

# **Bridgeton Landfill, LLC**

13570 St. Charles Rock Road  
Bridgeton, Missouri 63044

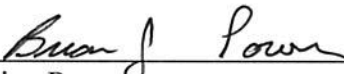
January 15, 2015

Mr. Chris Nagel  
Director, Solid Waste Management Program  
Missouri Department of Natural Resources  
1738 East Elm Street  
Jefferson City, MO 65102

Dr. Mr. Nagel:

Please find enclosed the Investigation of Odor Control Technologies summarizing the evaluation of alternative odor neutralizers and control technologies for third quarter of 2014, conducted pursuant to Paragraph 27.C. of the Second Amendment to the First Agreed Order.

Best regards,

  
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Brian Power  
Environmental Manager  
Bridgeton Landfill, LLC

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## Investigation of Odor Control Technologies – 4<sup>th</sup> Quarter 2014

This Update on Odor Control Technology Investigation is being submitted by Bridgeton Landfill, LLC (“Bridgeton Landfill”) pursuant to Paragraph 27(C) of the Second Amendment to the First Agreed Order.

The Bridgeton Landfill continues to pursue the most advanced, most capable odor controls available to manage and mitigate site related odor. To that end Bridgeton Landfill, LLC contacted Dust Control Technologies of Peoria, IL for a demonstration of their Odor Boss® trailer mounted odor control unit. This is a high volume airborne odor neutralizer delivery system comparable to the Buffalo® mister currently on-site, but differs in two key aspects. First, the Odor Boss is a far more powerful system with much greater distance in the projection of odor neutralizer. Whereas the Buffalo unit projected neutralizer approximately 50’ to 100’ from the blower the Odor Boss is capable of projecting neutralizer 200’ to 300’. Second, the Odor Boss has a far more advanced atomizing nozzle producing in distribution stream where water is only a delivery media for the first 15’ to 20’ of introduction into the wind stream created by the system, at which point free moisture falls out but the now airborne atomized odor neutralizer molecules continue on. This allows odor neutralizer emitted from the Odor Boss to move in a velocity much more comparable to airborne odor molecules. The combination of these two factors has resulted in a key upgrade to site odor control methodology where Odor Boss can be positioned upwind from a potential odor source and the Buffalo directly downwind. This alignment results in the Odor Boss suppressing odor at generation and beyond while the Buffalo is a secondary curtain of odor control that further mitigates or entirely eliminates odor.

In addition to these two key distribution enhancements the Odor Boss is a far more robust system that:

- Consumes less liquid per hour than the Buffalo, allowing for up to 16 hours of continuous operation per tank.
- Operates on electricity as opposed to gasoline or diesel engines, allowing for a supplied electrical panel or generator to power the unit for a comparable 16 hours or more between refills.
- Features an automated oscillating base, angle controls, and similar programmable area of coverage controls that allow the unit to be employed effectively as an area coverage device should this be required for larger area project.

This unit made such a remarkable impact on odor control that following the first day of operation Bridgeton Landfill, LLC requested a quote from Dust Control Technologies for a fully winterized version of the unit.

Below is a picture of the unit staged and in operation during the ongoing gas extraction well drilling project.

