



North Carolina Department of Environment and Natural Resources

Pat McCrory
Governor

Donald R. van der Vaart
Secretary

January 21, 2015

Sent Via Email – majones@hendersoncountync.org

Mr. Marcus Jones
Henderson County
Director of Engineering
802 Stoney Mountain Road
Hendersonville, NC 28791

Re: *Landfill Gas Remediation Plan – Phase 2*
Closed Henderson County MSW Landfill
Henderson County
Solid Waste Section Permit Number 45-01
DIN 22955

Dear Mr. Jones:

The Solid Waste Section has completed a review of the *Landfill Gas Remediation Plan – Phase 2* dated January 6, 2015 (DIN 22936) and submitted on behalf of Henderson County by Golder Associates NC, Inc. for the Closed Henderson County MSW Landfill, Solid Waste Permit Number 45-01. The *Landfill Gas Remediation Plan – Phase 2* was submitted in response to methane gas exceedances within landfill gas monitoring wells above the lower explosive limits and to the *Landfill Gas Remediation Plan – Phase 1* dated September 26, 2013 (DIN 19943) and approved on October 17, 2013 (DIN 19987).

The results of the *Landfill Gas Remediation Plan – Phase 1* included methane gas generation modeling and inspection of the gas collection and control system that was taken out of operation in April 2013. This evaluation indicated that methane gas exceedances are limited to an area near the northern waste boundary at landfill gas monitoring wells MP-5, TR-2, and TR-3.

Henderson County is proposing the following activities to address the methane gas exceedances:

1. Passively vent the remaining 46 landfill gas extraction wells within the waste unit by disconnecting from the extraction header pipe and either install turbine vents or ‘candy cane’ style vent pipes,
2. Passively vent landfill gas monitoring well MP-5 by installing a turbine vent since it appears to be in waste or very close to waste, and
3. Replace compliance landfill gas monitoring wells MP-5, MP-6, TR-1, TR-2, and TR-3 with compliance wells located closer to the northern facility boundary (proposed wells include MP-7, MP-8, MP-9). Landfill gas monitoring wells MP-6, TR-2, and TR-3 will continue to be monitored during the quarterly monitoring events as observation wells to determine the effectiveness of the remediation. Landfill gas monitoring well TR-1 is proposed to be abandoned due to its close proximity to MP-6.

As a result, the *Landfill Gas Remediation Plan – Phase 2* is approved as described. If you have any questions or concerns regarding this letter, please contact me at 828.296.4706 or by email at jaclynne.drummond@ncdenr.gov. Thank you for your continued cooperation with this matter.

Sincerely,



Jaclynne Drummond
Compliance Hydrogeologist
Solid Waste Section, Division of Waste Management
NCDENR

cc sent via email: Natalie Berry, Henderson County Assistant Engineer
 Greg Wiggins, Henderson County Solid Waste Manager
 Jason Watkins, Field Operations Branch Head
 Deb Aja, Western District Supervisor
 Andrea Keller, Environmental Senior Specialist
 Larry Frost, Permitting Engineer
 Dusty Reedy, Golder Associates NC, Inc.