



Hanover Engineering

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November 30, 2017

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

RE: Inspection Conducted on November 30, 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 "Mid-meeting" inspection. The inspection was conducted by me along with Scott Brown of this office and Don Hallock, District General Manager. The following items were noted during the inspection:

1. The BRE plant was not running. Mr. Hallock stated that they have been shut down for maintenance since Monday November 27.
2. The landfill flare was running at a flow rate of 2,865 scfm and a temperature of 1,640 degrees Fahrenheit. The bar graph on the instrument readout indicated that the flow rate was approximately seventy-six percent (76%) 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 results of the vibration test that was being performed during the last inspection have not yet been received according to Mr. Hallock. The paper chart record went back to November 16, 2017, but ended on November 24, 2017. Mr. Hallock stated he would have SCS check the functioning of the unit. The chart showed an increase in gas flow on November 21, 2017 which lasted until the end of the chart record on November 24, 2017. Mr. Hallock stated that this corresponded with maintenance at BRE. During the inspection, it was observed that the flare was functioning normally. Mr. Hallock stated that since they had the auto-tuner fixed, there have been no flare malfunctions of the kind that occurred in May 2017.
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 have been winterized and were not in operation.
6. Wind during the inspection was calm to five (5) mph from the south at the start of the inspection, increasing to five to ten (5 - 10) mph during the inspection. The weather was clear with no precipitation.
7. Garbage was being disposed of at the top of the landfill, in Cell 4D. Two (2) compactors and one (1) dozer were running at the working face. The truck tipper is still staged at the working face. Two (2) trucks were dumping and zero (0) were waiting. Trucks are still approaching

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- and departing the working face utilizing the newly constructed south face haul road. Portable wind screens were in place. Working face (garbage) odors were observed at the working face. A landfill gas odor was observed on top of the landfill just west of the working face. Mr. Hallock stated that he would have the wells in this area checked. A new portable mister unit was observed in use near the working face. Mr. Hallock stated that they just acquired it. It is water based, but can be used at slightly lower temperatures than the stationary mister lines. It uses the same odor neutralizer.
8. Cover soil is still being imported. No Alternative Daily Cover material is being used.
 9. The areas of the south face that were previously dressed up with additional topsoil to repair erosion will be stabilized starting tomorrow per Mr. Hallock.
 10. The west high wall was observed. No slope failures or major movement of soil or rock since the last inspection was evident.
 11. Mr. Hallock stated that one (1) picker works on site regularly all week to remove litter.
 12. Mr. Hallock stated that the sixth and final exceedance location previously identified by PA DEP as requiring corrective action is now being addressed. This involves running a horizontal collector pipe from the nearest part of the existing gas collection system to the exceedance location.
 13. Mr. Hallock stated that the landfill's consultant is scheduled to conduct surface emission monitoring (SEM) next week.
 14. The customer drop-off area (for small, non-commercial vehicles with garbage) is still relocated to the southern access road. The recycling drop-off has still not been re-established on site. Mr. Hallock stated that the new area for both will be constructed in the next two (2) weeks.
 15. Internal access roads and the haul road are being sprayed for dust suppression.
 16. I conducted a driving patrol along the intersection of Applebutter Road and Ringhoffer Road before the inspection, starting at 10:22 a.m. No landfill-related odors were observed. No sounds from the landfill flare were observed. Truck traffic (both garbage trucks and construction dump trucks) on the landfill was observed to be audible and visible. I conducted a driving patrol along Skyline Drive after the inspection, starting at 11:43 a.m. No landfill-related odors were observed. Truck traffic on the south face haul road was observed to be audible and visible from the end of Skyline Drive. I conducted a driving patrol through Steel City after the inspection, starting at 11:53 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

17. Structural fill was being placed at the subbase of the MSE wall. Structural fill is stockpiled on site.
18. The new leachate management chamber has been installed and the old chamber has been removed.
19. The casing of Abatement Well AB-2, previously observed sticking up in the area of the MSE wall subgrade, has been cut off and removed. As previously reported, replacement Abatement Well AB-2R has been drilled and is temporarily tied in.

Ms. Leslie Huhn
Township Manager

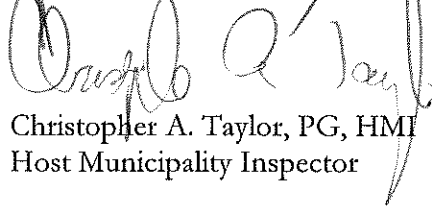
3

November 30, 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



Christopher A. Taylor, PG, HMI
Host Municipality Inspector

cat: llb

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