**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).
- In Accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- 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):**

S&ME, Inc (Consultant)

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

Name: Courtney Murphy, PG, Project Geologist Phone: 704-523-4726

E-mail: cmurphy@smeinc.com

| Facility name: | Facility Address: | Facility Permit # | NC Landfill Rule: (.0500 or .1600) | Actual sampling dates (e.g., October 20-24, 2006) |
|---|---|---|---|---|
| Lincoln County Landfill | 5291 Crouse Road, Crouse, NC 28033 | 55-03 | | January 16, 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 or explosive methane gas limits 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.**

Courtney W. Murphy — Project Geologist — 704-523-4726

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

Courtney W. Murphy — 01-17-14

Signature — Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

NORTH CAROLINA LICENSED SEAL 2203 GEOLOGIST COURTNEY WITHERS MURPHY

CWM 01/17/14

Revised 10/2006

## 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: Lincoln County Landfill Permit Number: 55-03

Date of Sampling: 1-16-2014 NC Landfill Rule (.0500 or .1600): .1600

Name and Position of Sample Collector: Douglas Morrison

Type and Serial Number of Gas Meter: Landtec GEM 2000 Calibration Date of Gas Meter: 1-16-2014

Date and Time of Field Calibration: 1-16-2014

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

Pump Rate of Gas Meter: 300 cc/min

Ambient Air Temperature: 26 °F Barometric Pressure: 30.02" General Weather Conditions: CLEAR

**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 |
|---|---|---|---|---|---|---|---|---|---|
| MMW-1 | — | 9:27 AM | 9:33 AM | 0 | 0 | 0.0% | 12.0% | 3.7% | Pumping water |
| MMW-2 | — | 9:45 AM | 9:51 AM | 0 | 0 | 0.0% | 15.8% | 3.8% | |
| MMW-3 | — | 10:37 AM | 10:43 AM | 0 | 0 | 0.0% | 13.3% | 1.6% | |
| MMW-4 | — | 10:50 AM | 10:56 AM | 0 | 0 | 0.0% | 17.0% | 2.5% | No #1 |
| MMW-5 | — | 11:13 AM | 11:19 AM | 0 | 0 | 0.0% | 15.3% | 3.0% | |
| MMW-6 | — | 11:24 AM | 11:30 AM | >>> | >>> | 13.0% | 0.0% | 18.6% | |
| MMW-7 | — | 11:45 AM | 11:51 AM | >>> | >>> | 6.1% | 0.0% | 19.5% | |
| MMW-8 | — | 11:58 AM | 12:04 PM | >>> | 0 | 0.0% | 5.8% | 12.9% | |
| Scale House | — | 12:09 PM | 12:15 PM | 0 | 0 | 0.0% | 19.1% | 0.1% | |
| Landfill Shop | — | 12:23 PM | 12:29 PM | 0 | 0 | 0.0% | 19.0% | 0.0% | |
| Lift Station | — | 11:02 AM | 11:08 AM | 0 | 0 | 0.0% | 19.0% | 0.9% | |

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.**

Douglas Morrison
SIGNATURE

Senior Heavy equipment operator
TITLE