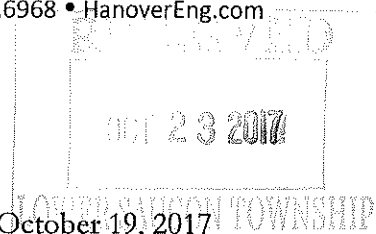


Hanover Engineering

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Phone: 610.691.5644 • Fax: 610.691.6968 • HanoverEng.com

October 20, 2017



Ms. Leslie Huhn, Township Manager
Lower Saucon Township
3700 Old Philadelphia Pike
Bethlehem, PA 18015

RE: Inspection Conducted on October 19, 2017
IESI Bethlehem Landfill
Hanover Project LS90-7

Dear Ms. Huhn:

The purpose of this letter is to report the results of the above-referenced "Pre-meeting" inspection. The inspection was conducted by me along with Nick Rogers, Compliance Manager and Tony Holva, Operations Supervisor. The following items were noted during the inspection:

1. The BRE plant was not running. Mr. Rogers stated that they Pennsylvania Power and Light is doing work on the electrical infrastructure that connects to the plant and required the plant to shut down during this time. The outage began on October 16, 2017 and is scheduled to end on October 20, 2017.
2. The landfill flare was running at a flow rate of 3,150 scfm and a temperature of 1,649 degrees Fahrenheit. The bar graph on the instrument readout indicated that the flow rate was approximately eighty percent (80%) of the Variable Frequency Drive (VFD) capacity. The largest blower was in operation. The blower was still making a buzzing sound, about as loudly as observed during the previous inspection. Sound-blocking measures were still in place. The paper chart record went back to October 10, 2017 and showed a large increase in gas flow on October 16, 2017, corresponding with the planned outage at BRE. During the inspection, it was observed that the flare was functioning normally.
3. The truck wash was not in use due to dry conditions.
4. No mud, blowing litter, or odors were observed along Applebutter Road up to Ringhoffer Road; the entrance driveway, or the office parking lot.
5. The northern and southern mister lines were observed to be in operation during the inspection. However, the northern mister line discharge was very weak. Mr. Holva stated that it was probably a filter issue and that he would look into it.

Wind during the inspection was calm to five (5) mph from the south at the start of the inspection, increasing to ten to twenty (10 – 20) mph from the west. The weather was sunny with no precipitation.

Garbage was being disposed of at the top of the landfill, in Cell 4D. One (1) truck was dumping and zero (0) were waiting. Trucks are now approaching and departing the working face utilizing the newly constructed south face haul road. Cover soil was staged at the working face. Portable wind screens were in place. A working face odor was observed on site in the vicinity of the working face. No other odors were observed on site.

- S**
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 - Planner
 - Landfill
 - EMC
 - Other

web site

8. Cover soil is still being imported. No Alternative Daily Cover material is being used.
9. Graded areas of the south face along the new haul road have been hydroseeded.
10. The west high wall was observed. No slope failures or major movement of soil or rock since the last inspection was evident.
11. The temporary cap on the southern face was observed. No inflation of the cap was evident.
12. I observed that the south face haul road had just been sprayed with water for dust suppression.
13. Mr. Rogers stated that five (5) of the six (6) exceedance areas requiring corrective action have already been addressed. This was done by installing horizontal collector pipes from the nearest portion of the existing gas collection system to the exceedance location. The pipes are between 100 feet and 400 feet in length and will collect gas not only at the exceedance location, but along their entire length. The sixth exceedance location will be addressed promptly.
14. Mr. Rogers stated that he is planning to change over the wellheads at two (2) of the gas collection wells from two-inch (2") diameter to three-inch (3") diameter. This is being done to increase collection capacity at wells where the valving is full open and the methane quality is good, indicating that more gas is available than is currently being collected. Larger diameter wellheads will greatly increase the collection capacity.
15. I conducted a driving patrol along the intersection of Applebutter Road and Ringhoffer Road before the inspection, starting at 10:24 a.m. No landfill-related odors were observed. No sounds from the landfill flare were observed. The sound of truck traffic on the landfill was observed. I conducted a driving patrol along Skyline Drive after the inspection, starting at 11:35 a.m. No landfill-related odors were observed. The sight and sound of a bulldozer at the working face and of trucks on the south face haul road were observed. I conducted a driving patrol through Steel City after the inspection, starting at 11:45 a.m. No landfill-related odors were observed. No landfill-related sounds were observed at the entrance to the Hill Climb. The driving patrol along Riverside Drive did not reveal any landfill-related issues.

Activity Related to the Southeast Realignment Expansion

16. A large amount of earth moving and grading was observed continuing to take place on the east end of the landfill. Mr. Rogers stated that this was for the construction of the base of the MSE wall and access road in this location.
17. It was observed that grading is continuing to take place in Sedimentation Basin 2.
18. Mr. Rogers stated that Abatement Well AB-2 has been decommissioned and replacement Abatement Well AB-2R has been drilled and is temporarily tied in.
19. Paving on the eastern access road has been removed, but the road is still drivable on the stone base.
20. In the area of new Cell SE-1, stripping of topsoil is taking place. This is in preparation for uncovering the anchor trench, which is the first step in peeling back the liner in this area as part of the new cell construction. The topsoil is being stockpiled for re-use.

Ms. Leslie Huhn
Township Manager

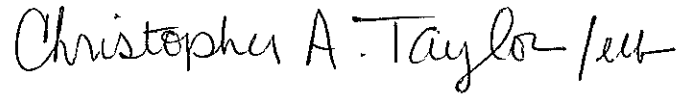
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October 20, 2017

If you have any comments or questions regarding any of the above, or find that you need additional information, please do not hesitate to call me immediately.

Respectfully,

HANOVER ENGINEERING

A handwritten signature in black ink that reads "Christopher A. Taylor / et". The signature is written in a cursive style.

Christopher A. Taylor, PG, HMI
Host Municipality Inspector

cat: llb

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