## Periodic Methane Monitoring Report

**Monitoring Date:** 30 OCT 2014
**Facility Permit #'s:** #26G and #26-08
**NC Landfill Rule:** 0.0500
**County (Location):** Cumberland
**Equipment Type:** GEM 2000
**Equipment Serial #:** 2572-GM0-5605
**Calibration Gas:** 50% $CH_4$ / 35% $CO_2$
**Meter pump rate:** N/A

**Facility Name:** Lamont Road LCID and C&D Landfills
**Monitoring Personnel (Name/Position):** Jeffery W Sloop Solid Waste Tech
**Monitoring Personnel (Name/Position):** N/A
**Equipment Field Calibrated by:** Jeffery W. Sloop
**Manufacturer Cal/Service Date:**
**Date/Time of Field Calibration:** 30 Oct 2014 1204 PM
**Cal Gas Expiration Date:** DEC 2014

### Gas Monitoring Wells

| Monitoring Point ID | Time | Initial %CH4 | Initial %LEL | Purge Time | Stable %CH4 | Stable %LEL | Stable %O2 | Stable %CO2 |
|---|---|---|---|---|---|---|---|---|
| GP-1 | | | | | | | | |
| GP-2 | | | | | | | | |
| GP-3 | | | | | | | | |
| GP-4 | | | | | | | | |
| GP-5 | | | | | | | | |
| GP-6 | | | | | | | | |
| GP-7 | | | | | | | | |
| GP-8 | | | | | | | | |
| GP-9 | | | | | | | | |
| GP-10 | 1240 | 4.7 | 94% | 1242 | 5.2 | > | 3.7 | 19.0 |
| GP-11 | | | | | | | | |
| GP-12 | | | | | | | | |
| GP-13 | | | | | | | | |

**Notes:**

**Facility Structures**

| Monitoring Point ID | Time | Initial %CH4 | Initial %LEL | Purge Time | Stable %CH4 | Stable %LEL | Stable %O2 | Stable %CO2 |
|---|---|---|---|---|---|---|---|---|
| Office | | | | | | | | |
| Scale House | | | | | | | | |
| O-3533 | | | | | | | | |

**Drawings identifying location where each building sampled (include north arrow):**

Office

Scale House

O-3533

**Climatic/Physical Conditions at Site**

Samples must be collected under normal/average conditions of temperature, pressure, and climate for the season. Barhole punch sampling should not be performed during or immediately after rain events, or when soils are saturated or frozen. **All sampling must be performed after 12:00 pm** (subsurface gases have a diurnal cycle and generally are at a maximum during the afternoon), and preferably when barometric conditions are not rising (subsurface gas pressures will be less than atmospheric pressure under these conditions and gas will therefore not migrate), or representative samples may not be obtained. Barometric information can be obtained from many locations (i.e. http://weather.noaa.gov).

a. Soil Conditions: Dry

b. Weather Conditions: Sunny

c. Temperature: 68°

d. Barometric Conditions: Rising Falling (Steady) Reading 30.05 mmHg

e. Relative Humidity within range of 10%-90%? Value: 64%

f. Condition and Access: Are all monitoring points identified in the field (signage) in accordance with approved monitoring plan; are they secured; has the owner/operator maintained access?

If no, explain in space provided below.

g. If stressed vegetation is noted, describe the extent and location in the space provided below.

**Description of Sampling Techniques:** (e.g., wells are vented or not, barhole punch methodology, etc.)

**Additional Comments:**

None

**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

Solid Waste Manager

TITLE

## Periodic Methane Monitoring Report

| | | | |
|---|---|---|---|
| **Monitoring Date:** | 11-15 | **Facility Name:** | Lamont Road LCID and C&D Landfills |
| **Facility Permit #'s:** | #26G and #26-08 | **Monitoring Personnel (Name/Position):** | R. Hill - Physical Scientist |
| **NC Landfill Rule:** | 0.0500 | **Monitoring Personnel (Name/Position):** | C. Poston - Chemist |
| **County (Location):** | Cumberland | **Equipment Field Calibrated by:** | R. Hill & C. Poston |
| **Equipment Type:** | GEM 2000 | **Manufacturer Cal/Service Date:** | 11-12-14 |
| **Equipment Serial #:** | GMO 1789105 | **Date/Time of Field Calibration:** | 11-15-14 1230 |
| **Calibration Gas:** | Methane 15% O2 4% | **Cal Gas Expiration Date:** | CH4 6/16 O2 - 4/15 |
| **Meter pump rate:** | | | |

**Gas Monitoring Wells**

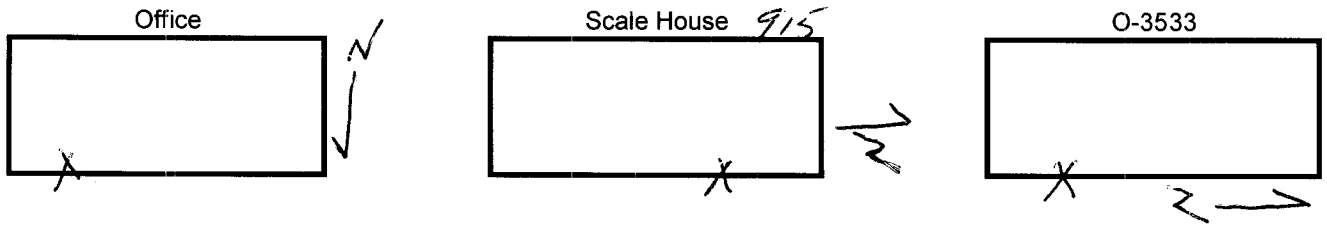
| Monitoring Point ID | Time | Initial %CH4 | Initial %LEL | Purge Time | Stable %CH4 | Stable %LEL | Stable %O2 | Stable %CO2 |
|---|---|---|---|---|---|---|---|---|
| GP-1 | 1338 | 0.0 | | 1339 | 0.0 | | 19.6 | 0.6 |
| GP-2 | 1359 | 0.0 | | 1400 | 0.0 | | 12.5 | 9.8 |
| GP-3 | 1403 | 0.0 | | 1405 | 0.0 | | 19.1 | 1.3 |
| GP-4 | 1257 | 0.0 | | 1259 | 0.0 | | 19.1 | 1.0 |
| GP-5 | 1300 | 0.0 | | 1301 | 0.0 | | 19.3 | 0.6 |
| GP-6 | 1303 | 0.0 | | 1304 | 0.0 | | 18.1 | 2.1 |
| GP-7 | 1307 | 0.0 | | 1308 | 0.0 | | 16.7 | 3.3 |
| GP-8 | 1311 | 0.0 | | 1312 | 0.0 | | 18.7 | 0.2 |
| GP-9 | 1319 | 0.0 | | 1320 | 0.0 | | 16.2 | 5.1 |
| GP-10 R | 1321 | 0.0 | | 1322 | 1.2 | | 18.3 | 3.9 |
| GP-11 | 1348 | 0.0 | | 1350 | 0.0 | | 19.8 | 0.0 |
| GP-12 | 1343 | 0.0 | | 1344 | 0.0 | | 19.9 | 0.1 |
| GP-13 R | 1245 | 0.0 | | 1247 | 0.0 | | 12.0 | 5.0 |

**Notes:**

**Facility Structures**

| Monitoring Point ID | Time | Initial %CH4 | Initial %LEL | Purge Time | Stable %CH4 | Stable %LEL | Stable %O2 | Stable %CO2 |
|---|---|---|---|---|---|---|---|---|
| Office | 1406 | 0.0 | | 1408 | 0.0 | | 19.8 | 0.6 |
| Scale House | 1410 | 0.0 | | 1412 | 0.0 | | 20.0 | 0.1 |
| O-3533 | 1413 | 0.0 | | 1415 | 0.0 | | 19.8 | 0.2 |

**Drawings identifying location where each building sampled (include north arrow):**




**Climatic/Physical Conditions at Site**

Samples must be collected under normal/average conditions of temperature, pressure, and climate for the season. Barhole punch sampling should not be performed during or immediately after rain events, or when soils are saturated or frozen. **All sampling must be performed after 12:00 pm** (subsurface gases have a diurnal cycle and generally are at a maximum during the afternoon), and preferably when barometric conditions are not rising (subsurface gas pressures will be less than atmospheric pressure under these conditions and gas will therefore not migrate), or representative samples may not be obtained. Barometric information can be obtained from many locations (i.e. http://weather.noaa.gov).

a. Soil Conditions: Dry

b. Weather Conditions: Cool, Light Breeze

c. Temperature: 47°

d. Barometric Conditions: Rising Falling Steady x Reading 29.92 mmHg

e. Relative Humidity within range of 10%-90%? Value: 31%

f. Condition and Access: Are all monitoring points identified in the field (signage) in accordance with approved monitoring plan; are they secured; has the owner/operator maintained access?

If no, explain in space provided below.

g. If stressed vegetation is noted, describe the extent and location in the space provided below.

**Description of Sampling Techniques:** (e.g., wells are vented or not, barhole punch methodology, etc.)

**Additional Comments:**

**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

TITLE

## Periodic Methane Monitoring Report

**Monitoring Date:** _____
**Facility Permit #'s:** #26G and #26-08
**NC Landfill Rule:** 0.0500
**County (Location):** Cumberland
**Equipment Type:** _____
**Equipment Serial #:** _____
**Calibration Gas:** _____
**Meter pump rate:** _____

**Facility Name:** Lamont Road LCID and C&D Landfills
**Monitoring Personnel (Name/Position):** _____
**Monitoring Personnel (Name/Position):** _____
**Equipment Field Calibrated by:** _____
**Manufacturer Cal/Service Date:** _____
**Date/Time of Field Calibration:** _____
**Cal Gas Expiration Date:** _____

**Gas Monitoring Wells**

| Monitoring Point ID | Time | Initial %CH4 | Initial %LEL | Purge Time | Stable %CH4 | Stable %LEL | Stable %O2 | Stable %CO2 |
|---|---|---|---|---|---|---|---|---|
| GP-1 | | | | | | | | |
| GP-2 | | | | | | | | |
| GP-3 | | | | | | | | |
| GP-4 | | | | | | | | |
| GP-5 | | | | | | | | |
| GP-6 | | | | | | | | |
| GP-7 | | | | | | | | |
| GP-8 | | | | | | | | |
| GP-9 | | | | | | | | |
| GP-10 | | | | | | | | |
| GP-11 | | | | | | | | |
| GP-12 | | | | | | | | |
| GP-13 | | | | | | | | |

**Notes:**

**Facility Structures**

| Monitoring Point ID | Time | Initial %CH4 | Initial %LEL | Purge Time | Stable %CH4 | Stable %LEL | Stable %O2 | Stable %CO2 |
|---|---|---|---|---|---|---|---|---|
| Office | | | | | | | | |
| Scale House | | | | | | | | |
| O-3533 | | | | | | | | |

**Drawings identifying location where each building sampled (include north arrow):**

Office

Scale House

O-3533

**Climatic/Physical Conditions at Site**

Samples must be collected under normal/average conditions of temperature, pressure, and climate for the season. Barhole punch sampling should not be performed during or immediately after rain events, or when soils are saturated or frozen. **All sampling must be performed after 12:00 pm** (subsurface gases have a diurnal cycle and generally are at a maximum during the afternoon), and preferably when barometric conditions are not rising (subsurface gas pressures will be less than atmospheric pressure under these conditions and gas will therefore not migrate), or representative samples may not be obtained. Barometric information can be obtained from many locations (i.e. http://weather.noaa.gov).

a. Soil Conditions: _____

b. Weather Conditions: _____

c. Temperature: _____

d. Barometric Conditions: Rising Falling Steady x Reading 29.92 mmHg

e. Relative Humidity within range of 10%-90%? Value: _____

f. Condition and Access: Are all monitoring points identified in the field (signage) in accordance with approved monitoring plan; are they secured; has the owner/operator maintained access?

If no, explain in space provided below.

g. If stressed vegetation is noted, describe the extent and location in the space provided below.

**Description of Sampling Techniques:** (e.g., wells are vented or not, barhole punch methodology, etc.)

**Additional Comments:**

**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

Physical Scientist

TITLE

## Periodic Methane Monitoring Report

**Monitoring Date:** 29 JAN 15
**Facility Permit #'s:** #26G and #26-08
**NC Landfill Rule:** 0.0500
**County (Location):** Cumberland
**Equipment Type:** GEM 2000
**Equipment Serial #:** GM05605 - 2572
**Calibration Gas:** 50% $CH_4$ / 35% $CO_2$
**Meter pump rate:** N/A

**Facility Name:** Lamont Road LCID and C&D Landfills
**Monitoring Personnel (Name/Position):** Jeff Sloop Solid Waste Tech
**Monitoring Personnel (Name/Position):** N/A
**Equipment Field Calibrated by:** Jeff Sloop
**Manufacturer Cal/Service Date:** 27JAN2015
**Date/Time of Field Calibration:** 29 JAN 2015 1302
**Cal Gas Expiration Date:** JAN 2016

**Gas Monitoring Wells**

| Monitoring Point ID | Time | Initial %CH4 | Initial %LEL | Purge Time | Stable %CH4 | Stable %LEL | Stable %O2 | Stable %CO2 |
|---|---|---|---|---|---|---|---|---|
| GP-1 | | | | | | | | |
| GP-2 | | | | | | | | |
| GP-3 | | | | | | | | |
| GP-4 | | | | | | | | |
| GP-5 | | | | | | | | |
| GP-6 | | | | | | | | |
| GP-7 | | | | | | | | |
| GP-8 | | | | | | | | |
| GP-9 | | | | | | | | |
| GP-10 | 1340 | 1.0 | 22% | 1342 | 1.3 | 27% | Ø | 21.1 |
| GP-11 | | | | | | | | |
| GP-12 | | | | | | | | |
| GP-13 | | | | | | | | |

**Notes:**

**Facility Structures**

| Monitoring Point ID | Time | Initial %CH4 | Initial %LEL | Purge Time | Stable %CH4 | Stable %LEL | Stable %O2 | Stable %CO2 |
|---|---|---|---|---|---|---|---|---|
| Office | | | | | | | | |
| Scale House | | | | | | | | |
| O-3533 | | | | | | | | |

**Drawings identifying location where each building sampled (include north arrow):**

Office

Scale House

O-3533

**Climatic/Physical Conditions at Site**

Samples must be collected under normal/average conditions of temperature, pressure, and climate for the season. Barhole punch sampling should not be performed during or immediately after rain events, or when soils are saturated or frozen. **All sampling must be performed after 12:00 pm** (subsurface gases have a diurnal cycle and generally are at a maximum during the afternoon), and preferably when barometric conditions are not rising (subsurface gas pressures will be less than atmospheric pressure under these conditions and gas will therefore not migrate), or representative samples may not be obtained. Barometric information can be obtained from many locations (i.e. http://weather.noaa.gov).

a. Soil Conditions: dry

b. Weather Conditions: Cloudy

c. Temperature: 45°/o

d. Barometric Conditions: Rising Falling (Steady) Reading 30.29 mmHg

e. Relative Humidity within range of 10%-90%? YES Value: 47%

f. Condition and Access: Are all monitoring points identified in the field (signage) in accordance with approved monitoring plan; are they secured; has the owner/operator maintained access?

If no, explain in space provided below.

g. If stressed vegetation is noted, describe the extent and location in the space provided below.

**Description of Sampling Techniques:** (e.g., wells are vented or not, barhole punch methodology, etc.)

**Additional Comments:**

None

**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

Solid Waste Manager

TITLE

## Periodic Methane Monitoring Report

**Monitoring Date:** 30 DEC 2014
**Facility Permit #'s:** #26G and #26-08
**NC Landfill Rule:** 0.0500
**County (Location):** Cumberland
**Equipment Type:** GEM 2000
**Equipment Serial #:** GM08053104
**Calibration Gas:** 50% $CH_4$ / 35% $CO_2$
**Meter pump rate:** N/A

**Facility Name:** Lamont Road LCID and C&D Landfills
**Monitoring Personnel (Name/Position):** Jeffery W. Sloop (Solid Waste Tech)
**Monitoring Personnel (Name/Position):** N/A
**Equipment Field Calibrated by:** Jeff Sloop
**Manufacturer Cal/Service Date:** MAR 2014
**Date/Time of Field Calibration:** 29 DEC 14 1301
**Cal Gas Expiration Date:** JAN 2016

**Gas Monitoring Wells**

| Monitoring Point ID | Time | Initial %CH4 | Initial %LEL | Purge Time | Stable %CH4 | Stable %LEL | Stable %O2 | Stable %CO2 |
|---|---|---|---|---|---|---|---|---|
| GP-1 | | | | | | | | |
| GP-2 | | | | | | | | |
| GP-3 | | | | | | | | |
| GP-4 | | | | | | | | |
| GP-5 | | | | | | | | |
| GP-6 | | | | | | | | |
| GP-7 | | | | | | | | |
| GP-8 | | | | | | | | |
| GP-9 | | | | | | | | |
| GP-10 | 1315 | 1.5 | 30% | 1317 | 1.2 | 20% | 20.6 | .2 |
| GP-11 | | | | | | | | |
| GP-12 | | | | | | | | |
| GP-13 | | | | | | | | |

**Notes:**

**Facility Structures**

| Monitoring Point ID | Time | Initial %CH4 | Initial %LEL | Purge Time | Stable %CH4 | Stable %LEL | Stable %O2 | Stable %CO2 |
|---|---|---|---|---|---|---|---|---|
| Office | | | | | | | | |
| Scale House | | | | | | | | |
| O-3533 | | | | | | | | |

**Drawings identifying location where each building sampled (include north arrow):**

Office

Scale House

O-3533

**Climatic/Physical Conditions at Site**

Samples must be collected under normal/average conditions of temperature, pressure, and climate for the season. Barhole punch sampling should not be performed during or immediately after rain events, or when soils are saturated or frozen. **All sampling must be performed after 12:00 pm** (subsurface gases have a diurnal cycle and generally are at a maximum during the afternoon), and preferably when barometric conditions are not rising (subsurface gas pressures will be less than atmospheric pressure under these conditions and gas will therefore not migrate), or representative samples may not be obtained. Barometric information can be obtained from many locations (i.e. http://weather.noaa.gov).

a. Soil Conditions: _____

b. Weather Conditions: Cloudy

c. Temperature: 43°

d. Barometric Conditions: Rising Falling Steady Reading 30.33 mmHg

e. Relative Humidity within range of 10%-90%? YES Value: 76%

f. Condition and Access: Are all monitoring points identified in the field (signage) in accordance YES with approved monitoring plan; are they secured; has the owner/operator maintained access?

If no, explain in space provided below.

g. If stressed vegetation is noted, describe the extent and location in the space provided below.

**Description of Sampling Techniques:** (e.g., wells are vented or not, barhole punch methodology, etc.)

**Additional Comments:**

None

**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

Solid Waste Manager

TITLE