NCDENR
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

January 4, 2008

Mr. Tim Rogers
Wayne County
460-B Landfill Road
Dudley, NC 28333

Re: *Storm Water Breakout Summary Report* Pursuant to the Compliance Order With Administrative Penalty Issued on May 15, 2007 to the Wayne County Landfill, Permit Number 96-01

Dear Mr. Rogers:

The Solid Waste Section has reviewed the *Storm Water Breakout Summary Report* submitted on October 26, 2007 on behalf of Wayne County by Municipal Engineering Services Company, P.A. for the Wayne County Landfill. The *Storm Water Breakout Summary Report* was submitted pursuant to a Compliance Order With Administrative Penalty issued by the Division of Waste Management, Solid Waste Section to Wayne County on May 15, 2007.

The *Storm Water Breakout Summary Report* consisted of soil, groundwater, and surface water sampling results. The samples were taken on June 26, 2007. No volatile organic compounds (VOCs) were detected in any of the soil samples collected. However, barium, chromium, and vanadium were detected above the Health Based Remediation Goals referenced from the US EPA Region IX 2004 Preliminary Remediation Goal Table. Benzene, 1,4-dichlorobenzene, and lead were detected in groundwater in concentrations above the North Carolina 2L standards in monitoring well MW-2. Benzene exceeded its 2L groundwater standard during the June 26, 2007 sampling event (1.7 ug/L), was detected as less than 3 ug/L during the February 6, 2007 semiannual event, and was not detected during the August 13, 2007 semiannual event. Lead exceeded its 2L groundwater standard during the June 26, 2007 sampling event (19.2 ug/L), was detected as less than 10 ug/L during the February 6, 2007 semiannual event, and was detected as a J value (3.6 ug/L) during the August 13, 2007 semiannual event. 1,4-dichlorobenzene exceeded its 2L groundwater standard during the June 26, 2007 sampling event (2.5 ug/L), was detected as less than 3 ug/L during the February 6, 2007 semiannual event, and exceeded its 2L groundwater standard during the August 13, 2007 semiannual event (2.5 ug/L). Acetone, barium, nickel, and zinc were also detected in a sample from surface water location SW-1. All values were detected as a J value (6.9 ug/L, 124 ug/L, 2.4 ug/L, and 5.0 ug/L respectively) during the June 26, 2007 sampling event. During the February 6, 2007 and August 13, 2007 semiannual events, all surface water locations appeared to be dry (referenced in the May 17, 2007 and October 22, 2007 semiannual reports).

As a result, there appears to be no residual contamination within the soils from the leachate outbreak that occurred at the site, however, contaminants in concentrations exceeding the 2L groundwater standards have been detected at the landfill that pre-existed the outbreak, and corrective action is required. An assessment of corrective measures report was submitted to the Solid Waste Section on August 30, 2007, and a subsequent response letter was sent to Wayne County on November 1, 2007. Please proceed with the remaining requirements of the assessment of corrective measures pursuant to Solid Waste Management Rules .0547(4)(c), .1635, .1636, and .1637.



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Please call me at 919-508-8500 if you have any questions or concerns regarding this correspondence. Thank you in advance for your continued cooperation in this matter.

Sincerely,

Jaclynne Drummond
Hydrogeologist
Environmental Compliance
Solid Waste Section

cc: Ethan Caldwell
Mark Poindexter
Dennis Shackelford
Brad Bailey
Amy Kadrie



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