

C.O.C.: ---

REPORT No. B18-24264

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: 15-Aug-18

JOB/PROJECT NO.: Waste Water

DATE REPORTED: 22-Aug-18

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.		Influent Pan 2	Influent Pan 3		
			Sample I.D.		B18-24264-1	B18-24264-2		
			Date Collected		13-Aug-18	13-Aug-18		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Hardness (as CaCO ₃)	mg/L	1	SM 3120	21-Aug-18/O	52	86		
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	15-Aug-18/O	356	< 5		
pH @25°C	pH Units		SM 4500H	15-Aug-18/O	7.61	5.80		
Conductivity @25°C	µmho/cm	1	SM 2510B	15-Aug-18/O	1100	586		
TDS(ion sum calc.)	mg/L	1	Calc.	21-Aug-18/O	506	364		
Total Suspended Solids	mg/L	3	SM 2540D	16-Aug-18/O	510	86		
Turbidity	NTU	0.1	SM 2130	15-Aug-18/O	199	18.8		
Chloride	mg/L	0.5	SM4110C	15-Aug-18/O	56.1	55.0		
Nitrite (N)	mg/L	0.1	SM4110C	15-Aug-18/O	< 0.1	0.1		
Nitrate (N)	mg/L	0.1	SM4110C	15-Aug-18/O	< 0.1	28.8		
Sulphate	mg/L	1	SM4110C	15-Aug-18/O	9	35		
Aluminum	mg/L	0.01	SM 3120	21-Aug-18/O	1.55	1.04		
Arsenic	mg/L	0.0001	EPA 200.8	16-Aug-18/O	0.0014	0.0015		
Barium	mg/L	0.001	SM 3120	21-Aug-18/O	0.031	0.036		
Beryllium	mg/L	0.002	SM 3120	21-Aug-18/O	< 0.002	< 0.002		
Bismuth	mg/L	0.02	SM 3120	21-Aug-18/O	< 0.02	0.03		
Boron	mg/L	0.005	SM 3120	21-Aug-18/O	0.320	0.292		
Cadmium	mg/L	0.005	SM 3120	21-Aug-18/O	< 0.005	< 0.005		
Calcium	mg/L	0.02	SM 3120	21-Aug-18/O	13.6	22.6		
Chromium	mg/L	0.002	SM 3120	21-Aug-18/O	0.006	0.007		
Cobalt	mg/L	0.005	SM 3120	21-Aug-18/O	< 0.005	< 0.005		
Copper	mg/L	0.002	SM 3120	21-Aug-18/O	0.239	0.409		
Iron	mg/L	0.005	SM 3120	21-Aug-18/O	2.06	1.64		
Lead	mg/L	0.02	SM 3120	21-Aug-18/O	< 0.02	0.11		
Lithium	mg/L	0.01	SM 3120	21-Aug-18/O	< 0.01	< 0.01		
Magnesium	mg/L	0.02	SM 3120	21-Aug-18/O	4.43	7.08		
Manganese	mg/L	0.001	SM 3120	21-Aug-18/O	0.062	0.148		

NOTE: Bacteria 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.	B18-24264-1	B18-24264-2		
			Date Collected	13-Aug-18	13-Aug-18		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Mercury	mg/L	0.00002	SM 3112 B	21-Aug-18/O	0.00016	0.00162	
Molybdenum	mg/L	0.01	SM 3120	21-Aug-18/O	< 0.01	< 0.01	
Nickel	mg/L	0.01	SM 3120	21-Aug-18/O	< 0.01	0.01	
Potassium	mg/L	0.1	SM 3120	21-Aug-18/O	28.7	36.0	
Silicon	mg/L	0.01	SM 3120	21-Aug-18/O	2.14	3.66	
Silver	mg/L	0.005	SM 3120	21-Aug-18/O	< 0.005	< 0.005	
Sodium	mg/L	0.2	SM 3120	21-Aug-18/O	50.8	76.5	
Zinc	mg/L	0.005	SM 3120	21-Aug-18/O	0.390	0.978	
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	15-Aug-18/O	99.1	0.06	
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	17-Aug-18/K	138	6.0	
o-Phosphate (P)	mg/L	0.01	MOEE 3366	15-Aug-18/O	11.2	16.7	
Phosphorus-Total	mg/L	0.01	E3199A.1	17-Aug-18/K	16.2	15.8	
Phenolics	mg/L	0.002	MOEE 3179	17-Aug-18/K	0.280	0.003	
BOD	mg/L	3	SM 5210B	16-Aug-18/O	411	58	
COD	mg/L	5	SM 5220D	17-Aug-18/O	1360	128	
Dissolved Organic Carbon	mg/L	0.2	EPA 415.1	17-Aug-18/O	83.5	10.7	
Total Organic Carbon	mg/L	0.2	EPA 415.1	17-Aug-18/O	86.5	11.1	
Oil & Grease-Total	mg/L	1.0	SM 5520	20-Aug-18/K	82.4	< 1.0	
Total Coliform	cfu/100mL	1	MOE E3371	15-Aug-18/O	50000000	74000	
E coli	cfu/100mL	1	MOE E3371	15-Aug-18/O	770000	1700	
Fecal Strep.	cfu/100mL	1	MOE E3371	15-Aug-18/O	700000	1400	
Fecal Coliform	cfu/100mL	1	MOE E3371	15-Aug-18/O	2200000	3900	
Anion Sum	meq/L		Calc.	21-Aug-18/O	8.88	4.44	
Cation Sum	meq/L		Calc.	21-Aug-18/O	11.0	6.06	
% Difference	%		Calc.	21-Aug-18/O	10.9 ¹	15.4 ¹	
Ion Ratio	AS/CS		Calc.	21-Aug-18/O	0.804	0.733	
Sodium Adsorption Ratio	-		Calc.	21-Aug-18/O	3.06	3.60	

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			Date Collected	13-Aug-18	13-Aug-18		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Conductivity (calc.)	µmho/cm		Calc.	21-Aug-18/O	1080	599	
TDS(calc.)/EC(actual)	-		Calc.	21-Aug-18/O	0.460	0.621	
EC(calc.)/EC(actual)	-		Calc.	21-Aug-18/O	0.985	1.02	
Langelier Index(25°C)	S.I.		Calc.	21-Aug-18/O	-0.168	-3.75	

1. Outside of 10% Acceptance Criteria

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