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SCS ENGINEERS, PC

September 3, 2013
File No. 09204072.11

Ms. Jaclynne Drummond, Hydrogeologist
North Carolina Department of Environment and Natural Resources
Environmental Compliance Solid Waste Section
217 West Jones Street
Raleigh, North Carolina 27603

RE: Buncombe County Landfill – Permit # 11-07
MW-3 Gas Issue

Dear Ms. Drummond:

Thank you for your review and quick response to the letter of August 9, 2013, that describes the proposed approach to address the gas migration issue. As per the direction provided in the Department of Environment and Natural Resources (DENR) letter of August 22, 2013, the purpose of this letter is to provide a timeline to address the proposed steps that the County intends to take to address the issue.

As a review the County has proposed a four step approach to be taken one at a time to control the migration of the gas. Those steps are as follows:

1. Work with the existing gas extraction system to attempt to increase the extraction of the gas from the landfill.
2. Create a trench along the liner limits in the areas of concern to allow venting of the gas.
3. Install additional gas extraction wells in the landfill in the vicinity of the migration.
4. Relocate the groundwater monitoring wells outside of the gas plume.

During the process defined above we will be conducting weekly monitoring for methane gas at the locations established previously to continue the development of a database to demonstrate the results of the steps. Discussions have already been initiated with the gas system operation personnel to determine how the changes in managing the gas system under item 1 above could help in reducing the gas available to migrate.

Our proposed timeline for each item above is as follows with the assumption of beginning the timeline on September 9, 2013:

1. Time – 6 months. This will allow brief periods to make adjustments and look at gas reading trends to ascertain success of the efforts.
2. Time – 2 weeks construction – 6 months monitoring following construction. This will allow time to determine if there is a trend in the reduction of the migration.

3. Time – 2 months to contract and install new extraction points – 6 months monitoring following installation to determine if there is a trend in the reduction of migration.
4. Time – 2 months to contract and install the two new wells with approval of DENR.

In the interim, the assessment monitoring will continue on the four designated wells. The baseline will be developed from the semi-annual sampling/testing of the groundwater in accordance with the current schedules in the spring and fall.

We will send you via email monthly reports on the progress of the effort and to discuss any other alternatives that may present themselves as we progress with the project.

Sincerely,

Ken E. Guilbeault, LEP
Project Manager
SCS ENGINEERS, PC

C. Ed Hilton, Jr., P.E.
Vice President
SCS ENGINEERS, PC

Attachments

cc: Jon Creighton, Jerry Mears, Kristy Smith - Buncombe County
Chris Gabel, CDM Smith