-Apr-18/O	4.47	6.05	
Mercury	mg/L	0.00002	SM 3112 B	23-Apr-18/O	0.00033	< 0.00002	

NOTE: All Bacteria parameters passed acceptable holding times upon arrival at lab.



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,B-Barrie

Greg Clarkin , BSc., C. Chem
Lab Manager - Ottawa District

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			Sample I.D.	B18-10235-1	B18-10235-2		
			Date Collected	16-Apr-18	16-Apr-18		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Molybdenum	mg/L	0.01	SM 3120	26-Apr-18/O	< 0.01	< 0.01	
Manganese	mg/L	0.001	SM 3120	26-Apr-18/O	0.043	0.011	
Nickel	mg/L	0.01	SM 3120	26-Apr-18/O	< 0.01	< 0.01	
Silicon	mg/L	0.01	SM 3120	26-Apr-18/O	2.23	2.16	
Silver	mg/L	0.005	SM 3120	26-Apr-18/O	< 0.005	< 0.005	
Sodium	mg/L	0.2	SM 3120	26-Apr-18/O	52.6	201	
Zinc	mg/L	0.005	SM 3120	26-Apr-18/O	0.257	0.067	
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	24-Apr-18/O	84.9	0.02	
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	23-Apr-18/K	112	1.4	
o-Phosphate (P)	mg/L	0.01	MOEE 3366	24-Apr-18/O	9.45	9.98	
Phosphorus-Total	mg/L	0.01	E3199A.1	23-Apr-18/K	1.24	9.20	
Phenolics	mg/L	0.001	MOEE 3179	24-Apr-18/O	0.435	< 0.001	
BOD	mg/L	3	SM 5210B	20-Apr-18/O	321	< 3	
COD	mg/L	5	SM 5220D	24-Apr-18/O	802	37	
Dissolved Organic Carbon	mg/L	0.2	EPA 415.1	23-Apr-18/O	118	15.1	
Total Organic Carbon	mg/L	0.2	EPA 415.1	23-Apr-18/O	140	15.8	
Oil & Grease-Total	mg/L	1.0	SM 5520	25-Apr-18/K	90.1	3.3	
Total Coliform	cfu/100mL	1	MOE E3371	20-Apr-18/O	128000000	10	
E coli	cfu/100mL	1	MOE E3371	20-Apr-18/O	2800000	< 2	
Fecal Strep.	cfu/100mL	1	MOE E3371	20-Apr-18/O	300000	< 10	
Fecal Coliform	cfu/100mL	1	MOE E3371	20-Apr-18/O	5500000	< 10	
Anion Sum	meq/L		Calc.	26-Apr-18/O	8.42	9.18	
Cation Sum	meq/L		Calc.	26-Apr-18/O	9.91	10.4	
% Difference	%		Calc.	26-Apr-18/O	8.15	6.14	
Ion Ratio	AS/CS		Calc.	26-Apr-18/O	0.849	0.884	
Sodium Adsorption Ratio	-		Calc.	26-Apr-18/O	3.26	13.3	
Conductivity (calc.)	µmho/cm		Calc.	26-Apr-18/O	981	1010	

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			Date Collected	16-Apr-18	16-Apr-18		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
TDS(calc.)/EC(actual)	-		Calc.	26-Apr-18/O	0.461	0.562	
EC(calc.)/EC(actual)	-		Calc.	26-Apr-18/O	0.973	0.947	
Langelier Index(25°C)	S.I.		Calc.	26-Apr-18/O	-0.165	-0.291	

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