

C.O.C.: ---

REPORT No. B18-07817

Report To:

Hamlet of Pangnirtung

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

Attention: Shawn Trepanier

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 28-Mar-18

JOB/PROJECT NO.: Waste Water

DATE REPORTED: 05-Apr-18

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.	Influent Pan #2	Effluent Pan #3		
			Sample I.D.	B18-07817-1	B18-07817-2		
			Date Collected	26-Mar-18	26-Mar-18		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Hardness (as CaCO ₃)	mg/L	1	SM 3120	29-Mar-18/O	91	45	
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	29-Mar-18/O	408	233	
pH @25°C	pH Units		SM 4500H	29-Mar-18/O	7.74	8.26	
Conductivity @25°C	µmho/cm	1	SM 2510B	29-Mar-18/O	1670	1230	
TDS(ion sum calc.)	mg/L	1	Calc.	29-Mar-18/O	766	640	
Total Suspended Solids	mg/L	3	SM 2540D	29-Mar-18/O	104	4	
Turbidity	NTU	0.1	SM 2130	28-Mar-18/O	183	0.8	
Chloride	mg/L	0.5	SM4110C	28-Mar-18/O	180	152	
Nitrite (N)	mg/L	0.1	SM4110C	28-Mar-18/O	< 0.1	< 0.1	
Nitrate (N)	mg/L	0.1	SM4110C	28-Mar-18/O	0.2	12.9	
Sulphate	mg/L	1	SM4110C	28-Mar-18/O	26	34	
Calcium	mg/L	0.02	SM 3120	29-Mar-18/O	17.0	7.22	
Magnesium	mg/L	0.02	SM 3120	29-Mar-18/O	11.9	6.54	
Sodium	mg/L	0.2	SM 3120	29-Mar-18/O	124	205	
Potassium	mg/L	0.1	SM 3120	29-Mar-18/O	39.3	38.2	
Aluminum	mg/L	0.01	SM 3120	29-Mar-18/O	0.24	0.02	
Arsenic	mg/L	0.0005	EPA 200.8	02-Apr-18/O	0.0074	0.0061	
Barium	mg/L	0.001	SM 3120	29-Mar-18/O	0.020	< 0.001	
Beryllium	mg/L	0.002	SM 3120	29-Mar-18/O	< 0.002	< 0.002	
Bismuth	mg/L	0.02	SM 3120	29-Mar-18/O	< 0.02	< 0.02	
Boron	mg/L	0.005	SM 3120	29-Mar-18/O	0.238	0.111	
Cadmium	mg/L	0.005	SM 3120	29-Mar-18/O	< 0.005	< 0.005	
Chromium	mg/L	0.002	SM 3120	29-Mar-18/O	0.002	< 0.002	
Cobalt	mg/L	0.005	SM 3120	29-Mar-18/O	< 0.005	< 0.005	
Copper	mg/L	0.002	SM 3120	29-Mar-18/O	0.141	0.061	
Iron	mg/L	0.005	SM 3120	29-Mar-18/O	0.648	0.063	
Lead	mg/L	0.02	SM 3120	29-Mar-18/O	< 0.02	< 0.02	

NOTE: Acceptable Holding Times for Bacteria Parameters exceeded 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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			Date Collected	26-Mar-18	26-Mar-18		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Lithium	mg/L	0.01	SM 3120	29-Mar-18/O	< 0.01	< 0.01	
Manganese	mg/L	0.001	SM 3120	29-Mar-18/O	0.047	0.006	
Mercury	mg/L	0.00002	SM 3112 B	29-Mar-18/O	0.00009	< 0.00002	
Molybdenum	mg/L	0.01	SM 3120	29-Mar-18/O	< 0.01	< 0.01	
Nickel	mg/L	0.01	SM 3120	29-Mar-18/O	< 0.01	< 0.01	
Silicon	mg/L	0.01	SM 3120	29-Mar-18/O	2.03	2.22	
Silver	mg/L	0.005	SM 3120	29-Mar-18/O	< 0.005	< 0.005	
Zinc	mg/L	0.005	SM 3120	29-Mar-18/O	0.209	0.062	
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	03-Apr-18/O	95.2	0.08	
o-Phosphate (P)	mg/L	0.01	MOEE 3366	03-Apr-18/O	15.3	14.9	
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	29-Mar-18/K	141	1.6	
Phosphorus-Total	mg/L	0.01	E3199A.1	29-Mar-18/K	19.5	14.9	
Phenolics	mg/L	0.001	MOEE 3179	28-Mar-18/O	0.217	< 0.001	
BOD	mg/L	3	SM 5210B	29-Mar-18/O	310	< 3	
COD	mg/L	5	SM 5220D	29-Mar-18/O	695	36	
Dissolved Organic Carbon	mg/L	0.2	EPA 415.1	29-Mar-18/O	73.8	15.7	
Total Organic Carbon	mg/L	0.2	EPA 415.1	29-Mar-18/O	81.0	18.6	
Oil & Grease-Total	mg/L	1.0	SM 5520	03-Apr-18/K	36.2	< 1.0	
Total Coliform	cfu/100mL	1	MOE E3371	28-Mar-18/O	3200000	10	
E coli	cfu/100mL	1	MOE E3371	28-Mar-18/O	190000	< 10	
Fecal Coliform	cfu/100mL	1	MOE E3371	28-Mar-18/O	240000	< 10	
Fecal Strep.	cfu/100mL	1	MOE E3371	28-Mar-18/O	290000	< 10	
Anion Sum	meq/L		Calc.	29-Mar-18/O	13.8	10.6	
Cation Sum	meq/L		Calc.	29-Mar-18/O	14.9	10.8	
% Difference	%		Calc.	29-Mar-18/O	4.07	1.11	
Ion Ratio	AS/CS		Calc.	29-Mar-18/O	0.922	0.978	
Sodium Adsorption Ratio	-		Calc.	29-Mar-18/O	5.64	13.3	

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Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Conductivity (calc.)	µmho/cm		Calc.	29-Mar-18/O	1540	1100	
TDS(calc.)/EC(actual)	-		Calc.	29-Mar-18/O	0.458	0.521	
EC(calc.)/EC(actual)	-		Calc.	29-Mar-18/O	0.919	0.899	
Langelier Index(25°C)	S.I.		Calc.	29-Mar-18/O	0.0988	0.0141	

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