



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

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

June 14, 2010

Mr. Bill Morris
Domtar Paper Company, LLC
Plymouth Mill
PO Box 747
Highway 149 North
Plymouth, NC 27962

Re: Permit to Construct Application – Design Hydrogeology Approval
Domtar Industrial Landfill #3 – Phases 3 and 4
Washington County
Permit No. 94-01
Doc ID No. 10859

Dear Mr. Morris:

The Solid Waste Section (Section) has reviewed the hydrogeology portion, including the water quality monitoring plan, of the Phase 3 and 4 Construction Plan Application for Industrial Landfill #3 submitted on June 20, 2008 (DOC IDs 10526 and 10522) and the responses to the Section's Hydrogeology Review letter (DOC ID 6788) submitted on November 24, 2009 (DOC ID 10858).

The Water Quality Monitoring Plan consists of 13 groundwater monitoring wells. Wells MW-1 and MW-1A are located upgradient of the landfill and provide background water quality data. Wells MW-2, MW-3, MW-4, MW-5, MW-6 and MW-6A (six wells) are located around the perimeter of Landfill No. 2 and wells MW-9, MW-10, MW-11, MW-12 and MW-13 (five wells) are located around the perimeter of Landfill No. 3. According to Sheet 3 in the Phase 3 and 4 Construction Plan Application, MW-7, OW-14, and OW-01 are scheduled to be abandoned.

Both the Design Hydrogeologic Report and the Water Quality Monitoring Plan meet the criteria required in 15A NCAC 13B .0538(b) and therefore, this portion of the Permit to Construct application is approved. An electronic pdf format copy of the approved Design Hydrogeologic Report and Water Quality Monitoring Plan (Tracking Document ID Nos. 10522 and 10526) can be obtained on the Section's website located at: <http://wastenotnc.org/sw/swfacilitylist.asp>

Piezometers, groundwater monitoring wells, and borings, associated with Phases 3 and 4 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).

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 or phone (919) 508-8496.

Sincerely,

Elizabeth S. Werner
Hydrogeologist
Solid Waste Section

cc: Mike Parker, PE - RMT
Dan O. Madison, Jr., PG - RMT
Larry Frost - SWS
Ed Mussler - SWS
Ray Williams - SWS
Central File