

C.O.C.: ---

REPORT No. B16-25398

Report To:

Hamlet of Grise Fiord

P.O. Box 77 Grise Fiord,
Grise Fiord NU X0X 0J0

Attention: Marty Quluguktuk

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
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DATE RECEIVED: 25-Aug-16

JOB/PROJECT NO.:

DATE REPORTED: 31-Aug-16

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.	Lagoon Discharge	Lagoon Shore	Lagoon Halfway Down	
			Sample I.D.	B16-25398-1	B16-25398-2	B16-25398-3	
			Date Collected	11-Aug-16	11-Aug-16	11-Aug-16	
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
BOD	mg/L	3	SM 5210B	26-Aug-16/O	74	20	61
Total Suspended Solids	mg/L	3	SM 2540D	26-Aug-16/O	80	16	68
Hardness (as CaCO ₃)	mg/L	1	SM 3120	26-Aug-16/O	81	127	91
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	26-Aug-16/O	197	158	216
Conductivity @25°C	µmho/cm	1	SM 2510B	25-Aug-16/O	534	386	501
pH @25°C	pH Units		SM 4500H	26-Aug-16/O	7.62	7.64	7.73
Nitrite (N)	mg/L	0.1	SM4110C	25-Aug-16/O	< 0.1	< 0.1	< 0.1
Nitrate (N)	mg/L	0.1	SM4110C	25-Aug-16/O	0.1	< 0.1	0.1
Chloride	mg/L	0.5	SM4110C	25-Aug-16/O	35.6	18.1	32.2
Sulphate	mg/L	1	SM4110C	25-Aug-16/O	< 1	7	< 1
Total Organic Carbon	mg/L	0.2	EPA 415.1	29-Aug-16/O	39.6	16.6	44.0
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	30-Aug-16/O	28.8	9.75	23.1
Phenolics	mg/L	0.001	MOEE 3179	29-Aug-16/O	0.001	< 0.001	0.001
Aluminum	mg/L	0.01	SM 3120	26-Aug-16/O	0.20	0.16	0.23
Arsenic	mg/L	0.0005	EPA 200.8	26-Aug-16/O	0.0005	< 0.0005	< 0.0005
Calcium	mg/L	0.02	SM 3120	26-Aug-16/O	23.1	37.2	26.2
Cadmium	mg/L	0.005	SM 3120	26-Aug-16/O	< 0.005	< 0.005	< 0.005
Cobalt	mg/L	0.005	SM 3120	26-Aug-16/O	< 0.005	< 0.005	< 0.005
Copper	mg/L	0.002	SM 3120	26-Aug-16/O	0.038	0.017	0.035
Chromium	mg/L	0.002	SM 3120	26-Aug-16/O	< 0.002	< 0.002	< 0.002
Lead	mg/L	0.02	SM 3120	26-Aug-16/O	< 0.02	< 0.02	< 0.02
Iron	mg/L	0.005	SM 3120	26-Aug-16/O	0.795	0.452	0.780
Magnesium	mg/L	0.01	SM 3120	26-Aug-16/O	5.68	8.35	6.10
Manganese	mg/L	0.001	SM 3120	26-Aug-16/O	0.049	0.021	0.039
Mercury	mg/L	0.00002	SM 3112 B	26-Aug-16/O	0.00002	< 0.00002	< 0.00002
Nickel	mg/L	0.01	SM 3120	26-Aug-16/O	< 0.01	< 0.01	< 0.01

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

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.



Gord Murphy
Lab Supervisor

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			Date Collected	11-Aug-16	11-Aug-16	11-Aug-16	
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Potassium	mg/L	0.1	SM 3120	26-Aug-16/O	16.3	5.8	13.6
Sodium	mg/L	0.2	SM 3120	26-Aug-16/O	45.5	21.2	39.9
Zinc	mg/L	0.005	SM 3120	26-Aug-16/O	0.045	0.022	0.044
Oil & Grease-Total	mg/L	1.0	SM 5520	30-Aug-16/K	3.9	3.4	3.7
Fecal Coliform	cfu/100mL	1	MOE E3371	25-Aug-16/O	6000	190	2000

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