

C.O.C.: ---

REPORT No. B18-34080

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: 05-Nov-18

JOB/PROJECT NO.: Waste Water

DATE REPORTED: 16-Nov-18

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.		Pan 2 Influent	Pan 3 Effluent		
			Sample I.D.		B18-34080-1	B18-34080-2		
			Date Collected		23-Oct-18	23-Oct-18		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Hardness (as CaCO ₃)	mg/L	1	SM 3120	13-Nov-18/O	57	53		
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	07-Nov-18/O	405	28		
pH @25°C	pH Units		SM 4500H	07-Nov-18/O	7.95	7.31		
Conductivity @25°C	µmho/cm	1	SM 2510B	07-Nov-18/O	1180	671		
TDS(ion sum calc.)	mg/L	1	Calc.	13-Nov-18/O	540	412		
Total Suspended Solids	mg/L	3	SM2540D	06-Nov-18/K	230	< 3		
Turbidity	NTU	0.1	SM 2130	06-Nov-18/O	25.2	0.3		
Chloride	mg/L	0.5	SM4110C	07-Nov-18/O	56.2	56.6		
Nitrite (N)	mg/L	0.1	SM4110C	07-Nov-18/O	< 0.1	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	07-Nov-18/O	< 0.1	34.9		
Sulphate	mg/L	1	SM4110C	07-Nov-18/O	< 1	35		
Aluminum	mg/L	0.01	SM 3120	13-Nov-18/O	0.95	0.04		
Arsenic	mg/L	0.0005	EPA 200.8	09-Nov-18/O	0.0010	< 0.0005		
Barium	mg/L	0.001	SM 3120	13-Nov-18/O	0.030	0.017		
Beryllium	mg/L	0.002	SM 3120	13-Nov-18/O	< 0.002	< 0.002		
Bismuth	mg/L	0.02	SM 3120	13-Nov-18/O	< 0.02	< 0.02		
Boron	mg/L	0.005	SM 3120	13-Nov-18/O	0.130	0.140		
Cadmium	mg/L	0.005	SM 3120	13-Nov-18/O	< 0.005	< 0.005		
Calcium	mg/L	0.02	SM 3120	13-Nov-18/O	13.9	13.0		
Chromium	mg/L	0.002	SM 3120	13-Nov-18/O	0.003	< 0.002		
Cobalt	mg/L	0.005	SM 3120	13-Nov-18/O	< 0.005	< 0.005		
Copper	mg/L	0.002	SM 3120	13-Nov-18/O	0.235	0.065		
Iron	mg/L	0.005	SM 3120	13-Nov-18/O	1.42	0.143		
Lead	mg/L	0.02	SM 3120	13-Nov-18/O	< 0.02	< 0.02		
Lithium	mg/L	0.01	SM 3120	13-Nov-18/O	< 0.01	< 0.01		
Magnesium	mg/L	0.02	SM 3120	13-Nov-18/O	5.30	4.93		
Manganese	mg/L	0.001	SM 3120	13-Nov-18/O	0.047	0.021		

NOTE: Bacteria passed acceptable holding times upon arrival at Lab.



R.L. = Reporting Limit

Test methods are 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		23-Oct-18	23-Oct-18		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Mercury	mg/L	0.00002	SM 3112 B	13-Nov-18/O	0.00017	< 0.00002		
Molybdenum	mg/L	0.01	SM 3120	13-Nov-18/O	< 0.01	< 0.01		
Nickel	mg/L	0.01	SM 3120	13-Nov-18/O	< 0.01	< 0.01		
Silicon	mg/L	0.01	SM 3120	13-Nov-18/O	2.09	2.01		
Silver	mg/L	0.005	SM 3120	13-Nov-18/O	< 0.005	< 0.005		
Sodium	mg/L	0.2	SM 3120	13-Nov-18/O	52.1	103		
Zinc	mg/L	0.005	SM 3120	13-Nov-18/O	0.286	0.090		
Ammonia (N)-Total	mg/L	0.01	SM4500- NH3-H	08-Nov-18/K	109	0.07		
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	07-Nov-18/K	148	1.9		
o-Phosphate (P)	mg/L	0.01	PE4500-S	08-Nov-18/K	11.1	9.66		
Phosphorus-Total	mg/L	0.01	E3199A.1	07-Nov-18/K	14.8	10.1		
Phenolics	mg/L	0.002	MOEE 3179	09-Nov-18/K	0.340	0.004		
BOD(5 day)	mg/L	3	SM 5210B	07-Nov-18/K	382	4		
COD	mg/L	5	SM 5220D	07-Nov-18/O	841	36		
Dissolved Organic Carbon	mg/L	0.2	EPA 415.1	08-Nov-18/O	81.7	14.9		
Total Organic Carbon	mg/L	0.2	EPA 415.1	08-Nov-18/O	84.8	19.9		
Oil & Grease-Total	mg/L	1.0	SM 5520	06-Nov-18/K	137	< 1.0		
Total Coliform	cfu/100mL	1	MOE E3371	05-Nov-18/O	83000000	< 10		
E coli	cfu/100mL	1	MOE E3371	05-Nov-18/O	2800000	< 10		
Fecal Strep.	cfu/100mL	1	MOE E3371	05-Nov-18/O	47000	< 10		
Fecal Coliform	cfu/100mL	1	MOE E3371	05-Nov-18/O	3600000	< 10		
Anion Sum	meq/L		Calc.	13-Nov-18/O	9.69	5.38		
Cation Sum	meq/L		Calc.	13-Nov-18/O	11.8	6.26		
% Difference	%		Calc.	13-Nov-18/O	9.90	7.57		
Ion Ratio	AS/CS		Calc.	13-Nov-18/O	0.820	0.859		
Sodium Adsorption Ratio	-		Calc.	13-Nov-18/O	3.01	6.17		

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			Date Collected	23-Oct-18	23-Oct-18		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Conductivity (calc.)	µmho/cm		Calc.	13-Nov-18/O	1160	660	
TDS(calc.)/EC(actual)	-		Calc.	13-Nov-18/O	0.460	0.614	
EC(calc.)/EC(actual)	-		Calc.	13-Nov-18/O	0.989	0.983	
Langelier Index(25°C)	S.I.		Calc.	13-Nov-18/O	0.228	-1.59	

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