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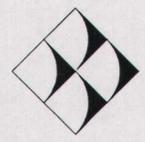
Ground Water Monitoring Report

March 2004 Monitoring Event

**Red Rock Construction & Demolition Debris Landfill
Holly Springs, North Carolina
NC Solid Waste Permit # 92-28**

Prepared for:
Waste Industries, Inc.
3301 Benson Drive Suite 601
Raleigh, NC 27609

April 2004



G.N. Richardson & Associates, Inc.
Engineering and Geological Services
14 North Boylan Avenue
Raleigh, North Carolina 27603



Red Rock C&D Landfill
Ground Water Monitoring Report
March 2004 Monitoring Event

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1.0 Introduction

On March 11th 2004, Environment 1 Laboratory personnel performed the required semi-annual detection monitoring ground water sampling event at the Red Rock C&D Landfill. This sampling event satisfies the requirements of the detection monitoring program under Solid Waste Permit # 92-28. The following report summarizes the monitoring event, sampling procedures, field and laboratory results, and ground water characterization as required by NC Solid Waste Regulations. Also included are summary tables of ground water measurements, field parameters, and detected constituents, and the laboratory analytical report.

2.0 Sampling Procedures

Ground water sampling was performed at 7 well locations. In addition, semi-annual surface water monitoring was performed at two (2) locations down stream of the landfill and one upstream location. The monitoring locations are shown on **Figure 1**.

Sampling procedures followed the protocols set forth in the site's Water Quality Monitoring Plan and the North Carolina Water Quality Monitoring Guidance Document for Solid Waste Facilities. Each well was gauged to determine ground water depth and then purged of three to five well volumes or until dry. The wells were purged and allowed to stabilize prior to sample collection. Ground water purging and sample collection were performed using a laboratory cleaned, dedicated, bailer.

Field measurements of pH, specific conductivity, temperature, and turbidity were taken at each well and surface water sampling location. Field meters were calibrated prior to sampling. Samples were collected in laboratory containers provided by Environment 1, Inc. (NC Laboratory Certification # 10). Upon collection, the samples were sealed, placed on ice, and transported to the laboratory. Field blanks were also collected for quality control purposes.

During the sampling process, each well was inspected for signs of damage or unusual conditions. All wells were found to be in good condition and free of obstructions.

Samples from surface water points SW-1, SW-2 and SW-3 were collected during ground water sample collection. The surface water locations are show in **Figure 1**.

3.0 Field and Laboratory Results

All samples were transported to the laboratory facility under proper chain of custody analyzed at the specified DWM Practical Quantitation Limits for Appendix I constituents. The laboratory analysis is included in **Appendix A**.

Ground water and field measurements are included as **Tables 1 and 2** respectively. The laboratory analysis detected no Appendix I organic compounds. Inorganic laboratory analysis

detected three inorganic constituent (barium, cadmium and lead) in the ground water samples (Table 3). This is likely due to turbidity in the water from the wells.

Analysis of surface water samples indicated detectable levels of lead in the surface water sample SW-2.

4.0 Ground Water Characterization

A potentiometric surface map was prepared from ground water elevation data collected in March 2004. This data was used because of a sampling error which involved a well other than MW-1 being sampled. At this time, it is unclear which piezometer in the area was sampled instead of MW-1 therefore the water level data collected in this area could not be placed accurately on the ground water potentiometric surface map. The March 2004 water level data is correct and accurate. Ground water velocity was calculated for each monitoring well on-site using the equation $V = (KI)/n$ where:

K = hydraulic conductivity
I = ground water gradient
n = porosity

Ground water velocities ranged from .037 feet/day (MW-5) to 0.89 feet/day (MW-3). These calculations are included in **Table 4**. Ground water at the C&D landfill is migrating toward the south, east and west. The potentiometric surface for the C&D landfill is included as **Figure 1**.

5.0 Conclusions

The results of this monitoring event confirm that the ground water quality around the Red Rock C&D Landfill has not been impacted by the facility. The detected inorganic results are likely due to naturally occurring suspended solids in the samples.

The next detection monitoring event is tentatively scheduled for September 2004. The results of this event will be included in the Fall Ground Water Monitoring Report. These samples will be analyzed for the full suite of Appendix I constituents.

Figures Under Seperate
COVER

Tables

Table 1
Ground Water Elevations
Red Rock C&D Landfill
03/11/04

Well	Top of Casing	Depth to Water	Water Table Elevation
MW-1	280.60	5.02	275.58
MW-2T	281.19	23.97	257.22
MW-3	261.80	9.19	252.61
MW-4	254.10	2.37	251.73
MW-5	254.47	2.66	251.81
MW-6T	289.21	11.57	277.64
MW-10	301.16	10.71	290.45

Table 2
Field Parameters
Red Rock C&D Landfill
03/11/04

Well	pH (std units)	Sp. Conductivity (uMhos)	Temperature (degrees C)
MW-1	6.6	5078	12
MW-2T	7	2250	16
MW-3	6.7	5310	12
MW-4	5.3	208	11
MW-5	4.7	944	10
MW-6T	7.4	4050	14
MW-10	6.7	1464	13
SW-1	--	--	--
SW-2	6.3	16	8
SW-3	6.4	114	8

?

Table 3
Detected Constituents
Red Rock C&D Landfill
 03/11/04

Detected Constituents	PQL	2L Standard	Wells					
			MW-1	MW-2T	MW-3	MW-6T	MW-10	SW-2
Barium	0.5	2	0.752	ND	1.881	0.966	0.707	ND
Cadmium	0.007	--	ND	0.007	ND	ND	ND	ND
Lead	0.01	0.015	ND	ND	ND	ND	ND	0.014

All results in mg/l
 Shading indicates detection is above 2L standard, or no 2L standard exists for the constituent.

Appendix A

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6011

RED ROCK LANDFILL (C&D)
MS. JOAN SMYTH
G.N. RICHARDSON & ASSOCIATES
14 N. BOYLAN AVENUE
RALEIGH ,NC 27603

DATE COLLECTED: 03/11/04
DATE REPORTED : 04/08/04

REVIEWED BY: 

PARAMETERS	Monitoring Well #1	Monitoring Well #2T	Monitoring Well #3	Monitoring Well #4	Monitoring Well #5	Analysis Date	Analyst	Method Code
PH (field measurement), Units	6.6	7.0	6.7	5.3	4.7	03/11/04	RJH	EPA150.1
Arsenic, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	03/25/04	CMF	EPA7060
Barium, mg/l	0.752	<0.500	1.881	<0.500	<0.500	03/24/04	LFJ	EPA200.7
Cadmium, mg/l	<0.001	0.007	<0.001	<0.001	<0.001	03/22/04	CMF	EPA7131
Total Chromium, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	03/24/04	LFJ	EPA200.7
Lead, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	03/25/04	CMF	EPA7421
Mercury, mg/l	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	03/17/04	AEL	EPA7470
Selenium, mg/l	<0.020	<0.020	<0.020	<0.020	<0.020	03/23/04	CMF	EPA7740
Silver, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	03/24/04	LFJ	EPA200.7
Conductivity (at 25c), uMhos	5078	2250	5310	208	944	03/11/04	RJH	SM2510B
Temperature, °C	12	16	12	11	10	03/11/04	RJH	SM2550B
Static Water Level, Feet	5.02	23.97	9.19	2.37	2.66	03/11/04	RJH	
Well Depth, feet	19.89	80.56	31.18	17.38	16.34	03/11/04	RJH	

Environment 1, Incorporated

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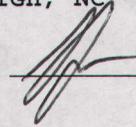
PARAMETERS	Monitoring Well #6T	Monitoring Well #10	Surface Water #1	Surface Water #2	Surface Water #3	Analysis Date	Analyst	Method Code
PH (field measurement), Units	7.4	6.7	Missing	6.3	6.4	03/11/04	RJH	EPA150.1
Arsenic, mg/l	<0.010	<0.010	Missing	<0.010	<0.010	03/25/04	CMF	EPA7060
Barium, mg/l	0.966	0.707	Missing	<0.500	<0.500	03/24/04	LFJ	EPA200.7
Cadmium, mg/l	<0.001	<0.001	Missing	<0.001	<0.001	03/22/04	CMF	EPA7131
Total Chromium, mg/l	<0.010	<0.010	Missing	<0.010	<0.010	03/24/04	LFJ	EPA200.7
Lead, mg/l	<0.010	<0.010	Missing	0.014	<0.010	03/25/04	CMF	EPA7421
Mercury, mg/l	<0.0005	<0.0005	Missing	<0.0005	<0.0005	03/17/04	AEL	EPA7470
Selenium, mg/l	<0.020	<0.020	Missing	<0.020	<0.020	03/23/04	CMF	EPA7740
Silver, mg/l	<0.010	<0.010	Missing	<0.010	<0.010	03/24/04	LFJ	EPA200.7
Conductivity (at 25c), uMhos	4050	1464	Missing	16	114	03/11/04	RJH	SM2510B
Temperature, °C	14	13	Missing	8	8	03/11/04	RJH	SM2550B
Static Water Level, Feet	11.57	10.71				03/11/04	RJH	
Well Depth, feet	47.34	34.15				03/11/04	RJH	
EPA Method 8260B Volatiles			Missing			03/11/04		
8260 (Duplicate)			Missing			/ /		

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G.N. RICHARDSON & ASSOCIATES
14 N. BOYLAN AVENUE
RALEIGH, NC 27603

CLIENT ID: 6011
ANALYST: MAO
DATE COLLECTED: 03/11/04 Page: 1
DATE ANALYZED: 03/15/04
DATE REPORTED: 04/08/04

REVIEWED BY: 

VOLATILE ORGANICS
EPA METHOD 8260B

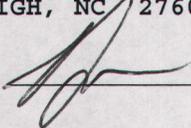
PARAMETERS, ug/l	Monitoring Well #1	Monitoring Well #2T	Monitoring Well #3	Monitoring Well #4	Monitoring Well #5
1. Chloromethane	<10.00	<10.00	<10.00	<10.00	<10.00
2. Vinyl Chloride	<10.00	<10.00	<10.00	<10.00	<10.00
3. Bromomethane	<10.00	<10.00	<10.00	<10.00	<10.00
4. Chloroethane	<10.00	<10.00	<10.00	<10.00	<10.00
5. Trichlorofluoromethane	<5.00	<5.00	<5.00	<5.00	<5.00
6. 1,1-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
7. Acetone	<100.00	<100.00	<100.00	<100.00	<100.00
8. Iodomethane	<10.00	<10.00	<10.00	<10.00	<10.00
9. Carbon Disulfide	<100.00	<100.00	<100.00	<100.00	<100.00
10. Methylene Chloride	<10.00	<10.00	<10.00	<10.00	<10.00
11. trans-1,2-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
12. 1,1-Dichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
13. Vinyl Acetate	<50.00	<50.00	<50.00	<50.00	<50.00
14. Cis-1,2-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
15. 2-Butanone	<100.00	<100.00	<100.00	<100.00	<100.00
16. Bromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00
17. Chloroform	<5.00	<5.00	<5.00	<5.00	<5.00
18. 1,1,1-Trichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
19. Carbon Tetrachloride	<10.00	<10.00	<10.00	<10.00	<10.00
20. Benzene	<5.00	<5.00	<5.00	<5.00	<5.00
21. 1,2-Dichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
22. Trichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
23. 1,2-Dichloropropane	<5.00	<5.00	<5.00	<5.00	<5.00
24. Bromodichloromethane	<5.00	<5.00	<5.00	<5.00	<5.00
25. Cis-1,3-Dichloropropene	<10.00	<10.00	<10.00	<10.00	<10.00
26. 4-Methyl-2-Pentanone	<100.00	<100.00	<100.00	<100.00	<100.00
27. Toluene	<5.00	<5.00	<5.00	<5.00	<5.00
28. trans-1,3-Dichloropropene	<10.00	<10.00	<10.00	<10.00	<10.00
29. 1,1,2-Trichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
30. Tetrachloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
31. 2-Hexanone	<50.00	<50.00	<50.00	<50.00	<50.00
32. Dibromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00
33. 1,2-Dibromoethane	<5.00	<5.00	<5.00	<5.00	<5.00
34. Chlorobenzene	<5.00	<5.00	<5.00	<5.00	<5.00
35. 1,1,1,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
36. Ethylbenzene	<5.00	<5.00	<5.00	<5.00	<5.00
37. Xylenes	<5.00	<5.00	<5.00	<5.00	<5.00
38. Dibromomethane	<10.00	<10.00	<10.00	<10.00	<10.00
39. Styrene	<10.00	<10.00	<10.00	<10.00	<10.00
40. Bromoform	<5.00	<5.00	<5.00	<5.00	<5.00
41. 1,1,2,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
42. 1,2,3-Trichloropropane	<15.00	<15.00	<15.00	<15.00	<15.00
43. 1,4-Dichlorobenzene	<5.00	<5.00	<5.00	<5.00	<5.00
44. 1,2-Dichlorobenzene	<5.00	<5.00	<5.00	<5.00	<5.00
45. 1,2-Dibromo-3-Chloropropane	<25.00	<25.00	<25.00	<25.00	<25.00
46. Acrylonitrile	<200.00	<200.00	<200.00	<200.00	<200.00
47. trans-1,4-Dichloro-2-Butene	<100.00	<100.00	<100.00	<100.00	<100.00

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REVIEWED BY: 

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	Monitoring Well #6T	Monitoring Well #10	Surface Water #2	Surface Water #3	Trip Blank
1. Chloromethane	<10.00	<10.00	<10.00	<10.00	<10.00
2. Vinyl Chloride	<10.00	<10.00	<10.00	<10.00	<10.00
3. Bromomethane	<10.00	<10.00	<10.00	<10.00	<10.00
4. Chloroethane	<10.00	<10.00	<10.00	<10.00	<10.00
5. Trichlorofluoromethane	<5.00	<5.00	<5.00	<5.00	<5.00
6. 1,1-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
7. Acetone	<100.00	<100.00	<100.00	<100.00	<100.00
8. Iodomethane	<10.00	<10.00	<10.00	<10.00	<10.00
9. Carbon Disulfide	<100.00	<100.00	<100.00	<100.00	<100.00
10. Methylene Chloride	<10.00	<10.00	<10.00	<10.00	<10.00
11. trans-1,2-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
12. 1,1-Dichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
13. Vinyl Acetate	<50.00	<50.00	<50.00	<50.00	<50.00
14. Cis-1,2-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
15. 2-Butanone	<100.00	<100.00	<100.00	<100.00	<100.00
16. Bromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00
17. Chloroform	<5.00	<5.00	<5.00	<5.00	<5.00
18. 1,1,1-Trichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
19. Carbon Tetrachloride	<10.00	<10.00	<10.00	<10.00	<10.00
20. Benzene	<5.00	<5.00	<5.00	<5.00	<5.00
21. 1,2-Dichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
22. Trichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
23. 1,2-Dichloropropane	<5.00	<5.00	<5.00	<5.00	<5.00
24. Bromodichloromethane	<5.00	<5.00	<5.00	<5.00	<5.00
25. Cis-1,3-Dichloropropene	<10.00	<10.00	<10.00	<10.00	<10.00
26. 4-Methyl-2-Pentanone	<100.00	<100.00	<100.00	<100.00	<100.00
27. Toluene	<5.00	<5.00	<5.00	<5.00	<5.00
28. trans-1,3-Dichloropropene	<10.00	<10.00	<10.00	<10.00	<10.00
29. 1,1,2-Trichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
30. Tetrachloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
31. 2-Hexanone	<50.00	<50.00	<50.00	<50.00	<50.00
32. Dibromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00
33. 1,2-Dibromoethane	<5.00	<5.00	<5.00	<5.00	<5.00
34. Chlorobenzene	<5.00	<5.00	<5.00	<5.00	<5.00
35. 1,1,1,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
36. Ethylbenzene	<5.00	<5.00	<5.00	<5.00	<5.00
37. Xylenes	<5.00	<5.00	<5.00	<5.00	<5.00
38. Dibromomethane	<10.00	<10.00	<10.00	<10.00	<10.00
39. Styrene	<10.00	<10.00	<10.00	<10.00	<10.00
40. Bromoform	<5.00	<5.00	<5.00	<5.00	<5.00
41. 1,1,2,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
42. 1,2,3-Trichloropropane	<15.00	<15.00	<15.00	<15.00	<15.00
43. 1,4-Dichlorobenzene	<5.00	<5.00	<5.00	<5.00	<5.00
44. 1,2-Dichlorobenzene	<5.00	<5.00	<5.00	<5.00	<5.00
45. 1,2-Dibromo-3-Chloropropane	<25.00	<25.00	<25.00	<25.00	<25.00
46. Acrylonitrile	<200.00	<200.00	<200.00	<200.00	<200.00
47. trans-1,4-Dichloro-2-Butene	<100.00	<100.00	<100.00	<100.00	<100.00

Environment 1, Inc.
 P.O. Box 7085, 114 Oakmont Dr.
 Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CLIENT: 6011 Week: 12

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 MS. JOAN SMYTH
 G.N. RICHARDSON & ASSOCIATES
 14 N. BOYLAN AVENUE
 RALEIGH NC 27603

(919) 828-0577

CHAIN OF CUSTODY RECORD

SAMPLE LOCATION	COLLECTION		TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	DISINFECTION			Field pH	Metals	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2	8260 Dup. 3	CHLORINE NEUTRALIZED AT COLLECTION	
	DATE	TIME				<input type="checkbox"/> CHLORINE	<input type="checkbox"/> UV	<input type="checkbox"/> NONE											
Monitoring Well #1	03	11 04	12	6	6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A	B	A	A	G	G	G	G	E		
Monitoring Well #2T	03	11 04	16	4	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	P	P	P	G	G	G	G	E		
Monitoring Well #3	03	11 04	12	4	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	P	P	P	G	G	G	G	E		
Monitoring Well #4	03	11 04	11	6	6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	P	P	P	G	G	G	G	E		
Monitoring Well #5	03	11 04	10	4	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	P	P	P	G	G	G	G	E		
Monitoring Well #6T	03	11 04	14	4	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	P	P	P	G	G	G	G	E		
Monitoring Well #10	03	11 04	13	4	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	P	P	P	G	G	G	G	E		
Surface Water #1					4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>											
Surface Water #2	03	11 04	8	4	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	P	P	P	G	G	G	G	E		
Surface Water #3	03	11 04	8	6	6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	P	P	P	G	G	G	G	E		
Trip Blank					2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>											
RELINQUISHED BY (SIG.)	DATE/TIME	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	COMMENTS:
<i>Joan Smyth</i>	03 11 04	03 11 04	<i>Joan Smyth</i>	03 11 04	03 11 04	<i>Joan Smyth</i>	03 11 04	03 11 04	03 11 04	03 11 04	03 11 04	03 11 04	03 11 04	03 11 04	03 11 04	03 11 04	03 11 04	03 11 04	31104 2:50 SW 1 - missing
RELINQUISHED BY (SIG.)	DATE/TIME	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	COMMENTS:

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB)

CONTAINER TYPE, P/G

CHEMICAL PRESERVATION

A - NONE D - NaOH
 B - HNO₃ E - HCL
 C - H₂SO₄ F - ZINC ACETATE
 G - Na THIOSULFATE

PARAMETERS

CLASSIFICATION:

WASTEWATER (NPDES)
 DRINKING WATER
 DWQ/GW
 SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY

SAMPLES COLLECTED BY: *Y*

SAMPLES RECEIVED IN LAB AT 4:00 °C

Instructions for completing this form are on the reverse side.

Sampler must place a "C" for composite sample or a "G" for the sampler.