



North Carolina Department of Environment and Natural Resources

Division of Waste Management

Dexter R. Matthews

Director

Beverly Eaves Perdue
Governor

Dee Freeman
Secretary

December 6, 2012

Mr. David Jones
Public Works Director
P.O. Box 543
130 S. Queen Street
Snow Hill, NC 28580

RE: Greene County C&D over closed MSWLF
Corrective Action Evaluation Report (CAER)
105 Landfill Road, Walstonburg, NC 27888
DIN 17837

Dear Mr. Jones:

The NC Solid Waste Section has completed a review of the March 2012 Semi-Annual Water Quality Monitoring Report with Corrective Action Update (DIN 17395) and the October 2012 Corrective Action Evaluation Report (DIN 17502) for the Greene County active C&D Landfill over Closed MSW Landfill submitted by Municipal Engineering Services on behalf of Greene County.

The Corrective Action Evaluation Report (CAER) was submitted pursuant to the County's Corrective Action Plan (DIN 9670) approved by the Solid Waste Section on February 15, 2010. The approved corrective action program for remediating contaminated groundwater at the facility is Monitored Natural Attenuation (MNA). The constituents of concern (COC) identified in the Assessment of Corrective Measures Report and the Corrective Action Plan are: benzene, chloroethane, cis-1,2-dichloroethene, vinyl chloride, p-dichlorobenzene, toluene, iron and lead. The latest sampling event conducted at the facility in March 2012 contained two organic constituents and one metal above 2L standards: vinyl chloride at 7.6 ug/L, benzene at 3.2 ug/L, and iron at 72,975 ug/L, all detected in groundwater monitoring well MW-4.

Total metals have historically been detected at elevated levels in all wells across the site including upgradient monitoring well MW-1R. Although iron was the only metal to exceed the 2L standard at 72,975 ug/L in MW-4 during the last sampling event, chromium, manganese, iron and lead have repeatedly exceeded 2L standards in multiple groundwater monitoring wells at the site. Antimony, arsenic, barium, beryllium, cadmium, manganese, silver, vanadium, and zinc have each been detected periodically in various wells. During future groundwater sampling events, Greene County must analyze both filtered and non-filtered groundwater and surface water samples for the metals which have exceeded the 2L standard. Additional investigation of elevated metals in groundwater at the site may be warranted.

Overall, contaminant concentrations at the landfill site appear to be stable. Per the CAER report, the baseline MNA sampling results, and the Biochlor modeling, there is adequate evidence that natural attenuation is occurring in the groundwater at the landfill site. Greene County did not recommend any changes to the current semi-annual monitoring and reporting schedule. In addition to the filtered metals analyses requested above, all other semi-annual sampling and analysis for detection, assessment, and MNA parameters will remain the same.

If you have any questions, please contact me at (919) 707-8254 or at Christine.ritter@ncdenr.gov.

Sincerely,



Christine Ritter
Hydrogeologist
NC Solid Waste Section

Cc: Mark Poindexter, NC SWS Field Operations Branch supervisor
Ben Barnes, Environmental Senior Specialist, SWS
Mark Durway, Municipal Engineering Services