



North Carolina Department of Environment and Natural Resources

Dexter Matthews, Director

Division of Waste Management

Beverly Eaves Perdue, Governor  
Dee Freeman, Secretary

January 12, 2010

Sent Via US Mail and Email

Mr. Steve Curl  
R.J. Reynolds Tobacco Company  
Senior Area Manager Environment, Health, and Safety  
401 North Main St.  
Winston-Salem, NC 27101

Re: *Summary Report - Preliminary Site Assessment*  
R.J. Reynolds Rural Hall Ash Landfill  
Forsyth County  
Permit #34-05

Dear Mr. Curl:

The Solid Waste Section has completed a review of the following documents submitted by ERM NC, PC on behalf of R.J. Reynolds Tobacco Company: the letter to Mr. Don Stewart dated December 23, 2009 regarding his water supply well; the letter to Mr. and Mrs. Michael and Susan Sprinkle dated December 23, 2009 regarding their water supply well; and the *Summary Report - Preliminary Site Assessment* dated October 29, 2009. The letters to Mr. Stewart and Mr. and Mrs. Sprinkle stated that the lead detections in their water supply wells were a result of a localized condition and not related to the landfill. As a result, the bottled water supplied to both residences will be discontinued on January 15, 2010. The *Summary Report - Preliminary Site Assessment* was submitted pursuant to a Compliance Order issued by the Division of Waste Management, Solid Waste Section on April 17, 2009. Groundwater and surface water sampling results for the R.J. Reynolds Rural Hall Ash Landfill indicate shallow and deep groundwater contamination and surface water contamination. In accordance with the Compliance Order, the objective of the *Preliminary Site Assessment Work Plan* (approved on July 30, 2009) was to assess the type, source, concentrations, and the vertical and horizontal extent of the contamination.

The *Summary Report - Preliminary Site Assessment* included the evaluation of the regional and site-specific hydrogeologic characteristics; the evaluation of the background conditions for surface water and groundwater; the evaluation of the extent of groundwater and surface water; the evaluation of residential water supply wells within 1,500 feet of the R.J. Reynolds Rural Hall Ash Landfill; and the evaluation of the composition and integrity of the closure soil cap of the R.J. Reynolds Rural Hall Ash Landfill.

Based upon the results of the Phase I activities, appropriate Phase II activities are being proposed for approval. The proposed Phase II activities include the installation and surveying of groundwater

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monitoring wells (two facility bedrock wells, two off-site bedrock wells, and five piezometers on the bank of Leak Creek); additional surface water sampling at the confluence of Leak Creek and the unnamed tributary; and modeling to determine cap enhancements to reduce rainfall infiltration through the closure soil cap.

As a result, the *Summary Report - Preliminary Site Assessment* is approved as described. In addition, the Solid Waste Section has not received the laboratory EDD for the April 30, 2009 semiannual sampling event. Please submit the laboratory EDD within 10 days of receipt of this letter. If you have any questions or concerns regarding this letter, please contact me at 919-508-8500 or by email at [jaclynne.drummond@ncdenr.gov](mailto:jaclynne.drummond@ncdenr.gov). Thank you for your continued cooperation with this matter.

Sincerely,



Jaclynne Drummond  
Hydrogeologist  
Environmental Compliance  
Solid Waste Section

cc sent via email: Max Hopkins, R.J. Reynolds  
David Wasiele, ERM NC, PC  
Alan Martin, ERM NC, PC  
Tom Wilson, ERM NC, PC  
Nancy Scott, Assistant Attorney General  
Mark Poindexter, Field Operations Supervisor  
Jason Watkins, Central District Supervisor  
John Patrone, Environmental Senior Specialist  
Solid Waste Section Central Files