

C.O.C.: G35537

REPORT No. B13-20131

Report To:

Hamlet of Pond Inlet

P.O Box 379,
Pond Inlet Nunavut X0A 0S0 Canada

Attention: Mike Rubin

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1

Tel: 613-526-0123

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DATE RECEIVED: 06-Aug-13

JOB/PROJECT NO.:

DATE REPORTED: 16-Aug-13

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.	Leachate			
			Sample I.D.	B13-20131-1			
			Date Collected	30-Jul-13			
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Fecal Coliform	cfu/100mL	1	MOE E3371	06-Aug-13/O	< 10		
Hardness (as CaCO ₃)	mg/L	1	SM 3120	07-Aug-13/O	442		
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	06-Aug-13/O	153		
Total Suspended Solids	mg/L	3	SM 2540D	07-Aug-13/O	< 3		
pH @25°C	pH Units		SM 4500H	06-Aug-13/O	7.57		
Conductivity @25°C	µmho/cm	1	SM 2510B	07-Aug-13/O	1490		
Chloride	mg/L	0.5	SM4110C	06-Aug-13/O	142		
Nitrite (N)	mg/L	0.1	SM4110C	06-Aug-13/O	0.3		
Nitrate (N)	mg/L	0.1	SM4110C	06-Aug-13/O	5.1		
Sulphate	mg/L	1	SM4110C	07-Aug-13/O	405		
Calcium	mg/L	0.02	SM 3120	07-Aug-13/O	116		
Magnesium	mg/L	0.01	SM 3120	07-Aug-13/O	36.8		
Sodium	mg/L	0.2	SM 3120	07-Aug-13/O	112		
Potassium	mg/L	0.1	SM 3120	07-Aug-13/O	16.7		
Aluminum (total)	mg/L	0.01	SM 3120	07-Aug-13/O	0.06		
Arsenic	mg/L	0.0005	EPA 200.8	07-Aug-13/O	0.0023		
Cadmium	mg/L	0.005	SM 3120	07-Aug-13/O	< 0.005		
Cobalt	mg/L	0.005	SM 3120	07-Aug-13/O	< 0.005		
Copper	mg/L	0.002	SM 3120	07-Aug-13/O	0.009		
Chromium	mg/L	0.002	SM 3120	07-Aug-13/O	< 0.002		
Iron (Total)	mg/L	0.005	SM 3120	07-Aug-13/O	0.269		
Manganese (Total)	mg/L	0.001	SM 3120	07-Aug-13/O	0.709		
Mercury	mg/L	0.00002	SM 3112 B	07-Aug-13/O	< 0.00002		
Nickel	mg/L	0.01	SM 3120	07-Aug-13/O	0.01		
Lead	mg/L	0.02	SM 3120	07-Aug-13/O	< 0.02		
Zinc	mg/L	0.005	SM 3120	07-Aug-13/O	< 0.005		
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	07-Aug-13/O	2.36		
Phosphorus-Total	mg/L	0.01	MOEE 3367	12-Aug-13/O	0.04		



M.D.L. = Method Detection Limit

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

Greg Clarkin , BSc., C. Chem
Lab Manager - Ottawa District

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Phenolics	mg/L	0.001	MOEE 3179	14-Aug-13/O	0.002		
BOD	mg/L	3	SM 5210B	07-Aug-13/O	4		
Total Organic Carbon	mg/L	0.2	EPA 415.1	07-Aug-13/O	27.7		
Oil & Grease-Total	mg/L	1.0	SM 5520	12-Aug-13/K	< 1.0		
Benzene	µg/L	0.5	EPA 8260	06-Aug-13/O	< 0.5		
Toluene	µg/L	0.5	EPA 8260	06-Aug-13/O	< 0.5		
Ethylbenzene	µg/L	0.5	EPA 8260	06-Aug-13/O	< 0.5		
Xylene, m,p-	µg/L	1.0	EPA 8260	06-Aug-13/O	< 1.0		
Xylene, o-	µg/L	0.5	EPA 8260	06-Aug-13/O	< 0.5		
Xylene, m,p,o-	µg/L	1.1	EPA 8260	06-Aug-13/O	< 1.1		
Toluene-d8 (SS)	%		EPA 8260	06-Aug-13/O	103		
PHC F1 (C6-C10)	µg/L	50	MOE E3421	15-Aug-13/O	< 50		
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	12-Aug-13/O	< 50		
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	12-Aug-13/O	< 400		
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	12-Aug-13/O	< 400		
Comment-extractable	-		-	12-Aug-13	-		
Acenaphthene	µg/L	0.05	EPA 8270	12-Aug-13/K	< 0.05		
Acenaphthylene	µg/L	0.05	EPA 8270	12-Aug-13/K	< 0.05		
Anthracene	µg/L	0.05	EPA 8270	12-Aug-13/K	< 0.05		
Benzo(a)anthracene	µg/L	0.05	EPA 8270	12-Aug-13/K	< 0.05		
Benzo(a)pyrene	µg/L	0.01	EPA 8270	12-Aug-13/K	< 0.01		
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	12-Aug-13/K	< 0.05		
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	12-Aug-13/K	< 0.1		
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	12-Aug-13/K	< 0.05		
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	12-Aug-13/K	< 0.05		
Chrysene	µg/L	0.05	EPA 8270	12-Aug-13/K	< 0.05		
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	12-Aug-13/K	< 0.05		
Fluoranthene	µg/L	0.05	EPA 8270	12-Aug-13/K	< 0.05		



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Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed				
Fluorene	µg/L	0.05	EPA 8270	12-Aug-13/K	< 0.05			
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	12-Aug-13/K	< 0.05			
Methylnaphthalene, 1-	µg/L	0.05	EPA 8270	12-Aug-13/K	< 0.05			
Methylnaphthalene, 2-	µg/L	0.05	EPA 8270	12-Aug-13/K	< 0.05			
Naphthalene	µg/L	0.05	EPA 8270	12-Aug-13/K	< 0.05			
Phenanthrene	µg/L	0.05	EPA 8270	12-Aug-13/K	< 0.05			
Pyrene	µg/L	0.05	EPA 8270	12-Aug-13/K	< 0.05			
2-Fluorobiphenyl (SS)	% rec.	10	EPA 8270	12-Aug-13/K	65.0			
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	12-Aug-13/K	67.0			

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