

April 16, 2013

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

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

Dear Ms. Drummond:

This report provides information concerning the operation and maintenance (O&M) of the Avery County Closed MSW Landfill (Permit No. 06-01) Landfill Gas Collection and Control System (LFGCCS) as well as monitoring of the landfill gas probes located both on- and off-site. This report covers the March 2013 monitoring period. Mr. Britt Ransom with Smith Gardner, Inc. (S+G) performed this site visit on March 29, 2013. Details of this site visit 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*¹, has been approved² 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 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 (**completed**);
 - connection of the two new wells to the existing landfill gas collection system (**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**);

2. **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**

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

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

to the flare. A new blower has been ordered and delivered and is scheduled for installation in late April 2013.

3. **Monitoring:** Monthly monitoring will continue at the site.

LFG EXTRACTION WELL MONITORING ACTIVITIES

S+G personnel arrived on-site to perform the LFG monitoring well (perimeter well) monitoring on March 29, 2012. S+G personnel performed a visual inspection of the LFGCCS including the recently installed temporary Kanaflex hose connections to the inlet and outlet blower piping (in place of the damaged blower).

Please note that the blower has been determined to be non-repairable by the manufacturer. A new blower has been received by Avery County and will be installed during Phase One of the system expansion currently scheduled for April 2013.

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

Flare Station

- **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.**

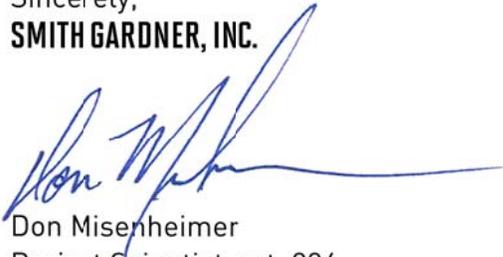
LFG MONITORING WELL (PERIMETER) MONITORING

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 CH₄. Well P13 measured 36% of the LEL or 1.8 % by volume of CH₄, while all other wells had no detectable concentrations of CH₄. 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.

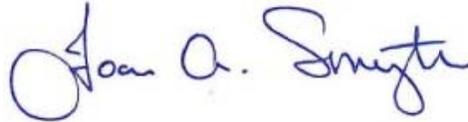
The next routine monitoring event is scheduled for April 2013. If you have any questions, or require additional information, please contact us at your earliest convenience at 919-828-0577 or by e-mail (address below).

Ms. Drummond
April 16, 2013
Page 3 of 3

Sincerely,
SMITH GARDNER, INC.



Don Misenheimer
Project Scientist, ext. 224
don@rsgengineers.com



Joan A. Smyth, P.G.
Senior Hydrogeologist ext. 221
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: 3/29/13 NC Landfill Rule (.0500 or .1600): .0500

Name and Position of Sample Collector: Britt Ransom, Field Services Mgr

Type and Serial Number of Gas Meter: GEM 500, 1090 Calibration Date of Gas Meter: _____

Date and Time of Field Calibration: 3/29/13 10:50

Type of Field Calibration Gas (15/15 or 35/50): 15/15 Expiration Date of Field Calibration Gas Canister: 2015

Pump Rate of Gas Meter: .5 LPM

Ambient Air Temperature: 52° Barometric Pressure: 27.53 General Weather Conditions: 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 <i>seconds</i>	Time	Time Pumped (s) <i>seconds</i>	Initial %LEL	Stabilized %LEL	%CH4 by Volume	%O2	%CO2	Notes
P1	>60 s	11:13	>60 s	>100	>100	33.6	7.5	12.9	
P2	>60 s	12:04	>60 s	0	0	0.0	18.0	0.0	O ₂ = 18.0%
P3	>60 s	11:58	>60 s	>100	>100	58.9	1.1	27.2	
P4	>60 s	11:52	>60 s	0	0	0.0	16.3	2.9	
P5	>60 s	11:47	>60 s	0	0	0.0	17.1	0.1	
P6	>60 s	11:38	>60 s	0	0	0.0	16.4	1.4	
P7	>60 s	11:33	>60 s	>100	>100	32.0	2.8	9.9	
P8	>60 s	11:21	>60 s	0	0	0.0	16.8	1.6	
P9	>60 s	13:56	>60 s	0	0	0.0	16.3	1.3	
P10	>60 s	13:51	>60 s	0	0	0.0	14.3	3.2	

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.

Britt Ransom
SIGNATURE

Field Services Mgr
TITLE

NC Division of Waste Management - Solid Waste Section

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

Date of Sampling: page 1 NC Landfill Rule (.0500 or .1600): .0500

Name and Position of Sample Collector: page 1

Type and Serial Number of Gas Meter: page 1 Calibration Date of Gas Meter: _____

Date and Time of Field Calibration: page 1

Type of Field Calibration Gas (15/15 or 35/50): page 1 Expiration Date of Field Calibration Gas Canister: _____

Pump Rate of Gas Meter: Page 1

Ambient Air Temperature: Page 1 Barometric Pressure: Page 1 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	%CH ₄ by Volume	%O ₂	%CO ₂	Notes
P11	<u>seconds</u> 760 s	14:00	>60 s	7100	>100	58.4	1.7	20.1	
P12	760 s	11:26	760 s	0	0	0.0	17.1	1.4	
P13	760 s	12:25	>60 s	36	36	1.8	6.2	7.3	

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.

Keith Rajson
SIGNATURE

Field Services Mgr
TITLE

NC Division of Waste Management - Solid Waste Section

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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: SEE 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
AVERY COUNTY AIRPORT STRUCTURE #1									
NE Corner	760 s	14:05	760	0	0	0.0	20.0	0.0	
NW Corner	760 s	14:08	760	0	0	0.0	20.0	0.0	
SE Corner	760 s	14:11	760	0	0	0.0	20.0	0.0	
SW Corner	760 s	14:14	760	0	0	0.0	20.0	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.

Bill Kinn
SIGNATURE

Field Services Mgr.
TITLE

NC Division of Waste Management - Solid Waste Section

Landfill Gas Monitoring Data Form

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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: See 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
AVERY COUNTY AIRPORT STRUCTURE #2									
NE Corner	>60 s	14:17	>60 s	0	0	0.0	20.0	0	
NW Corner	>60 s	14:20	>60 s	0	0	0.0	20.0	0	
SE Corner	>60 s	14:23	>60 s	0	0	0.0	20.0	0	
SW Corner	>60 s	14:26	>60 s	0	0	0.0	20.0	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.

[Signature]
SIGNATURE

Field Services Mgr
TITLE

NC Division of Waste Management - Solid Waste Section

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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: See 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
AVERY COUNTY AIRPORT STRUCTURE #3									
NE Corner	760	14:29	760	0	0	0.0	20.0	0	
NW Corner	760	14:32	760	0	0	0.0	20.0	0	
SE Corner	760	14:35	760	0	0	0.0	20.0	0	
SW Corner	760	14:38	760	0	0	0.0	20.0	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.

Bob Brown
 SIGNATURE

Field Services Mgr.
 TITLE

NC Division of Waste Management - Solid Waste Section

Landfill Gas Monitoring Data Form

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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: See 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
NE Corner	766 s	14:41	>60 s	0	0	0.0	20.0	0	
NW Corner	766 s	14:44	>60 s	0	0	0.0	20.0	0	
SE Corner	766 s	14:47	>60 s	0	0	0.0	20.0	0	
SW Corner	766 s	14:50	>60 s	0	0	0.0	20.0	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.

Brett Rason
 SIGNATURE

Field Services Mgr
 TITLE

NC Division of Waste Management - Solid Waste Section

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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: See 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
AVERY COUNTY AIRPORT STRUCTURE #5									
NE Corner	>60 s	14:53	>60 s	0	0	0.0	20.0	0	
NW Corner	>60 s	14:56	>60 s	0	0	0.0	20.0	0	
SE Corner	>60 s	14:59	>60 s	0	0	0.0	20.0	0	
SW Corner	>60 s	15:02	>60 s	0	0	0.0	20.0	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
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[Signature]
 SIGNATURE

Field Services Mgr.
 TITLE

NC Division of Waste Management - Solid Waste Section

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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: See 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	%CH ₄ by Volume	%O ₂	%CO ₂	Notes
AVERY COUNTY AIRPORT STRUCTURE #6									
NE Corner	>60 s	15:05	>60 s	0	0.0	0.0	20.0	0	
NW Corner	>60 s	15:08	>60 s	0	0	0.0	20.0	0	
SE Corner	>60 s	15:11	>60 s	0	0	0.0	20.0	0	
SW Corner	>60 s	15:14	>60 s	0	0	0.0	20.0	0	
ADD ANY ADDITIONAL LOCATIONS AT OR NEAR STRUCTURE WITH METHANE PRESENT BELOW OR ON ADDITIONAL SHEETS									

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[Signature]
SIGNATURE

Field Services Mgr
TITLE

NC Division of Waste Management - Solid Waste Section

Landfill Gas Monitoring Data Form

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Facility Name: Avery County C&D Landfill Permit Number: 06-03

Date of Sampling: 3/29/13 NC Landfill Rule (.0500 or .1600): .0500

Name and Position of Sample Collector: Britt Ransom, FSM

Type and Serial Number of Gas Meter: GEM 500, #1090 Calibration Date of Gas Meter: _____

Date and Time of Field Calibration: 3/29/13 10:50

Type of Field Calibration Gas (15/15 or 35/50): 15/15 Expiration Date of Field Calibration Gas Canister: 2015

Pump Rate of Gas Meter: .5 LPM

Ambient Air Temperature: 52° Barometric Pressure: 27.53 General Weather Conditions: Becoming cloudy

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	%CH ₄ by Volume	%O ₂	%CO ₂	Notes
GP-1	760	12:53	760	0	0	0.0	17.0	1.0	
GP-2	760	13:25	760	0	0	0.0	17.3	0.0	
GP-3	760	13:02	760	0	0	0.0	16.8	2.0	
GP-4	760	13:06	760	0	0	0.0	12.3	3.3	

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
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Britt Ransom
 SIGNATURE

Field Services Mgr
 TITLE