

**SCS ENGINEERS**

November 3, 2008  
File No. 02199312.02-2

Mr. Johnny Beal  
Facility Manager  
Wake County  
Solid Waste Management Division  
PO Box 550  
Raleigh, North Carolina 27609



Subject: Landfill Gas Monitoring Results – October 14, 2008  
North Wake Landfill – Wake County, North Carolina

Dear Johnny:

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 14, 2008. This monitoring was performed in accordance with the updated Landfill Gas Remediation Plan, dated 7/12/07. Correspondence serving as notification of the methane exceedance detected at LFG monitoring probe M-26 was submitted to NCDENR on 1/3/08. Monitoring probe M-26 regained compliant status during the June monthly monitoring event; however, the probe exhibited methane levels in excess of the regulatory limit during the July monthly monitoring event.

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.

The methane concentration recorded at probe M-26 was below the regulatory limit of 5 percent. This is consistent with the previous two monthly monitoring events and is most likely attributed to the applied vacuum maintained on perimeter migration control wells, R-8 and R-9, which are located adjacent to monitoring probe M-26.

SCS has recorded methane concentrations in probe M-26 below the regulatory limit of five percent for three consecutive months. Therefore, in accordance with the updated LFG Remediation Plan, the frequency for monitoring at LFG probe M-26 will be reverted back to quarterly. 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.



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

Date: October 14, 2008  
 Project No: 02199312.02-2  
 Weather: Sunny, 85°F

Personnel: DBK  
 Equipment: GEM-2000

Monitoring Probe No.	Time (24-hr)	Methane (% vol)	Carbon Dioxide (% vol)	Oxygen (% vol)	Balance Gas (% vol)	Pressure (in-wc)
M 26	17:30	0.0	0.2	20.1	79.7	0.0

Notes: