



North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor  
William G. Ross Jr., Secretary

November 5, 2004

Mr. Jerry Blanchard  
Harnett County Solid Waste Director  
P.O. Box 759  
Lillington, NC 27546

Re: Work Plan for a Proposed Pump Test  
Dunn-Erwin Municipal Landfill, Permit #43-02, Harnett County

Dear Mr. Blanchard,

The following comments are in regards to the 'Work Plan for a Proposed Pump Test' submitted on your behalf by Ensol, Inc. in October 2004 to the Solid Waste Section. The proposed work plan included conducting an aquifer pump test at monitoring wells MW-9 and MW-10 at the Dunn-Erwin Municipal Landfill. The aquifer pump test would be used to estimate the hydraulic properties of an aquifer by pumping water out of a well and observing the drawdown in the observation wells. The discharged water will be containerized and discarded into the leachate collection tanks of the on-site transfer station.

Four temporary one-inch piezometers will be installed 25 feet deep approximately 10 to 50 feet downgradient of MW-9 and MW-10 using a Geoprobe® in order to obtain initial results of the test. These temporary piezometers will be properly abandoned in accordance with *15A NCAC 2C* after the aquifer pump test has been completed. The Section highly suggests using dataloggers during the aquifer pump test to provide accurate readings, however, if dataloggers are not going to be used, please take into account possible human errors when analyzing the data. The aquifer pump test will involve pumping from MW-10 first, waiting for the groundwater to recover, and then pumping from MW-9 second. Once steady state (no more changes in potentiometric head) is achieved, the groundwater levels will be measured in the observation wells. Approval is granted to conduct the aquifer pump test.

The Section believes that the contaminant plume has been adequately delineated within the upper aquifer and encourages Harnett County to diligently research remediation activities pursuant to the requirements of *15A NCAC 13B .1635* after the results of the aquifer pump tests have been reviewed. A meeting with the County's consultant is recommended to discuss an appropriate schedule for the order and completion of the tasks involved with the assessment of corrective measures. Once the requirements of *.1635* have been fulfilled, the Section will consider the selected remedy for evaluation and approval.

According to the Register of Deeds, Harnett County is no longer leasing the landfill property. Please settle this property situation as soon as possible so potential complications will not hinder remediation activities.

Please call me at (919) 733-0692 extension 273 if you have any questions or concerns regarding this letter.

1646 Mail Service Center, Raleigh, North Carolina 27699-1646  
Phone 919-733-4996 \ FAX 919-715-3605 \ Internet <http://wastenotnc.org>

Sincerely,



Jaclynne Drummond  
Hydrogeologist  
Environmental Compliance  
Solid Waste Section

cc: C.J. Poran  
C.T. Clayton, Sr.  
Dennis Shackelford  
Solid Waste Central Files