Ground Water Monitoring Report

April 2007 Monitoring Event

Davidson County
Holly Grove Landfill
Lexington, North Carolina
NC Solid Waste Permit # 29-02

Prepared for:
Davidson County Integrated Solid Waste
1242 Old Highway 29
Thomasville, NC 27360-0024

June 2007

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

Davidson County Holly Grove Landfill

Ground Water Monitoring Report
April 2007 Monitoring Event

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1.0 Introduction

On April 18th 2007, Environment 1, Inc. personnel performed the required semi-annual ground water monitoring event at the Davidson County Holly Grove Landfill. This sampling event satisfies the requirements of the monitoring programs for this site. 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, detected constituents, and the laboratory analytical report.

2.0 Davidson County Holly Grove Landfill

The following 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 field measurements and detected constituents, as well as the laboratory analysis reports and concentration vs. time graphs.

The Holly Grove Landfills consists of three separate phases (**Figure 1**). Areas 1 and 2 were unlined municipal solid waste facilities owned and operated by Davidson County Integrated Solid Waste. The Scarlett Landfill, to the west of Areas 1 and 2, is a private landfill formerly owned by Ms. Virginia White, and previously owned and operated by Mr. Scarlett. The property was recently sold to another individual. These three landfills comprise the Holly Grove Landfill (under permit 29-02) and are monitored as one unit due to the close proximity of the waste margins.

2.1 Sampling Procedures

Ground water sampling was performed at 16 well locations. Monitoring well MW-7 has been abandoned after significant damage and could not be sampled. In addition, semiannual surface water monitoring was performed at three locations around the landfills. The background well for the site, MW-4, is also MW-1s for the lined Davidson County Landfill (Permit 29-06). The lined landfill was sampled in conjunction with this site. This data is included in the summary tables of this report.

Sampling procedures followed the protocols set forth in the site's Sampling and Analysis 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 well volumes or until dry. Ground water purging and sample collection was performed using a factory sealed teflon bailer.

Field measurements of pH, specific conductivity, and temperature, were taken at each well and surface water sampling location. 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 above referenced laboratory. All samples were preserved and remained on fresh ice prior to shipment, and were received by the laboratory and

analyzed within specified holding times.

During the sampling process, all wells were found to be in good condition and free of obstructions. The weather was sunny and clear during the event. Surface water samples were obtained up (SW-1) and downstream (SW-2) of the landfill on Hamby Creek at the locations shown in **Figure 1**.

2.2 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 was received by our office and reviewed for accuracy. The laboratory report is attached as **Appendix A**.

Ground water and field measurements included as **Tables 1 and 2,** respectively, remained similar to previous results. Inorganic laboratory analysis detected ten inorganic constituents (barium, beryllium, cadmium, cobalt, copper, lead, total chromium, selenium, vanadium and zinc) in thirteen (13) wells. These results are included as **Table 3**. Organic analyses resulted in seven (7) parameters detected in nine (9) wells. Detected organic constituents are shown in **Table 4**.

Four inorganic constituents, beryllium, cobalt, lead and vanadium were detected above the 2L standards. Cobalt and vanadium were detected at concentrations above the 2L standard because they do not have 2L standard. Two organic constituents, benzene (MW-1a, MW-9 & MW-13) and methylene chloride (MW-6) were detected above the 2L standards.

Analysis of surface water samples from SW-1, SW-2 and SW-3 found no detection level for any constituents.

3.0 Site Ground Water Characterization

A potentiometric surface map was prepared for the entire site from ground water elevation data collected during this sampling event. 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

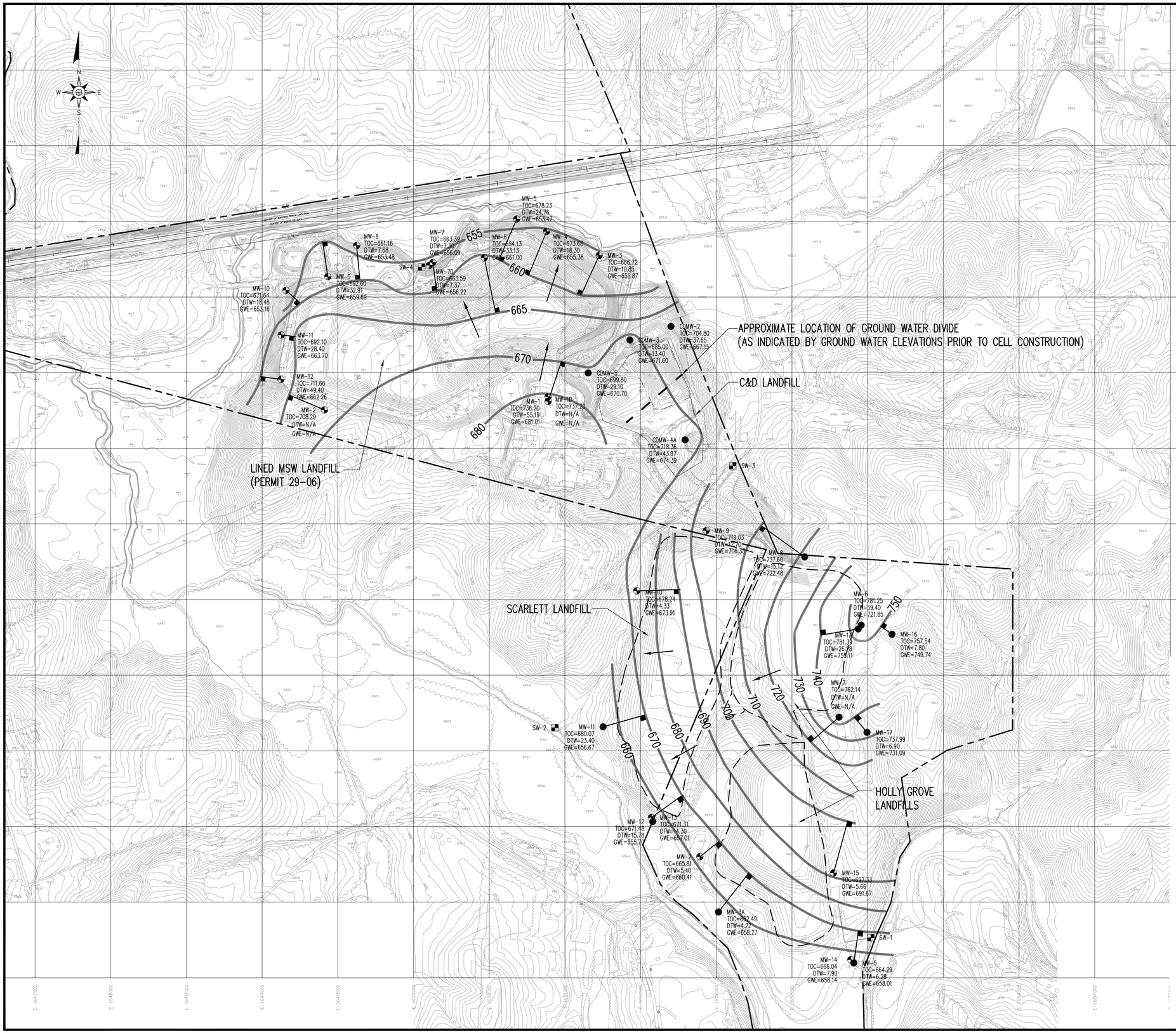
Ground water velocities at the Holly Grove Landfill ranged from 0.051 feet/day (MW-3a) to 2.36 feet/day (MW-9). These calculations are included in **Table 5**. The data indicates that ground water is flowing generally to the south and southwest across most of the site. This is consistent with ground water flow patterns previously seen at this site. The potentiometric surface map (**Figure 1**) is also attached for your review.

4.0 Conclusions

The results presented from the Holly Grove Landfills indicate an increased number of detections of certain constituents. In the case of inorganic constituents, this is likely due to turbidity of samples and an increase in suspended solids due to field procedures. In the case of organic constituents this increase is mainly due to a requirement by DENR for laboratories to change from reporting Practical Quantitation Limits (PQL) to Method Detection Limits (MDL). MDL's are typically 5 times lower than PQLs and are harder to replicate both within a laboratory and between laboratories. These inherent difficulties in replication are why PQLs were originally proposed the U.S. EPA. Therefore, there is some question as to the validity of these values and their accuracy.

The next ground water monitoring event is tentatively scheduled for fall 2007. The results of this event will be reported to NCDENR upon completion of analysis of laboratory data.

Figures



LEGEND

MW-1A	PREVIOUSLY INSTALLED MONITORING WELL
MW-5	BEDROCK MONITORING WELL
SW-1	EXISTING SURFACE WATER MONITORING STATION
	GROUND WATER SURFACE COUNTOUR
	DIRECTION OF GROUNDWATER FLOW
	PROPERTY LINE
	WASTE BOUNDARY
	MEASUREMENT FOR HYDRAULIC GRADIENT CALCULATION

NOTE:

1. GROUND WATER DATA RECORDED ON APRIL 18, 2007 BY RSG PERSONNEL.

0 300' 600' 900'

NO.	DATE	REVISION

RICHARDSON SMITH GARDNER & ASSOCIATES
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SEAL

SEAL

PROJECT TITLE: DAVIDSON COUNTY LANDFILLS

DRAWING TITLE: POTENTIOMETRIC SURFACE MAP
LINED LANDFILL, C&D AND
HOLLY GROVE LANDFILLS
(SPRING 2007)

DESIGNED BY: J.A.S.	DRAWN BY: J.A.L.
CHECKED BY:	PROJECT NO.: DAVDCO-4
SCALE: AS SHOWN	DATE: JUNE 2007
FILE NAME DAVDCO-D0382	
SHEET NO.	DRAWING NO. FIG. 1

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Tables

Table 1
Ground Water Elevations
Davidson County Holly Grove Landfill
04/18/07

Well	Top of Casing	Depth to Water	Water Table Elevation
MW-1a	781.39	26.28	755.11
MW-2	665.81	5.40	660.41
MW-3a	662.49	4.22	658.27
MW-4	736.20	---	---
MW-5	664.29	6.28	658.01
MW-6	781.25	59.40	721.85
MW-7	762.14	---	---
MW-8	737.60	15.12	722.48
MW-9	719.03	12.70	706.33
MW-10	678.24	4.33	673.91
MW-11	680.07	23.40	656.67
MW-12	671.48	15.78	655.70
MW-13	671.31	14.30	657.01
MW-14	666.04	7.90	658.14
MW-15	697.33	5.66	691.67
MW-16	757.54	7.80	749.74
MW-17	737.99	6.90	731.09

Table 2
Field Parameters
Davidson County Holly Grove Landfill
04/18/07

Well	pH (std units)	Sp. Conductivity (uMhos)	Temperature (degrees C)
MW-1a	6.7	1870	15
MW-2	6.3	910	15.5
MW-3A	7.8	540	14.5
MW-4	---	---	---
MW-5	6.7	220	11.5
MW-6	7.9	920	15
MW-7	---	---	---
MW-8	7.5	1190	14.5
MW-9	6.6	1570	13
MW-10	7	2280	12
MW-11	6.7	15.9	14.5
MW-12	7.5	213	15.5
MW-13	6.4	3080	14.5
MW-14	7	40	15
MW-15	6.9	180	12
MW-16	7.4	1060	14
MW-17	6.4	700	15
SW-1	7.7	200	15
SW-2	7.9	210	16
SW-3	7.1	460	16

'---' = not measured.

SW-3 associated with the C&D landfill reported in Holly Grove Landfill laboratory analysis.

Table 3
Detected Inorganic Parameters
Davidson County Holly Grove Landfill
04/18/07

Constituent	MDL	2L	MW-1a	MW-2	MW-3a	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	SW-1	SW-2	SW-3
Barium	100	2000	**205**	**151**	ND	NA	ND	**291**	NA	**107**	**620**	**799**	ND	**507**	**221**	ND	ND	ND	**177**	ND	ND	ND
Beryllium	1	---	ND	ND	ND	NA	ND	ND	NA	ND	**2**	**1**	ND	**1**	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	1	5	ND	ND	ND	NA	ND	ND	NA	ND	**1**	**2**	ND	**6**	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	10	---	**11**	**11**	ND	NA	ND	ND	NA	ND	**16**	**16**	ND	**12**	**17**	**41**	**12**	ND	ND	ND	ND	ND
Copper	10	1000	ND	**17**	ND	NA	ND	**17**	NA	**16**	**48**	**87**	ND	**48**	ND	**13**	**13**	ND	ND	ND	ND	ND
Total Chromium	10	50	ND	ND	ND	NA	ND	**22**	NA	**38**	**46**	**20**	ND	**24**	ND	ND	**16**	ND	ND	ND	ND	ND
Lead	10	15	ND	ND	ND	NA	ND	**11**	NA	ND	**10**	**18**	ND	**13**	ND	ND	ND	**154**	ND	ND	ND	ND
Selenium	10	50	ND	ND	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	**20**	ND	ND	ND	ND	ND	ND	ND
Vanadium	25	---	ND	ND	ND	NA	ND	**31**	NA	**35**	**50**	**92**	ND	**30**	ND	**41**	ND	ND	ND	ND	ND	ND
Zinc	10	2100	**11**	**32**	**22**	NA	**12**	**82**	NA	**55**	**345**	**168**	ND	**189**	**10**	**20**	**28**	ND	ND	ND	ND	ND

ND = Not Detected
NA = Not Analyzed
MDL = Method Detection Limit
All results in ppb

Table 4
Detected Organic Parameters
Davidson County Holly Grove Landfill
04/18/07

Parameter	MDL	2L	MW-1a	MW-2	MW-3a	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17
Chloroethane	5	2800	ND	**6.4**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**49.8**	ND	ND	ND	ND
Methylene Chloride	5	5	ND	ND	ND	ND	ND	**5.1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	700	**35.1**	ND	ND	ND	ND	**6**	ND	**8.9**	ND	ND	ND	**20**	**16.8**	ND	ND	ND	**13.4**
cis-1,2-Dichloroethene	5	70	**38.7**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	3	1	**4**	ND	ND	ND	ND	ND	ND	ND	**3.2**	ND	ND	ND	**3.2**	ND	ND	ND	ND
Chlorobenzene	3	50	ND	ND	ND	ND	ND	ND	ND	ND	**5**	ND	**3.1**	ND	**7.7**	ND	ND	ND	ND
1,4-Dichlorobenzene	5	75	ND	ND	ND	ND	ND	ND	ND	ND	**5.2**	ND	ND	**3.4**	**11.9**	ND	ND	ND	ND

MDL = Method Detection Limit
ND = Not detected at or above MDL
Shading = Level above 2L standard or no 2L standard
NA = Not analyzed
No organic parameters were detected in the surface water samples

Table 5
Ground Water Velocity Calculations
Holly Grove Landfill - Davidson County
04/18/07

Parameter Units	Hydraulic Conductivity feet/day	Porosity %	Hydraulic Gradient feet/foot	Velocity feet/day
MW-1a	0.415	0.15	0.116	0.321
MW-2	1.440	0.20	0.112	0.806
MW-3a	0.105	0.15	0.073	0.051
MW-5	1.814	0.20	0.08	0.726
MW-7	0.230	0.13	NA	NA
MW-9	3.787	0.20	0.126	2.386
MW-10	1.541	0.20	0.031	0.239
MW-11	1.440	0.15	0.095	0.912
MW-13	5.890	0.20	0.11	3.239
MW-15	5.688	0.20	0.046	1.308

Notes

Velocity calculated from V=KI/n

V = Velocity
K = Hydraulc Conductivity
I = Gradient
n = Porosity

Hydraulic conductivity data from slug testing

Appendix A

Laboratory Analytical Report

Environment 1, Incorporated

REC'D MAY 11 2007

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#: 6037

DAVIDSON COUNTY (HOLLY GROVE)
MS. JOAN SMYTH
RICHARDSON SMITH GARDNER
14 N. BOYLAN AVENUE
RALEIGH ,NC 27603

DATE COLLECTED: 04/18/07
DATE REPORTED : 05/03/07

REVIEWED BY:

PARAMETERS	MW-2	MW-3A	MW-11	MW-12	MW-13	Analysis Date	Analyst	Method Code
Antimony, ug/l	<6.0	<6.0	<6.0	<6.0	<6.0	04/25/07	CMF	EPA200.8
Arsenic, ug/l	< 10	< 10	< 10	< 10	< 10	04/25/07	CMF	EPA200.8
Barium, ug/l	151	< 100	< 100	507	221	04/25/07	CMF	EPA200.8
Beryllium, ug/l	<1.0	<1.0	<1.0	1	<1.0	04/25/07	CMF	EPA200.8
Cadmium, ug/l	<1.0	<1.0	<1.0	6	<1.0	04/25/07	CMF	EPA200.8
Cobalt, ug/l	11	< 10	< 10	12	17	04/25/07	CMF	EPA200.8
Copper, ug/l	17	< 10	< 10	48	< 10	04/25/07	CMF	EPA200.8
Total Chromium, ug/l	< 10	< 10	< 10	24	< 10	04/25/07	CMF	EPA200.8
Lead, ug/l	< 10	< 10	< 10	13	< 10	04/25/07	CMF	EPA200.8
Nickel, ug/l	< 50	< 50	< 50	< 50	< 50	04/25/07	CMF	EPA200.8
Selenium, ug/l	< 10	< 10	< 10	< 10	20	04/25/07	CMF	EPA200.8
Silver, ug/l	< 10	< 10	< 10	< 10	< 10	04/25/07	CMF	EPA200.8
Thallium, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	04/25/07	CMF	EPA200.8
Vanadium, ug/l	< 25	< 25	< 25	30	< 25	04/25/07	CMF	EPA200.8
Zinc, ug/l	32	22	< 10	189	10	04/25/07	CMF	EPA200.8

Environment 1, Incorporated

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14 N. BOYLAN AVENUE
RALEIGH ,NC 27603

DATE COLLECTED: 04/18/07
DATE REPORTED : 05/03/07

REVIEWED BY:

PARAMETERS	MW-14	Analysis Date	Analyst	Method Code
Antimony, ug/l	<6.0	04/25/07	CMF	EPA200.8
Arsenic, ug/l	< 10	04/25/07	CMF	EPA200.8
Barium, ug/l	< 100	04/25/07	CMF	EPA200.8
Beryllium, ug/l	<1.0	04/25/07	CMF	EPA200.8
Cadmium, ug/l	<1.0	04/25/07	CMF	EPA200.8
Cobalt, ug/l	< 10	04/25/07	CMF	EPA200.8
Copper, ug/l	41	04/25/07	CMF	EPA200.8
Total Chromium, ug/l	13	04/25/07	CMF	EPA200.8
Lead, ug/l	< 10	04/25/07	CMF	EPA200.8
Nickel, ug/l	< 50	04/25/07	CMF	EPA200.8
Selenium, ug/l	< 10	04/25/07	CMF	EPA200.8
Silver, ug/l	< 10	04/25/07	CMF	EPA200.8
Thallium, ug/l	<5.0	04/25/07	CMF	EPA200.8
Vanadium, ug/l	41	04/25/07	CMF	EPA200.8
Zinc, ug/l	20	04/25/07	CMF	EPA200.8

Environment 1, Incorporated

Drinking Water ID: 37715
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CLIENT: DAVIDSON COUNTY (HOLLY GROVE)
MS. JOAN SMYTH
RICHARDSON SMITH GARDNER
14 N. BOYLAN AVENUE
RALEIGH, NC 27603

CLIENT ID: 6037

ANALYST: MAO
DATE COLLECTED: 04/18/07
DATE ANALYZED: 05/01/07
DATE REPORTED: 05/03/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MW-2	MW-3A	MW-11	MW-12	MW-13
1. Chloromethane	<5.00	<5.00	<5.00	<5.00	<5.00
2. Vinyl Chloride	<5.00	<5.00	<5.00	<5.00	<5.00
3. Bromomethane	<10.00	<10.00	<10.00	<10.00	<10.00
4. Chloroethane	6.40	<5.00	<5.00	<5.00	49.80
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	<5.00	<5.00	<5.00	<5.00	<5.00
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	20.00	16.80
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	<3.00	<3.00	<3.00	<3.00	<3.00
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	<5.00	<5.00	<5.00	<5.00	<5.00
20. Benzene	<3.00	<3.00	<3.00	<3.00	3.20
21. 1,2-Dichloroethane	<3.00	<3.00	<3.00	<3.00	<3.00
22. Trichloroethene	<3.00	<3.00	<3.00	<3.00	<3.00
23. 1,2-Dichloropropane	<3.00	<3.00	<3.00	<3.00	<3.00
24. Bromodichloromethane	<3.00	<3.00	<3.00	<3.00	<3.00
25. Cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00
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	<5.00	<5.00	<5.00	<5.00	<5.00
29. 1,1,2-Trichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
30. Tetrachloroethene	<3.00	<3.00	<3.00	<3.00	<3.00
31. 2-Hexanone	<50.00	<50.00	<50.00	<50.00	<50.00
32. Dibromochloromethane	<3.00	<3.00	<3.00	<3.00	<3.00
33. 1,2-Dibromoethane	<3.00	<3.00	<3.00	<3.00	<3.00
34. Chlorobenzene	<3.00	<3.00	3.10	<3.00	7.70
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	<4.00	<4.00	<4.00	<4.00	<4.00
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	<3.00	<3.00	<3.00	<3.00	<3.00
41. 1,1,2,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
42. 1,2,3-Trichloropropane	<8.00	<8.00	<8.00	<8.00	<8.00
43. 1,4-Dichlorobenzene	<3.00	<3.00	<3.00	3.40	11.80
44. 1,2-Dichlorobenzene	<5.00	<5.00	<5.00	<5.00	<5.00
45. 1,2-Dibromo-3-Chloropropane	<13.00	<13.00	<13.00	<13.00	<13.00
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: 37715
Wastewater ID: 10

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

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CLIENT: DAVIDSON COUNTY (HOLLY GROVE)
MS. JOAN SMYTH
RICHARDSON SMITH GARDNER
14 N. BOYLAN AVENUE
RALEIGH, NC 27603

CLIENT ID: 6037
ANALYST: MAO
DATE COLLECTED: 04/18/07
DATE ANALYZED: 05/01/07
DATE REPORTED: 05/03/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MW-14
1. Chloromethane	<5.00
2. Vinyl Chloride	<5.00
3. Bromomethane	<10.00
4. Chloroethane	<5.00
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	<5.00
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	<3.00
17. Chloroform	<5.00
18. 1,1,1-Trichloroethane	<5.00
19. Carbon Tetrachloride	<5.00
20. Benzene	<3.00
21. 1,2-Dichloroethane	<3.00
22. Trichloroethene	<3.00
23. 1,2-Dichloropropane	<3.00
24. Bromodichloromethane	<3.00
25. Cis-1,3-Dichloropropene	<5.00
26. 4-Methyl-2-Pentanone	<100.00
27. Toluene	<5.00
28. trans-1,3-Dichloropropene	<5.00
29. 1,1,2-Trichloroethane	<5.00
30. Tetrachloroethene	<3.00
31. 2-Hexanone	<50.00
32. Dibromochloromethane	<3.00
33. 1,2-Dibromoethane	<3.00
34. Chlorobenzene	<3.00
35. 1,1,1,2-Tetrachloroethane	<5.00
36. Ethylbenzene	<5.00
37. Xylenes	<4.00
38. Dibromomethane	<10.00
39. Styrene	<10.00
40. Bromoform	<3.00
41. 1,1,2,2-Tetrachloroethane	<5.00
42. 1,2,3-Trichloropropane	<8.00
43. 1,4-Dichlorobenzene	<3.00
44. 1,2-Dichlorobenzene	<5.00
45. 1,2-Dibromo-3-Chloropropane	<13.00
46. Acrylonitrile	<200.00
47. trans-1,4-Dichloro-2-Butene	<100.00

Environment 1, Incorporated

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#: 6037

DAVIDSON COUNTY (HOLLY GROVE)
MS. JOAN SMYTH
RICHARDSON SMITH GARDNER
14 N. BOYLAN AVENUE
RALEIGH ,NC 27603

DATE COLLECTED: 04/20/07
DATE REPORTED : 05/09/07

REVIEWED BY:

PARAMETERS	MW-1A	MW-5	MW-6	MW-8	MW-9	Analysis Date	Analyst	Method Code
Antimony, ug/l	<6.0	<6.0	<6.0	<6.0	<6.0	04/30/07	CMF	EPA200.8
Arsenic, ug/l	< 10	< 10	< 10	< 10	< 10	04/30/07	CMF	EPA200.8
Barium, ug/l	205	< 100	291	107	620	04/30/07	CMF	EPA200.8
Beryllium, ug/l	<1.0	<1.0	<1.0	<1.0	2	04/30/07	CMF	EPA200.8
Cadmium, ug/l	<1.0	<1.0	<1.0	<1.0	1	04/30/07	CMF	EPA200.8
Cobalt, ug/l	11	< 10	< 10	< 10	16	04/30/07	CMF	EPA200.8
Copper, ug/l	< 10	< 10	17	16	48	04/30/07	CMF	EPA200.8
Total Chromium, ug/l	< 10	< 10	22	38	46	04/30/07	CMF	EPA200.8
Lead, ug/l	< 10	< 10	11	< 10	10	04/30/07	CMF	EPA200.8
Nickel, ug/l	< 50	< 50	< 50	< 50	< 50	04/30/07	CMF	EPA200.8
Selenium, ug/l	< 10	< 10	< 10	< 10	< 10	04/30/07	CMF	EPA200.8
Silver, ug/l	<10	<10	<10	<10	<10	04/30/07	CMF	EPA200.8
Thallium, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	04/30/07	CMF	EPA200.8
Vanadium, ug/l	< 25	< 25	31	35	50	04/30/07	CMF	EPA200.8
Zinc, ug/l	11	12	82	55	345	04/30/07	CMF	EPA200.8

Environment 1, Incorporated

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

PHONE (252) 756-6208
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Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6037

DAVIDSON COUNTY (HOLLY GROVE)
MS. JOAN SMYTH
RICHARDSON SMITH GARDNER
14 N. BOYLAN AVENUE
RALEIGH ,NC 27603

DATE COLLECTED: 04/20/07
DATE REPORTED : 05/09/07

REVIEWED BY:

PARAMETERS	MW-10	Analysis Date	Analyst	Method Code
Antimony, ug/l	<6.0	04/30/07	CMF	EPA200.8
Arsenic, ug/l	< 10	04/30/07	CMF	EPA200.8
Barium, ug/l	799	04/30/07	CMF	EPA200.8
Beryllium, ug/l	1	04/30/07	CMF	EPA200.8
Cadmium, ug/l	2	04/30/07	CMF	EPA200.8
Cobalt, ug/l	16	04/30/07	CMF	EPA200.8
Copper, ug/l	87	04/30/07	CMF	EPA200.8
Total Chromium, ug/l	20	04/30/07	CMF	EPA200.8
Lead, ug/l	18	04/30/07	CMF	EPA200.8
Nickel, ug/l	< 50	04/30/07	CMF	EPA200.8
Selenium, ug/l	< 10	04/30/07	CMF	EPA200.8
Silver, ug/l	<10	04/30/07	CMF	EPA200.8
Thallium, ug/l	<5.0	04/30/07	CMF	EPA200.8
Vanadium, ug/l	92	04/30/07	CMF	EPA200.8
Zinc, ug/l	168	04/30/07	CMF	EPA200.8

Environment 1, Incorporated

Wastewater ID: 10

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

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

CLIENT: DAVIDSON COUNTY (HOLLY GROVE)
MS. JOAN SMYTH
RICHARDSON SMITH GARDNER
14 N. BOYLAN AVENUE
RALEIGH, NC 27603

CLIENT ID: 6037
ANALYST: MAO
DATE COLLECTED: 04/20/07
DATE REPORTED: 05/09/07

Page: 1

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

Date Analyzed: / PARAMETERS, ug/l	05/03/07 MW-1A	05/03/07 MW-5	05/03/07 MW-6	05/04/07 MW-8	05/03/07 MW-9
1. Chloromethane	<5.00	<5.00	<5.00	<5.00	<5.00
2. Vinyl Chloride	<5.00	<5.00	<5.00	<5.00	<5.00
3. Bromomethane	<10.00	<10.00	<10.00	<10.00	<10.00
4. Chloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
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	<5.00	<5.00	5.10	<5.00	<5.00
11. trans-1,2-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
12. 1,1-Dichloroethane	35.10	<5.00	6.00	8.90	<5.00
13. Vinyl Acetate	<50.00	<50.00	<50.00	<50.00	<50.00
14. Cis-1,2-Dichloroethene	38.70	<5.00	<5.00	<5.00	<5.00
15. 2-Butanone	<100.00	<100.00	<100.00	<100.00	<100.00
16. Bromochloromethane	<3.00	<3.00	<3.00	<3.00	<3.00
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	<5.00	<5.00	<5.00	<5.00	<5.00
20. Benzene	4.00	<3.00	<3.00	<3.00	3.20
21. 1,2-Dichloroethane	<3.00	<3.00	<3.00	<3.00	<3.00
22. Trichloroethene	<3.00	<3.00	<3.00	<3.00	<3.00
23. 1,2-Dichloropropane	<3.00	<3.00	<3.00	<3.00	<3.00
24. Bromodichloromethane	<3.00	<3.00	<3.00	<3.00	<3.00
25. Cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00
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	<5.00	<5.00	<5.00	<5.00	<5.00
29. 1,1,2-Trichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
30. Tetrachloroethene	<3.00	<3.00	<3.00	<3.00	<3.00
31. 2-Hexanone	<50.00	<50.00	<50.00	<50.00	<50.00
32. Dibromochloromethane	<3.00	<3.00	<3.00	<3.00	<3.00
33. 1,2-Dibromoethane	<3.00	<3.00	<3.00	<3.00	<3.00
34. Chlorobenzene	<3.00	<3.00	<3.00	<3.00	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	<4.00	<4.00	<4.00	<4.00	<4.00
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	<3.00	<3.00	<3.00	<3.00	<3.00
41. 1,1,2,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
42. 1,2,3-Trichloropropane	<8.00	<8.00	<8.00	<8.00	<8.00
43. 1,4-Dichlorobenzene	<3.00	<3.00	<3.00	<3.00	5.20
44. 1,2-Dichlorobenzene	<5.00	<5.00	<5.00	<5.00	<5.00
45. 1,2-Dibromo-3-Chloropropane	<13.00	<13.00	<13.00	<13.00	<13.00
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

Wastewater ID: 10

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

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

CLIENT: DAVIDSON COUNTY (HOLLY GROVE)
MS. JOAN SMYTH
RICHARDSON SMITH GARDNER
14 N. BOYLAN AVENUE
RALEIGH, NC 27603

CLIENT ID: 6037
ANALYST: MAO
DATE COLLECTED: 04/20/07
DATE REPORTED: 05/09/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	Date Analyzed: 05/03/07 MW-10
1. Chloromethane	<5.00
2. Vinyl Chloride	<5.00
3. Bromomethane	<10.00
4. Chloroethane	<5.00
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	<5.00
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	<3.00
17. Chloroform	<5.00
18. 1,1,1-Trichloroethane	<5.00
19. Carbon Tetrachloride	<5.00
20. Benzene	<3.00
21. 1,2-Dichloroethane	<3.00
22. Trichloroethene	<3.00
23. 1,2-Dichloropropane	<3.00
24. Bromodichloromethane	<3.00
25. Cis-1,3-Dichloropropene	<5.00
26. 4-Methyl-2-Pentanone	<100.00
27. Toluene	<5.00
28. trans-1,3-Dichloropropene	<5.00
29. 1,1,2-Trichloroethane	<5.00
30. Tetrachloroethene	<3.00
31. 2-Hexanone	<50.00
32. Dibromochloromethane	<3.00
33. 1,2-Dibromoethane	<3.00
34. Chlorobenzene	<3.00
35. 1,1,1,2-Tetrachloroethane	<5.00
36. Ethylbenzene	<5.00
37. Xylenes	<4.00
38. Dibromomethane	<10.00
39. Styrene	<10.00
40. Bromoform	<3.00
41. 1,1,2,2-Tetrachloroethane	<5.00
42. 1,2,3-Trichloropropane	<8.00
43. 1,4-Dichlorobenzene	<3.00
44. 1,2-Dichlorobenzene	<5.00
45. 1,2-Dibromo-3-Chloropropane	<13.00
46. Acrylonitrile	<200.00
47. trans-1,4-Dichloro-2-Butene	<100.00

Environment 1, Incorporated

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#: 6037 A

DAVIDSON COUNTY (HOLLY GROVE)
MS. JOAN SMYTH
RICHARDSON SMITH GARDNER
14 N. BOYLAN AVENUE
RALEIGH ,NC 27603

DATE COLLECTED: 04/20/07
DATE REPORTED : 05/08/07

REVIEWED BY:

PARAMETERS	SW-1	SW-2	SW-3	MW-15	MW-16	Analysis Date	Analyst	Method Code
Antimony, ug/l	<6.0	<6.0	<6.0	<6.0	<6.0	04/30/07	CMF	EPA200.8
Arsenic, ug/l	< 10	< 10	< 10	< 10	< 10	04/30/07	CMF	EPA200.8
Barium, ug/l	< 100	< 100	< 100	< 100	< 100	04/30/07	CMF	EPA200.8
Beryllium, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	04/30/07	CMF	EPA200.8
Cadmium, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	04/30/07	CMF	EPA200.8
Cobalt, ug/l	< 10	< 10	< 10	12	< 10	04/30/07	CMF	EPA200.8
Copper, ug/l	< 10	< 10	< 10	13	< 10	04/30/07	CMF	EPA200.8
Total Chromium, ug/l	< 10	< 10	< 10	16	< 10	04/30/07	CMF	EPA200.8
Lead, ug/l	< 10	< 10	< 10	< 10	154	04/30/07	CMF	EPA200.8
Nickel, ug/l	< 50	< 50	< 50	< 50	< 50	04/30/07	CMF	EPA200.8
Selenium, ug/l	< 10	< 10	< 10	< 10	< 10	04/30/07	CMF	EPA200.8
Silver, ug/l	<10	<10	<10	<10	<10	04/30/07	CMF	EPA200.8
Thallium, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	04/30/07	CMF	EPA200.8
Vanadium, ug/l	< 25	< 25	< 25	< 25	< 25	04/30/07	CMF	EPA200.8
Zinc, ug/l	< 10	< 10	< 10	28	< 10	04/30/07	CMF	EPA200.8

Environment 1, Incorporated

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

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Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6037 A

DAVIDSON COUNTY (HOLLY GROVE)
MS. JOAN SMYTH
RICHARDSON SMITH GARDNER
14 N. BOYLAN AVENUE
RALEIGH ,NC 27603

DATE COLLECTED: 04/20/07
DATE REPORTED : 05/08/07

REVIEWED BY:

PARAMETERS	MW-17	Trip Blank	Analysis Date	Analyst	Method Code
Antimony, ug/l	<6.0		04/30/07	CMF	EPA200.8
Arsenic, ug/l	< 10		04/30/07	CMF	EPA200.8
Barium, ug/l	177		04/30/07	CMF	EPA200.8
Beryllium, ug/l	<1.0		04/30/07	CMF	EPA200.8
Cadmium, ug/l	<1.0		04/30/07	CMF	EPA200.8
Cobalt, ug/l	< 10		04/30/07	CMF	EPA200.8
Copper, ug/l	< 10		04/30/07	CMF	EPA200.8
Total Chromium, ug/l	< 10		04/30/07	CMF	EPA200.8
Lead, ug/l	< 10		04/30/07	CMF	EPA200.8
Nickel, ug/l	< 50		04/30/07	CMF	EPA200.8
Selenium, ug/l	< 10		04/30/07	CMF	EPA200.8
Silver, ug/l	<10		04/30/07	CMF	EPA200.8
Thallium, ug/l	<5.0		04/30/07	CMF	EPA200.8
Vanadium, ug/l	< 25		04/30/07	CMF	EPA200.8
Zinc, ug/l	< 10		04/30/07	CMF	EPA200.8

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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CLIENT: DAVIDSON COUNTY (HOLLY GROVE)
MS. JOAN SMYTH
RICHARDSON SMITH GARDNER
14 N. BOYLAN AVENUE
RALEIGH, NC 27603

CLIENT ID: 6037 A
ANALYST: MAO
DATE COLLECTED: 04/20/07
DATE REPORTED: 05/08/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

Date Analyzed: / PARAMETERS, ug/l	05/03/07 SW-1	05/03/07 SW-2	05/03/07 SW-3	05/04/07 MW-15	05/04/07 MW-16
1. Chloromethane	<5.00	<5.00	<5.00	<5.00	<5.00
2. Vinyl Chloride	<5.00	<5.00	<5.00	<5.00	<5.00
3. Bromomethane	<10.00	<10.00	<10.00	<10.00	<10.00
4. Chloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
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	<5.00	<5.00	<5.00	<5.00	<5.00
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	<3.00	<3.00	<3.00	<3.00	<3.00
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	<5.00	<5.00	<5.00	<5.00	<5.00
20. Benzene	<3.00	<3.00	<3.00	<3.00	<3.00
21. 1,2-Dichloroethane	<3.00	<3.00	<3.00	<3.00	<3.00
22. Trichloroethene	<3.00	<3.00	<3.00	<3.00	<3.00
23. 1,2-Dichloropropane	<3.00	<3.00	<3.00	<3.00	<3.00
24. Bromodichloromethane	<3.00	<3.00	<3.00	<3.00	<3.00
25. Cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00
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	<5.00	<5.00	<5.00	<5.00	<5.00
29. 1,1,2-Trichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
30. Tetrachloroethene	<3.00	<3.00	<3.00	<3.00	<3.00
31. 2-Hexanone	<50.00	<50.00	<50.00	<50.00	<50.00
32. Dibromochloromethane	<3.00	<3.00	<3.00	<3.00	<3.00
33. 1,2-Dibromoethane	<3.00	<3.00	<3.00	<3.00	<3.00
34. Chlorobenzene	<3.00	<3.00	<3.00	<3.00	<3.00
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	<4.00	<4.00	<4.00	<4.00	<4.00
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	<3.00	<3.00	<3.00	<3.00	<3.00
41. 1,1,2,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
42. 1,2,3-Trichloropropane	<8.00	<8.00	<8.00	<8.00	<8.00
43. 1,4-Dichlorobenzene	<3.00	<3.00	<3.00	<3.00	<3.00
44. 1,2-Dichlorobenzene	<5.00	<5.00	<5.00	<5.00	<5.00
45. 1,2-Dibromo-3-Chloropropane	<13.00	<13.00	<13.00	<13.00	<13.00
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: 37715
Wastewater ID: 10

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

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

CLIENT: DAVIDSON COUNTY (HOLLY GROVE)
MS. JOAN SMYTH
RICHARDSON SMITH GARDNER
14 N. BOYLAN AVENUE
RALEIGH, NC 27603

CLIENT ID: 6037 A
ANALYST: MAO
DATE COLLECTED: 04/20/07
DATE REPORTED: 05/08/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l — Date Analyzed:	05/04/07 MW-17	05/04/07 Trip Blank
1. Chloromethane	<5.00	<5.00
2. Vinyl Chloride	<5.00	<5.00
3. Bromomethane	<10.00	<10.00
4. Chloroethane	<5.00	<5.00
5. Trichlorofluoromethane	<5.00	<5.00
6. 1,1-Dichloroethene	<5.00	<5.00
7. Acetone	<100.00	<100.00
8. Iodomethane	<10.00	<10.00
9. Carbon Disulfide	<100.00	<100.00
10. Methylene Chloride	<5.00	<5.00
11. trans-1,2-Dichloroethene	<5.00	<5.00
12. 1,1-Dichloroethane	13.40	<5.00
13. Vinyl Acetate	<50.00	<50.00
14. Cis-1,2-Dichloroethene	<5.00	<5.00
15. 2-Butanone	<100.00	<100.00
16. Bromochloromethane	<3.00	<3.00
17. Chloroform	<5.00	<5.00
18. 1,1,1-Trichloroethane	<5.00	<5.00
19. Carbon Tetrachloride	<5.00	<5.00
20. Benzene	<3.00	<3.00
21. 1,2-Dichloroethane	<3.00	<3.00
22. Trichloroethene	<3.00	<3.00
23. 1,2-Dichloropropane	<3.00	<3.00
24. Bromodichloromethane	<3.00	<3.00
25. Cis-1,3-Dichloropropene	<5.00	<5.00
26. 4-Methyl-2-Pentanone	<100.00	<100.00
27. Toluene	<5.00	<5.00
28. trans-1,3-Dichloropropene	<5.00	<5.00
29. 1,1,2-Trichloroethane	<5.00	<5.00
30. Tetrachloroethene	<3.00	<3.00
31. 2-Hexanone	<50.00	<50.00
32. Dibromochloromethane	<3.00	<3.00
33. 1,2-Dibromoethane	<3.00	<3.00
34. Chlorobenzene	<3.00	<3.00
35. 1,1,1,2-Tetrachloroethane	<5.00	<5.00
36. Ethylbenzene	<5.00	<5.00
37. Xylenes	<4.00	<4.00
38. Dibromomethane	<10.00	<10.00
39. Styrene	<10.00	<10.00
40. Bromoform	<3.00	<3.00
41. 1,1,2,2-Tetrachloroethane	<5.00	<5.00
42. 1,2,3-Trichloropropane	<8.00	<8.00
43. 1,4-Dichlorobenzene	<3.00	<3.00
44. 1,2-Dichlorobenzene	<5.00	<5.00
45. 1,2-Dibromo-3-Chloropropane	<13.00	<13.00
46. Acrylonitrile	<200.00	<200.00
47. trans-1,4-Dichloro-2-Butene	<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

CHAIN OF CUSTODY RECORD

CLIENT: 6037 **Week:** 11

DAVIDSON COUNTY (HOLLY GROVE)
MS. JOAN SMYTH
RICHARDSON SMITH GARDNER
14 N. BOYLAN AVENUE
RALEIGH NC 27603

(919) 828-0577

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

																			CHLORINE NEUTRALIZED AT COLLECTION
							L2	L2	L2	L2									pH CHECK (LAB)
							P	P	G	G	G								CONTAINER TYPE, P/G
							A	B	E	E	E								CHEMICAL PRESERVATION
SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	EPA 8260B	8260 Dup. 1	8260 Dup. 2									PARAMETERS
~~MW-1A~~					4														
MW-2	4/18/07	13:00		15.5	3														
MW-3A	4/18/07	16:00		14.5	3														
~~MW-5~~					3														
~~MW-6~~					3														
~~MW-7~~					3														
~~MW-8~~					3														
~~MW-9~~					3														
~~MW-10~~					3														
MW-11	4/18/07	13:00		14.5	3														
MW-12	4/18/07	13:15		15.5	4														

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
☐ WASTEWATER (NPDES)
☐ DRINKING WATER
☐ DWQ/GW
☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY: (Y) N

SAMPLES COLLECTED BY: (Please Print) Brit Ranson

SAMPLES RECEIVED IN LAB AT 0.6 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Brit Ranson	4/19/07 5:30	UPS	
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
		Arnetha Sadler	4/20/07 10:15AM
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS: all samples grab

Instructions for completing this form are on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

FORM #5

№ 151361

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

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

CHAIN OF CUSTODY RECORD

CLIENT: 6037 **Week:** 11

DAVIDSON COUNTY (HOLLY GROVE)
MS. JOAN SMYTH
RICHARDSON SMITH GARDNER
14 N. BOYLAN AVENUE
RALEIGH NC 27603

(919) 828-0577

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	EPA 8260B	8260 Dup. 1	8260 Dup. 2
						L2	L2	L2	L2	
						P	P	G	G	G
						A	B	E	E	E
MW-13	4/18/07	12:00		14.5	3					
MW-14	4/18/07	16:10		15.0	3					

PARAMETERS

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB)

CONTAINER TYPE, P/G

CHEMICAL PRESERVATION

A - NONE
B - HNO_3
C - H_2SO_4
D - NAOH
E - HCL
F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
☐ WASTEWATER (NPDES)
☐ DRINKING WATER
☐ DWQ/GW
☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY: (Y) N

SAMPLES COLLECTED BY: (Please Print) Britt RANSOM

SAMPLES RECEIVED IN LAB AT 0.6 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
B Ransom	4/19/07 5:30	U PS	
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
		[signature]	4/20/07 10:15AM
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS: All samples grab

Instructions for completing this form are on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

FORM #5

№ 151360

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

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

CHAIN OF CUSTODY RECORD

Page _____ of _____

CLIENT: 6037
Davidson Co.
Holly Grove Landfill
Richardson Smith Gardner

DISINFECTION
- ☐ CHLORINE
- ☐ UV
- ☐ NONE
- ☐ _____

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB): L2 L2 L2

CONTAINER TYPE, P/G

CHEMICAL PRESERVATION

PARAMETERS: A - NONE; B - HNO_3; C - H_2SO_4; D - NAOH; E - HCL; F - ZINC ACETATE; G - NA THIOSULFATE

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/L AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	metals	EPA 8260B	8260 Dup 1
MW-1A	4/20/07				3	X	X	X
MW-5					3	X	X	X
MW-6					3	X	X	X
MW-8					3	X	X	X
MW-9					3	X	X	X
MW-10					3	X	X	X

CLASSIFICATION:
- ☐ WASTEWATER (NPDES)
- ☐ DRINKING WATER
- ☐ DWQ/GW
- ☐ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY: Y (circled) N

SAMPLES COLLECTED BY: (Please Print)

SAMPLES RECEIVED IN LAB AT 2.2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
[signature]	4/23 4:30pm	[signature]	4/24/07 10:00
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS: MW-7 not present. well abandoned?

Instructions for completing this form are on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

FORM #5

№ 151332

Environment 1, Inc.
P.O. Box 7 ~~185~~ 114 Oakmont Dr.
Greenville, NC 27858

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

CHAIN OF CUSTODY RECORD

CLIENT: 6037 A **Week:** 11

DAVIDSON COUNTY (HOLLY GROVE)
MS. JOAN SMYTH
RICHARDSON SMITH GARDNER
14 N. BOYLAN AVENUE
RALEIGH NC 27603

(919) 828-0577

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

CHLORINE NEUTRALIZED AT COLLECTION																				
pH CHECK (LAB)																				
CONTAINER TYPE, P/G																				
CHEMICAL PRESERVATION																				
PARAMETERS																				
SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Metals	EPA 8260B	8260 Dup. 1	8260 Dup. 2											