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Solid Waste Section

Jackie Drummond
NCDENR
Division of Waste Management
Solid Waste Section
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

Subject: Notification of Methane Exceedance at Landfill Gas Monitoring Probe M-19
North Wake County Landfill – Raleigh, North Carolina

Dear Ms. Drummond:

On behalf of Wake County (County), SCS Engineers, PC (SCS) is submitting this letter to notify you of a methane exceedance detected at the perimeter landfill gas (LFG) monitoring probe M-19 at the North Wake County Landfill (Landfill). Under 15A NCAC 13B Section .1626(4)(c)(ii), the County must place in the operating record the methane gas levels recorded within seven days of detection. The methane exceedance at probe M-19 was detected during routine quarterly monitoring on February 12, 2007.

During the First Quarter 2007 monitoring event involving the perimeter methane monitoring probes at the Landfill, probe M-19 exhibited a methane concentration of 52.5 percent by volume, which is greater than the regulatory compliance threshold, which is equivalent to the lower explosive limit (LEL) for methane. Verification monitoring conducted by DTE Biomass Energy personnel at M-19 on February 16 exhibited a methane concentration of 53.3 percent by volume. Probe M-19 is located on the southwest corner of the closed, unlined cell, adjacent to a condensate sump.

Also, as required by 15A NCAC 13B Section .1626(4)(c)(iii), the County plans to implement a remediation plan within 60 days of the initial exceedance. In accordance with the existing LFG Remediation Plan, the frequency for monitoring LFG probes exhibiting elevated methane concentrations will be monthly.

If you have questions or comments regarding the County's notification, please feel free to contact Johnny Beal of Wake County at (919) 856-5634 or Bob Dick at (804) 598-9480.

Sincerely,

D. Brandon King
Associate Staff Scientist
SCS ENGINEERS, PC

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

cc: Dan LaMontagne - Wake County
Johnny Beal – Wake County