

SCS ENGINEERS

July 17, 2008
File No. 02199312.01

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



Subject: Landfill Gas Monitoring Results – June 13, 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 County Landfill on June 13, 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.

SCS used a GEM-500 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.

As presented on Exhibit 1, the methane concentration in probe M-26 was below the regulatory limit of 5 percent methane. SCS initiated construction activities associated with expansion of the active perimeter migration control system in the vicinity of probe M-26 during the week of May 5th. The wellheads for two supplemental extraction wells (R-8 and R-9) were installed on 6/13/08. The decrease in methane levels in probe M-26 is most likely attributed to the activation of the two new perimeter migration control wells, R-8 and R-9, which are located adjacent to monitoring probe M-26.

SCS will continue to conduct monitoring at probe M-26 on a monthly basis until it demonstrates methane concentrations below the compliance threshold for three consecutive months as stipulated in the updated LFG Remediation Plan. 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: June 13, 2008
 Project No: 02199312.01
 Weather: Sunny, 95°F

Personnel: DBK
 Equipment: GEM-500

Monitoring Probe No.	Time (24-hr)	Methane (% vol)	Carbon Dioxide (% vol)	Oxygen (% vol)	Balance Gas (% vol)	Pressure (in-wc)
M 26	16:27	0.1	0.1	20.4	79.4	-0.2
Extraction Well No.						
R 8	16:10	18.5	31.2	4.4	45.9	-3.6
R 9	16:20	47.8	43.8	0.9	7.5	-6.4

Notes: