



CERTIFICATE OF ANALYSIS

Final Report

REPORT No. B10-31263
C.O.C.: G04874
Report To:

Hamlet of Arctic Bay
Box 150,
Arctic Bay NU X0A 0A0 Canada

Attention: Joeli Qamanirq

Caduceon Environmental Laboratories

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

DATE RECEIVED: 18-Oct-10

JOB/PROJECT NO.: Annual Discharge

DATE REPORTED: 04-Nov-10

P.O. NUMBER:
SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.	Sample 1 ARC-4			
			Sample I.D.	B10-31263-1			
			Date Collected	18-Oct-10			
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Fecal Coliform	cfu/100ml	1	MOE E3371	18-Oct-10/O	20000		
BOD	mg/L	3	SM 5210	21-Oct-10/O	337		
Hardness (as CaCO ₃)	mg/L	1	SM 3120	22-Oct-10/O	95		
Alkalinity (as CaCO ₃)	mg/L	5	SM 2320	25-Oct-10/O	742		
Conductivity	µmho/cm	1	SM 2510	20-Oct-10/O	2140		
pH	pH Units		EPA 150.1	19-Oct-10/O	7.13		
Total Suspended Solids	mg/L	3	SM 2540	22-Oct-10/O	50		
Chloride	mg/L	0.5	EPA 300.0	19-Oct-10/O	129		
Nitrite (N)	mg/L	0.1	EPA 300.0	19-Oct-10/O	< 0.1		
Nitrate (N)	mg/L	0.1	EPA 300.0	19-Oct-10/O	< 0.1		
Sulphate	mg/L	1	EPA 300.0	19-Oct-10/O	30		
Total Kjeldahl Nitrogen	mg/L	0.05	EPA 351.2	21-Oct-10/O	178		
Ammonia (N)-Total	mg/L	0.01	EPA 350.2	25-Oct-10/O	181		
Phosphorus-Total	mg/L	0.01	EPA 365.4	21-Oct-10/O	14.1		
Phenolics	mg/L	0.001	EPA 420.2	02-Nov-10/O	0.848		
Total Organic Carbon	mg/L	0.2	EPA 415.1	19-Oct-10/O	98.5		
Aluminum	mg/L	0.01	SM 3120	22-Oct-10/O	0.65		
Antimony	mg/L	0.0005	EPA 200.8	03-Nov-10/O	0.0013		
Arsenic	mg/L	0.0005	EPA 200.8	03-Nov-10/O	0.0028		
Bismuth	mg/L	0.02	SM 3120	22-Oct-10/O	< 0.02		
Boron	mg/L	0.005	SM 3120	22-Oct-10/O	0.306		
Cadmium	mg/L	0.005	SM 3120	22-Oct-10/O	< 0.005		
Calcium	mg/L	0.02	SM 3120	22-Oct-10/O	17.4		
Chromium	mg/L	0.002	SM 3120	22-Oct-10/O	< 0.002		
Cobalt	mg/L	0.005	SM 3120	22-Oct-10/O	< 0.005		
Copper	mg/L	0.002	SM 3120	22-Oct-10/O	0.106		
Iron	meq/L		SM 3120	22-Oct-10/O	2.38		

M.D.L. = Method Detection Limit

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


Gord Murphy

Lab Supervisor

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			Sample I.D.	B10-31263-1			
			Date Collected	18-Oct-10			
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Lead	mg/L	0.02	SM 3120	22-Oct-10/O	< 0.02		
Magnesium	mg/L	0.01	SM 3120	22-Oct-10/O	12.5		
Manganese	mg/L	0.001	SM 3120	22-Oct-10/O	0.470		
Mercury	mg/L	0.00002	SM 3112	19-Oct-10/O	0.00011		
Molybdenum	mg/L	0.01	SM 3120	22-Oct-10/O	< 0.01		
Nickel	mg/L	0.01	SM 3120	22-Oct-10/O	0.02		
Potassium	mg/L	0.1	SM 3120	22-Oct-10/O	42.4		
Selenium	mg/L	0.001	EPA 200.8	03-Nov-10/O	0.002		
Silver	mg/L	0.005	SM 3120	22-Oct-10/O	< 0.005		
Sodium	mg/L	0.2	SM 3120	22-Oct-10/O	123		
Tin	mg/L	0.05	SM 3120	22-Oct-10/O	< 0.05		
Titanium	mg/L	0.005	SM 3120	22-Oct-10/O	0.006		
Vanadium	mg/L	0.005	SM 3120	22-Oct-10/O	< 0.005		
Zinc	mg/L	0.005	SM 3120	22-Oct-10/O	0.095		
Acenaphthene	µg/L	0.05	EPA 8270	25-Oct-10/K	< 0.2		
Acenaphthylene	µg/L	0.05	EPA 8270	25-Oct-10/K	< 0.2		
Anthracene	µg/L	0.05	EPA 8270	25-Oct-10/K	< 0.2		
Benzo(a)anthracene	µg/L	0.05	EPA 8270	25-Oct-10/K	< 0.2		
Benzo(a)pyrene	µg/L	0.01	EPA 8270	25-Oct-10/K	< 0.04		
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	25-Oct-10/K	< 0.2		
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	25-Oct-10/K	< 0.4		
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	25-Oct-10/K	< 0.2		
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	25-Oct-10/K	< 0.2		
Chrysene	µg/L	0.05	EPA 8270	25-Oct-10/K	< 0.2		
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	25-Oct-10/K	< 0.2		
Fluoranthene	µg/L	0.05	EPA 8270	25-Oct-10/K	< 0.2		
Fluorene	µg/L	0.05	EPA 8270	25-Oct-10/K	< 0.2		

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Date Collected					B10-31263-1			
					18-Oct-10			
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed				
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	25-Oct-10/K	< 0.2			
Methylnaphthalene, 1-	µg/L	0.05	EPA 8270	25-Oct-10/K	< 0.2			
Methylnaphthalene, 2-	µg/L	0.05	EPA 8270	25-Oct-10/K	< 0.2			
Naphthalene	µg/L	0.05	EPA 8270	25-Oct-10/K	< 0.2			
Phenanthrene	µg/L	0.05	EPA 8270	25-Oct-10/K	< 0.2			
Pyrene	µg/L	0.05	EPA 8270	25-Oct-10/K	< 0.2			
Benzene	µg/L	0.5	EPA 8260	27-Oct-10/O	< 0.5			
Toluene	µg/L	0.5	EPA 8260	27-Oct-10/O	3.0			
Ethylbenzene	µg/L	0.5	EPA 8260	27-Oct-10/O	< 0.5			
Xylene, m,p-	µg/L	1.0	EPA 8260	27-Oct-10/O	< 1.0			
Styrene	µg/L	0.5	EPA 8260	27-Oct-10/O	< 0.5			
Xylene, o-	µg/L	0.5	EPA 8260	27-Oct-10/O	0.8			
PHC F1 (C6-C10)	µg/L	50	MOE E3421	28-Oct-10/O	< 50			
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	20-Oct-10/O	120			
PHC F3 (>C16-C34)	µg/L	500	MOE E3421	20-Oct-10/O	1300			
PHC F4 (>C34-C50)	µg/L	500	MOE E3421	20-Oct-10/O	700			
Comment-extractable	-	-	-	20-Oct-10	FO/HO			
Oil and Grease-Anim/Veg.	mg/L	1.0	SM 5520	25-Oct-10/K	34.9			
Oil and Grease-Mineral	mg/L	1.0	SM 5520	25-Oct-10/K	2.9			
Oil & Grease-Total	mg/L	1.0	SM 5520	25-Oct-10/K	37.8			

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