



# WILSON COUNTY

9801-CDLF-1997

## DEPARTMENT of SOLID WASTE MANAGEMENT

P.O. BOX 1728  
WILSON, NORTH CAROLINA 27894  
TELEPHONE (252) 399-2823

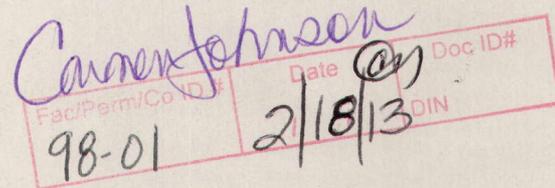
Ask for  
closure  
done?  
Also Ask Mary  
Almost  
done?  
Don't  
do  
anything

The C&D  
landfill  
is closed

February 10, 2006

Mr. Ed Mussler, Permitting Head  
NC DSW - Solid Waste Section  
1646 NC Mail Service Center  
Raleigh, North Carolina 27699-1646

RE: Closure Plan Notification for C&D Landfill Unit  
Wilson County Landfill Facility  
NC SW Permit #98-01  
Wilson, North Carolina



Dear Mr. Mussler:

This letter provides notification to the Division of Waste Management of proposed construction activities for Wilson County's C&D Landfill Closure Plan. When the MSWLF units were closed in 1998, additional capacity remained over the top surfaces of the landfill. As approved in Amendments and Modifications to the permit, Construction and Demolition waste was placed over approximately 13.5 Acres of the landfill to increase stormwater runoff and utilize capacity at the existing landfill site. Concurrent with drainage system improvements and intermediate cover maintenance, Wilson County is currently preparing Construction Bid Documents for installation of the C&D Final Cover System.

With construction of the C&D landfill, most surface grades have been increased from 5% at MSWLF closure to 25% for the C&D closure. Generally, the increase in surface water run-off has reduced the potential for infiltration. Stormwater berms and additional slope drains are in-place to manage the increased run-off from the C&D fill. Improvements to the site drainage system will be further documented in the Construction Quality Assurance report for the C&D Closure Project.

The low-permeability layer (liner) and vegetative soil layer (VSL) minimum specifications required for the 1998 MSWLF closure project will be specified for the C&D closure project in 2006. Depending on the slope or surface application, the existing MSWLF low-permeability layer includes a standard compacted soil liner or an equivalent Geosynthetic Clay Liner (GCL, as approved by the Division in

January 30, 2006

1997). The compacted soil liner is constructed with clay soils ( $k \leq 1 \times 10^{-5}$  cm/sec) from the landfill's Tucker Borrow Site, located approximately one mile to the northwest. Wilson County has recently purchased additional land, adjacent to the Tucker Borrow Site, which provides additional soil resources for closure construction. According to the original plan, construction methods and compaction criteria will be demonstrated on a test pad prior to full scale soil liner production. Demonstrated as an equivalent low-permeability layer for surface applications, the GCL is installed on surface areas typically exceeding a 100-ft run with a nominal grade less than 10%. Based on the slope criteria and soil properties, drainage layers are not required in the final cover. Over the cap liner component, an 18-inch vegetative soil layer completes the surface of the final cover. This MSWLF final cover criteria will be incorporated in the specifications for the C&D Closure Project.

Given the slope conditions at the time of MSWLF closure in 1998, the Division's approval of the C&D unit to utilize existing capacity has improved the land contours over the 13.5 Acre footprint, eliminating historically steep slopes and globally increasing the top surface grade. Combined with incorporation of the MSWLF specifications for the final cover components, the C&D closure will ultimately improve the long-term performance facility during the post closure period. Within the next 30 days, we will be finalizing the construction documents for project bidding and contractor selection. We will notify the Division when a contractor has been selected and a pre-construction meeting is scheduled. If the Division has any regulatory concerns regarding this closure project, please contact me directly at 252.399.2823.

Sincerely,



G. Steven Clayton, Director

cc: Ellis Williford  
Andy Davis  
Gary W. Ahlberg, P.E.