



North Carolina Department of Environment and Natural Resources

Division of Waste Management

Dexter R. Matthews

Director

Pat McCrory  
Governor

John E. Skvarla, III  
Secretary

September 18, 2013

Sent Via Email – Donald.plessinger@wasteindustries.com

Mr. Donald Plessinger  
Waste Industries, Inc.  
2600 Brownfield Road  
Raleigh, NC 27610

Re: *Landfill Gas Remediation Plan*  
Material Recovery Construction and Demolition Landfill  
Wake County, Solid Waste Permit Number 92-31  
DIN 19796

Dear Mr. Plessinger:

The Solid Waste Section has completed a review of the landfill gas remediation request located within both the *Second Semiannual 2012 Event* dated February 6, 2013 (DIN 18932) and the *First Semiannual 2013 Event* dated August 22, 2013 (DIN 19639) submitted on behalf of Waste Industries, Inc. by Golder Associates NC Inc. The request was submitted in response to the approved *Landfill Gas Remediation Plan* dated May 26, 2010.

An Alternate Source Demonstration (ASD) dated November 5, 2007 (DIN 4492) was submitted in response to the detection of the volatile organic compound, trichlorofluoromethane, within groundwater monitoring well MW-3 in June 2007. The ASD concluded that trichlorofluoromethane was most likely due to landfill gas to groundwater impacts. The Solid Waste Section approved the ASD on May 15, 2008 (DIN 4514). Then in 2009, the volatile organic compounds trichloroethene and tetrachloroethene exceeded the NC Groundwater Standards. As a result, a *Landfill Gas Remediation Plan* dated May 26, 2010 (DIN 10895) was submitted. The plan included the installation of a methane gas cut off trench followed by two years of monitoring to determine the effectiveness. The Solid Waste Section approved the plan on July 1, 2010 (DIN 11006), and the methane gas cut off trench was installed.

Based upon the two years of effectiveness monitoring, Waste Industries, Inc. is requesting an additional six years (12 sampling events) to collect groundwater samples to re-evaluate the effectiveness of the methane cut-off trench based upon the expected groundwater travel times. However, based upon a review of the data and discussions with your consultant, the Solid Waste Section will approve three additional years (6 sampling events) to collect groundwater samples to determine the effectiveness, and a re-evaluation will occur immediately after the third year.

If you have any questions or concerns regarding this letter, please feel free to contact me at 919-707-8294 or by email at [jaclynne.drummond@ncdenr.gov](mailto:jaclynne.drummond@ncdenr.gov). Thank you for your continued cooperation with this matter.

Sincerely,



Jaclynne Drummond  
Compliance Hydrogeologist  
Solid Waste Section

cc sent via email: Dennis Shackelford, Eastern District Supervisor  
Shawn McKee, Environmental Senior Specialist  
Pat Backus, Permitting Engineer  
Rachel Kirkman, Golder Associates NC, Inc.  
Dusty Reedy, Golder Associates NC, Inc.