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):

Smith Gardner, Inc.

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

Name: Madeline German, PG Phone: (919) 828 - 0577 x222

E-mail: madeline@smithgardnerinc.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
High Point Riverdale Closed MSW Landfill	Riverdale Drive, High Point, NC	41-01	.0500	March 26, 2014

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

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 | Project Geologist | (919) 828 - 0577 x222

Facility Representative Name (Print) | Title | (Area Code) Telephone Number

Signature | 3/28/14 Date

Affix NC Licensed/ Professional Geologist Seal

14 N. Boylan Ave, Raleigh, NC 27603

Facility Representative Address

C-0828

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

Revised 6/2009

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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: 3.26.14 NC Landfill Rule (.0500 or .1600): .0500

Name and Position of Sample Collector: DON MISENHEIMER (S+G)

Type and Serial Number of Gem 2000, 07002 HP Calibration Date of Gas Meter: 8.29.13

Date and Time of Field Calibration: 3.26.14, 12:58p

Type of Field Calibration Gas (15/15 or 35/50): 15/15 Expiration Date of Field Calibration Gas Canister: 2016

Pump Rate of Gas Meter: 0.5 l/min

Ambient Air Temperature: 60° Barometric Pressure: 29.30 General Weather Conditions: P. 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	2:03p	760s	7100	7100	6.8	19.1	5.9	
7-1	760s	2:05p	760s	7100	7100	20.1	10.2	15.2	
7-2	760s	2:07p	760s	0	0	0	11.9	9.6	
7-3	760s	2:10p	760s	7100	7100	25.7	0	32.9	
7-4	760s	2:12p	760s	7100	7100	48.3	2.5	29.7	
LFG-8	760s	2:15p	760s	7100	7100	29.7	6.8	25.5	
8A	760s	2:18p	760s	7100	7100	43.2	4.1	26.6	
8B	760s	2:20p	760s	7100	7100	32.1	5.1	30.2	
8-1	760s	2:23p	760s	7100	7100	58.0	0	30.1	
8-2	760s	2:25p	760s	7100	7100	58.8	0	31.0	
8-3	760s	2:28p	760s	7100	7100	28.1	0	35.9	
8-4	760s	2:30p	760s	7100	7100	50.0	0	29.8	
8-5	760s	2:32p	760s	7100	7100	16.7	1.8	16.0	
LFG-9	760s	2:34p	760s	7100	7100	18.9	12.3	38.5	
9-1	760s	2:36p	760s	7100	7100	52.3	0	24.6	
LFG-10	760s	2:40p	760s	0	0	0	16.0	2.3	
LFG-6	760s	2:45p	760s	7100	7100	7.7	10.4	21.1	
LFG-5	760s	3:03p	760s	0	0	0	19.7	1.4	
LFG-4	760s	3:07p	760s	0	0	0	19.0	2.0	
LFG-3	760s	3:10p	760s	0	0	0	17.3	4.6	
1-1	760s	3:25p	760s	0	0	0	19.4	1.1	

NOTE:

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.

(S+G)
SIGNATURE

PROJECT SCIENTIST
TITLE

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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: _____ NC Landfill Rule (.0500 or .1600): .0500

Name and Position of Sample Collector: [SAME AS PAGE 1]

Type and Serial Number of Gas Meter: _____ Calibration Date of Gas Meter: _____

Date and Time of Field Calibration: _____

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

Pump Rate of Gas Meter: _____

Ambient Air Temperature: _____ Barometric Pressure: _____ General Weather Conditions: _____

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
Old Maintenance Building									
NE Corner	>60s	2:47p	>60s	0	0	0	20.9	0	
NW Corner	>60s	2:49p	>60s	0	0	0	20.9	0.1	
SE Corner	>60s	2:51p	>60s	0	0	0	21.0	0	
SW Corner	>60s	2:53p	>60s	0	0	0	20.9	0.1	
Electrical Shop									
NE Corner	>60s	2:55p	>60s	0	0	0	20.9	0	
NW Corner	>60s	2:57p	>60s	0	0	0	20.8	0	
SE Corner	>60s	2:59p	>60s	0	0	0	20.9	0	
SW Corner	>60s	3:01p	>60s	0	0	0	20.9	0	

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.

[signature] (S+W)
SIGNATURE

PROJECT SCIENTIST
TITLE

H:\Projects\High Point (NC)\HPOINT-10-2 (LFG Training)\GIS\High_Point GP.mxd

LFG MONITORING PROBES LOCATION CLOSED RIVERDALE LANDFILL CITY OF HIGH POINT, NORTH CAROLINA	DRAWN: D.M.M.	APPROVED: J.A.S.	SCALE: AS SHOWN	FIGURE NO.: 1
	DATE: DEC. 2010	PROJECT NO.: HPOINT 10-2	FILENAME: High_Point GP	

NC LIC. NO. C-0828 (ENGINEERING)
SMITH+GARDNER
14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577