

C.O.C.: ---

REPORT No. B16-25399

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
Fax: 613-526-1244

DATE RECEIVED: 25-Aug-16

JOB/PROJECT NO.:

DATE REPORTED: 31-Aug-16

P.O. NUMBER:

SAMPLE MATRIX: Leachate

WATERWORKS NO.

			Client I.D.	Leachate			
			Sample I.D.	B16-25399-1			
			Date Collected	11-Aug-16			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
BOD	mg/L	3	SM 5210B	26-Aug-16/O	< 3		
Hardness (as CaCO ₃)	mg/L	1	SM 3120	26-Aug-16/O	219		
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	26-Aug-16/O	178		
pH @25°C	pH Units		SM 4500H	26-Aug-16/O	7.91		
Conductivity @25°C	µmho/cm	1	SM 2510B	25-Aug-16/O	513		
Total Suspended Solids	mg/L	3	SM 2540D	26-Aug-16/O	< 3		
Chloride	mg/L	0.5	SM4110C	25-Aug-16/O	27.2		
Nitrite (N)	mg/L	0.1	SM4110C	25-Aug-16/O	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	25-Aug-16/O	1.6		
Sulphate	mg/L	1	SM4110C	25-Aug-16/O	47		
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	30-Aug-16/O	< 0.01		
Phosphorus-Total	mg/L	0.01	MOEE 3367	30-Aug-16/O	0.01		
Phenolics	mg/L	0.001	MOEE 3179	30-Aug-16/O	< 0.001		
Total Organic Carbon	mg/L	0.2	EPA 415.1	29-Aug-16/O	5.0		
Calcium	mg/L	0.02	SM 3120	26-Aug-16/O	69.5		
Magnesium	mg/L	0.01	SM 3120	26-Aug-16/O	11.1		
Sodium	mg/L	0.2	SM 3120	26-Aug-16/O	24.2		
Potassium	mg/L	0.1	SM 3120	26-Aug-16/O	4.8		
Aluminum (total)	mg/L	0.01	SM 3120	26-Aug-16/O	0.03		
Arsenic	mg/L	0.0005	EPA 200.8	26-Aug-16/O	< 0.0005		
Cadmium	mg/L	0.005	SM 3120	26-Aug-16/O	< 0.005		
Chromium	mg/L	0.002	SM 3120	26-Aug-16/O	< 0.002		
Cobalt	mg/L	0.005	SM 3120	26-Aug-16/O	< 0.005		
Copper	mg/L	0.002	SM 3120	26-Aug-16/O	0.011		
Iron (Total)	mg/L	0.005	SM 3120	26-Aug-16/O	0.035		
Lead	mg/L	0.02	SM 3120	26-Aug-16/O	< 0.02		
Manganese (Total)	mg/L	0.001	SM 3120	26-Aug-16/O	0.008		
Mercury	mg/L	0.00002	SM 3112 B	26-Aug-16/O	< 0.00002		

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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Nickel	mg/L	0.01	SM 3120	26-Aug-16/O	< 0.01		
Zinc	mg/L	0.005	SM 3120	26-Aug-16/O	0.050		
Benzene	µg/L	0.5	EPA 8260	25-Aug-16/O	< 0.5		
Toluene	µg/L	0.5	EPA 8260	25-Aug-16/O	< 0.5		
Ethylbenzene	µg/L	0.5	EPA 8260	25-Aug-16/O	< 0.5		
Xylene, m,p-	µg/L	0.4	EPA 8260	25-Aug-16/O	< 0.4		
Styrene	µg/L	0.5	EPA 8260	25-Aug-16/O	< 0.5		
Xylene, o-	µg/L	0.1	EPA 8260	25-Aug-16/O	< 0.1		
Dichloroethane-d4,1,2-(SS)	%		EPA 8260	25-Aug-16/O	99.0		
Toluene-d8 (SS)	%		EPA 8260	25-Aug-16/O	99.0		
Bromofluorobenzene,4(SS)	%		EPA 8260	25-Aug-16/O	101		
PHC F1 (C6-C10)	µg/L	20	MOE E3421	25-Aug-16/O	< 20		
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	30-Aug-16/K	< 50		
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	30-Aug-16/K	< 400		
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	30-Aug-16/K	< 400		
Oil & Grease-Total	mg/L	1.0	SM 5520	30-Aug-16/K	< 1.0		
Acenaphthene	µg/L	0.05	EPA 8270	30-Aug-16/K	< 0.05		
Acenaphthylene	µg/L	0.05	EPA 8270	30-Aug-16/K	< 0.05		
Anthracene	µg/L	0.05	EPA 8270	30-Aug-16/K	< 0.05		
Benzo(a)anthracene	µg/L	0.05	EPA 8270	30-Aug-16/K	< 0.05		
Benzo(a)pyrene	µg/L	0.01	EPA 8270	30-Aug-16/K	< 0.01		
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	30-Aug-16/K	< 0.05		
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	30-Aug-16/K	< 0.1		
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	30-Aug-16/K	< 0.05		
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	30-Aug-16/K	< 0.05		
Chrysene	µg/L	0.05	EPA 8270	30-Aug-16/K	< 0.05		
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	30-Aug-16/K	< 0.05		
Fluoranthene	µg/L	0.05	EPA 8270	30-Aug-16/K	< 0.05		

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Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Fluorene	µg/L	0.05	EPA 8270	30-Aug-16/K	< 0.05		
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	30-Aug-16/K	< 0.05		
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	30-Aug-16/K	< 0.05		
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	30-Aug-16/K	< 0.05		
Naphthalene	µg/L	0.05	EPA 8270	30-Aug-16/K	< 0.05		
Phenanthrene	µg/L	0.05	EPA 8270	30-Aug-16/K	< 0.05		
Pyrene	µg/L	0.05	EPA 8270	30-Aug-16/K	< 0.05		
2-Fluorobiphenyl (SS)	% rec.	10	EPA 8270	30-Aug-16/K	71.0		
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	30-Aug-16/K	90.0		
Fecal Coliform	cfu/100mL	1	MOE E3371	25-Aug-16/O	< 10		

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