

C.O.C.: ---

REPORT No. B16-22945

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: 04-Aug-16

JOB/PROJECT NO.: Landfill Leachate

DATE REPORTED: 10-Aug-16

P.O. NUMBER:

SAMPLE MATRIX: Leachate

WATERWORKS NO.

			Client I.D.	Hal 2 Leachate			
			Sample I.D.	B16-22945-1			
			Date Collected	02-Aug-16			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Fecal Coliform	cfu/100mL	1	MOE E3371	04-Aug-16/O	10		
BOD	mg/L	3	SM 5210B	05-Aug-16/O	39		
Total Suspended Solids	mg/L	3	SM 2540D	05-Aug-16/O	64		
Hardness (as CaCO ₃)	mg/L	1	SM 3120	05-Aug-16/O	213		
Conductivity @25°C	µmho/cm	1	SM 2510B	05-Aug-16/O	1340		
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	05-Aug-16/O	165		
pH @25°C	pH Units		SM 4500H	05-Aug-16/O	7.73		
Total Organic Carbon	mg/L	0.2	EPA 415.1	04-Aug-16/O	30.0		
Chloride	mg/L	0.5	SM4110C	05-Aug-16/O	302		
Nitrite (N)	mg/L	0.1	SM4110C	04-Aug-16/O	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	04-Aug-16/O	0.1		
Sulphate	mg/L	1	SM4110C	04-Aug-16/O	38		
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	08-Aug-16/O	5.77		
Phenolics	mg/L	0.001	MOEE 3179	05-Aug-16/O	< 0.001		
Aluminum (total)	mg/L	0.01	SM 3120	05-Aug-16/O	0.05		
Arsenic	mg/L	0.0005	EPA 200.8	05-Aug-16/O	0.0063		
Cadmium	mg/L	0.005	SM 3120	05-Aug-16/O	< 0.005		
Calcium	mg/L	0.02	SM 3120	05-Aug-16/O	45.2		
Cobalt	mg/L	0.005	SM 3120	05-Aug-16/O	< 0.005		
Copper	mg/L	0.002	SM 3120	05-Aug-16/O	0.013		
Chromium	mg/L	0.002	SM 3120	05-Aug-16/O	< 0.002		
Iron (Total)	mg/L	0.005	SM 3120	05-Aug-16/O	0.238		
Lead	mg/L	0.02	SM 3120	05-Aug-16/O	< 0.02		
Magnesium	mg/L	0.01	SM 3120	05-Aug-16/O	24.3		
Manganese (Total)	mg/L	0.001	SM 3120	05-Aug-16/O	0.016		
Mercury	mg/L	0.00002	SM 3112 B	05-Aug-16/O	< 0.00002		
Nickel	mg/L	0.01	SM 3120	05-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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Potassium	mg/L	0.1	SM 3120	05-Aug-16/O	19.3		
Sodium	mg/L	0.2	SM 3120	05-Aug-16/O	161		
Zinc	mg/L	0.005	SM 3120	05-Aug-16/O	0.037		
2-Fluorobiphenyl (SS)	% rec.	10	EPA 8270	08-Aug-16/K	98		
Acenaphthene	µg/L	0.05	EPA 8270	08-Aug-16/K	< 0.7		
Acenaphthylene	µg/L	0.05	EPA 8270	08-Aug-16/K	< 0.7		
Anthracene	µg/L	0.05	EPA 8270	08-Aug-16/K	< 0.7		
Benzo(a)anthracene	µg/L	0.05	EPA 8270	08-Aug-16/K	< 0.7		
Benzo(a)pyrene	µg/L	0.01	EPA 8270	08-Aug-16/K	< 0.1		
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	08-Aug-16/K	< 0.7		
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	08-Aug-16/K	< 1		
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	08-Aug-16/K	< 0.7		
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	08-Aug-16/K	< 0.7		
Chrysene	µg/L	0.05	EPA 8270	08-Aug-16/K	< 0.7		
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	08-Aug-16/K	< 0.7		
Fluoranthene	µg/L	0.05	EPA 8270	08-Aug-16/K	< 0.7		
Fluorene	µg/L	0.05	EPA 8270	08-Aug-16/K	< 0.7		
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	08-Aug-16/K	< 0.7		
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	08-Aug-16/K	< 0.7		
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	08-Aug-16/K	< 0.7		
Naphthalene	µg/L	0.05	EPA 8270	08-Aug-16/K	< 0.7	1	
Phenanthrene	µg/L	0.05	EPA 8270	08-Aug-16/K	< 0.7		
Pyrene	µg/L	0.05	EPA 8270	08-Aug-16/K	< 0.7		
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	08-Aug-16/K	101		
Benzene	µg/L	0.5	EPA 8260	05-Aug-16/O	< 0.5		
Toluene	µg/L	0.5	EPA 8260	05-Aug-16/O	< 0.5		
Ethylbenzene	µg/L	0.5	EPA 8260	05-Aug-16/O	< 0.5		

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Styrene	µg/L	0.5	EPA 8260	05-Aug-16/O	< 0.5		
Xylene, m,p-	µg/L	0.4	EPA 8260	05-Aug-16/O	< 0.4		
Xylene, o-	µg/L	0.1	EPA 8260	05-Aug-16/O	< 0.1		
Dichloroethane-d4,1,2-(SS)	%		EPA 8260	05-Aug-16/O	102		
Toluene-d8 (SS)	%		EPA 8260	05-Aug-16/O	103		
Bromofluorobenzene,4(SS)	%		EPA 8260	05-Aug-16/O	102		
PHC F1 (C6-C10)	µg/L	20	MOE E3421	05-Aug-16/O	< 20		
Comment-extractable	-		-	08-Aug-16	-		
Comment-purgeable	-		-	05-Aug-16/O	-		
Oil & Grease-Total	mg/L	1.0	SM 5520	08-Aug-16/K	1.6		
Phosphorus-Total	mg/L	0.01	MOEE 3367	10-Aug-16/O	2.66		
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	08-Aug-16/K	< 50		
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	08-Aug-16/K	< 400		
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	08-Aug-16/K	< 400		

1 Diluted due to sample matrix

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