

# Bridgeton Landfill, LLC

13570 St. Charles Rock Road  
Bridgeton, Missouri 63044

Mr. Chris Nagel  
Missouri Department of Natural Resources  
Solid Waste Management Program  
1738 East Elm Street  
Jefferson City, Missouri 65101

July 22, 2014

Dear Mr. Nagel:

**Expanded Heat Removal Pilot Study  
Bridgeton Landfill, Bridgeton, Missouri  
Permit No. 0118912**

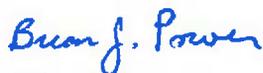
In September 2013, Bridgeton Landfill initiated a pilot test on a potential cooling device by way of inserting a closed-loop heat exchange pipe in Gas Interceptor Well (GIW) -4. It was verified that this method was successful in removing heat within the well casing by measuring temperature change and flow rate of liquid moving through the cooling loop. The GIW-4 pilot project supported the assumption that an inserted heat exchange pipe could be successfully operated, and that heat could be removed using this technique.

The Bridgeton Landfill is planning to expand the heat removal pilot study. This expansion will include outfitting 6 additional GIWs with a closed-loop heat exchange piping accompanied with the installation of 8 additional new Temperature Monitoring Probes (TMPs) to assist in further evaluation of this technology (Design drawings are attached).

The specialty driller that performs TMP installation for Bridgeton Landfill has availability to begin installation of the new TMPs on August 12, 2014. Additional components referenced in the attached drawing are scheduled to be installed shortly after the installation of the TMPs.

If you need additional information, please contact me at (314) 744-8165.

Sincerely,



Brian J. Power  
Environmental Manager  
Bridgeton Landfill, LLC.

CONSTRUCTION DRAWINGS FOR

# ALTERNATIVE HEAT EXTRACTION PILOT STUDY

## BRIDGETON LANDFILL

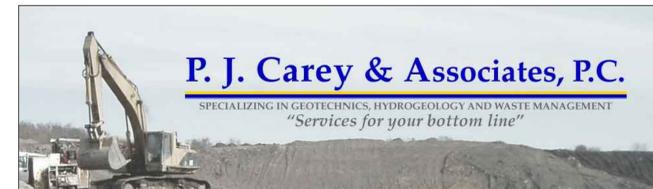
BRIDGETON, ST. LOUIS COUNTY, MISSOURI

JULY 2014

PREPARED FOR:  
BRIDGETON LANDFILL, LLC.



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Daniel R. Feezor, P.E.





