

DENR USE ONLY:

Paper Report Electronic Data - Email CD (data loaded: Yes / No)

Doc/Event #:

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)).
- 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):

Richardson Smith Gardner and Associates, Inc.

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

Name: Joan A. Smyth, P.G.

Phone: 919-828-0577 x 221

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)
City of High Point Closed Riverdale Landfill	Riverdale Drive High Point, NC	41-01	.0500	March 24, 2011

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 A. Smyth, P.G.

Senior Hydrogeologist

919-828-0577 x 221

Facility Representative Name (Print)

Title

(Area Code) Telephone Number

Affix NC Licensed/ Professional Geologist Seal

Joan A. Smyth
Signature

4/12/11
Date

14 N. Boylan Avenue Raleigh, NC 27603

Facility Representative Address

C0828

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

Revised 6/2009



NC Division of Waste Management - Solid Waste Section

Landfill Gas Monitoring Data 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).

Facility Name: CITY OF HIGH POINT, CLOSED RIVERDALE LP Permit Number: 41-01

Date of Sampling: 3.22.11 NC Landfill Rule (.0500 or .1600): .0500

Name and Position of Sample Collector: DON MISENHEIMER PRJ. SCIENTIST (RSG)

Type and Serial Number of Gas Meter: GEM 2000 GMD90741 Calibration Date of Gas Meter: 3/21/11

Date and Time of Field Calibration: 3/22/2011 10:00am

Type of Field Calibration Gas (15/15 or 35/50): 15/15 Expiration Date of Field Calibration Gas Canister: 4/2013

Pump Rate of Gas Meter: 0.5 L/min

Ambient Air Temperature: 51°F Barometric Pressure: 29.85 General Weather Conditions: Mostly Sunny

Instructions: Under "Location or LFG Well" identify the monitoring wells or describe the location for other tests (e.g., inside buildings). A drawing showing the location of test must be attached. Report methane readings in both % LEL and % methane by volume. A reading in percent methane by volume can be converted to % LEL as follows: % methane by volume = % LEL/20

Location or LFG Well ID	Sample Tube Purge	Time	Time Pumped (s)	Initial %LEL	Stabilized %LEL	%CH4 by Volume	%O2	%CO2	Notes
LFG-7	760s	11:30a	760s	0	0	0	19.5	0.8	
7-1	760s	11:26a	760s	0	7100	7.1	4.6	16.7	
7-2	760s	11:35a	760s	4100 2	0	0	20.0	1.7	
7-3	760s	11:41a	760s	0	32	1.6	10.8	6.9	
7-4	760s	11:45a	760s	0	7100	43.6	0	27.1	
LFG-8	760s	11:50a	760s	0	7100	57.5	0	34.2	
8-1	760s	12:00p	760s	7100	7100	59.1	0.3	22.1	
8-2	760s	12:03p	760s	7100	7100	50.4	0	34.1	
8-3	760s	12:05p	760s	7100	7100	23.4	2.3	17.7	
8-4	760s	12:07p	760s	7100	7100	18.7	5.5	16.6	

If your facility has more gas monitoring locations than there is room on this form, please attach additional sheets listing the same information as contained on this form.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Don Misener (CRSG)
SIGNATURE

PROJECT SCIENTIST
TITLE

NOTE 1

* METER WAS FIELD CAL'D USING 15/15 GAS, THEREFORE HIGH READINGS MAY NOT HAVE A HIGH LEVEL OF ACCURACY. THE 2000 (GEM) WAS RE-CAL'D (FIELD) AFTER HIGH READINGS WERE FOUND. THE PROBES WERE RETESTED WITH NO SIGNIFICANT CHANGES.

NC Division of Waste Management - Solid Waste Section

Landfill Gas Monitoring Data Form

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Facility Name: CITY OF HIGH POINT, CLOSED RIVERDALE LF Permit Number: 41-01

Date of Sampling: 3-22-11 NC Landfill Rule (.0500 or .1600): .0500

Name and Position of Sample Collector: DON MISENHEIMER PRS. SCIENTIST (RSG)

Type and Serial Number of Gas Meter: GEM2000 GM090741 Calibration Date of Gas Meter: 3-21-11

Date and Time of Field Calibration: 3-22-11 10:00a

Type of Field Calibration Gas (15/15 or 35/50): 15/15 Expiration Date of Field Calibration Gas Canister: 4/2013

Pump Rate of Gas Meter: 0.5 L/min

Ambient Air Temperature: 51°F Barometric Pressure: 29.85 General Weather Conditions: Mo Sunny

Instructions: Under "Location or LFG Well" identify the monitoring wells or describe the location for other tests (e.g., inside buildings). A drawing showing the location of test must be attached. Report methane readings in both % LEL and % methane by volume. A reading in percent methane by volume can be converted to % LEL as follows: % methane by volume = % LEL/20

Location or LFG Well ID	Sample Tube Purge	Time	Time Pumped (s)	Initial %LEL	Stabilized %LEL	%CH4 by Volume	%O2	%CO2	Notes
8-5	760s	12:10p	760s	2	0	0	15.6	2.5	
LFG-9	760s	12:12p	760s	7100	7100	46.0	0.3	25.2	
9-1	760s	12:14p	760s	7100	7100	53.2	0.6	29.3	
8A	760s	11:53a	760s	0	7100	56.1	0.2	30.5	
8B	760s	11:55a	760s	7100	7100	57.0	0	33.0	
LFG-10	760s	12:16p	760s	0	0	0	10.5	4.7	

If your facility has more gas monitoring locations than there is room on this form, please attach additional sheets listing the same information as contained on this form.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Don Misener (RSG)
SIGNATURE

PROJECT SCIENTIST
TITLE

* SEE NOTE 1 FROM PREVIOUS PAGE

NC Division of Waste Management - Solid Waste Section

Landfill Gas Monitoring Data 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).

Facility Name: CITY OF HIGH POINT, CLOSED RIVERDALE ^{LF} Permit Number: 41-01

Date of Sampling: 3-22-11 NC Landfill Rule (.0500 or .1600): .0500

Name and Position of Sample Collector: DON MISENHAMER PRS. SCIENTIST (RSG)

Type and Serial Number of Gas Meter: GEM 2000 ~~8~~ GMD90741 Calibration Date of Gas Meter: 3-21-11

Date and Time of Field Calibration: 3-22-11 10:00a

Type of Field Calibration Gas (15/15 or 35/50): 15/15 Expiration Date of Field Calibration Gas Canister: 4/2013

Pump Rate of Gas Meter: 0.5 L/min

Ambient Air Temperature: 51°F Barometric Pressure: 29.95 General Weather Conditions: M. Sunny

Instructions: Under "Location or LFG Well" identify the monitoring wells or describe the location for other tests (e.g., inside buildings). A drawing showing the location of test must be attached. Report methane readings in both % LEL and % methane by volume. A reading in percent methane by volume can be converted to % LEL as follows: % methane by volume = % LEL/20

Location or LFG Well ID	Sample Tube Purge	Time	Time Pumped (s)	Initial %LEL	Stabilized %LEL	%CH4 by Volume	%O2	%CO2	Notes
LFG-6	7605	12:19p	7605	2	7100	10.2	5.5	18.5	
LFG-5	7605	12:31p	7605	0	0	0	16.7	1.7	
LFG-4	7605	12:34p	7605	2	0	0	16.5	3.2	
LFG-3	7605	12:45p	7605	2	0	0	20.9	0	
1-1	7605	12:40p	7605	2	0	0	17.7	1.8	

If your facility has more gas monitoring locations than there is room on this form, please attach additional sheets listing the same information as contained on this form.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Don Misenhamer (RSG)
SIGNATURE

PROJECT SCIENTIST
TITLE



TITLE:
**LFG MONITORING PROBE LOCATIONS
 CLOSED RIVERDALE LANDFILL
 CITY OF HIGH POINT,
 NORTH CAROLINA**

DRAWN BY: D.M.M.	CHECKED BY: J.A.S.	SCALE: AS SHOWN	FIGURE NO. 1
DATE: DEC. 2010	PROJECT NO. HPOINT 10-2	FILE NAME	


**RICHARDSON SMITH GARDNER
 & ASSOCIATES**
INCORPORATED
 14 N. Boylan Ave.
 Raleigh, N.C. 27603
 www.rsgaengineers.com
 ph: 919-828-8877
 fax: 919-828-3889