

C.O.C.: ---

REPORT No. B14-15116

Report To:

Hamlet of Kimmirut
P.O Box 120,
Kimmirut Nu X0A 0N0

Attention: Saqitqat Tamela

Caduceon Environmental Laboratories

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

DATE RECEIVED: 24-Jun-14

JOB/PROJECT NO.:

DATE REPORTED: 08-Jul-14

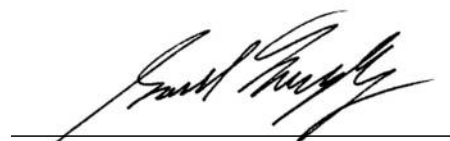
P.O. NUMBER:

SAMPLE MATRIX: Leachate

WATERWORKS NO.

Client I.D.	Leachate			
Sample I.D.	B14-15116-1			
Date Collected	16-Jun-14			

Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed				
Fecal Coliform	cfu/100mL	1	MOE E3371	24-Jun-14/O	760000			
BOD	mg/L	3	SM 5210B	25-Jun-14/O	27			
Total Suspended Solids	mg/L	3	SM 2540D	25-Jun-14/O	12			
pH @25°C	pH Units		SM 4500H	25-Jun-14/O	7.80			
Hardness (as CaCO ₃)	mg/L	1	SM 3120	25-Jun-14/O	203			
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	25-Jun-14/O	180			
Conductivity @25°C	µmho/cm	1	SM 2510B	26-Jun-14/O	522			
Nitrite (N)	mg/L	0.1	SM4110C	02-Jul-14/O	< 0.1			
Nitrate (N)	mg/L	0.1	SM4110C	02-Jul-14/O	0.2			
Chloride	mg/L	0.5	SM4110C	02-Jul-14/O	10.9			
Sulphate	mg/L	1	SM4110C	02-Jul-14/O	72			
Total Organic Carbon	mg/L	0.2	EPA 415.1	25-Jun-14/O	8.8			
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	02-Jul-14/O	12.8			
Phosphorus-Total	mg/L	0.01	E3199A.1	04-Jul-14/K	1.47			
Phenolics	mg/L	0.001	MOEE 3179	25-Jun-14/O	< 0.001			
Aluminum (total)	mg/L	0.01	SM 3120	25-Jun-14/O	0.06			
Arsenic	mg/L	0.0005	EPA 200.8	25-Jun-14/O	< 0.0005			
Cadmium	mg/L	0.005	SM 3120	25-Jun-14/O	< 0.005			
Calcium	mg/L	0.02	SM 3120	25-Jun-14/O	61.9			
Cobalt	mg/L	0.005	SM 3120	25-Jun-14/O	< 0.005			
Copper	mg/L	0.002	SM 3120	25-Jun-14/O	0.005			
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	1.29			
Lead	mg/L	0.02	SM 3120	25-Jun-14/O	< 0.02			
Magnesium	mg/L	0.01	SM 3120	25-Jun-14/O	11.6			
Manganese (Total)	mg/L	0.001	SM 3120	25-Jun-14/O	0.056			



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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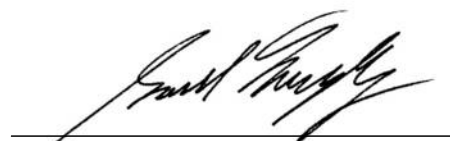
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WATERWORKS NO.

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			Sample I.D.	B14-15116-1			
			Date Collected	16-Jun-14			
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Mercury	mg/L	0.00002	SM 3112 B	25-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	4.3		
Sodium	mg/L	0.2	SM 3120	25-Jun-14/O	13.3		
Zinc	mg/L	0.005	SM 3120	25-Jun-14/O	0.036		
Acenaphthene	µg/L	0.05	EPA 8270	04-Jul-14/K	< 2		
Acenaphthylene	µg/L	0.05	EPA 8270	04-Jul-14/K	< 2		
Anthracene	µg/L	0.05	EPA 8270	04-Jul-14/K	< 2		
Benzo(a)anthracene	µg/L	0.05	EPA 8270	04-Jul-14/K	< 2		
Benzo(a)pyrene	µg/L	0.01	EPA 8270	04-Jul-14/K	< 0.4		
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	04-Jul-14/K	< 2		
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	04-Jul-14/K	< 4		
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	04-Jul-14/K	< 2		
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	04-Jul-14/K	< 2		
Chrysene	µg/L	0.05	EPA 8270	04-Jul-14/K	< 2		
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	04-Jul-14/K	< 2		
Fluoranthene	µg/L	0.05	EPA 8270	04-Jul-14/K	< 2		
Fluorene	µg/L	0.05	EPA 8270	04-Jul-14/K	< 2		
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	04-Jul-14/K	< 2		
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	04-Jul-14/K	9.56		
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	04-Jul-14/K	14.7		
Naphthalene	µg/L	0.05	EPA 8270	04-Jul-14/K	< 2	1	
Phenanthrene	µg/L	0.05	EPA 8270	04-Jul-14/K	< 2		
Pyrene	µg/L	0.05	EPA 8270	04-Jul-14/K	< 2		
Benzene	µg/L	0.5	EPA 8260	26-Jun-14/O	< 0.5		
Toluene	µg/L	0.5	EPA 8260	26-Jun-14/O	< 0.5		



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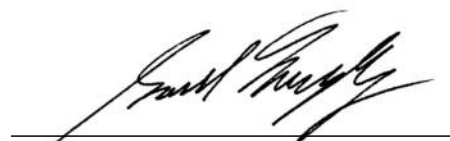
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			Date Collected	16-Jun-14			
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Ethylbenzene	µg/L	0.5	EPA 8260	26-Jun-14/O	< 0.5		
Xylene, m,p-	µg/L	0.4	EPA 8260	26-Jun-14/O	< 0.4		
Styrene	µg/L	0.5	EPA 8260	26-Jun-14/O	< 0.5		
Xylene, o-	µg/L	0.1	EPA 8260	26-Jun-14/O	< 0.1		
PHC F1 (C6-C10)	µg/L	20	MOE E3421	26-Jun-14/O	< 20		
PHC F2 (>C10-C16)	µg/L	50	MOE PHC E3421	03-Jul-14/K	70		
PHC F3 (>C16-C34)	µg/L	400	MOE PHC E3421	03-Jul-14/K	2400		
PHC F4 (>C34-C50)	µg/L	400	MOE PHC E3421	03-Jul-14/K	< 400		
Oil & Grease-Total	mg/L	1.0	SM 5520	03-Jul-14/K	4.3		

1 Low Surrogate Recovery due to matrix



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