

February 25, 2013

Ms. Jaclynne Drummond  
NCDENR DWM Solid Waste Section  
1646 Mail Service Center  
Raleigh, North Carolina 27699-1646

RE: **Operations, Monitoring, and Maintenance Report – February 2013**  
**Avery County Closed MSW Landfill**  
**Spruce Pine, North Carolina**

Dear Ms. Drummond:

This report provides information concerning the operation and monitoring (O&M) of the Avery County Closed MSW Landfill (Permit No. 06-01) Landfill Gas Collection and Control System (LFGCCS). This report covers the February 2013 monitoring period. Mr. Don Misenheimer with Smith Gardner, Inc. (S+G) performed this site visit on February 5, 2013. Details of this inspection are provided below.

## **ACTION LIST**

S+G has identified the following items to be addressed in order for the LFGCCS to operate as designed:

1. **LFGCCS System:** An expansion of the LFGCCS system, as proposed in the *Annual Landfill Gas Monitoring Report*<sup>1</sup>, has been approved<sup>2</sup> by the division of Waste Management. Phase One of the expansion project will consist of:
  - installation of two (2) landfill gas extraction wells that are four inches in diameter and approximately 60 feet deep on the northern portion of the property between current landfill gas extraction wells W1 and W3 and the limits of waste near Brushy Creek Road (**approved for completion**);
  - installation of an isolation valve along the landfill gas header to isolate the southern landfill gas extraction wells (**approved for completion**); and
  - installation of a flare collar extension (**completed**);

Phase One of the system expansion is currently planned for March 2013. Phase Two of the expansion project will be completed when Phase One is determined to be effective.

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<sup>1</sup> *Annual Landfill Gas Monitoring Report*, Closed Avery County MSW Landfill. Submitted by Smith Gardner, November 2012.

<sup>2</sup> Approval response letter, Closed Avery County MSW Landfill (Annual Landfill Gas Monitoring Report). Sent by Jaclynne Drummond, Solid Waste Section, November 15, 2012.

2. **W-1, W-2, W-3, and W-4:** Wells W-1 and W-2 have been determined to be watered out/totally clogged. W-3 and W-4 have been determined to be partially watered out/partially clogged and are only able have minimal system pressure applied for LFG extraction. **The approved expansion discussed above should improve over-all gas quality at the flare as well as increasing LFG collection across the site.**
3. **Blower:** The blower is not operational and replacement is needed. **The blower has been removed and additional piping has been installed to allow for free venting to the flare.**
4. **Monitoring:** Monthly monitoring will continue at the site.

### **LFG EXTRACTION WELL MONITORING ACTIVITIES**

S+G personnel arrived on-site to install blower bypass piping to the system on February 5, 2013. S+G personnel joined the existing system inlet and outlet blower piping connections with Kanaflex hose creating a free-venting path from the well field to the flare.

Please note that the blower has been determined to be non-repairable by the manufacturer. A new blower will be installed during Phase One of the system expansion.

S+G personnel and Avery County personnel installed a fabricated flare collar extension during this site visit. This extension lengthens the existing flare color by an additional three (3) feet.

The following actions were taken at the well field and flare station during this period:

#### **Flare Station**

- **Flare:** As stated above a fabricated flare collar extension during this site visit. This extension lengthens the existing flare color by an additional three (3) feet.
- **Condensate Tank:** The condensate tank was observed during this site visit; the liquid was at an acceptable level. **S+G will continue to monitor the liquid level of the condensate tank.**
- **Blower:** As stated above, the existing system inlet and outlet blower piping connections were joined with Kanaflex hose creating a free-venting, closed-loop path from the well field to the flare. **The flare was properly burning when S+G left the site.**

Ms. Jaclyne Drummond

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## LFG MONITORING WELL (PERIMETER) MONITORING

S+G personnel also performed monitoring of the perimeter LFG monitoring network. Monitoring wells P1, P3, P7 and P11 each measured over the 100% LEL or 5% by volume of CH<sub>4</sub>. All other wells had no detectable concentrations of CH<sub>4</sub>. Results of this monitoring event are included in **Attachment 1**. These wells will continue to be monitored and data will be submitted in this reporting format.

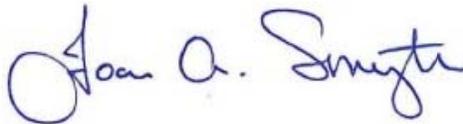
The next routine monitoring event is scheduled for March 2013. If you have any questions, or require additional information, please contact us at your earliest convenience at 919-828-0577 or by e-mail (address below).

Sincerely,

**SMITH GARDNER, INC.**



Don Misenheimer  
Project Scientist, ext. 224  
[don@rsgengineers.com](mailto:don@rsgengineers.com)



Joan A. Smyth, P.G.  
Senior Hydrogeologist ext. 221  
[joan@rsgengineers.com](mailto:joan@rsgengineers.com)

Attachments

CC: Buddy Norris – Avery County  
Deb Aja – NCDENR  
Stacey Smith, P.E. – S+G  
File

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**FIGURE**

**Operations Monitoring and Maintenance Report - LFGCCS  
Avery County Closed MSW Landfill  
Permit No. 06-91**

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© Smith Gardner Inc.

PREPARED BY: \_\_\_\_\_ NC LIC. NO. C-0828 (ENGINEERING)

**SMITH+GARDNER**  
 14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

FIGURE NO:	1
SCALE:	AS SHOWN
APPROVED:	D.M.M.
PROJECT NO:	AVERY 12-6
DATE:	Oct 2012
FILENAME:	AVERY-B0192

PREPARED FOR:

**LANDFILL GAS MONITORING SYSTEM  
 AVERY COUNTY CLOSED MSWLF  
 SPRUCE PINE, NORTH CAROLINA**

**LEGEND**

- EXISTING LANDFILL GAS PROBE
- ④ OFFSITE STRUCTURE TO BE MONITORED

**REFERENCES**

1. ADJACENT PROPERTIES ARE FROM AVERY COUNTY GIS MAPPING DEPARTMENT.
2. MONITORING WELL LOCATIONS FROM FIELD SURVEY DATED 1/14/08, BY SURVEYING SOLUTIONS, P.C.
3. PROPERTY LINE FROM FIELD SURVEY DATED APRIL 9, 2010, BY APPALACHIAN PROFESSIONAL LAND SURVEYORS & CONSULTANTS.
4. LFG PROBES LOCATIONS FROM FIELD SURVEY DATED APRIL 9, 2010, BY APPALACHIAN PROFESSIONAL LAND SURVEYORS & CONSULTANTS. PROBE P-2, P-3, AND P-9 THROUGH P-13 LOCATIONS WERE NOT SURVEYED AND ARE APPROXIMATE.

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**Attachment 1**

**Operations, Monitoring and Maintenance Report - LFGCCS  
Avery County Closed MSW Landfill  
Permit No. 06-91**

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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: Avery County Closed MSW Landfill Permit Number: 06-01

Date of Sampling: 2.5.13 NC Landfill Rule (.0500 or .1600): .0500

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

Type and Serial Number of Gas Meter: 17961 GEN 2000 Calibration Date of Gas Meter: 2.1.13

Date and Time of Field Calibration: 2.5.13 11:00 AM

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 c/min

Ambient Air Temperature: 34° Barometric Pressure: 29.73 General Weather Conditions: Cold overcast

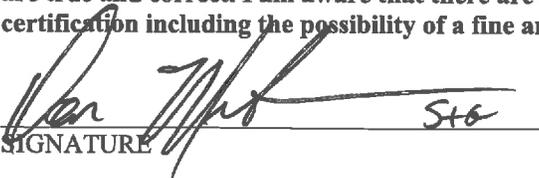
**Instructions:** Under "Location or LFG Well" identify the monitoring wells or describe the location for other tests (e.g., inside buildings). A drawing showing the location of test must be attached. Report methane readings in both % LEL and % methane by volume. A reading in percent methane by volume 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
P1	7605	12:30p	7605	7100	7100	65.6	0.9	30.2	
P2	7605	12:32p	7605	0	0	0	19.6	3.1	
P3	7605	12:34p	7605	7100	7100	64.1	0.2	35.4	
P4	7605	12:36p	7605	0	0	0	13.4	3.4	
P5	7605	11:19a	7605	0	0	0	18.2	0.2	
P6	7605	11:17a	7605	0	0	0	17.0	2.4	
P7	7605	11:12a	7605	7100	7100	32.3	1.6	11.4	
P8	7605	11:14a	7605	0	0	0	19.6	1.9	
P9	7605	12:46p	7605	0	0	0	17.4	2.2	
P10	7605	12:44p	7605	0	0	0	16.8	4.2	

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

PROJECT SCIENTIST  
TITLE

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Facility Name: Avery County Closed MSW Landfill Permit Number: 06-01

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

Name and Position of Sample Collector: \_\_\_\_\_

Type and Serial Number of Gas Meter: [SAME AS PAGE 1] 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
P11	760s	12:40p	760s	<del>5200</del> 7100	7100	53.8	1.3	23.2	
P12	760s	11:10a	760s	0	0	0	19.4	4.5	
P13	760s	12:52p	760s	0	0	0	11.4	9.0	

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

Name and Position of Sample Collector: [SEE 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
AVERY COUNTY AIRPORT STRUCTURE #1									
NE Corner	760s	12:54p	760s	0	0	0	✓	✓	
NW Corner	760s	12:56p	760s	0	0	0	✓	✓	O2 + CO2
SE Corner	760s	12:58p	760s	0	0	0	✓	✓	normal
SW Corner	760s	10:00p	760s	0	0	0	✓	✓	
ADD ANY ADDITIONAL LOCATIONS AT OR NEAR STRUCTURE WITH METHANE PRESENT BELOW OR ON ADDITIONAL SHEETS									

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.

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Facility Name: Avery County Closed MSW Landfill Permit Number: 06-01

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

Name and Position of Sample Collector: [SEE 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
AVERY COUNTY AIRPORT STRUCTURE #2									
NE Corner	760s	10:2p	760s	0	0	0	✓	✓	O2 + CO2 Normal
NW Corner	760s	1:04p	760s	0	0	0	✓	✓	
SE Corner	760s	1:06p	760s	0	0	0	✓	✓	
SW Corner	760s	1:08p	760s	0	0	0	✓	✓	
ADD ANY ADDITIONAL LOCATIONS AT OR NEAR STRUCTURE WITH METHANE PRESENT BELOW OR ON ADDITIONAL SHEETS									

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

Name and Position of Sample Collector: [SEE 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
AVERY COUNTY AIRPORT STRUCTURE #3									
NE Corner	760s	1:10p	760s	0	0	0	✓	✓	O <sub>2</sub> + CO <sub>2</sub> no-meth
NW Corner	760s	1:12p	760s	0	0	0	✓	✓	
SE Corner	760s	1:14p	760s	0	0	0	✓	✓	
SW Corner	760s	1:16p	760s	0	0	0	✓	✓	
ADD ANY ADDITIONAL LOCATIONS AT OR NEAR STRUCTURE WITH METHANE PRESENT BELOW OR ON ADDITIONAL SHEETS									

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

Name and Position of Sample Collector: [SEE 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
AVERY COUNTY AIRPORT STRUCTURE #4									
NE Corner	760s	1:18p	760s	0	0	0	✓	✓	O <sub>2</sub> + CO <sub>2</sub>
NW Corner	760s	1:20p	760s	0	0	0	✓	✓	
SE Corner	760s	1:22p	760s	0	0	0	✓	✓	normal
SW Corner	760s	1:24p	760s	0	0	0	✓	✓	
ADD ANY ADDITIONAL LOCATIONS AT OR NEAR STRUCTURE WITH METHANE PRESENT BELOW OR ON ADDITIONAL SHEETS									

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.

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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
AVERY COUNTY AIRPORT STRUCTURE #5									
NE Corner	760s	1:26p	760s	0	0	0	✓	✓	O2 + CO2
NW Corner	760s	1:28p	760s	0	0	0	✓	✓	normal
SE Corner	760s	1:30p	760s	0	0	0	✓	✓	
SW Corner	760s	1:32p	760s	0	0	0	✓	✓	
ADD ANY ADDITIONAL LOCATIONS AT OR NEAR STRUCTURE WITH METHANE PRESENT BELOW OR ON ADDITIONAL SHEETS									

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Name and Position of Sample Collector: [SEE 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: \_\_\_\_\_

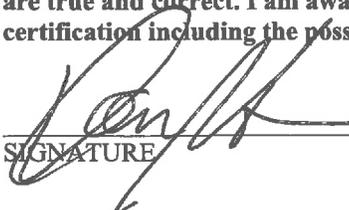
**Instructions:** Under "Location or LFG Well" identify the monitoring wells or describe the location for other tests (e.g., inside buildings). A drawing showing the location of test must be attached. Report methane readings in both % LEL and % methane by volume. A reading in percent methane by volume 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
AVERY COUNTY AIRPORT STRUCTURE #6									
NE Corner	7605	1:34p	7605	0	0	0	✓	✓	O <sub>2</sub> + CO <sub>2</sub>
NW Corner	7605	1:36p	7605	0	0	0	✓	✓	
SE Corner	7605	1:38p	7605	0	0	0	✓	✓	Normal
SW Corner	7605	1:40p	7605	0	0	0	✓	✓	
ADD ANY ADDITIONAL LOCATIONS AT OR NEAR STRUCTURE WITH METHANE PRESENT BELOW OR ON ADDITIONAL SHEETS									

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.

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 \_\_\_\_\_
 

  
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SIGNATURE
 
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