

C.O.C.: G35538

REPORT No. B13-23730

Report To:

Municipality of Qikiqtarjuaq

P.O. Box 4,

Qikiqtarjuaq Nunavut

Attention: Daisy Nuqingaq

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 613-526-0123

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DATE RECEIVED: 10-Sep-13

JOB/PROJECT NO.:

DATE REPORTED: 18-Sep-13

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.		Lagoon Treated Wastewater			
			Sample I.D.		B13-23730-1			
			Date Collected		05-Aug-13			
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed				
Hardness (as CaCO ₃)	mg/L	1	SM 3120	11-Sep-13/O	24			
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	10-Sep-13/O	99			
Conductivity @25°C	µmho/cm	1	SM 2510B	11-Sep-13/O	369			
Total Suspended Solids	mg/L	3	SM 2540D	11-Sep-13/O	64			
pH @25°C	pH Units		SM 4500H	10-Sep-13/O	7.12			
Chloride	mg/L	0.5	SM4110C	10-Sep-13/O	33.8			
Nitrite (N)	mg/L	0.1	SM4110C	10-Sep-13/O	< 0.1			
Nitrate (N)	mg/L	0.1	SM4110C	10-Sep-13/O	0.1			
Sulphate	mg/L	1	SM4110C	10-Sep-13/O	13			
Calcium	mg/L	0.02	SM 3120	11-Sep-13/O	6.45			
Magnesium	mg/L	0.01	SM 3120	11-Sep-13/O	1.94			
Sodium	mg/L	0.2	SM 3120	11-Sep-13/O	35.3			
Potassium	mg/L	0.1	SM 3120	11-Sep-13/O	11.8			
Aluminum (total)	mg/L	0.01	SM 3120	11-Sep-13/O	0.29			
Arsenic	mg/L	0.0001	EPA 200.8	11-Sep-13/O	0.0004			
Cadmium	mg/L	0.005	SM 3120	11-Sep-13/O	< 0.005			
Cobalt	mg/L	0.005	SM 3120	11-Sep-13/O	< 0.005			
Copper	mg/L	0.002	SM 3120	11-Sep-13/O	0.077			
Chromium	mg/L	0.002	SM 3120	11-Sep-13/O	0.002			
Iron (Total)	mg/L	0.005	SM 3120	11-Sep-13/O	0.623			
Lead	mg/L	0.02	SM 3120	11-Sep-13/O	< 0.02			
Manganese (Total)	mg/L	0.001	SM 3120	11-Sep-13/O	0.026			
Mercury	mg/L	0.00002	SM 3112 B	11-Sep-13/O	< 0.00002			
Nickel	mg/L	0.01	SM 3120	11-Sep-13/O	0.06			
Zinc	mg/L	0.005	SM 3120	11-Sep-13/O	0.068			
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	12-Sep-13/O	16.8			
BOD	mg/L	3	SM 5210B	11-Sep-13/O	50			



M.D.L. = Method Detection Limit

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill

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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			Date Collected		05-Aug-13			
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed				
Total Organic Carbon	mg/L	0.2	EPA 415.1	10-Sep-13/O	31.8			
Oil & Grease-Total	mg/L	1.0	SM 5520	18-Sep-13/K	3.2			
Phenolics	mg/L	0.001	MOEE 3179	13-Sep-13/O	< 0.001			
Fecal Coliform	cfu/100mL	1	MOE E3371	10-Sep-13/O	560000			
Anion Sum	meq/L		Calc.	18-Sep-13/O	3.21			
Cation Sum	meq/L		Calc.	18-Sep-13/O	3.53			
% Difference	%		Calc.	18-Sep-13/O	4.74			
Ion Ratio	AS/CS		Calc.	18-Sep-13/O	0.910			
Sodium Adsorption Ratio	-		Calc.	18-Sep-13/O	3.13			
TDS(ion sum calc.)	mg/L		Calc.	18-Sep-13/O	185			
Conductivity (calc.)	µmho/cm		Calc.	18-Sep-13/O	373			
TDS(calc.)/EC(actual)	-		Calc.	18-Sep-13/O	0.500			
EC(calc.)/EC(actual)	-		Calc.	18-Sep-13/O	1.01			
Langelier Index(25°C)	S.I.		Calc.	18-Sep-13/O	-1.49			

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