

GENERAL 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):

SCS Engineers, PC

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

Name: Brandon King

Phone: 804.598.9480

E-mail: bking@scsengineers.com



Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
North Wake County Landfill	9004 Deponie Drive Raleigh, NC 27615	92-09	.1600	May 5, 2008

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

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.

Robert E Dick / SCS Engineers, PC

Project Director

804.598.9480

Facility Representative Name (Print)

Title

(Area Code) Telephone Number

Robert E. Dick
Signature

6.13.08
Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:



SCS ENGINEERS

June 13, 2008

File No. 02199312.02-2

Mr. Johnny Beal
Facility Manager
Wake County Solid Waste Management Division
PO Box 550
Raleigh, NC 27602

Subject: Second Quarter Landfill Gas Monitoring Event – May 5, 2008
North Wake Landfill – Wake County, North Carolina

Dear Johnny:

SCS Engineers, PC (SCS) is pleased to submit the results of the Second Quarter Landfill Gas (LFG) Monitoring Event for 2008, performed at the North Wake Landfill on May 5, 2008. The monitoring was performed in accordance with 15A NCAC 13B.1626(4) at the compliance boundary monitoring probes and on-site structures at the facility. At the facility property boundary, the concentration of methane gas is not to exceed the Lower Explosive Limit (LEL) which is 5 percent by volume (50,000 ppmv). Inside facility structures the concentration of methane gas is not to exceed 25 percent of the LEL (equivalent to 12,500 ppmv).

At each monitoring probe, SCS recorded the subsurface LFG composition (concentrations of methane, carbon dioxide, and oxygen) and pressure using a GEM-500 Infrared Gas Analyzer. Measurements inside facility structures were obtained at critical locations such as conduit penetrations, junction boxes, floor drains, etc. using a Gas-Trac Model No. NGX-6. The results of the probe and on-site structure monitoring are attached as Exhibit 1.

Monitoring was conducted at a total of 26 LFG monitoring probes and 5 on-site structures. LFG monitoring probe M-26 exceeded the regulatory limit. None of the remaining probes exhibited subsurface methane concentrations above the regulatory limit. None of the on-site structures monitored during this event detected significant concentrations of methane.

SCS initiated construction activities associated with expansion of the active LFG perimeter migration control system in the vicinity of probe M-26 during the week of May 5th. SCS will continue to coordinate with Wake County and WGP to monitor the active LFG perimeter migration control system performance and evaluate the impact on subsurface methane levels at the perimeter LFG monitoring probes.

In accordance with the existing LFG Remediation Plan, dated 7/12/07, the frequency for monitoring LFG probes exhibiting elevated methane concentrations will be monthly until



**EXHIBIT 1. LANDFILL GAS MONITORING PROBES
NORTH WAKE LANDFILL - WAKE COUNTY, NORTH CAROLINA**

Date: May 5, 2008
 Project No: 02199312.02-2
 Weather: Sunny, 80°F

Personnel: LKH/DBK
 Equipment: GEM-2000, GEM-500, Gas-Trac

Monitoring Probe No.	Time (24-hr)	Methane (% vol)	Carbon Dioxide (% vol)	Oxygen (% vol)	Balance Gas (% vol)	Pressure (in-wc)	Interior Monitoring Location	Methane (% vol)
M 1	11:38	0.0	0.0	22.1	77.9	0.0	Scale House	ND
M 2	11:45	0.0	0.0	22.1	77.9	0.0	Front Office	ND
M 3	11:50	0.0	0.0	22.1	77.9	0.0	Bathrooms (2)	ND
M 4	11:55	0.0	0.0	22.0	77.8	0.0	Hallway	ND
M 5	12:00	0.0	0.0	22.2	77.7	0.0	Kitchen	ND
M 6R	12:05	0.0	0.0	22.2	77.8	0.0	Admin. Offices	ND
M 7	11:09	0.0	0.0	21.9	78.0	0.0	Offices (4)	ND
M 8	11:13	0.0	0.0	22.0	78.0	0.0	Reception Area	ND
M 9	11:25	0.0	0.0	22.0	77.9	0.0	Bathrooms (2)	ND
M 10	10:34	0.0	7.4	8.0	84.4	0.0	Conference Area	ND
M 11	10:25	0.0	0.8	20.8	78.2	0.0	Kitchen	ND
M 12	9:44	0.0	0.4	21.0	78.4	0.0	Storage Area	ND
M 13	9:41	0.0	0.4	21.3	78.2	0.0	Drop Off/Transfer	ND
M 14	12:31	0.0	3.1	18.4	78.4	0.0	Office	ND
M 15	12:38	0.0	4.3	17.3	78.3	0.0	Service Bay	ND
M 16	10:14	0.0	0.7	21.1	78.1	0.0	Maintenance Shop	ND
M 17	12:51	0.0	1.5	19.9	79.1	0.0	Service Bay	ND
M 18	13:02	0.0	0.9	19.9	79.1	0.0	Equipment Maintenance Trailer	ND
M 19R	10:44	0.0	3.4	19.0	77.7	0.0	Offices (2)	ND
M 20	10:47	0.0	1.3	21.5	77.3	0.0	Bathroom	ND
M 21	10:52	0.0	0.3	21.8	77.9	0.0	Conference Area	ND
M 22	10:55	0.0	0.0	22.0	78.0	0.0	Field Storage Building (Wake County)	NM
M 23	11:17	0.0	0.0	22.0	78.0	0.0	Service Bay	NM
M 24	11:31	0.0	0.0	21.1	77.9	0.0	Drop Off/Transfer	NM
M 25	12:08	0.0	0.0	22.2	77.7	0.0	Offices (6)	NM
M 26	12:28	43.9	42.1	0.0	14.0	0.0	Bathrooms (2)	NM
							Conference Area	NM
							Break Room/Kitchen	NM
							Reception	NM
							Sign Shop	NM
							Copy/Storage Room	NM
							Project Room	NM
							Tool Room	NM
							Shipping and Receiving	NM

Notes: NM = Not Monitored
 ND = No Detection; Samples below 0.1% (1000 ppm) methane
 Monitoring at probe M-26 was performed on 6/6/08.