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NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- Prepare one form for each individually monitored unit.
- Please type or print legibly.
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i)).
- In accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Joan Smyth, P.G.

Phone: 919-828-0577 x 122

E-mail: joan@rsgengineers.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Closed Avery County MSW Landfill	Avery County Landfill Brushy Creek Road Spruce Pine, NC 28777	06-01	.0500	April 17, 2008

Environmental Status: (Check all that apply)

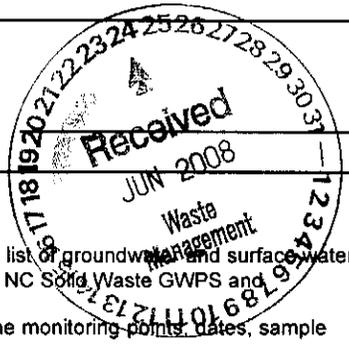
- Initial/Background Monitoring Detection Monitoring Assessment Monitoring Corrective Action

Type of data submitted: (Check all that apply)

- Groundwater monitoring data from monitoring wells Methane gas monitoring data
 Groundwater monitoring data from private water supply wells Corrective action data (specify)
 Leachate monitoring data Other(specify)
 Surface water monitoring data

Notification attached?

- No. No groundwater or surface water standards were exceeded.
 Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
 Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.



Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Joan Smyth, P.G.

Senior Hydrogeologist

919-828-0577 x122

Facility Representative Name (Print)

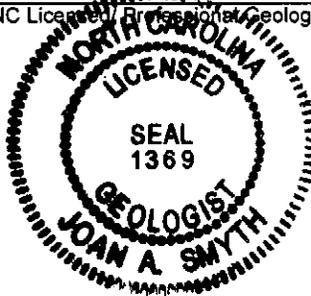
Title

(Area Code) Telephone Number

Joan A. Smyth
Signature

8/19/08
Date

Affix NC Licensed Professional Geologist/Engineer Seal here:



Closed Avery County MSW Landfill

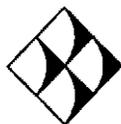
Ground Water Monitoring Report

April 2008 Semi-annual Monitoring Event

**Avery County Landfill
Newland, North Carolina
NC Solid Waste Permit # 06-01**

Prepared for:
Avery County Solid Waste
175 Linville St.
Newland, North Carolina 28657

June 2008



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

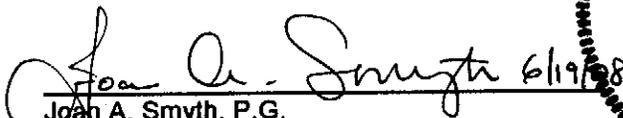
Spring 2008 Ground Water Monitoring Report

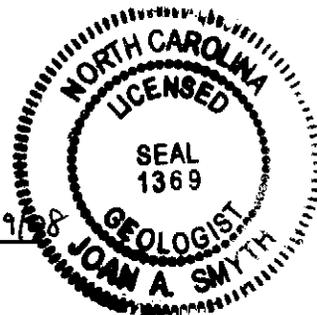
**Avery County Closed MSW Landfill
Newland, North Carolina
NC Solid Waste Permit # 06-01**

Prepared for:

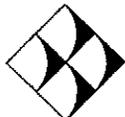
**Avery County Solid Waste
175 Linville st.
Newland, North Carolina 28657**

RSG Project No. **Avery 07-2**


Joan A. Smyth, P.G.
Senior Hydrogeologist



June 2008



RICHARDSON SMITH GARDNER & ASSOCIATES
Engineering and Geological Services
14 N. Boylan Avenue
Raleigh, North Carolina 27603

**Avery County – MSW Landfill
Semi-annual Ground Water Monitoring Report
April 2008 Sampling Event**

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1.0 Introduction

The Avery County Landfill, currently operating under Solid Waste Permit # 06-01 (MSW) is required to submit semi-annual ground water monitoring reports for the closed MSW landfill. This report, prepared by Richardson Smith Gardner and Associates, Inc (RSG), presents the results of the first semi-annual monitoring event for 2008. This event was performed to comply with the semi-annual monitoring schedule required by NC Solid Waste Regulations.

The ground water monitoring network for the MSW landfill includes three (3) ground water monitoring wells (MW-1, MW-2 & MW-3) and two surface water locations (SW-1 & SW-2). This report includes summaries of the field procedures and laboratory analyses for the MSW site. Also included are summary tables of the results and laboratory analytical reports.

2.0 Sampling Procedures

The sampling event was performed by trained personnel from RSG on April 17th 2008, and consisted of collecting samples from three (3) ground water wells, shown in **Figure 1**. Surface water samples were collected from two locations (SW-1 and SW-2) from the landfill.

Sampling methods followed the protocol outlined in the North Carolina Water Quality Monitoring Guidance Document for Solid Waste Facilities (NCDENR, DWM). The depth to water in each well was gauged prior to purging and sampling. Field measurements of pH, specific conductivity, and temperature were obtained from each well. Water table elevations and field parameter results are included in **Tables 1 and 2**, respectively.

All samples were collected by RSG personnel in laboratory prepared containers for the specified analytical procedures. Samples were collected using new factory sealed teflon bailers. Ground water samples were properly preserved, placed on ice, and transported to the laboratory facility (Environment 1, Inc.), within the specified holding times for each analysis.

3.0 Field and Laboratory Results

3.1 Laboratory Analysis

All samples were transported to the laboratory facility under proper chain of custody analyzed at the specified DWM Solid Waste Quantitation Limits¹ for Appendix I constituents. The laboratory report is attached for your review as **Appendix A**.

¹ New Guidelines for Electronic Submittal of Environmental Monitoring Data Memo, NCDENR – Solid Waste Section, October 27, 2006

3.2 Field and Laboratory Results

Ground water and field measurements are included in **Table 2**. Detected constituents are presented in **Table 3**.

Five (5) inorganic constituents (cadmium, cobalt, copper, lead and zinc) were detected above the SWSL in all three (3) wells. Of these, two (2) constituents were detected above their 2L standard:

- cobalt in MW-1 and
- lead in MW-2.

Table 3 summarizes the list of constituents detected. Several organic constituents were detected at concentrations below the SWSLs. These are listed as “J” values on **Table 3**.

4.0 Ground Water Characterization

A potentiometric surface map was prepared from ground water elevation data collected during this sampling event. The data indicates that ground water is flowing generally to the south and southeast across most of the site. Hydraulic conductivity data was not available for these wells so ground water velocities could not be calculated. The potentiometric surface map (**Figure 1**) is also attached for your review.

5.0 Conclusions

The results of this monitoring event indicate detectable levels of five (5) inorganic constituents. The inorganic constituents are likely due to suspended solids in the samples. The next ground water monitoring event is scheduled for October 2008. A report will be submitted to NCDENR upon receipt of laboratory analyses.

Figures

Tables

Table 1
Avery County MSW Landfill
Ground Water Elevation Data
4/17/2008

Well	Latitude	Longitude	MSW Elevation	Water Elevation	Depth	BM
MW-1	812705.6749	1114262.085	2672.6	8.5	2664.1	
MW-2	813030.7307	1114625.494	2666.81	5.09	2661.72	
MW-3	813531.8988	1114643.917	2696.62	5.45	2691.17	

Table 2
Avery County MSW Landfill
Field Parameters
4/17/2008

Well Identification #	Static Water Level (ft)	Temperature (Celsius)	Turbidity (NTU)	Specific Conductivity (µS/cm)	pH
MW-1	8.83	10	25.3	210	6.3
MW-2	4.97	10	13.3	50	6.5
MW-3	5.67	9	57.7	150	6.3
SW-1	nm	nm	nm	nm	nm
SW-2	nm	10	9.91	80	6.9

nm = Not Measured

Note:

measured with a "Hanna" pH/EC/TDS Meter, type HI9811
 Water Levels measured with a Slope Indicator Water Level Meter
 Turbidity measured with a Hach 2100P turbidimeter and
 Temperature measured with a laboratory grade thermometer.
 Data Collected by field technician Clark Wipfield, RSG Engineers Inc.

Table 3
Avery County MSW Landfill
Detected Inorganic and Organic Constituents
4/17/2008

Constituents	SWSL	2L	MW-1	MW-2	MW-3	SW-1	SW-2
Antimony	6	---	ND	0.3J	ND	0.5J	0.1J
Arsenic	10	50	0.5J	1.6J	1.6J	0.2J	ND
Barium	100	2000	86.8J	33.2J	33.2J	10.5J	9.9J
Beryllium	1	---	ND	0.3J	0.1J	ND	ND
Cadmium	1	5	0.4J	0.7J	1.8	ND	ND
Cobalt	10	---	16	7.5J	3.4J	0.2J	0.4J
Copper	10	1000	0.4J	85	1.3J	0.4J	0.4J
Lead	10	15	0.2J	16	1.2J	0.3J	0.1J
Nickel	50	100	2.8J	1.9J	0.8J	0.5J	0.4J
Selenium	10	50	0.7J	0.3J	0.2J	ND	ND
Total Chromium	10	50	ND	3.9J	0.3J	ND	ND
Thallium	5	---	0.2J	0.2J	0.1J	0.1J	ND
Vanadium	25	---	0.7J	6.9J	2.2J	0.7J	0.8J
Zinc	10	2100	14	5.1J	3.4J	2.9J	2.1J
1,1-Dichloroethane	5	700	0.40J	ND	ND	ND	0.30J
1,4-Dichlorobenzene	1	75	0.60J	ND	0.80J	ND	ND
Acetone	100	700	2.10J	2.50J	3.30J	2.80J	1.70J
Benzene	1	1	0.40J	ND	0.30J	ND	ND
Chloroethane	10	2800	ND	ND	0.30J	ND	0.90J
Cis-1,2-Dichloroethene	5	70	0.60J	ND	0.60J	ND	ND
Vinyl Chloride	1	0.015	ND	ND	0.40J	ND	ND

- SWSL - Solid Waste Quantitation Limit
- ND - Not detected at or above SWSL
- Shading - Levels above 2L standard or no 2L standard
- Bold Letters - Constituent detected above SWSL
- J - Detected constituents below SWSL limit
- Note - Trip Blank detected 0.30J of Toluene

All SWSLs, 2L Standards and Results are in ug/l.

Data from Environment 1 laboratory report dated 5/19/08, ID# 6056.

Appendix A

Laboratory Analytical Report

Environment 1, Incorporated

LABORATORY ID: 19

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

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

REC'D MAY 21 2008

ID#: 6056

AVERY COUNTY LANDFILL (OLD)
MS. JOAN SMYTH
RICHARDSON SMITH GARDNER
14 N. BOYLAN AVENUE
RALEIGH, NC 27603

DATE COLLECTED: 04/17/08
DATE REPORTED : 05/19/08

REVIEWED BY: 

PARAMETERS	MDL	SWSL	MW-1	MW-2	MW-3	SW-1	SW-2	Analysis		Method
								Date	Analyst	
Antimony, ug/l	0.08	6.0	--- U	0.3 J	--- U	0.5 J	0.1 J	04/22/08	LFJ	EPA200.8
Arsenic, ug/l	0.07	10.0	0.5 J	1.6 J	1.6 J	0.2 J	--- U	04/22/08	LFJ	EPA200.8
Barium, ug/l	0.11	100.0	86.8 J	33.2 J	33.2 J	10.5 J	9.9 J	04/22/08	LFJ	EPA200.8
Beryllium, ug/l	0.06	1.0	--- U	0.3 J	0.1 J	--- U	--- U	04/22/08	LFJ	EPA200.8
Cadmium, ug/l	0.04	1.0	0.4 J	0.7 J	1.8	--- U	--- U	04/22/08	LFJ	EPA200.8
Cobalt, ug/l	0.03	10.0	16	7.5 J	3.4 J	0.2 J	0.4 J	04/22/08	LFJ	EPA200.8
Copper, ug/l	0.05	10.0	0.4 J	85	1.3 J	0.4 J	0.4 J	04/22/08	LFJ	EPA200.8
Total Chromium, ug/l	0.11	10.0	--- U	3.9 J	0.3 J	--- U	--- U	04/22/08	LFJ	EPA200.8
Lead, ug/l	0.04	10.0	0.2 J	16	1.2 J	0.3 J	0.1 J	04/22/08	LFJ	EPA200.8
Nickel, ug/l	0.06	50.0	2.8 J	1.9 J	0.8 J	0.5 J	0.4 J	04/22/08	LFJ	EPA200.8
Selenium, ug/l	0.14	10.0	0.7 J	0.3 J	0.2 J	--- U	--- U	04/22/08	LFJ	EPA200.8
Silver, ug/l	0.04	10.0	0.1 J	0.1 J	--- U	0.1 J	--- U	04/22/08	LFJ	EPA200.8
Thallium, ug/l	0.04	5.0	0.2 J	0.2 J	0.1 J	0.1 J	--- U	04/22/08	LFJ	EPA200.8
Vanadium, ug/l	0.07	25.0	0.7 J	6.9 J	2.2 J	0.7 J	0.8 J	04/22/08	LFJ	EPA200.8
Zinc, ug/l	0.04	10.0	14	5.1 J	3.4 J	2.9 J	2.1 J	04/22/08	LFJ	EPA200.8

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Laboratory Analyses — Environmental Consultants

Environment 1, Incorporated

MEMORANDUM ID: 19

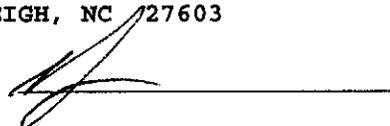
P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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

CLIENT: AVERY COUNTY LANDFILL (OLD)
MS. JOAN SMYTH
RICHARDSON SMITH GARDNER
14 N. BOYLAN AVENUE
RALEIGH, NC 27603

CLIENT ID: 6056
ANALYST: MAO
DATE COLLECTED: 04/17/08
DATE ANALYZED: 04/24/08
DATE REPORTED: 05/19/08

Page: 1

REVIEWED BY: 

VOLATILE ORGANICS EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	MW-1	MW-2	MW-3	SW-1	SW-2	
1. Chloromethane	0.18	1.0	---	U	---	U	---	U
2. Vinyl Chloride	0.34	1.0	---	U	0.40	J	---	U
3. Bromomethane	0.26	10.0	---	U	---	U	---	U
4. Chloroethane	0.29	10.0	---	U	0.30	J	---	U
5. Trichlorofluoromethane	0.13	1.0	---	U	---	U	---	U
6. 1,1-Dichloroethene	0.14	5.0	---	U	---	U	---	U
7. Acetone	1.21	100.0	2.10	J	2.50	J	2.80	J
8. Iodomethane	0.12	10.0	---	U	---	U	---	U
9. Carbon Disulfide	0.14	100.0	---	U	---	U	---	U
10. Methylene Chloride	0.14	1.0	---	U	---	U	---	U
11. trans-1,2-Dichloroethene	0.13	5.0	---	U	---	U	---	U
12. 1,1-Dichloroethane	0.16	5.0	0.40	J	---	U	---	U
13. Vinyl Acetate	0.20	50.0	---	U	---	U	---	U
14. Cis-1,2-Dichloroethene	0.14	5.0	0.60	J	0.60	J	---	U
15. 2-Butanone	0.85	100.0	---	U	---	U	---	U
16. Bromochloromethane	0.11	3.0	---	U	---	U	---	U
17. Chloroform	0.13	5.0	---	U	---	U	---	U
18. 1,1,1-Trichloroethane	0.11	1.0	---	U	---	U	---	U
19. Carbon Tetrachloride	0.13	1.0	---	U	---	U	---	U
20. Benzene	0.16	1.0	0.40	J	0.30	J	---	U
21. 1,2-Dichloroethane	0.12	1.0	---	U	---	U	---	U
22. Trichloroethene	0.13	1.0	---	U	---	U	---	U
23. 1,2-Dichloropropane	0.17	1.0	---	U	---	U	---	U
24. Bromodichloromethane	0.13	1.0	---	U	---	U	---	U
25. Cis-1,3-Dichloropropane	0.17	1.0	---	U	---	U	---	U
26. 4-Methyl-2-Pentanone	0.68	100.0	---	U	---	U	---	U
27. Toluene	0.13	1.0	---	U	---	U	---	U
28. trans-1,3-Dichloropropene	0.14	1.0	---	U	---	U	---	U
29. 1,1,1-Trichloroethane	0.20	1.0	---	U	---	U	---	U
30. Tetrachloroethene	0.16	1.0	---	U	---	U	---	U
31. 2-Hexanone	1.00	50.0	---	U	---	U	---	U
32. Dibromochloromethane	0.14	3.0	---	U	---	U	---	U
33. 1,2-Dibromoethane	0.13	1.0	---	U	---	U	---	U
34. Chlorobenzene	0.13	3.0	---	U	---	U	---	U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	---	U	---	U	---	U
36. Ethylbenzene	0.16	1.0	---	U	---	U	---	U
37. Xylenes	0.48	5.0	---	U	---	U	---	U
38. Dibromomethane	0.17	10.0	---	U	---	U	---	U
39. Styrene	0.16	1.0	---	U	---	U	---	U
40. Bromoform	0.11	3.0	---	U	---	U	---	U
41. 1,1,1,2,2-Tetrachloroethane	0.16	3.0	---	U	---	U	---	U
42. 1,2,3-Trichloropropane	0.06	1.0	---	U	---	U	---	U
43. 1,4-Dichlorobenzene	0.21	1.0	0.60	J	0.80	J	---	U
44. 1,2-Dichlorobenzene	0.13	5.0	---	U	---	U	---	U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	---	U	---	U	---	U
46. Acrylonitrile	1.49	200.0	---	U	---	U	---	U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	---	U	---	U	---	U

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Incorporated

REGISTRATION ID: 19

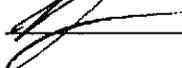
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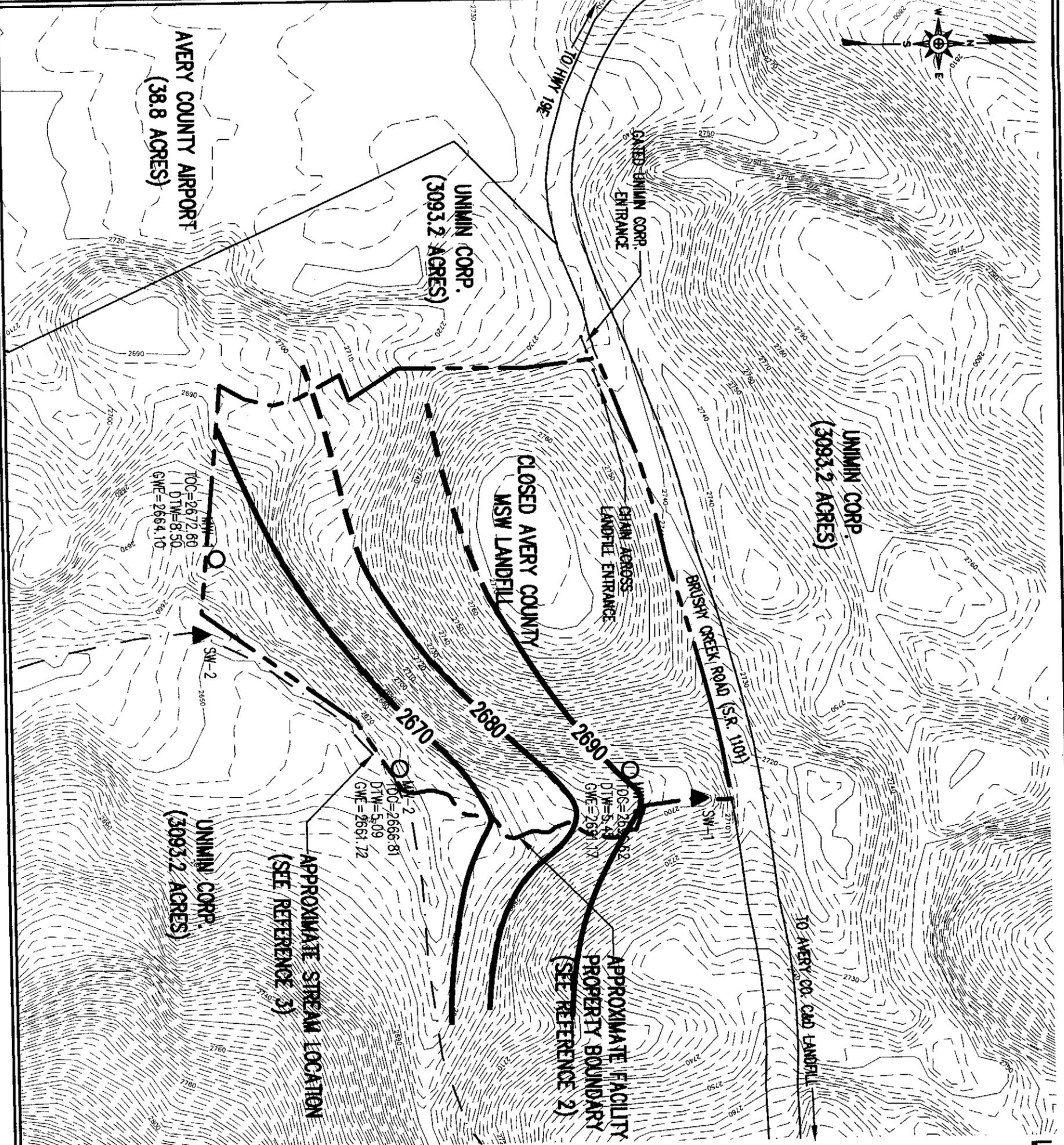
Page: 2

REVIEWED BY: 

VOLATILE ORGANICS EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Trip Blank
1. Chloromethane	0.18	1.0	--- U
2. Vinyl Chloride	0.34	1.0	--- U
3. Bromomethane	0.26	10.0	--- U
4. Chloroethane	0.29	10.0	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U
7. Acetone	1.21	100.0	--- U
8. Iodomethane	0.12	10.0	--- U
9. Carbon Disulfide	0.14	100.0	--- U
10. Methylene Chloride	0.14	1.0	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U
13. Vinyl Acetate	0.20	50.0	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U
15. 2-Butanone	0.85	100.0	--- U
16. Bromochloromethane	0.11	3.0	--- U
17. Chloroform	0.13	5.0	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U
20. Benzene	0.16	1.0	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U
22. Trichloroethene	0.13	1.0	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U
24. Bromodichloromethane	0.13	1.0	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U
27. Toluene	0.13	1.0	0.30 J
28. trans-1,3-Dichloropropene	0.14	1.0	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U
30. Tetrachloroethene	0.16	1.0	--- U
31. 2-Hexanone	1.00	50.0	--- U
32. Dibromochloromethane	0.14	3.0	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U
34. Chlorobenzene	0.13	3.0	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U
36. Ethylbenzene	0.16	1.0	--- U
37. Xylenes	0.48	5.0	--- U
38. Dibromomethane	0.17	10.0	--- U
39. Styrene	0.16	1.0	--- U
40. Bromoform	0.11	3.0	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U
46. Acrylonitrile	1.49	200.0	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.



LEGEND

- EXISTING 10' CONTOUR (SEE REFERENCE 1)
- - - EXISTING 2' CONTOUR
- PROPERTY LINE (SEE REFERENCE 2)
- - - ADJACENT PROPERTY LINE
- - - STREAM LOCATION (SEE REFERENCE 2)
- - - POTENTIOMETRIC SURFACE (DASHED WHERE INFERRED)
- EXISTING MONITORING WELL (SEE REFERENCE 3)
- ▲ EXISTING SURFACE WATER MONITORING POINT (APPROXIMATE LOCATION)
- TOP OF CASING ELEVATION
- DEPTH TO WATER
- GWF= GROUND WATER ELEVATION

- NOTES**
1. DEPTH TO WATER MEASUREMENTS OBTAINED BY RSG PERSONNEL ON APRIL 17, 2008.
- REFERENCES**
1. OVERALL SITE TOPOGRAPHY FROM NORTH CAROLINA DEPARTMENT OF TRANSPORTATION, DATA GENERATED FROM LIDAR DATED MARCH 2005.
 2. SITE PROPERTY LINE, ADJACENT PROPERTIES, AND STREAM LOCATIONS FROM AVERY COUNTY GIS MAPPING DEPARTMENT.
 3. MONITORING WELL LOCATIONS FROM FIELD SURVEY DATED 1/14/08, BY SURVEYING SOLUTIONS, P.C.



TITLE: AVERY COUNTY SOLID WASTE DEPARTMENT AVERY COUNTY MSW LANDFILL POTENTIOMETRIC MAP SPRING '08	DRAWN BY: J.A.L.	CHECKED BY: J.A.S.	SCALE: AS SHOWN	FIGURE NO. 1
	DATE: Jun. 2008	PROJECT NO. AVERY 07-2	FILE NAME AVERY-B0038	 RICHARDSON SMITH GARDNER & ASSOCIATES 14 N. Boylan Ave. Raleigh, N.C. 27603 www.rsgandgwa.com ph: 919-820-8877 fax: 919-820-8868