



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

Beverly Eaves Perdue  
Governor

Dexter R. Matthews  
Director

Dee Freeman  
Secretary

August 10, 2011

Mr. Tim McNeal  
Central Carolina Holdings, LLC  
1616 McKoytown Road  
Cameron, North Carolina 28326

Re: 5-Year Permit Amendment – Hydrogeology Approval  
Central Carolina Tire Monofill – Phase 3B  
Harnett County, North Carolina  
Permit No. 43-04  
Doc ID No. 14794

Dear Mr. McNeal:

The Solid Waste Section (Section) has reviewed Section 3 – Water Quality Monitoring Plan from the Application for Permit Amendment 5-Year Phase (2011-2016) submitted by Garrett & Moore and Brian Boutin on February 17, 2011 (DOC ID #14769).

The Water Quality Monitoring Plan is amended to include the abandonment of MW-17, which is to be replaced with MW-17AR. Submit the boring log, well schematic and well construction record for the newly installed well, MW-17AR. There are two separate monitoring well networks, one associated with Phases 1 and 2 and the other associated with Phase 3. Eight groundwater monitoring wells (MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9) and two surface water monitoring locations (SW-1, SW-2) comprise the Phases 1 and 2 network. Another eight groundwater monitoring wells (MW-10, MW-11, MW-12, MW-13, MW-14, MW-16, MW-17AR, MW-18) and one surface water monitoring location (SW-1) comprise the Phase 3 network.

There are existing monitoring wells and piezometers within the footprint of the proposed Phase 3B area. These wells (MW-17, WRB-8S and WRB-8D) will be need to be abandoned prior to construction activities commencing at Phase 3B.

The Water Quality Monitoring Plan is approved. An electronic copy of the approved Water Quality Monitoring Plan (Tracking Document ID No. 14769) can be obtained on the Solid Waste Section's website located at: <http://portal.ncdenr.org/web/wm/sw> under "Documents (Tracker)".

**Piezometers, groundwater monitoring wells, and borings, located in proposed Phase 3B may be abandoned now or after a Permit to Construct is issued by the Solid Waste Section. Please adhere to the following conditions:**

Prior to construction of cell(s), all piezometers, ground-water monitoring wells, and borings, located in the proposed cell(s), shall be properly abandoned by overdrilling first (exception of non-cased borings) and sealed with grout in accordance with 15A NCAC 2C.0113(b)(1), entitled “Abandonment of Wells”.

- a. In areas where soil is to be undercut, abandoned piezometers, monitoring wells, and borings must not be grouted to pre-grade land surface, but to the proposed base grade surface to prevent having to cut excess grout and potentially damaging the wells.
- b. Well abandonment records (GW-30 form) for each decommissioned piezometer, boring, and groundwater monitoring well must be certified by a Licensed Geologist in accordance with rule .1623(b)(2)(1) and submitted to the Solid Waste Section in accordance with 15A NCAC 02C.0114(b).

The new groundwater monitoring well associated with Phase 3 must be sampled for the Appendix I constituent list prior to the Section issuing the Permit to Operate. In addition to a hard copy report, provide the Section with an electronic copy of the groundwater and surface water monitoring data collected at the landfill facility. Guidelines for sampling groundwater and surface water, and submitting data electronically can be located at the Section’s web site: <http://portal.ncdenr.org/web/wm/sw/envmonitoring>

**Additional Geologic, Ground Water and Monitoring Requirements will be included in the Permit to Construct.**

If you have any questions, please do not hesitate to contact me via email [Elizabeth.werner@ncdenr.gov](mailto:Elizabeth.werner@ncdenr.gov) or phone (919) 508-8496.

Sincerely,



Elizabeth S. Werner  
Hydrogeologist  
Solid Waste Section

cc: Vance Moore, PE – Garrett & Moore  
Brian Boutin, PG  
Geof Little, Robert Hearn, Dennis Shackelford, Ed Mussler - SWS  
Central File