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SCS ENGINEERS

October 16, 2008
File No. 02199312.01

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

Subject: Landfill Gas Monitoring Results – August 20, 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 August 20, 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 in probe M-26 was recorded below the regulatory limit of 5 percent methane. This is a decrease compared to the previous month and is most likely attributed to increased vacuum being applied to the two new perimeter migration control wells, R-8 and R-9, which are located adjacent to monitoring probe M-26. SCS adjusted the wellhead control valves to increase the applied vacuum to LFG extraction wells R-8 and R-9. We recommend the County contact WGP to confirm that the vacuum is maintained on wells R-8 and R-9.

SCS will continue to conduct monitoring at probe M-26 on a monthly basis until it demonstrates measurements below the compliance threshold for two additional 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.

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

Date: August 20, 2008
Project No: 02199312.01
Weather: Sunny, 90°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	15:34	0.0	0.4	20.2	79.4	0.0

Extraction Well No.	Initial Pressure (in-wc)	Adjusted Pressure (in-wc)
R 8	-0.8	NA
R 9	-0.3	NA

Notes:
NA= Not Adjusted