Bridgeton Landfill LLC

January 21, 2016

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 Slope Stability Assessment summarizing the slope stability analysis for fourth quarter of 2015, conducted pursuant to Paragraph 10 of the Second Amendment of the First Agreed Order.

Best regards,

Brian J. Power

Brian Power
Environmental Manager
Bridgeton Landfill, LLC

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January 13, 2016

Brian J. Power
Environmental Manager
Bridgeton Landfill, LLC.
13570 Saint Charles Rock Road
Bridgeton, MO 63044

RE: Bridgeton Stability
4th Quarter 2015 Inspection

Dear Brian,

On December 4, 2015 I performed an inspection of the Bridgeton Landfill for the purpose of identifying any visual evidence of instability or incipient failure. The inspection included the north and south quarry fill areas. This inspection was for the fourth quarter of 2015. The previous inspection was performed on July 22, 2015.

The observation of the slopes for both the north and south quarry areas was performed to look for telltale signs of movements related to instability, including areas of suspension of the membrane on the upslope areas that would result if scarping, not visible due to the temporary membrane cap, existed.

The inspection revealed the presence of surficial slumps in the south east edge of the landfill, between the perimeter ditch and perimeter liquid collection trench installed at the time of capping. These slumps were observed during the previous 4 inspections and have not progressed uphill into the general slope. No indications of instability were noted uphill of this location. The slump shapes suggest they are the result of daylighting of seepage under the cap membrane and subsequent erosion/or slippage of the surficial soils downslope being transported and deposited at the perimeter uncap swale below. These localized slumps had not changed in appearance since the last inspection. Given that these slump shapes have not progressed up slope it is not necessary to repair them at this time.

The eastern, western and north slopes of the north quarry were observed to be undergoing construction of surface water drainage conveyance systems on the cover. The construction appeared to be nearing completion.

Since the inspections were begun in 2013, the sloping portions of the landfill are noticeably flatter and therefore, less prone to instability. In addition, a review of the monthly settlement at grid points was performed. I did not see any indication of instability in the data. It should be noted that extensive settlement of the south quarry has occurred during this time without

any instability of consequence. As mentioned in previous reports, this demonstrates the lack of coupling of instability and settlement at this site.

This is the thirteenth review I have performed of this type at the Bridgeton since the fall of 2012. To date, no signs of impending instability of any consequence has been identified or occurred.

I hope this information is helpful to you. Please call if there are any questions.

Sincerely,

Peter J. Carey, PE
President