

C.O.C.: ---

REPORT No. B18-28781

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-Sep-18

JOB/PROJECT NO.: Waste Water

DATE REPORTED: 05-Oct-18

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.		Pan 2 Influent	Pan 3 Effluent		
			Sample I.D.		B18-28781-1	B18-28781-2		
			Date Collected		18-Sep-18	18-Sep-18		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Hardness (as CaCO ₃)	mg/L	1	SM 3120	27-Sep-18/O	78	37		
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	24-Sep-18/O	378	17		
pH @25°C	pH Units		SM 4500H	24-Sep-18/O	7.73	6.67		
Conductivity @25°C	µmho/cm	1	SM 2510B	24-Sep-18/O	1070	700		
TDS(ion sum calc.)	mg/L	1	Calc.	28-Sep-18/O	525	433		
Total Suspended Solids	mg/L	3	SM 2540D	24-Sep-18/O	420	< 3		
Turbidity	NTU	0.1	SM 2130	21-Sep-18/O	296	0.3		
Chloride	mg/L	0.5	SM4110C	25-Sep-18/O	52.0	55.1		
Nitrite (N)	mg/L	0.1	SM4110C	25-Sep-18/O	< 0.1	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	25-Sep-18/O	< 0.1	41.7		
Sulphate	mg/L	1	SM4110C	25-Sep-18/O	11	36		
Aluminum	mg/L	0.01	SM 3120	27-Sep-18/O	2.64	0.08		
Arsenic	mg/L	0.0005	EPA 200.8	27-Sep-18/O	0.0014	0.0005		
Barium	mg/L	0.001	SM 3120	27-Sep-18/O	0.048	0.011		
Beryllium	mg/L	0.002	SM 3120	27-Sep-18/O	< 0.002	< 0.002		
Bismuth	mg/L	0.02	SM 3120	27-Sep-18/O	< 0.02	< 0.02		
Boron	mg/L	0.005	SM 3120	27-Sep-18/O	0.162	0.168		
Cadmium	mg/L	0.005	SM 3120	27-Sep-18/O	< 0.005	< 0.005		
Calcium	mg/L	0.02	SM 3120	27-Sep-18/O	22.3	8.91		
Chromium	mg/L	0.002	SM 3120	27-Sep-18/O	0.009	< 0.002		
Cobalt	mg/L	0.005	SM 3120	27-Sep-18/O	< 0.005	< 0.005		
Copper	mg/L	0.002	SM 3120	27-Sep-18/O	0.346	0.075		
Iron	mg/L	0.005	SM 3120	27-Sep-18/O	3.12	0.203		
Lead	mg/L	0.02	SM 3120	27-Sep-18/O	0.02	< 0.02		
Lithium	mg/L	0.01	SM 3120	27-Sep-18/O	< 0.01	< 0.01		
Magnesium	mg/L	0.02	SM 3120	27-Sep-18/O	5.39	3.56		
Manganese	mg/L	0.001	SM 3120	27-Sep-18/O	0.074	0.021		



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

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.

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WATERWORKS NO.

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			Sample I.D.		B18-28781-1	B18-28781-2		
			Date Collected		18-Sep-18	18-Sep-18		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Mercury	mg/L	0.00002	SM 3112 B	27-Sep-18/O	0.00020	< 0.00002		
Molybdenum	mg/L	0.01	SM 3120	27-Sep-18/O	< 0.01	< 0.01		
Nickel	mg/L	0.01	SM 3120	27-Sep-18/O	0.01	< 0.01		
Silicon	mg/L	0.01	SM 3120	27-Sep-18/O	2.64	1.84		
Silver	mg/L	0.005	SM 3120	27-Sep-18/O	< 0.005	< 0.005		
Sodium	mg/L	0.2	SM 3120	27-Sep-18/O	60.4	109		
Zinc	mg/L	0.005	SM 3120	27-Sep-18/O	0.536	0.098		
Ammonia (N)-Total	mg/L	0.01	SM4500- NH3-H	24-Sep-18/K	91.2	0.05		
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	21-Sep-18/K	129	2.0		
o-Phosphate (P)	mg/L	0.01	PE4500-S	24-Sep-18/K	8.93	11.3		
Phosphorus-Total	mg/L	0.01	E3199A.1	24-Sep-18/K	15.7	7.90		
Phenolics	mg/L	0.002	MOEE 3179	24-Sep-18/K	0.258	0.003		
BOD	mg/L	3	SM 5210B	21-Sep-18/O	329	< 3		
COD	mg/L	5	SM 5220D	25-Sep-18/O	1110	48		
Dissolved Organic Carbon	mg/L	0.2	EPA 415.1	25-Sep-18/O	83.9	18.1		
Total Organic Carbon	mg/L	0.2	EPA 415.1	25-Sep-18/O	89.3	22.8		
Oil & Grease-Total	mg/L	1.0	SM 5520	26-Sep-18/K	61.4	< 1.0		
Total Coliform	cfu/100mL	1	MOE E3371	20-Sep-18/O	68000000	40		
E coli	cfu/100mL	1	MOE E3371	20-Sep-18/O	4200000	< 2		
Fecal Strep.	cfu/100mL		MOE E3371	20-Sep-18/O	NA	NA		
Fecal Coliform	cfu/100mL	1	MOE E3371	20-Sep-18/O	4500000	24		
Anion Sum	meq/L		Calc.	28-Sep-18/O	9.34	5.63		
Cation Sum	meq/L		Calc.	28-Sep-18/O	11.4	6.15		
% Difference	%		Calc.	28-Sep-18/O	9.81	4.43		
Ion Ratio	AS/CS		Calc.	28-Sep-18/O	0.821	0.915		
Sodium Adsorption Ratio	-		Calc.	28-Sep-18/O	2.98	7.81		



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			Date Collected	18-Sep-18	18-Sep-18		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Conductivity (calc.)	µmho/cm		Calc.	28-Sep-18/O	1090	676	
TDS(calc.)/EC(actual)	-		Calc.	28-Sep-18/O	0.493	0.619	
EC(calc.)/EC(actual)	-		Calc.	28-Sep-18/O	1.02	0.966	
Langelier Index(25°C)	S.I.		Calc.	28-Sep-18/O	0.193	-2.61	

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