



North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

Donald R. van der Vaart  
Secretary

August 20, 2015

Sent Via Email - [mgurley@republicservices.com](mailto:mgurley@republicservices.com)

Mr. Mike Gurley  
Republic Services, Inc.  
5105 Morehead Road  
Concord, NC 28027

Re: *First Semi-Annual 2015 Event*  
Lake Norman C&D Landfill  
Lincoln County  
Solid Waste Permit Number 55-04  
DIN 24883

Dear Mr. Gurley:

The Solid Waste Section has completed a review of the *First Semi-Annual 2015 Event* report dated July 27, 2015 (DIN 24882) and submitted on behalf of Republic Services, Inc. by Jett Environmental Consulting for the Lake Norman C&D Landfill, Solid Waste Permit Number 55-04. The facility entered the Assessment Monitoring Program on March 16, 2015 when the *Groundwater Assessment Monitoring Work Plan* dated March 9, 2015 was approved (DINs 23982 and 23983). The *Groundwater Assessment Monitoring Work Plan* was submitted in accordance with 15A NCAC 13B .0545 and in response to volatile organic compounds exceedances within groundwater monitoring well MW-4.

Groundwater assessment activities were conducted at the facility. Groundwater monitoring well MW-5 was installed downgradient of groundwater monitoring well MW-4 near the facility's compliance boundary. Also, headspace readings were collected within groundwater monitoring wells MW-1, MW-2, MW-3, and MW-4; geochemical indicator parameters were collected from groundwater monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-5; and the Appendix II list of constituents were analyzed at groundwater monitoring wells MW-4 and MW-5.

The first Appendix II assessment monitoring event revealed no Appendix II constituents; however, volatile organic compounds (VOCs) were still detected within groundwater monitoring well MW-4. Methylene chloride exceeded the NC Groundwater 2L Standard, and Tetrahydrofuran was detected as a quantifiable constituent. Tetrahydrofuran currently does not have a NC Groundwater 2L Standard. The headspace readings indicate the low presence of landfill gas within the vicinity of groundwater monitoring wells MW-3 and MW-4, and the geochemical indicator parameters indicate that the waters within background monitoring well MW-1 and groundwater monitoring well MW-4 are similar.

Within the *First Semi-Annual 2015 Event* report, Republic Services, Inc. is requesting the following (1) To abandon groundwater monitoring well MW-4 and utilize groundwater monitoring well MW-5 as a replacement well; and (2) To not continue to sample for any of the Appendix II constituents since none were detected during this first event, however, continue in the Assessment Monitoring Program.

As a result, the requests described are not approved at this time. Please do not abandon groundwater monitoring well MW-4, and please conduct Appendix II monitoring for groundwater monitoring well MW-4 during your Fall 2015 sampling event. Based upon those sampling results, the status and the requirements of the Assessment Monitoring Program at the facility and the abandonment of groundwater monitoring well MW-4 will be evaluated again. If you have any questions or concerns regarding this letter, please feel free to contact me at 828.296.4706 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, Division of Waste Management  
NCDENR

cc sent via email:        Jason Watkins, Field Operations Branch Head  
                                 Deb Aja, Western District Supervisor  
                                 Bill Wagner, Environmental Senior Specialist  
                                 Larry Frost, Permitting Branch Engineer  
                                 Perry Sugg, Permitting Hydrogeologist  
                                 Steve Jett, Jett Environmental Consulting