

WQ  
Wilkes Co.  
97-01

State of North Carolina  
Department of Environment, Health, and Natural Resources  
Division of Solid Waste Management  
P.O. Box 27687 · Raleigh, North Carolina 27611-7687

James G. Martin, Governor  
William W. Cobey, Jr., Secretary

William L. Meyer  
Director

December 5, 1991

Joe Cook  
Wilkes County Office Building  
Wilkesboro, North Carolina 28697

Fac/Perm/Co ID #	Date	Doc ID#
9701	08/02/2011	DIN 14660

Re: Replacement of Monitoring Well # 5 at the Wilkes County  
Landfill (Permit # 97-01)

Dear Mr. Cook,

After an on-site inspection and a review of the well completion record, the Solid Waste Section is requesting the replacement of monitoring well # 5 at the Wilkes County Landfill. The well is not constructed to required standards specified in the "North Carolina Water Quality Monitoring Guidance Document for Solid Waste Facilities". The well is screened too deep to accurately monitor the groundwater of the surrounding area. The sand filter pack extends 12 feet above the screen, thereby in effect, extending the vertical distance to be screened much more than recommended. In addition, there is no concrete collar around the outer casing. The replacement monitoring well should be installed according to the following conditions:

1. The well is to be placed within the permitted boundaries of the facility in an area free of garbage, refuse, or debris, and in an area not subject to flooding. The location should allow for monitoring of the same general area as the replaced well.
2. The well should be drilled to a depth (and likewise, the screen placed at a vertical location) that will insure that future drought conditions, which may lower the water table, will not render the well ineffective. The top of the well screen should be placed just above the level of the seasonal high water table. It is important that the well is not screened too shallow or too deep.
3. The well is to be constructed according to the specifications in the "North Carolina Water Quality Monitoring Guidance Document for Solid Waste Facilities" as illustrated by the "Typical Monitoring Well Schematic" that is enclosed.

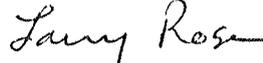
4. The screen should be a maximum of 15 feet in length. The sand pack should extend no more than 2 feet above the screen. A bentonite seal of 1.0 foot should be installed above the screened interval.
5. Well construction permits must be obtained from the Division of Environmental Management, Groundwater Section.
6. The well must be thoroughly developed after construction in order to reduce the suspended solids, flush out the well and re-establish equilibrium in the aquifer.

Within 15 days of completion of the well installation, a complete and accurate Well Completion Record (DHS 3342) and Typical Schematic should be submitted to this office. In addition, please provide a summary of the hydrogeological data accumulated from the boring operation. Include all boring logs and other pertinent subsurface information.

The existing well that is to be replaced should be permanently abandoned according to the procedures cited in NCAC Title 15 Subchapter 2C Section .0100, with the exception that no disinfection is to be done. Before abandoning the old well, however, be sure that the new well has been installed properly.

If you have any questions or comments concerning this matter, please call this office at (919) 733-0692.

Sincerely,



Larry Rose  
Hydrogeological Technician  
Solid Waste Section

cc: Julian Foscue  
Janis McHargue

Enclosures