

SCS ENGINEERSFebruary 13, 2007
File No. 02199312.01Jackie Drummond
NCDENR
Raleigh Regional Office
1617 Mail Service Center
Raleigh, North Carolina 27699-1646Subject: January Monthly Monitoring Results of LFG Probe M-10
North Wake Landfill – Wake County, North Carolina

Dear Ms. Drummond:

SCS Engineers, PC (SCS) performed landfill gas (LFG) probe monitoring at the North Wake County Landfill on January 9 and 12, 2007. As requested, SCS is notifying you of the monitoring results for LFG Probe M-10 as measured during this monitoring event. Because Probe M-10 had previously exceeded the lower explosive limit (LEL) of 5 percent and methane concentrations have fluctuated during the past 4 months, the probe was monitored multiple times during this monitoring event.

SCS has coordinated with the LFG system operator (Wake Gas Producers, LLC) to implement operational adjustments to the existing LFG control system in an effort to reduce the methane levels at Probe M-10. Based on the monitoring data obtained during January, these adjustments have been somewhat successful and methane content in the probe was below the regulatory limit.

SCS monitored LFG Probe M-10 as well as the methane content in the headspace of the three adjacent groundwater wells on January 9, 2007. Groundwater well MW-4 was previously abandoned or destroyed, and therefore not sampled. Probe M-10 and groundwater monitoring wells MW-15 and MW-15D were also monitored on January 12, 2007. Monitoring results for both dates are included in Exhibit 1.

The LFG Probe M-10 exhibited methane levels below the compliance limit during both sampling events. Groundwater monitoring well MW-15 had a methane concentration of 10.2 and 5.6 percent, respectively. Groundwater monitoring wells MW-7 and MW-15D exhibited methane concentrations below the detection limit during the monitoring events.

Based on the results of this monitoring, SCS and the County will continue to implement monthly monitoring at Probe M-10 and evaluate whether corrective actions are warranted.



Ms. Jackie Drummond
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If you have questions or need additional information, please feel free to contact either of the undersigned.

Sincerely,

D. Brandon King / 6880

D. Brandon King
Associate Staff Scientist

Robert E. Dick

Robert E. Dick, PE
Project Director
SCS ENGINEERS, PC

DBK/RED:asd

Attach.

cc: Dan LaMontagne, Wake County
Johnny Beal, Wake County

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

Date: January 9 and 12, 2007
 Project No: 02199312.01
 Weather: Variable, 65°F

Personnel: DBK
 Equipment: GEM-500, Gas-Trac

Monitoring Probe No.	Time (24-hr)	Methane (% vol)	Carbon Dioxide (% vol)	Oxygen (% vol)	Balance Gas (% vol)	Pressure (in-wc)
			1/9/2007			
M 10	12:45	0	2.5	9.2	88.3	0.2
MW 7	13:16	0	3.2	20.0	76.8	0
MW 15	12:51	10.2	7.6	3.6	78.6	0
MW 15D	12:55	0	2.4	19.9	77.7	0
			1/12/2007			
M 10	9:47	1.6	3.2	7.9	87.3	0.1
MW 15	9:50	5.6	5.3	10.2	78.9	0.1
MW 15D	9:53	0	3.3	19.2	77.5	0

Notes: