

C.O.C.: ---

REPORT No. B14-20418

Report To:

ATCO Structure & Logistics

PO Box 88,
NU X0A 0V0 Canada

Attention: Rick Gaulton

Caduceon Environmental Laboratories

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

DATE RECEIVED: 13-Aug-14

JOB/PROJECT NO.: Hamlet of Resolute Bay

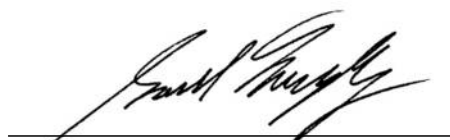
DATE REPORTED: 22-Aug-14

P.O. NUMBER:

SAMPLE MATRIX: Leachate

WATERWORKS NO.

			Client I.D.	Resolute Landfill			
			Sample I.D.	B14-20418-1			
			Date Collected	09-Aug-14			
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Fecal Coliform	cfu/100mL	1	MOE E3371	13-Aug-14/O	910		
BOD	mg/L	3	SM 5210B	15-Aug-14/O	6		
Total Suspended Solids	mg/L	3	SM 2540D	20-Aug-14/O	3		
Hardness (as CaCO ₃)	mg/L	1	SM 3120	14-Aug-14/O	243		
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	14-Aug-14/O	169		
Conductivity @25°C	µmho/cm	1	SM 2510B	14-Aug-14/O	611		
pH @25°C	pH Units		SM 4500H	14-Aug-14/O	8.02		
Total Organic Carbon	mg/L	0.2	EPA 415.1	14-Aug-14/O	10.8		
Nitrite (N)	mg/L	0.1	SM4110C	14-Aug-14/O	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	14-Aug-14/O	0.1		
Chloride	mg/L	0.5	SM4110C	14-Aug-14/O	30.0		
Sulphate	mg/L	1	SM4110C	14-Aug-14/O	121		
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	14-Aug-14/O	< 0.01		
Phosphorus-Total	mg/L	0.01	MOEE 3367	21-Aug-14/O	0.06		
Phenolics	mg/L	0.001	MOEE 3179	15-Aug-14/O	0.126		
Aluminum (total)	mg/L	0.01	SM 3120	14-Aug-14/O	0.06		
Arsenic	mg/L	0.0005	EPA 200.8	14-Aug-14/O	0.0008		
Calcium	mg/L	0.02	SM 3120	14-Aug-14/O	77.4		
Cadmium	mg/L	0.005	SM 3120	14-Aug-14/O	< 0.005		
Cobalt	mg/L	0.005	SM 3120	14-Aug-14/O	< 0.005		
Copper	mg/L	0.002	SM 3120	14-Aug-14/O	0.004		
Chromium	mg/L	0.002	SM 3120	14-Aug-14/O	< 0.002		
Iron (Total)	mg/L	0.005	SM 3120	14-Aug-14/O	0.182		
Lead	mg/L	0.02	SM 3120	14-Aug-14/O	< 0.02		
Magnesium	mg/L	0.01	SM 3120	14-Aug-14/O	12.1		
Manganese (Total)	mg/L	0.001	SM 3120	14-Aug-14/O	0.057		
Mercury	mg/L	0.00002	SM 3112 B	14-Aug-14/O	< 0.00002		



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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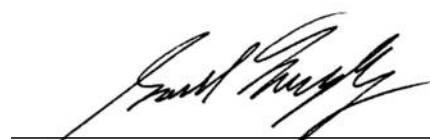
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Nickel	mg/L	0.01	SM 3120	14-Aug-14/O	< 0.01		
Potassium	mg/L	0.1	SM 3120	14-Aug-14/O	4.3		
Sodium	mg/L	0.2	SM 3120	14-Aug-14/O	20.2		
Zinc	mg/L	0.005	SM 3120	14-Aug-14/O	0.029		
Acenaphthene	µg/L	0.05	EPA 8270	20-Aug-14/K	0.25		
Acenaphthylene	µg/L	0.05	EPA 8270	20-Aug-14/K	< 0.05		
Anthracene	µg/L	0.05	EPA 8270	20-Aug-14/K	0.09		
Benzo(a)anthracene	µg/L	0.05	EPA 8270	20-Aug-14/K	< 0.05		
Benzo(a)pyrene	µg/L	0.01	EPA 8270	20-Aug-14/K	< 0.01		
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	20-Aug-14/K	< 0.05		
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	20-Aug-14/K	< 0.1		
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	20-Aug-14/K	< 0.05		
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	20-Aug-14/K	< 0.05		
Chrysene	µg/L	0.05	EPA 8270	20-Aug-14/K	< 0.05		
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	20-Aug-14/K	< 0.05		
Fluoranthene	µg/L	0.05	EPA 8270	20-Aug-14/K	0.08		
Fluorene	µg/L	0.05	EPA 8270	20-Aug-14/K	0.31		
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	20-Aug-14/K	< 0.05		
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	20-Aug-14/K	0.12		
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	20-Aug-14/K	0.24		
Naphthalene	µg/L	0.05	EPA 8270	20-Aug-14/K	0.84		
Phenanthrene	µg/L	0.05	EPA 8270	20-Aug-14/K	0.62		
Pyrene	µg/L	0.05	EPA 8270	20-Aug-14/K	< 0.05		
2-Fluorobiphenyl (SS)	% rec.	10	EPA 8270	20-Aug-14/K	83.0		
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	20-Aug-14/K	102		
Benzene	µg/L	0.5	EPA 8260	15-Aug-14/O	< 0.5		
Toluene	µg/L	0.5	EPA 8260	15-Aug-14/O	< 0.5		



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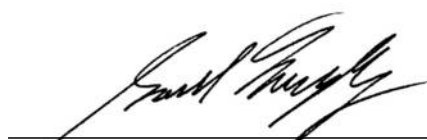
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Ethylbenzene	µg/L	0.5	EPA 8260	15-Aug-14/O	< 0.5		
Xylene, m,p-	µg/L	0.4	EPA 8260	15-Aug-14/O	< 0.4		
Styrene	µg/L	0.5	EPA 8260	15-Aug-14/O	< 0.5		
Xylene, o-	µg/L	0.1	EPA 8260	15-Aug-14/O	< 0.1		
Dichloroethane-d4,1,2-(SS)	%		EPA 8260	15-Aug-14/O	106		
Toluene-d8 (SS)	%		EPA 8260	15-Aug-14/O	108		
Bromofluorobenzene,4(SS)	%		EPA 8260	15-Aug-14/O	104		
PHC F1 (C6-C10)	µg/L	20	MOE E3421	15-Aug-14/O	< 20		
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	18-Aug-14/O	< 50		
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	18-Aug-14/O	< 400		
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	18-Aug-14/O	< 400		
Oil & Grease-Total	mg/L	1.0	SM 5520	21-Aug-14/K	< 1.0		



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