

C.O.C.: ---

REPORT No. B16-31688

Report To:

Municipality of Igloolik
PO Box 30,
Igloolik NU X0A 0L0 Canada

Attention: Brian Fleming

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 19-Oct-16

JOB/PROJECT NO.:

DATE REPORTED: 15-Nov-16

P.O. NUMBER:

SAMPLE MATRIX: Leachate

WATERWORKS NO.

			Client I.D.	Sewage Lagoon			
			Sample I.D.	B16-31688-1			
			Date Collected	05-Oct-16			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
BOD	mg/L	3	SM 5210B	21-Oct-16/O	458		
Total Suspended Solids	mg/L	3	SM 2540D	21-Oct-16/O	9		
Hardness (as CaCO ₃)	mg/L	1	SM 3120	20-Oct-16/O	182		
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	24-Oct-16/O	556		
Conductivity @25°C	µmho/cm	1	SM 2510B	24-Oct-16/O	1730		
pH @25°C	pH Units		SM 4500H	24-Oct-16/O	7.66		
Chloride	mg/L	0.5	SM4110C	24-Oct-16/O	137		
Nitrite (N)	mg/L	0.1	SM4110C	24-Oct-16/O	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	24-Oct-16/O	0.1		
Sulphate	mg/L	1	SM4110C	24-Oct-16/O	2		
Total Organic Carbon	mg/L	0.2	EPA 415.1	25-Oct-16/O	173		
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	31-Oct-16/O	114		
Phenolics	mg/L	0.001	MOEE 3179	25-Oct-16/O	0.327		
Aluminum	mg/L	0.01	SM 3120	20-Oct-16/O	0.42		
Arsenic	mg/L	0.0005	EPA 200.8	20-Oct-16/O	0.0016		
Calcium	mg/L	0.02	SM 3120	20-Oct-16/O	45.5		
Cadmium	mg/L	0.005	SM 3120	20-Oct-16/O	< 0.005		
Cobalt	mg/L	0.005	SM 3120	20-Oct-16/O	< 0.005		
Copper	mg/L	0.002	SM 3120	20-Oct-16/O	0.122		
Chromium	mg/L	0.002	SM 3120	20-Oct-16/O	0.003		
Iron	mg/L	0.005	SM 3120	20-Oct-16/O	0.803		
Potassium	mg/L	0.1	SM 3120	20-Oct-16/O	35.3		
Magnesium	mg/L	0.01	SM 3120	20-Oct-16/O	16.7		
Manganese	mg/L	0.001	SM 3120	20-Oct-16/O	0.080		
Mercury	mg/L	0.00002	SM 3112 B	20-Oct-16/O	0.00009		
Sodium	mg/L	0.2	SM 3120	20-Oct-16/O	99.0		
Nickel	mg/L	0.01	SM 3120	20-Oct-16/O	< 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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Lead	mg/L	0.02	SM 3120	20-Oct-16/O	< 0.02		
Zinc	mg/L	0.005	SM 3120	20-Oct-16/O	0.209		
Phosphorus-Total	mg/L	0.01	MOEE 3367	31-Oct-16/O	17.3		
Acenaphthene	µg/L	0.05	EPA 8270	26-Oct-16/K	< 0.4		
Acenaphthylene	µg/L	0.05	EPA 8270	26-Oct-16/K	< 0.4		
Anthracene	µg/L	0.05	EPA 8270	26-Oct-16/K	< 0.4		
Benzo(a)anthracene	µg/L	0.05	EPA 8270	26-Oct-16/K	< 0.4		
Benzo(a)pyrene	µg/L	0.01	EPA 8270	26-Oct-16/K	< 0.09		
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	26-Oct-16/K	< 0.4		
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	26-Oct-16/K	< 0.9		
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	26-Oct-16/K	< 0.4		
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	26-Oct-16/K	< 0.4		
Chrysene	µg/L	0.05	EPA 8270	26-Oct-16/K	< 0.4		
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	26-Oct-16/K	< 0.4		
Fluoranthene	µg/L	0.05	EPA 8270	26-Oct-16/K	< 0.4		
Fluorene	µg/L	0.05	EPA 8270	26-Oct-16/K	< 0.4		
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	26-Oct-16/K	< 0.4		
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	26-Oct-16/K	2.24		
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	26-Oct-16/K	1.07		
Naphthalene	µg/L	0.05	EPA 8270	26-Oct-16/K	0.54 ¹		
Phenanthrene	µg/L	0.05	EPA 8270	26-Oct-16/K	< 0.4		
Pyrene	µg/L	0.05	EPA 8270	26-Oct-16/K	0.54		
2-Fluorobiphenyl (SS)	% rec.	10	EPA 8270	26-Oct-16/K	73.0		
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	26-Oct-16/K	105		
Benzene	µg/L	0.5	EPA 8260	21-Oct-16/O	< 0.5		
Toluene	µg/L	0.5	EPA 8260	21-Oct-16/O	< 0.5		
Ethylbenzene	µg/L	0.5	EPA 8260	21-Oct-16/O	< 0.5		

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Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Xylene, m,p-	µg/L	0.4	EPA 8260	21-Oct-16/O	< 0.4		
Styrene	µg/L	0.5	EPA 8260	21-Oct-16/O	< 0.5		
Xylene, o-	µg/L	0.1	EPA 8260	21-Oct-16/O	< 0.1		
Xylene, m,p,o-	µg/L	0.4	EPA 8260	21-Oct-16/O	< 0.4		
Dichloroethane-d4,1,2-(SS)	%		EPA 8260	21-Oct-16/O	106		
Toluene-d8 (SS)	%		EPA 8260	21-Oct-16/O	100		
Bromofluorobenzene,4(SS)	%		EPA 8260	21-Oct-16/O	104		
Oil & Grease-Total	mg/L	1.0	SM 5520	25-Oct-16/K	49.1		
PHC F1 (C6-C10)	µg/L	20	MOE E3421	21-Oct-16/O	< 20		
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	14-Nov-16/K	60		
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	14-Nov-16/K	900		
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	14-Nov-16/K	< 400		
Fecal Coliform	cfu/100mL	1	MOE E3371	19-Oct-16/O	310000		

1 diluted due to matrix, elevated detection limits

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