

C.O.C.: C09993 & C09992

REPORT No. B09-09352

Report To:

XCG Consultants

6 Cataragui 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
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DATE RECEIVED: 03-Apr-09

JOB/PROJECT NO.: Richmond Landfill

DATE REPORTED: 21-Apr-09

P.O. NUMBER: 1-664-17-03

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

Client I.D.:	DS-09	US-09		
Sample I.D.:	B09-09352-1	B09-09352-2		
Date Collected:	03-Apr-09	03-Apr-09		

Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed				
Alkalinity (as CaCO3)	mg/L	3	SM 2320	06-Apr-09/K	198	192		
pH	pH Units		SM4300H+	03-Apr-09/K	7.90	7.98		
Conductivity	µmho/cm	1	SM2513	03-Apr-09/K	442	474		
Chloride	mg/L	1	SM4110	06-Apr-09/K	18	25		
Nitrite (N)	mg/L	0.1	SM4110	06-Apr-09/K	< 0.1	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110	06-Apr-09/K	< 0.1	0.4		
Sulphate	mg/L	1	SM4110	06-Apr-09/K	8	11		
BOD(5 day)	mg/L	2	SM 5210B	03-Apr-09/K	< 2	< 2		
Phosphorus-Total	mg/L	0.01	E3199A.1	07-Apr-09/K	< 0.01	0.07		
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	07-Apr-09/K	0.2	0.2		
Ammonia (N)-Total	mg/L	0.05	EPA 350.2	06-Apr-09/K	0.08	0.05		
Dissolved Organic Carbon	mg/L	0.2	EPA 415.1	07-Apr-09/O	5.2	6.7		
Total Organic Carbon	mg/L	0.2	EPA 415.1	07-Apr-09/O	5.3	6.8		
Phenolics	mg/L	0.001	EPA 420.2	06-Apr-09/O	< 0.001	< 0.001		
Total Cyanide	mg/L	0.005	SM 4500CN	07-Apr-09/K	< 0.005	< 0.005		
COD	mg/L	5	HACH 8000	07-Apr-09/O	8	< 5		
Hardness (as CaCO3)	mg/L	1	SM 3120	06-Apr-09/O	220	232		
Aluminum	mg/L	0.01	SM 3120	06-Apr-09/O	0.04	1.08		
Arsenic	mg/L	0.001	EPA 200.8	17-Apr-09/O	< 0.001	< 0.001		
Cadmium	mg/L	0.0001	EPA 200.8	07-Apr-09/O	< 0.0001	< 0.0001		
Calcium	mg/L	0.02	SM 3120	06-Apr-09/O	72.9	75.8		
Chromium	mg/L	0.001	EPA 200.8	07-Apr-09/O	0.002	0.002		
Chromium (VI)	mg/L	0.01	EPA7196	08-Apr-09/O	< 0.01	< 0.01		
Copper	mg/L	0.002	SM 3120	06-Apr-09/O	< 0.002	0.003		
Iron	mg/L	0.005	SM 3120	06-Apr-09/O	0.023	1.16		
Lead	mg/L	0.0001	EPA 200.8	07-Apr-09/O	< 0.0001	0.0006		
Magnesium	mg/L	0.01	SM 3120	06-Apr-09/O	9.23	10.3		
Mercury	µg/L	0.02	SM 3112	08-Apr-09/O	< 0.02	< 0.02		



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	06-Apr-09/O	< 0.01	< 0.01		
Potassium	mg/L	0.1	SM 3120	06-Apr-09/O	1.3	2.4		
Selenium	mg/L	0.001	EPA 200.8	17-Apr-09/O	< 0.001	< 0.001		
Silver	mg/L	0.0001	EPA 200.8	07-Apr-09/O	< 0.0001	< 0.0001		
Sodium	mg/L	0.2	SM 3120	06-Apr-09/O	12.1	16.1		
Zinc	mg/L	0.005	SM 3120	06-Apr-09/O	< 0.005	< 0.005		



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