



North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

Donald R. van der Vaart  
Secretary

March 31, 2015

Sent Via Email – dbfrancis@haywoodnc.net

Mr. David B. Francis  
Solid Waste and Tax Administrator  
Office of the County Manager  
215 N. Main Street  
Waynesville, NC 28786

Re: Approval of Conceptual Well Abandonment and Installation Plan  
Haywood County Closed Landfill  
Francis Farm  
4403-MSWLF-1982  
DIN 24078

Dear Mr. Francis:

The Solid Waste Section (Section) has reviewed a map displaying a conceptual monitoring plan for the closed Francis Farm MSW Landfill (DIN 24077) submitted on your behalf by Bunnell-Lammons Engineering, Inc. (BLE) on March 30, 2015. On March 31, 2015, the Section had a phone conversation with Andrew Alexander and Mark Preddy of BLE regarding the conceptual plan for well abandonment and installation of groundwater and landfill gas monitoring wells at the landfill. The plan outlines the abandonment of eight (8) groundwater monitoring wells, ten (10) landfill gas monitoring wells and the installation of ten (10) new landfill gas monitoring wells.

- Groundwater wells to be abandoned - MW-1, MW-1A, M1-2A, MW-3A, MW-4, MW-13, MW-14 and MW-14D.
- Landfill gas wells to be abandoned – MM-1, MM-2, MM-3, MM-4, MM-5, MM-6, MM-10, MM-11, MM-12 and MM-13
- Proposed landfill gas wells to be installed – MM-14 through MM-23

The Section gives a preliminary approval of this conceptual plan. A final approval of the monitoring plan will be given when the facility submits their new groundwater and landfill gas monitoring plans as part of the permit modification.

1601 Mail Service Center, Raleigh, North Carolina 27699-1601  
Phone: 919-707-8600 \ Internet: [www.ncdenr.gov](http://www.ncdenr.gov)

An Equal Opportunity \ Affirmative Action Employer – Made in part by recycled paper

The well abandonment procedure shall be in accordance with 15A NCAC 02C .0113(b)(1) and (d). Upon completion of the well abandonments and well installations, submit the well abandonment records (Form GW-30) and well construction records (Form GW-1b) in electronic format to the Section.

If you have questions or concerns, please don't hesitate to contact me via email [elizabeth.werner@ncdenr.gov](mailto:elizabeth.werner@ncdenr.gov) or phone at (919) 707-8253.

Sincerely,

Elizabeth S. Werner  
Permitting Hydrogeologist  
Solid Waste Section

Cc: Ira Dove - Chatham County Manager  
Andrew Alexander, PG – BLE  
Mark Cathey, PE – McGill Associates  
Andrea Keller – SWS, Environmental Senior Specialist  
Deb Aja – SWS, Field Operations Western Supervisor  
Allen Gaither, PE – SWS, Permitting Engineer