

C.O.C.: C09896

REPORT No. B09-06857

Report To:

XCG Consultants

6 Cataraqui Street Woolen Mill, West Wing, Suite 105
 Kingston, ON, K7K 1Z7

Attention: Mark Dickson

Caduceon Environmental Laboratories

285 Dalton Ave
 Kingston, Ontario, K7K 6Z1
 Tel: 613-544-2001
 Fax: 613-544-2770

DATE RECEIVED: 11-Mar-09

JOB/PROJECT NO.: Richmond Landfill

DATE REPORTED: 20-Mar-09

P.O. NUMBER: 1-664-00

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

Client I.D.:	DS-09	US-09		
Sample I.D.:	B09-06857-1	B09-06857-2		
Date Collected:	11-Mar-09	11-Mar-09		

Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed				
Alkalinity (as CaCO3)	mg/L	3	SM 2320	12-Mar-09/K	66	78		
Conductivity	µmho/cm	1	SM2513	12-Mar-09/K	186	188		
pH	pH Units		SM4300H+	12-Mar-09/K	7.34	7.68		
Chloride	mg/L	1	SM4110	16-Mar-09/K	6	5		
Nitrite (N)	mg/L	0.1	SM4110	16-Mar-09/K	< 0.1	0.2		
Nitrate (N)	mg/L	0.1	SM4110	16-Mar-09/K	1.8	0.3		
Sulphate	mg/L	1	SM4110	16-Mar-09/K	4	4		
BOD(5 day)	mg/L	2	SM 5210B	13-Mar-09/K	2	< 2		
Phosphorus-Total	mg/L	0.01	E3199A.1	18-Mar-09/K	0.05	0.18		
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	18-Mar-09/K	0.7	0.9		
Ammonia (N)-Total	mg/L	0.05	EPA 350.2	17-Mar-09/K	< 0.05	0.06		
Total Organic Carbon	mg/L	0.2	EPA 415.1	13-Mar-09/O	8.0	9.7		
Dissolved Organic Carbon	mg/L	0.2	EPA 415.1	13-Mar-09/O	7.3	9.1		
Total Cyanide	mg/L	0.005	SM 4500CN	16-Mar-09/K	< 0.005	< 0.005		
Phenolics	mg/L	0.001	EPA 420.2	13-Mar-09/O	< 0.001	< 0.001		
COD	mg/L	5	HACH 8000	13-Mar-09/O	19	26		
Hardness (as CaCO3)	mg/L	1	SM 3120	14-Mar-09/O	78	83		
Aluminum	mg/L	0.01	SM 3120	14-Mar-09/O	0.13	1.09		
Arsenic	mg/L	0.0005	EPA 200.8	17-Mar-09/O	0.0006	0.0005		
Cadmium	mg/L	0.0001	EPA 200.8	16-Mar-09/O	< 0.0001	< 0.0001		
Calcium	mg/L	0.02	SM 3120	14-Mar-09/O	26.3	27.6		
Chromium	mg/L	0.001	EPA 200.8	16-Mar-09/O	0.003	0.003		
Chromium (VI)	mg/L	0.01	EPA7196	20-Mar-09/O	< 0.01 ¹	< 0.01 ¹		
Copper	mg/L	0.002	SM 3120	14-Mar-09/O	< 0.002	< 0.002		
Iron	mg/L	0.005	SM 3120	14-Mar-09/O	0.095	0.910		
Lead	mg/L	0.0001	EPA 200.8	16-Mar-09/O	0.0002	0.0004		
Magnesium	mg/L	0.01	SM 3120	14-Mar-09/O	3.07	3.51		
Mercury	mg/L	0.00002	SM 3112	13-Mar-09/O	< 0.00002	< 0.00002		



Michelle Dubien
 Lab Supervisor

M.D.L. = Method Detection Limit

Site Analyzed=K-Kingston, W-Windsor, O-Ottawa, P-Peterborough, M-Moncton

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

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Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed				
Nickel	mg/L	0.01	SM 3120	14-Mar-09/O	< 0.01	< 0.01		
Potassium	mg/L	0.1	SM 3120	14-Mar-09/O	2.7	4.1		
Selenium	mg/L	0.001	EPA 200.8	17-Mar-09/O	0.001	0.001		
Silver	mg/L	0.0001	EPA 200.8	16-Mar-09/O	< 0.0001	< 0.0001		
Sodium	mg/L	0.2	SM 3120	14-Mar-09/O	3.9	3.8		
Zinc	mg/L	0.005	SM 3120	14-Mar-09/O	< 0.005	< 0.005		

1 Chromium (VI) result is based on total chromium



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 Lab Supervisor

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