

C.O.C.: ---

REPORT No. B16-22397

Report To:

Municipality of Hall Beach
P.O. Box 3,
Hall Beach NU X0A 0K0 Canada
Attention: Kimberly Young

Caduceon Environmental Laboratories

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

DATE RECEIVED: 29-Jul-16

JOB/PROJECT NO.:

DATE REPORTED: 10-Aug-16

P.O. NUMBER:

SAMPLE MATRIX: Leachate

WATERWORKS NO.

			Client I.D.	Hal 2 Leachate			
			Sample I.D.	B16-22397-1			
			Date Collected	26-Jul-16			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Fecal Coliform	cfu/100mL	1	MOE E3371	29-Jul-16/O	10		
BOD	mg/L	3	SM 5210B	30-Jul-16/O	5		
Total Suspended Solids	mg/L	3	SM 2540D	03-Aug-16/O	9		
Hardness (as CaCO ₃)	mg/L	1	SM 3120	02-Aug-16/O	329		
Conductivity @25°C	µmho/cm	1	SM 2510B	02-Aug-16/O	1150		
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	02-Aug-16/O	323		
pH @25°C	pH Units		SM 4500H	02-Aug-16/O	8.16		
Total Organic Carbon	mg/L	0.2	EPA 415.1	03-Aug-16/O	12.9		
Chloride	mg/L	0.5	SM4110C	02-Aug-16/O	132		
Nitrite (N)	mg/L	0.1	SM4110C	02-Aug-16/O	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	02-Aug-16/O	0.1		
Sulphate	mg/L	1	SM4110C	02-Aug-16/O	127		
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	04-Aug-16/O	3.23		
Phenolics	mg/L	0.001	MOEE 3179	05-Aug-16/O	< 0.001		
Aluminum (total)	mg/L	0.01	SM 3120	02-Aug-16/O	0.05		
Arsenic	mg/L	0.0005	EPA 200.8	02-Aug-16/O	0.0030		
Cadmium	mg/L	0.005	SM 3120	02-Aug-16/O	< 0.005		
Calcium	mg/L	0.02	SM 3120	02-Aug-16/O	87.4		
Cobalt	mg/L	0.005	SM 3120	02-Aug-16/O	< 0.005		
Copper	mg/L	0.002	SM 3120	02-Aug-16/O	0.004		
Chromium	mg/L	0.002	SM 3120	02-Aug-16/O	< 0.002		
Iron (Total)	mg/L	0.005	SM 3120	02-Aug-16/O	1.05		
Lead	mg/L	0.02	SM 3120	02-Aug-16/O	< 0.02		
Magnesium	mg/L	0.01	SM 3120	02-Aug-16/O	27.0		
Manganese (Total)	mg/L	0.001	SM 3120	02-Aug-16/O	0.068		
Mercury	mg/L	0.00002	SM 3112 B	02-Aug-16/O	< 0.00002		
Nickel	mg/L	0.01	SM 3120	02-Aug-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.



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Lab Supervisor

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Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Potassium	mg/L	0.1	SM 3120	02-Aug-16/O	21.5		
Sodium	mg/L	0.2	SM 3120	02-Aug-16/O	104		
Zinc	mg/L	0.005	SM 3120	02-Aug-16/O	0.008		
2-Fluorobiphenyl (SS)	% rec.	10	EPA 8270	04-Aug-16/K	44.0		
Acenaphthene	µg/L	0.05	EPA 8270	04-Aug-16/K	< 0.05		
Acenaphthylene	µg/L	0.05	EPA 8270	04-Aug-16/K	< 0.05		
Anthracene	µg/L	0.05	EPA 8270	04-Aug-16/K	< 0.05		
Benzo(a)anthracene	µg/L	0.05	EPA 8270	04-Aug-16/K	< 0.05		
Benzo(a)pyrene	µg/L	0.01	EPA 8270	04-Aug-16/K	< 0.01		
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	04-Aug-16/K	< 0.05		
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	04-Aug-16/K	< 0.1		
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	04-Aug-16/K	< 0.05		
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	04-Aug-16/K	< 0.05		
Chrysene	µg/L	0.05	EPA 8270	04-Aug-16/K	< 0.05		
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	04-Aug-16/K	< 0.05		
Fluoranthene	µg/L	0.05	EPA 8270	04-Aug-16/K	< 0.05		
Fluorene	µg/L	0.05	EPA 8270	04-Aug-16/K	< 0.05		
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	04-Aug-16/K	< 0.05		
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	04-Aug-16/K	< 0.05		
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	04-Aug-16/K	< 0.05		
Naphthalene	µg/L	0.05	EPA 8270	04-Aug-16/K	< 0.05	1	
Phenanthrene	µg/L	0.05	EPA 8270	04-Aug-16/K	< 0.05		
Pyrene	µg/L	0.05	EPA 8270	04-Aug-16/K	< 0.05		
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	04-Aug-16/K	29.0		
Benzene	µg/L	0.5	EPA 8260	03-Aug-16/O	< 0.5		
Toluene	µg/L	0.5	EPA 8260	03-Aug-16/O	< 0.5		
Ethylbenzene	µg/L	0.5	EPA 8260	03-Aug-16/O	< 0.5		

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Styrene	µg/L	0.5	EPA 8260	03-Aug-16/O	< 0.5		
Xylene, m,p-	µg/L	0.4	EPA 8260	03-Aug-16/O	< 0.4		
Xylene, o-	µg/L	0.1	EPA 8260	03-Aug-16/O	< 0.1		
Dichloroethane-d4,1,2-(SS)	%		EPA 8260	03-Aug-16/O	86.0		
Toluene-d8 (SS)	%		EPA 8260	03-Aug-16/O	99.0		
Bromofluorobenzene,4(SS)	%		EPA 8260	03-Aug-16/O	97.0		
PHC F1 (C6-C10)	µg/L	20	MOE E3421	03-Aug-16/O	< 20		
Comment-extractable	-		-	04-Aug-16	-		
Comment-purgeable	-		-	03-Aug-16/O	-		
Oil & Grease-Total	mg/L	1.0	SM 5520	08-Aug-16/K	1.2		
Phosphorus-Total	mg/L	0.01	MOEE 3367	09-Aug-16/O	0.10		
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	04-Aug-16/K	< 50		
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	04-Aug-16/K	< 400		
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	04-Aug-16/K	< 400		

1. Low Surrogate Recovery

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