

C.O.C.: ---

REPORT No. B14-14696

Report To:

Hamlet of Hall Beach
P.O. Box 3,
Hall Beach NU X0A 0K0 Canada

Attention: Tracy Laine

Caduceon Environmental Laboratories

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

DATE RECEIVED: 20-Jun-14

JOB/PROJECT NO.:

DATE REPORTED: 08-Jul-14

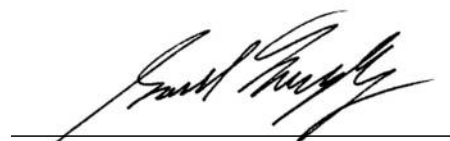
P.O. NUMBER:

SAMPLE MATRIX: Leachate

WATERWORKS NO.

Client I.D.	Leaking Sewage Lagoon Samples			
Sample I.D.	B14-14696-1			
Date Collected	11-Jun-14			

Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed				
Fecal Coliform	cfu/100mL	1	MOE E3371	20-Jun-14/O	6000			
BOD	mg/L	3	SM 5210B	23-Jun-14/O	68			
Total Suspended Solids	mg/L	3	SM 2540D	25-Jun-14/O	8			
Hardness (as CaCO ₃)	mg/L	1	SM 3120	25-Jun-14/O	217			
Conductivity @25°C	µmho/cm	1	SM 2510B	23-Jun-14/O	1260			
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	23-Jun-14/O	315			
pH @25°C	pH Units		SM 4500H	23-Jun-14/O	7.48			
Total Organic Carbon	mg/L	0.2	EPA 415.1	20-Jun-14/O	42.5			
Chloride	mg/L	0.5	SM4110C	23-Jun-14/O	152			
Nitrite (N)	mg/L	0.1	SM4110C	25-Jun-14/O	< 0.1			
Nitrate (N)	mg/L	0.1	SM4110C	25-Jun-14/O	< 0.1			
Sulphate	mg/L	1	SM4110C	23-Jun-14/O	34			
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	26-Jun-14/O	43.6			
Phosphorus-Total	mg/L	0.01	E3199A.1	04-Jul-14/K	4.84			
Phenolics	mg/L	0.001	MOEE 3179	25-Jun-14/O	0.132			
Aluminum (total)	mg/L	0.01	SM 3120	25-Jun-14/O	0.09			
Arsenic	mg/L	0.0005	EPA 200.8	23-Jun-14/O	0.0023			
Cadmium	mg/L	0.005	SM 3120	25-Jun-14/O	< 0.005			
Calcium	mg/L	0.02	SM 3120	25-Jun-14/O	59.8			
Cobalt	mg/L	0.005	SM 3120	25-Jun-14/O	< 0.005			
Copper	mg/L	0.002	SM 3120	25-Jun-14/O	0.054			
Chromium	mg/L	0.002	SM 3120	25-Jun-14/O	< 0.002			
Iron (Total)	mg/L	0.005	SM 3120	25-Jun-14/O	0.256			
Lead	mg/L	0.02	SM 3120	25-Jun-14/O	< 0.02			



Gord Murphy

Lab Supervisor

M.D.L. = Method Detection Limit

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill

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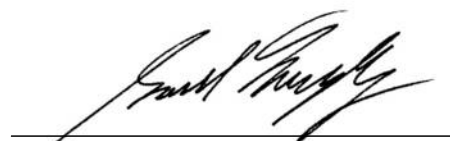
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			Sample I.D.		B14-14696-1			
			Date Collected		11-Jun-14			
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed				
Magnesium	mg/L	0.01	SM 3120	25-Jun-14/O	16.5			
Manganese (Total)	mg/L	0.001	SM 3120	25-Jun-14/O	0.045			
Mercury	mg/L	0.00002	SM 3112 B	23-Jun-14/O	< 0.00002			
Nickel	mg/L	0.01	SM 3120	25-Jun-14/O	< 0.01			
Potassium	mg/L	0.1	SM 3120	25-Jun-14/O	17.9			
Sodium	mg/L	0.2	SM 3120	25-Jun-14/O	96.6			
Zinc	mg/L	0.005	SM 3120	25-Jun-14/O	0.060			
Acenaphthene	µg/L	0.05	EPA 8270	27-Jun-14/K	< 0.05			
Acenaphthylene	µg/L	0.05	EPA 8270	27-Jun-14/K	< 0.05			
Anthracene	µg/L	0.05	EPA 8270	27-Jun-14/K	< 0.05			
Benzo(a)anthracene	µg/L	0.05	EPA 8270	27-Jun-14/K	< 0.05			
Benzo(a)pyrene	µg/L	0.01	EPA 8270	27-Jun-14/K	< 0.01			
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	27-Jun-14/K	< 0.05			
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	27-Jun-14/K	< 0.1			
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	27-Jun-14/K	< 0.05			
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	27-Jun-14/K	< 0.05			
Chrysene	µg/L	0.05	EPA 8270	27-Jun-14/K	< 0.05			
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	27-Jun-14/K	< 0.05			
Fluoranthene	µg/L	0.05	EPA 8270	27-Jun-14/K	< 0.05			
Fluorene	µg/L	0.05	EPA 8270	27-Jun-14/K	< 0.05			
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	27-Jun-14/K	< 0.05			
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	27-Jun-14/K	0.25			
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	27-Jun-14/K	0.28			
Naphthalene	µg/L	0.05	EPA 8270	27-Jun-14/K	0.16			



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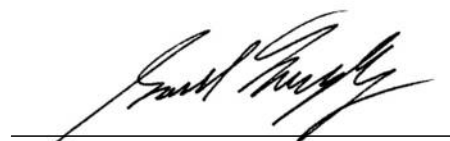
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			Date Collected		11-Jun-14			
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed				
Phenanthrene	µg/L	0.05	EPA 8270	27-Jun-14/K	< 0.05			
Pyrene	µg/L	0.05	EPA 8270	27-Jun-14/K	< 0.05			
Benzene	µg/L	0.5	EPA 8260	23-Jun-14/O	< 0.5			
Toluene	µg/L	0.5	EPA 8260	23-Jun-14/O	0.7			
Ethylbenzene	µg/L	0.5	EPA 8260	23-Jun-14/O	< 0.5			
Styrene	µg/L	0.5	EPA 8260	23-Jun-14/O	< 0.5			
Xylene, m,p-	µg/L	0.4	EPA 8260	23-Jun-14/O	< 0.4			
Xylene, o-	µg/L	0.1	EPA 8260	23-Jun-14/O	0.2			
PHC F1 (C6-C10)	µg/L	20	MOE E3421	23-Jun-14/O	< 20			
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	23-Jun-14/O	60			
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	23-Jun-14/O	< 400			
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	23-Jun-14/O	< 400			
Comment-extractable	-		-	23-Jun-14	-			
Comment-purgeable	-		-	23-Jun-14/O	-			
Oil & Grease-Total	mg/L	1.0	SM 5520	30-Jun-14/K	3.5			



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