



North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

Donald R. van der Vaart  
Secretary

February 23, 2015

Mr. Kent Brandon  
Wilkes County Department of Solid Waste  
P.O. Box 389  
Roaring River, NC 28669

Re: Landfill Gas Remediation Plan  
Wilkes County – Germantown Road Landfill, Permit# 97-01

Dear Mr. Brandon:

The Solid Waste Section (Section) has reviewed the *Landfill Gas Remediation Plan, Wilkes County – Germantown Road Landfill* submitted by Joyce Engineering, Inc. (JEI) on February 18, 2015. The remediation plan was submitted in response to landfill gas exceedances reported in landfill gas probe GP-1 and a resulting Notice of Violation from the Section on January 20, 2015.

Landfill gas probes GP-1, GP-2, and GP-4 were installed to fulfill the requirements of the revised landfill gas monitoring plan approved by the Section on July 18, 2012. GP-1 exhibited landfill gas concentrations above the lower explosive limit (LEL) subsequent to its installation, while landfill gas concentrations in GP-2 and GP-4 have remained below the LEL.

In order to address the methane exceedances at GP-1, JEI has proposed to remove the cap from a nearby passive landfill gas vent and install a solar powered turbine in its place thereby allowing more effective landfill gas venting. If the landfill gas vent turbine installation proves to be ineffective after one year, JEI proposes to drain the old sedimentation basin area and construct a small drainage channel allowing water to drain down the slope. This would cause the area around GP-1 to dry up and result in the decaying vegetative matter no longer acting as a potential methane source. If this contingency plan is not effective after one year, JEI will consider additional remedial actions.

The Section approves the plan as proposed and Wilkes County is permitted to begin implementation. Please contact me at 919-707-8288 or by email at [erwin.lane@ncdenr.gov](mailto:erwin.lane@ncdenr.gov) if you have any questions or concerns regarding this correspondence. Thank you for your continued cooperation with this matter.

Sincerely,

Ervin Lane  
Hydrogeologist  
Environmental Compliance  
Solid Waste Section

cc: Van Burbach, Ph.D., P.G., Joyce Engineering  
Jason Watkins, Field Operations Branch Head  
Deb Aja, Western District Supervisor  
Charles Gerstell, Environmental Senior Specialist  
Solid Waste Central Files