

C.O.C.: G35604

REPORT No. B13-18916

Report To:

Hamlet of Resolute Bay

Government Office,
NU X0A 0V0 Canada

Attention: Rick Goulton

Caduceon Environmental Laboratories

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

DATE RECEIVED: 23-Jul-13

JOB/PROJECT NO.:

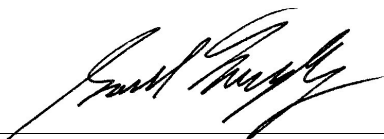
DATE REPORTED: 01-Aug-13

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.		Leachate			
			Sample I.D.		B13-18916-1			
			Date Collected		23-Jul-13			
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed				
Fecal Coliform	cfu/100mL	1	MOE E3371	23-Jul-13/O	20			
BOD	mg/L	3	SM 5210B	25-Jul-13/O	12			
Hardness (as CaCO ₃)	mg/L	1	SM 3120	24-Jul-13/O	431			
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	24-Jul-13/O	179			
Conductivity @25°C	µmho/cm	1	SM 2510B	24-Jul-13/O	1070			
pH @25°C	pH Units		SM 4500H	24-Jul-13/O	7.83			
Total Organic Carbon	mg/L	0.2	EPA 415.1	24-Jul-13/O	21.5			
Total Suspended Solids	mg/L	3	SM 2540D	24-Jul-13/O	6			
Chloride	mg/L	0.5	SM4110C	23-Jul-13/O	75.4			
Nitrite (N)	mg/L	0.1	SM4110C	23-Jul-13/O	< 0.1			
Nitrate (N)	mg/L	0.1	SM4110C	23-Jul-13/O	0.2			
Sulphate	mg/L	1	SM4110C	24-Jul-13/O	264			
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	25-Jul-13/O	2.25			
Phosphorus-Total	mg/L	0.01	MOEE 3367	25-Jul-13/O	0.20			
Phenolics	mg/L	0.001	MOEE 3179	25-Jul-13/O	0.004			
Aluminum (total)	mg/L	0.01	SM 3120	24-Jul-13/O	0.10			
Arsenic	mg/L	0.0005	EPA 200.8	26-Jul-13/O	0.0021			
Calcium	mg/L	0.02	SM 3120	24-Jul-13/O	140			
Cadmium	mg/L	0.005	SM 3120	24-Jul-13/O	< 0.005			
Cobalt	mg/L	0.005	SM 3120	24-Jul-13/O	< 0.005			
Copper	mg/L	0.002	SM 3120	24-Jul-13/O	0.039			
Chromium	mg/L	0.002	SM 3120	24-Jul-13/O	0.002			
Iron (Total)	mg/L	0.005	SM 3120	24-Jul-13/O	0.546			
Lead	mg/L	0.02	SM 3120	24-Jul-13/O	< 0.02			
Magnesium	mg/L	0.01	SM 3120	24-Jul-13/O	19.5			
Manganese (Total)	mg/L	0.001	SM 3120	24-Jul-13/O	0.170			
Mercury	mg/L	0.00002	SM 3112 B	24-Jul-13/O	< 0.00002			
Nickel	mg/L	0.01	SM 3120	24-Jul-13/O	< 0.01			



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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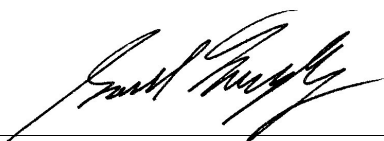
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Sodium	mg/L	0.2	SM 3120	24-Jul-13/O	45.4			
Potassium	mg/L	0.1	SM 3120	24-Jul-13/O	17.5			
Zinc	mg/L	0.005	SM 3120	24-Jul-13/O	0.233			
Acenaphthene	µg/L	0.05	EPA 8270	29-Jul-13/K	< 0.05			
Acenaphthylene	µg/L	0.05	EPA 8270	29-Jul-13/K	< 0.05			
Anthracene	µg/L	0.05	EPA 8270	29-Jul-13/K	< 0.05			
Benzo(a)anthracene	µg/L	0.05	EPA 8270	29-Jul-13/K	< 0.05			
Benzo(a)pyrene	µg/L	0.01	EPA 8270	29-Jul-13/K	< 0.01			
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	29-Jul-13/K	< 0.05			
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	29-Jul-13/K	< 0.05			
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	29-Jul-13/K	< 0.05			
Fluoranthene	µg/L	0.05	EPA 8270	29-Jul-13/K	< 0.05			
Fluorene	µg/L	0.05	EPA 8270	29-Jul-13/K	< 0.05			
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	29-Jul-13/K	< 0.05			
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	29-Jul-13/K	< 0.05			
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	29-Jul-13/K	< 0.05			
Naphthalene	µg/L	0.05	EPA 8270	29-Jul-13/K	< 0.05			
Phenanthrene	µg/L	0.05	EPA 8270	29-Jul-13/K	< 0.05			
Pyrene	µg/L	0.05	EPA 8270	29-Jul-13/K	< 0.05			
Benzene	µg/L	0.5	EPA 8260	24-Jul-13/O	< 0.5			
Toluene	µg/L	0.5	EPA 8260	24-Jul-13/O	< 0.5			
Ethylbenzene	µg/L	0.5	EPA 8260	24-Jul-13/O	< 0.5			
Xylene, m,p-	µg/L	1.0	EPA 8260	24-Jul-13/O	< 1.0			
Styrene	µg/L	0.5	EPA 8260	24-Jul-13/O	< 0.5			
Xylene, o-	µg/L	0.5	EPA 8260	24-Jul-13/O	< 0.5			
PHC F1 (C6-C10)	µg/L	50	MOE E3421	25-Jul-13/O	< 50			
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	31-Jul-13/O	100			
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	31-Jul-13/O	< 400			



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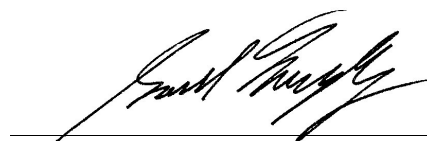
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Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed				
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	31-Jul-13/O	< 400			
Comment-purgeable	-		-	25-Jul-13/O	-			
Comment-extractable	-		-	31-Jul-13	NDP			
Oil & Grease-Total	mg/L	1.0	SM 5520	26-Jul-13/K	< 1.0			



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