



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

Pat McCrory
Governor

Dexter R. Matthews
Director

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Secretary

Solid Waste Section

July 22, 2013

Gwen Matthews, Director
Halifax County Department of Public Utilities
26 N. King Street
P.O. Box 70
Halifax, North Carolina 27839

RE: Halifax County C&D Landfill
Area 2 – Permit No. 42-04
Document ID No. 19343

Dear Ms. Matthews:

The NC SWS has completed a technical review of the Design Hydrogeologic Report, Water Quality Monitoring Plan and Landfill Gas Monitoring Plan submitted as part of the Permit to Construct Application for Area 2 of the Halifax County C&D Landfill.

The permitted groundwater monitoring well network at the Halifax C&D Landfill - Area 2 will consist of three new groundwater monitoring wells: CDMW-1 (upgradient), CDMW-2 (downgradient), CDMW-3 (downgradient) and two surface water sampling points: CDSW-1 (upstream) and SW-3 (downstream). The permitted landfill gas monitoring well network will include two new landfill gas monitoring points: GM-6 and GM-7, located east and south of Area 2 of the C&D Landfill, in addition to the existing landfill gas monitoring probes GM-1, GM-2, GM-2R, GM-2B, GM-3, GM-4, GM-4R, GM-5, and GM-5B.

The Water Quality Monitoring Plan and Landfill Gas Monitoring Plan satisfy the requirements of 15A NCAC 13B .0544 *Monitoring Plans and Requirements for C&DLF Facilities*. Piezometers, groundwater monitoring wells, and borings located in proposed Area No. 2 may be abandoned now or after a Permit to Construct is issued by the Solid Waste Section and must be properly abandoned by overdrilling first (with the exception of non-cased borings) and sealed with grout in accordance with 15A NCAC 2C .0113. In areas where soil is to be undercut, abandoned piezometers, monitoring wells, and borings must not be grouted to pre-grade land surface but instead to the proposed base grade surface to prevent having to cut excess grout and potentially damaging the wells. Well abandonment records (form GW-30) for each decommissioned piezometer, boring, and groundwater monitoring well must be certified by a Licensed Geologist in accordance with 15A NCAC 2C .0114.

The new groundwater monitoring wells associated with Area No. 2 must be sampled for the Appendix I constituent list plus field parameters prior to the Solid Waste Section issuing the Permit to Operate. In addition to a hard copy report, please provide the Solid Waste Section with an electronic copy of the groundwater and surface water monitoring data collected at the landfill facility.

If you have any questions, please contact me at (919) 707-8254 or Christine.ritter@ncdenr.gov.

Sincerely,



Christine Ritter
Hydrogeologist
NC Solid Waste Section

Cc: Ed Mussler, NC SWS
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