

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)).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mall Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

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

Richardson Smith Gardner and Associates, Inc.

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

Name: Madeline German Phone: 919-828-0577x222

E-mail: madeline@rsgengineers.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Washington County Closed MSW Landfill	718 Landfill Road, Roper, NC	94-04	.0500	March 1, 2012

Environmental Status: (Check all that apply)

- Initial/Background Monitoring Detection Monitoring Assessment Monitoring Corrective Action

Type of data submitted: (Check all that apply)

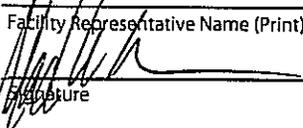
- Groundwater monitoring data from monitoring wells Methane gas monitoring data
 Groundwater monitoring data from private water supply wells Corrective action data (specify) _____
 Leachate monitoring data Other(specify) _____
 Surface water monitoring data

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.

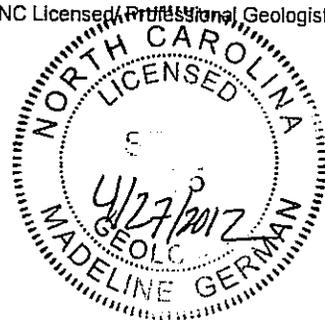
Madeline German, PG Geologist 919-828-0577x222
 Facility Representative Name (Print) Title (Area Code) Telephone Number
 4/27/2012 Affix NC Licensed Professional Geologist Seal
 Signature Date

14 N. Boylan Ave, Raleigh, NC 27603

Facility Representative Address

CO828

NC PE Firm License Number (if applicable effective May 1, 2009)



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Washington County Closed MSW Landfill

Ground Water Monitoring Report

Spring 2012 Semi-annual Monitoring Event

**Washington County Closed MSW Landfill
Plymouth, North Carolina
NC Solid Waste Permit # 94-01-MSWLF-1980**

Prepared for:
Washington County
P.O. Box 1007
Plymouth, North Carolina 27962

April 2012



PRINTED ON 100% RECYCLED PAPER

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Washington County Closed MSW Landfill
Semi-annual Ground Water Monitoring Report
Spring 2012 Event

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1.0 Introduction

The Washington County Closed MSW Landfill, operating under Solid Waste Permit #94-01-MSWLF-1980, is required to conduct semi-annual ground water monitoring in accordance with Solid Waste Section Rule 15A NCAC 13B.0500 (et seq.). This report presents the semi-annual sampling results for the event conducted on March 1, 2012.

This report includes a field procedure summary, laboratory analyses, and ground water characterization for the site. The laboratory analytical results and a single-day potentiometric surface map are also included.

2.0 Regional Geology

The Washington County Landfill is located near Roper, North Carolina. According to the Geologic Map of North Carolina (*USGS, 1985*) this site is underlain by Quaternary surficial deposits that include sand, gravel, clay, and peat deposited in marine, fluvial, eolian and lacustrine environments; typical for a coastal plain environment.

3.0 Sampling Procedures

The sampling event, reportedly performed by Environment 1, Inc. on March 1, 2012, entailed sample collection from four ground water monitoring wells (MW-1 through MW-4) in accordance with the approved site Sampling and Analysis Plan. As part of quality control a trip blank was analyzed for Appendix I volatile organic compounds (VOCs).

Sampling methods followed the protocol outlined in the North Carolina Water Quality Monitoring Guidance Document for Solid Waste Facilities (North Carolina Department of Environment and Natural Resources, Division of Waste Management). The depth to water in each well was gauged prior to purging and sampling. Field measurements for pH, specific conductivity, and temperature were recorded for each well.

Samples were collected in laboratory prepared containers for the specified analytical procedures. Ground water samples were properly preserved, placed on ice and transported to the laboratory facility within the specified holding times for each analysis.

Surface water samples are not included with semi-annual monitoring requirements for this site.

4.0 Field & Laboratory Data

4.1 Laboratory Analysis

The ground water samples were transported to Environment 1, Inc., in Greenville, NC, a North Carolina certified laboratory (NC Wastewater ID #10). Samples were analyzed for the Appendix I VOCs via EPA Test Method 8260B and metals via EPA Test Method 200.8. The laboratory analytical report is included as **Appendix A**.

4.2 Field and Laboratory Results

The field parameter results are included in **Table 2**. Detected inorganic constituents (metals) are presented in **Table 3** and organic constituents (VOCs) are presented in **Table 4**.

One inorganic constituent, barium (MW-2 & MW-3) was detected above the SWSL. No inorganic constituents were detected above the 2L Standard.

Three organic constituents, 1,4-dichlorobenzene, benzene and chlorobenzene were detected above the SWSL in MW-2 and MW-3. Of these, one parameter was reported above the 2L Standard:

- benzene (MW-2 and MW-3).

Graphs of the detected organic constituents over time are included in **Appendix B**. Constituents detected between the Method Detection Limit (MDL) and SWSL are denoted as “J” qualified values; which are not quantifiable values.

5.0 Ground Water Characterization

A single-day potentiometric surface map was prepared from ground water level data collected during this sampling event. Groundwater data from both the closed MSW landfill and the adjacent C&D landfill were used to create this potentiometric surface map. The groundwater elevations indicate that ground water flows in a general north-northeast direction. Hydraulic conductivity data is not available for these wells so ground water velocities could not be calculated. The potentiometric surface map is presented as **Figure 1**.

6.0 Conclusions

Laboratory results indicate that water quality at the Washington County Closed MSW Landfill is generally consistent with reported historical detections. In MW-2 benzene, chlorobenzene and 1,4 dichlorobenzene concentrations have decreased from their reported peaks (spring 2010). MW-3 had been following a decreasing trend; however, in this event reported concentrations for benzene, chlorobenzene and 1,4-dichlorobenzene were at new highs since 2008.

The next ground water monitoring event is scheduled for September 2012. Results will be reported upon completion of laboratory analysis.

Figures

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LEGEND

-  PROPERTY LINE
-  STREAM/POND/DITCH BOUNDARY
-  0.5 POTENTIOMETRIC CONTOUR (DASHED WHERE INFERRED)
-  WETLANDS BOUNDARY AREA (SEE REFERENCE 1)
-  GROUNDWATER FLOW DIRECTION
-  MW-1
TOC=
DTW=
GWE= MONITORING WELL DESIGNATION
TOP OF CASING
DEPTH TO WATER
GROUND WATER ELEVATION

NOTES

1. THE TIRE MONOFILL IS NO LONGER USED BY THE COUNTY. THIS AREA WAS PREVIOUSLY INCORPORATED INTO THE C & D LANDFILL FOOTPRINT.



PHASE 1 TIRE MONOFILL
(SEE NOTE 1)

APPROXIMATE PROPERTY
LINE (SEE REFERENCE 3)

CD-2
TOC=7.68
DTW=5.79
GWE=1.89

CD-1
TOC=7.81
DTW=6.22
GWE=1.59

CD-3
TOC=7.77
DTW=5.5
GWE=2.27

PHASE 1 C&D
LANDFILL AREA

FUTURE PHASES
C&D LANDFILL

MW-2
TOC=9.70
DTW=7.73
GWE=1.97

CD-4
TOC=9.11
DTW=6.57
GWE=2.54

MW-3
TOC=11.30
DTW=8.63
GWE=2.67

EXISTING COVER SOIL
BORROW AREA

LCID AREA

CLOSED MSW
LANDFILL

WETLANDS (TYP.)

MW-4
TOC=9.02
DTW=5.23
GWE=3.79

MW-1
TOC=10.01
DTW=7.1
GWE=2.91

REFERENCES

1. OVERALL SITE BASE TOPOGRAPHY WETLAND, STREAM, AND DITCH BOUNDARIES PROVIDED BY SANBORN, BASED ON MARCH 28, 2009 AERIAL SURVEY.
2. COORDINATE SYSTEM IS STATE PLANE GRID.
3. WELL LOCATIONS OBTAINED FROM THE WASHINGTON COUNTY LANDFILL MONITOR WELL SURVEY REPORT, PREPARED BY SANBORN, DATED APRIL 24, 2009.
4. DATA FROM ENVIRONMENT 1 LABORATORY REPORT DATED 3/26/12.



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 fax: 919-826-3899

FIGURE NO.	1	FILE NAME	WASH-B0032
SCALE:	AS SHOWN	PROJECT NO.	WASH 08-2
CHECKED BY:	M.G.	DATE:	Apr. 2012
DRAWN BY:	W.R.B.		

TITLE:
**WASHINGTON COUNTY
 MSW AND C&D LANDFILLS
 POTENTIOMETRIC SURFACE MAP
 SPRING 2012**

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Tables

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Table 1
Groundwater Elevation Data
Washington County MSW Landfill
3/1/2012

Well	Northing	Easting	Top of Casing (TOC) Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
MW-1	797426.27	2691416.85	10.01	7.10	2.91
MW-2	798555.67	2690813.33	9.70	7.73	1.97
MW-3	797500.35	2689659.95	11.30	8.63	2.67
MW-4	796852.09	2690320.91	9.02	5.23	3.79

Data from Environment 1 laboratory report dated 03/26/2012, ID# 6018.
 Depth to Water measured from top of PVC casing.
 Well locations and elevations provided by Sanborn, Charlotte, NC from field survey conducted on 4/8/09.

Table 2
Field Parameter Results
Washington County MSW Landfill
3/1/2012

Well	pH (Std units)	Specific Conductivity (umhos/cm)	Temperature (Celsius)	Static Water Level (feet)
MW-1	5.6	828	18	7.10
MW-2	6.6	1275	20	7.73
MW-3	6.4	647	18	8.63
MW-4	5.9	109	16	5.23

Note: Temperature and pH measured with a laboratory grade thermometer.
Data from Environment 1 laboratory report dated 03/26/2012, ID# 6018.

Table 3
Detected Inorganic Constituents
Washington County Closed MSW Landfill
3/1/2012

Parameter	SWSL	2L	MW-1	MW-2	MW-3	MW-4
Arsenic	10	10	1.3 J	9 J	5.2 J	0.31 J
Barium	100	700	92.0 J	429	178	25.0 J
Cadmium	1	2	0.08 J	0.14 J	0.07 J	0.32 J
Total Chromium	10	10	0.62 J	2.1 J	0.84 J	2.4 J
Lead	10	15	0.19 J	0.29 J	0.19 J	1.2 J
Selenium	10	20	1.3 J	<0.20	0.26 J	<0.20

- SWSL - Solid Waste Section Quantitation Limit
- 2L - Groundwater Standard (15A NCAC 2L 0200)
- MDL - Method Detection Limit
- ND - Not detected at or above MDL
- Shading - Levels above 2L standard
- Bold Letters - Constituent detected above SWSL
- J - Detected between MDL and SWSL limit

SWSL, 2L Standards and Results are presented in ug/l.
Data from Environment 1 laboratory report dated 03/26/2012, ID# 6018.

Table 4
Detected Organic Constituents
Washington County MSW Landfill
3/1/2012

Parameter	SWSL	2L Standard	MW-1	MW-2	MW-3	MW-4
1,4-Dichlorobenzene	1	6	<0.39	2.9	5.5	<0.39
1,2-Dichlorobenzene	5	20	<0.32	<0.32	0.50 J	<0.32
Benzene	1	1	<0.24	1	2.6	<0.24
Chlorobenzene	3	50	<0.30	8.9	40.9	<0.30

Note: Results are presented in ug/l (ppb)

- SWSL - Solid Waste Section Quantitation Limits
- 2L - Groundwater Standards (15A NCAC 2L 0200)
- MDL - Method Detection Limit
- Shading - Levels above 2L standard or no 2L standard
- Bold Letters - Levels above SWSL

Note: Data from Environment 1 laboratory report dated 03/26/2012, ID# 6018.

Appendix A

Laboratory Analytical Report

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

ID#: 6018

WASHINGTON CO. LANDFILL
MR. CARL CRITCHER
P.O. BOX 1007
PLYMOUTH ,NC 27962

DATE COLLECTED: 03/01/12
DATE REPORTED : 03/26/12

REVIEWED BY: 

PARAMETERS	MDL	SWSL	MW-1	MW-2	MW-3	MW-4	Trip Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.6	6.6	6.4	5.9		03/01/12	RJH	SM4500HB
Arsenic, ug/l	0.10	10.0	1.3 J	9 J	5.2 J	0.31 J		03/05/12	LFJ	EPA200.8
Barium, ug/l	0.02	100.0	92.0 J	429	178	25.0 J		03/05/12	LFJ	EPA200.8
Cadmium, ug/l	0.02	1.0	0.08 J	0.14 J	0.07 J	0.32 J		03/05/12	LFJ	EPA200.8
Total Chromium, ug/l	0.04	10.0	0.62 J	2.1 J	0.84 J	2.4 J		03/05/12	LFJ	EPA200.8
Lead, ug/l	0.02	10.0	0.19 J	0.29 J	0.19 J	1.2 J		03/05/12	LFJ	EPA200.8
Mercury, ug/l	0.05	0.20	--- U	--- U	--- U	--- U		03/05/12	LFJ	EPA200.8
Selenium, ug/l	0.20	10.0	1.3 J	--- U	0.26 J	--- U		03/05/12	LFJ	EPA200.8
Silver, ug/l	0.02	10.0	--- U	--- U	--- U	--- U		03/05/12	LFJ	EPA200.8
Conductivity (at 25c), uMhos/cm	1.0	1.0	828	1275	647	109		03/01/12	RJH	SM2510B
Temperature, °C			18	20	18	16		03/01/12	RJH	SM2550B
Static Water Level, feet			7.10	7.73	8.63	5.23		03/01/12	RJH	
Well Depth, feet			23.09	19.30	19.97	22.90		03/01/12	RJH	

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: WASHINGTON CO. LANDFILL
MR. CARL CRITCHER
P.O. BOX 1007
PLYMOUTH, NC 27962

CLIENT ID: 6018
ANALYST: MAO
DATE COLLECTED: 03/01/12
DATE ANALYZED: 03/07/12
DATE REPORTED: 03/26/12

Page: 1

REVIEWED BY: 

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	MW-1	MW-2	MW-3	MW-4	Trip Blank
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	1.00	2.60	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	8.90	40.90	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	2.90	5.50	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	0.50 J	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U

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

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

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

CLIENT: 6018 Week: 13

WASHINGTON CO. LANDFILL
 MR. CARL CRITCHER
 P.O. BOX 1007
 PLYMOUTH NC 27962

(252) 793-5615

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	PARAMETERS	CLASSIFICATION:	CHLORINE NEUTRALIZED AT COLLECTION	pH CHECK (LAB)	CONTAINER TYPE P/G	CHEMICAL PRESERVATION	
	DATE	TIME				<input type="checkbox"/> CHLORINE	<input type="checkbox"/> UV	<input type="checkbox"/> NONE															
MW-1	03	0112/1320		18	5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A	A	A	A											
MW-2	03	0112/1205		20	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	P	P	P											
MW-3	03	0112/0958		18	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A	A	A	A											
MW-4	03	0112/0940		16	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A	A	A	A											
Trip Blank					2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>															
REINQUISHED BY (SIG.)		DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	COMMENTS:														
REINQUISHED BY (SIG.)		DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	SAMPLER MUST PLACE A "C" FOR COMPOSITE SAMPLE OR A "G" FOR GRAB SAMPLE IN THE BLOCKS ABOVE FOR EACH PARAMETER REQUESTED.														

SAMPLES COLLECTED BY: *H. Sape*
 (Please Print)
 CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
 SOLID WASTE SECTION
 WASTEWATER (NPDES)
 DRINKING WATER
 DW/OGW

SAMPLES RECEIVED IN LAB AT 03 °C
 (Please Print)
 H. Sape / F. O.

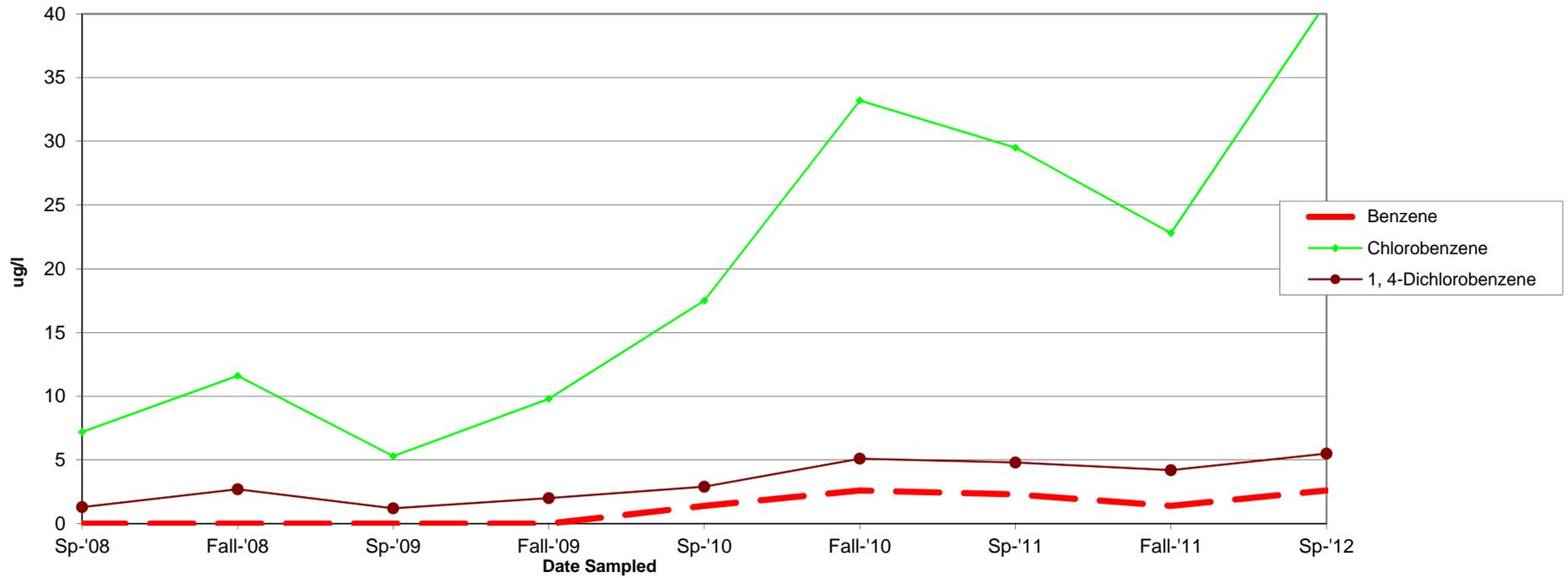
PLEASE READ Instructions for completing this form on the reverse side.

Appendix B

Graphs of Organic Constituent Results

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**Washington County MSW Landfill
MW-3
Historic Organic Detection Data**



**Washington County MSW Landfill
MW-2
Historic Organic Detection Data**

