



North Carolina Department of Environment and Natural Resources  
Division of Waste Management

Beverly Eaves Perdue  
Governor

Dexter R. Matthews  
Director

Dee Freeman  
Secretary

September 11, 2009

Mr. David B. Cotton  
Haywood County Manager  
215 North Main Street  
Waynesville, NC 28786

Re: Groundwater Assessment Monitoring Plan  
Haywood County Closed Landfill – Francis Farm  
Haywood County  
Permit No. 44-03  
Doc ID No. 8575

Dear Mr. Cotton:

The Solid Waste Section (Section) preformed a recent file review of the closed Francis Farm Landfill, specifically concerning groundwater assessment. The Section understands that a Groundwater Assessment Monitoring Plan was submitted in August 2004 on your behalf by Municipal Engineering. Mr. Larry Rose responded with a review letter requesting additional information August 23, 2004, which is attached for your convenience. Haywood County responded to Mr. Rose requesting additional time before submitting a schedule for the implementation of the assessment plan October 14, 2004. It has come to the attention of the Section that as of September 11, 2009, Haywood County has not submitted any additional correspondence pertaining to the 2004 Groundwater Assessment Monitoring Plan.

Within sixty days of receipt of this letter please submit a response to Mr. Rose's comments and a schedule for Section approval detailing the implementation of the assessment plan.

Thank you for your efforts and cooperation on this matter. If you have questions or concerns, please contact me via email [Elizabeth.werner@ncdenr.gov](mailto:Elizabeth.werner@ncdenr.gov) or phone at (919) 508-8496.

Sincerely,

Elizabeth S. Werner  
Hydrogeologist

Cc: Stephen King, Haywood Co Solid Waste Director  
Trevor J. Benton, PG, BLE, Inc.  
Andrew Alexander, BLE, Inc.  
Mark Poindexter, DWM  
Deb Aja, DWM  
Andrea Keller, DWM  
Ervin Lane, DWM

Attachment



## North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor  
William G. Ross Jr., Secretary

August 23, 2004

Mr. Bobby Cogdill, Director  
Haywood County Solid Waste  
278 Recycle Road  
Clyde, NC 28786

RE: Groundwater Assessment Monitoring Plan – Haywood County Francis Farm Landfill (Permit # 44-03)

Dear Mr. Cogdill:

The Solid Waste Section has received the proposed Groundwater Assessment Monitoring Plan for the Francis Farm closed landfill. Municipal Engineering Services Company P.A. submitted the plan on behalf of Haywood County. Before the review process can be completed and approval granted to proceed with implementation of the plan some additional information must be provided. Please respond to the following comments and concerns.

1. A large measure of the proposed assessment of the contaminant release at the landfill is based on the installation of additional monitoring wells and piezometers on adjacent private properties. Because the county does not own these properties, permission from the owners will be necessary to gain access before any assessment activities on the properties are taken. Please provide the Solid Waste Section with information about how Haywood County proposes to accomplish this action. In the event access is denied, how will the county proceed with the assessment?
2. Five assessment monitoring wells and six piezometers are proposed with locations identified on the plan map. Please provide technical rationale for the proposed locations and construction specifications (e.g. proposed depths, etc.). If hydrogeologic work components such as fracture trace analysis, a lineament study, lithologic analysis, geologic mapping, or contaminant fate and transport mechanisms have been factors in deciding on the proposed well locations, submit those results for review. Before well locations are determined there should be a basic understanding of the relationship of the site groundwater flow regime to local and regional hydrogeologic features.
3. Please provide a schedule for implementation of the proposed plan.
4. Because some of the detected contaminants are components of landfill gas, it may be worthwhile to explore the role that landfill gas plays in the current situation. The landfill has had a history of methane gas migration at concentrations exceeding the regulatory limit and remedial efforts have been made to correct the problem. Submit any monitoring results verifying that corrective actions have been effective in controlling methane migration and returning the landfill to compliance with respect to explosive gases. If methane concentrations have not been reduced to less than 5% at the compliance boundary additional steps will be necessary.

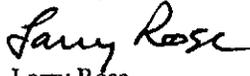
Within thirty days of receipt of this letter please provide a response to the above questions and concerns. Include any additional pertinent information related to the site that may aid in expediting the review process.

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Phone 919-733-4996 \ FAX 919-715-3605 \ Internet <http://wastenotnc.org>

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Thank you for your cooperation with this important matter. If you have any questions, please call me at (919) 733-0692, extension 257.

Sincerely,



Larry Rose  
Environmental Compliance  
Solid Waste Section

xc: Mark Poindexter – Head, Field Operations Branch  
Brent Rockett – Western District Supervisor  
Jim Patterson – Waste Management Specialist  
Wayne Sullivan – MESCO  
C. Jack Horton – Haywood County