



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

December 21, 2006

Mr. Frank Ralph
Public Utilities Director
Post Office Box 70
Halifax, North Carolina 27839

Subject: Halifax County Landfill Facility, Solid Waste Permit No. 42-04, Modification #4 of Permit to Operate, Request to Extend Operation of C&DLF Over Closed MSWLF
Doc ID No. RCO765

Dear Mr. Ralph:

The Solid Waste Section hereby approves modification of the referenced permit, henceforth referred to as Modification #4. This modification is described in the letter and plans submitted by G. N. Richardson & Associates, Inc, both dated 23 December 2003 and received 29 December 2003, which describe vertical expansion of the C&D Unit over portions of a closed MSWLF. The vertical expansion is depicted as fill sequences located and shown on the following plan sheets: Sheet No. 1/Drawing No. S1, Sheet No. 2/Drawing No. S2, and Sheet No. 3/Drawing No. S3. Proposed operations at the facility extend to July 1, 2008. The permit expires on July 1, 2008 and Halifax County would have to apply for a new permit in accordance with the new C&D Rules, 15A NCAC 13B .0547, for continued operation after this date.

Please note conditions on pages 3 thru 8 in the Permit To Operate. Conditions 12 (c) and 18 address closure requirements for the cap over the C&D waste. The MSW landfill was closed with a cap design consisting of a soil cap with a permeability less than 1×10^{-5} cm/sec. and a final slope of less than 5%. In accordance with .1627(c)(1) a cap of equal or less permeability than the base shall be installed. Likewise, a new alternative cap can be proposed consistent with .1627(c)(2). The average permeability of the compacted clay soils placed over the MSW waste shall be used as the baseline for determining the infiltration rate for the existing base verses the proposed final cap over the C&D waste.

If you have additional questions concerning this letter, please contact me at 919-508-8506.

Sincerely,

Zinith Barbee
Hydrogeologist
Solid Waste Section

cc: Ed Mussler, P.E., Permitting Branch Supervisor
Mr. Matthew Delk, County Manager
Mr. Pieter K. Scheer, P.E., G.N. Richardson & Associates
Central File