

SCS ENGINEERS

October 24, 2011
File No. 02199312.07-2

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



Subject: Landfill Gas Monitoring Results – October 20, 2011
North Wake Landfill – Wake County, North Carolina

Dear Lee:

SCS Engineers, PC (SCS) is pleased to submit the results of the Monthly Landfill Gas (LFG) Monitoring Event, performed at the North Wake Landfill on October 20, 2011. This monitoring was performed in accordance with the current Landfill Gas Remediation Plan, dated July 12, 2007. Correspondence serving as notification of the methane exceedance detected at LFG monitoring probe M-26 was submitted to NCDENR on October 3, 2011. Monitoring probe M-26 exhibited methane levels in excess of the regulatory limit during the 3rd Quarter 2011 probe monitoring event on September 26, 2011.

SCS used a GEM-2000 Infrared Gas Analyzer to measure subsurface concentrations of methane, carbon dioxide, oxygen, balance gas, and pressure at probe M-26, which previously exhibited methane levels in excess of the regulatory limit. The monitoring results are presented in Exhibit 1.

No recordable methane concentrations were identified in probe M-26 on October 20, 2011. This is most likely attributed to the LFG Collection and Control System operator, DTE Biomass, pumping the adjacent condensate sump, which relieved a partial header blockage on perimeter migration control wells, R-8 and R-9, which are located adjacent to monitoring probe M-26.

This is the first month SCS has recorded methane concentrations in probe M-26 below the regulatory limit of five percent. In accordance with the LFG Remediation Plan, M-26 must exhibit a methane concentration below the regulatory limit of five percent for two additional consecutive months. Therefore, SCS will continue to coordinate with Wake County and WGP to monitor subsurface methane levels at perimeter LFG monitoring probe M-26.



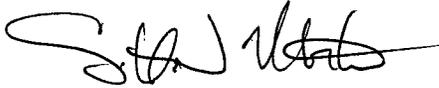
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If you have questions or require additional information, please feel free to contact either of the undersigned.

Sincerely,



D. Brandon King
Project Scientist



Scott N. Mortimer
Senior Project Professional
SCS ENGINEERS, PC

DBK/RED:asd

cc: Jim Onofrio, WGP
Jackie Drummond, NCDENR

Enclosure

**EXHIBIT 2. LANDFILL GAS MONITORING EXCEEDANCE PROBES
NORTH WAKE LANDFILL - WAKE COUNTY, NORTH CAROLINA**

Date: October 20, 2011
 Project No: 02199312.07-2
 Weather: Sunny, 60°F

Personnel: DBK
 Equipment: GEM-2000

Date (mm/dd/yy)	Monitoring Probe No.	Time (24-hr)	Methane (% vol)	Carbon Dioxide (% vol)	Oxygen (% vol)	Balance Gas (% vol)	Static Pressure (in-wc)
10/20/11	M-26	11:56	0.0	0.2	20.1	79.7	0.0

Notes:

Project No: 02199312.07-2

Date: 10-20-2011

CALIBRATION LOG

Facility: North Wake County Landfill

Personnel: Brandon King

GAS ANALYZER

Model: GEM-2000 Serial No: 08176 Calibration Date: 9/13/11

GAS CYLINDER

ID	Exp. Date	Time	Gas	Concentration % Vol	Results
40263-07	9/1/13	11:50	CH4	15 / 50	50.0 %
40263-07	9/1/13	11:50	CO2	15 / 35	35.2 %
40263-03	9/1/13	11:52	O2	4	4.0 %

FLAME IONIZATION DETECTOR

Model: Serial No: Calibration Date:

GAS CYLINDER

Pre-Sampling:

ID	Exp. Date	Time	Gas	Concentration PPM	Results
			CH4	500	ppm
			ZERO AIR	0	ppm
Background:					
			UPWIND		ppm
			DOWNWIND		ppm

WEATHER CONDITIONS

Temperature: 60.0 °F

Current Conditions: Sunny

Barometric Pressure: 29.75 "Hg

