

Carmen Johnson
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92-28
3-6-03

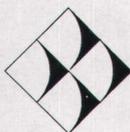
Ground Water Monitoring Report

March 2003 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

August 2003



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 2003 Monitoring Event**

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1.0 Introduction

On March 6th 2003, 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. It should be noted that due to a sampling error, a piezometer in the area of MW-1 was sampled instead of MW-1. At this time it is unclear which piezometer was sampled, however, this issue will be resolved prior to the next sampling event in September.

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 one inorganic constituent (barium) 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 no detectable levels of any constituents in the surface water samples.

4.0 Ground Water Characterization

A potentiometric surface map was prepared from ground water elevation data collected in May 2003. 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 May 2003 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 .028 feet/day (MW-10) to 7.638 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.

A sampling error occurred in which a piezometer in the MW-1 area was accidentally sampled instead of MW-1. Due to the number of piezometers in this area, it is unclear which piezometer was sampled. This issue will be resolved prior to the next sampling event in September.

The next detection monitoring event is tentatively scheduled for September 2003. 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.

Drawings Under Seperate Cover

Table 1
Ground Water Elevations
Red Rock C&D Landfill
03/06/03

Well	Top of Casing	Depth to Water	Water Table Elevation
MW-1	280.60	24.60	256.00
MW-2T	281.19	24.32	256.87
MW-3	261.80	8.95	252.85
MW-4	254.10	2.19	251.91
MW-5	254.47	2.49	251.98
MW-6T	289.21	17.53	271.68
MW-10	301.16	11.10	290.06

Table 2
Field Parameters
Red Rock C&D Landfill
03/06/03

Well	pH (std units)	Sp. Conductivity (uS)	Temperature (degrees C)
MW-1	7.5	2240	16
MW-2T	6.9	1804	16
MW-3	7	5170	13
MW-4	5.4	141	12
MW-5	5.1	458	11
MW-6T	7.3	3770	16
MW-10	5.9	253	12
SW-1	5	35	14
SW-2	6	82	13
SW-3	5.8	90	13

Source of high conductivity - Grout ?

Table 3
Detected Constituents
Red Rock C&D Landfill
03/06/03

Detected Constituents	Wells		
	MW-2T	MW-3	MW-6T
Barium	0.535	1.939	0.936

All results in mg/l

Table 4
Ground Water Velocity Calculations
Red Rock C&D Landfill
03/06/03

Parameter Units	Hydraulic Conductivity feet/min	Porosity %	Hydraulic Gradient feet/foot	Velocity feet/min	Velocity feet/day
MW-1	3.760E-04	0.10	0.017	6.392E-05	9.204E-02
MW-2T	NA	0.10	0.004	NA	NA
MW-3	5.150E-03	0.10	0.103	5.305E-03	7.638E+00
MW-4	NA	0.10	0.070	NA	NA
MW-5	1.430E-04	0.10	0.040	5.720E-05	8.237E-02
MW-6T	NA	0.10	0.007	NA	NA
MW-10	1.970E-04	0.10	0.010	1.970E-05	2.837E-02

Notes

Velocity calculated from $V=KI/n$

V = Velocity

K = Hydraulic Conductivity

I = Gradient

n = Porosity

Hydraulic conductivity data from slug testing

REC'D APR 24 2003

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

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

Drinking Water ID: 37733
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: 03/06/03
DATE REPORTED : 04/08/03

REVIEWED BY: 

PARAMETERS	Monitoring	Monitoring	Monitoring	Monitoring	Monitoring	Analysis	Method	
	Well #1	Well #2T	Well #3	Well #4	Well #5	Date	Analyst	Code
PH (field measurement), Units	7.5	6.9	7.0	5.4	5.1	03/06/03	RJH	EPA150.1
Arsenic, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	03/26/03	MLH	EPA7060
Barium, mg/l	<0.500	0.535	1.939	<0.500	<0.500	04/01/03	LFJ	EPA6010B
Cadmium, mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	03/22/03	MLH	EPA7131
Total Chromium, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	04/01/03	LFJ	EPA6010B
Lead, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	03/27/03	MLH	EPA7421
Mercury, mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	03/13/03	LFJ	EPA7470
Selenium, mg/l	<0.020	<0.020	<0.020	<0.020	<0.020	03/24/03	MLH	EPA7740
Silver, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	04/01/03	LFJ	EPA6010B
Conductivity (at 25c), uMhos	2240	1804	5170	141	458	03/06/03	RJH	SM2510B
Temperature, °C	16	16	13	12	11	03/06/03	RJH	SM2550B
Static Water Level, Feet	24.60	24.32	8.95	2.19	2.49	03/06/03	RJH	
Well Depth, feet	80.54	40.30	31.17	17.30	16.32	03/06/03	RJH	

Environment 1, Incorporated

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Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6011

RED ROCK LANDFILL (C&D)
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14 N. BOYLAN AVENUE
RALEIGH, NC 27603

DATE COLLECTED: 03/06/03
DATE REPORTED : 04/08/03

REVIEWED BY: 

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	7.3	5.9	5.0	6.0	5.8	03/06/03	RJH	EPA150.1
Arsenic, mg/l	<0.010	<0.010				03/26/03	MLH	EPA7060
Barium, mg/l	0.936	<0.500	<0.010	<0.010	<0.010	04/04/03	MLH	EPA7060
Cadmium, mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	04/01/03	LFJ	EPA6010B
Total Chromium, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	03/22/03	MLH	EPA7131
Lead, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	04/01/03	LFJ	EPA6010B
Mercury, mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	03/27/03	MLH	EPA7421
Selenium, mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	03/13/03	LFJ	EPA7470
Silver, mg/l	<0.020	<0.020	<0.020	<0.020	<0.020	03/24/03	MLH	EPA7740
Silver, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	04/01/03	LFJ	EPA6010B
Conductivity (at 25c), uMhos	3770	253	35	82	90	03/06/03	RJH	SM2510B
Temperature, °C	16	12	14	13	13	03/06/03	RJH	SM2550B
Static Water Level, Feet	17.53	1.10				03/06/03	RJH	
Well Depth, feet	47.32	20.23				03/06/03	RJH	

Environment 1, Incorporated

Drinking Water ID: 37
Wastewater ID: 10

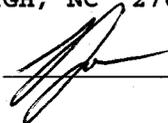
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CLIENT ID: 6011

ANALYST: MAO
DATE COLLECTED: 03/06/03 Page: 1
DATE ANALYZED: 03/12/03
DATE REPORTED: 04/08/03

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

Environment 1, Incorporated

Drinking Water ID: 37
Wastewater ID: 10

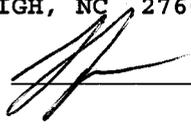
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CLIENT: RED ROCK LANDFILL (C&D)
MS. JOAN SMYTH
G.N. RICHARDSON & ASSOCIATES
14 N. BOYLAN AVENUE
RALEIGH, NC 27603

CLIENT ID: 6011
ANALYST: MAO
DATE COLLECTED: 03/06/03
DATE ANALYZED: 03/12/03
DATE REPORTED: 04/08/03

Page: 2

REVIEWED BY: 

VOLATILE ORGANICS EPA METHOD 8260B

PARAMETERS, ug/l	Monitoring Well #6T	Monitoring Well #10	Surface Water #1	Surface Water #2	Surface Water #3
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, Incorporated

Drinking Water ID: 17
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
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DATE REPORTED: 04/08/03

Page: 3

REVIEWED BY: 

VOLATILE ORGANICS EPA METHOD 8260B

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

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

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

CLIENT #011 Week: 12

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

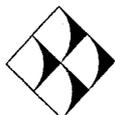
(919) 828-0577

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				CHLORINE	UV	NONE										
Monitoring Well #1	03/06/03	11:10	12	16	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A	B	A	A	C	C	C	C	C	
Monitoring Well #2T	03/06/03	11:05	12	16	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A	B	A	A	C	C	C	C	C	
Monitoring Well #3	03/06/03	11:35	13	13	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A	B	A	A	C	C	C	C	C	
Monitoring Well #4	03/06/03	10:40	12	12	6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A	B	A	A	C	C	C	C	C	
Monitoring Well #5	03/06/03	10:10	11	11	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A	B	A	A	C	C	C	C	C	
Monitoring Well #6T	03/06/03	11:55	12	12	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A	B	A	A	C	C	C	C	C	
Monitoring Well #10	03/06/03	09:55	12	12	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A	B	A	A	C	C	C	C	C	
Surface Water #1	03/06/03	11:00	14	14	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A	B	A	A	C	C	C	C	C	
Surface Water #2	03/06/03	11:10	13	13	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A	B	A	A	C	C	C	C	C	
Surface Water #3	03/06/03	10:25	13	13	6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A	B	A	A	C	C	C	C	C	
Trip Blank					2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A	B	A	A	C	C	C	C	C	
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
<i>Joan Smyth</i>			<i>Joan Smyth</i>			<i>Joan Smyth</i>												
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:																		
CLASSIFICATION: <input type="checkbox"/> WASTEWATER (NPDES) <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> DMO/GW <input checked="" type="checkbox"/> SOLID WASTE SECTION <input type="checkbox"/> OTHER _____ SAMPLES COLLECTED BY: <i>HOOPER FOR</i> (Please Print) SAMPLES RECEIVED IN LAB AT <i>490</i> °C																		

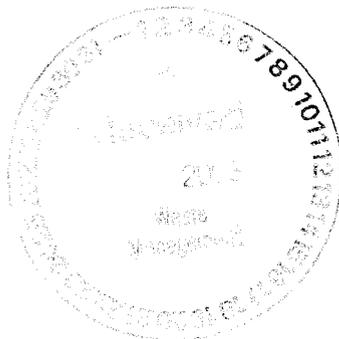
Instructions for completing this form are on the reverse side.

Sampler must place a "C" for composite sample or a "G" for grab samples in the _____s ab _____ eac _____ mete _____ assted _____ No _____ 82154



LETTER OF TRANSMITTAL

If enclosures are not as noted or if you require additional information, please notify us immediately



DATE: 8/28/03

TO: Larry Rose

By: US Mail
Overnight Mail
Hand
Other

RE: Red Rock Landfill

PROJECT NO: _____

We are sending you the following items:

COPIES	ITEM	DESCRIPTION
1		Ground water monitoring report

These are transmitted as checked below:

- For Information
- As Requested
- For Review and Comments
- For Revision
- For Approval
- Approved

- Approved as Noted
- Approved as Noted-Revise and Resubmit
- Not Approved-Revise and Resubmit
- For Record and File
- Submittal
- For Recording

REMARKS:

cc:


Signature