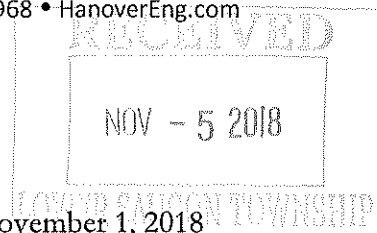


# Hanover Engineering

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November 2, 2018



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

RE: Inspection Conducted on November 1, 2018  
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 Donald Hallock, District General Manager, and Jayme Steigerwalt, Operations Manager. The following items were noted during the inspection:

1. The BRE plant was running. Mr. Hallock checked with the plant manager and stated that the plant was running both compressors and consuming gas at a rate of 1,550 scfm.
2. The landfill flare was running at a flow rate of 2,180 scfm and a temperature of 1,658 degrees Fahrenheit and appeared to be operating normally. There were no visible emissions from the flare. The bar graph on the instrument panel indicated that the flare was running at fifty-nine percent (59%) of the Variable Frequency Drive (VFD) capacity. The largest blower was in operation. The paper chart goes back to October 19 and shows increases in gas flow on October 24 for about one (1) day and on October 30 for a few hours. Mr. Hallock stated that these times correspond with maintenance outages at BRE. Mr. Hallock stated that Cody (the landfill's gas technician) had tuned some of the wellheads yesterday, which might have led to somewhat higher gas production.
3. The truck wash was open and available for use, but this was not required since site conditions were fairly dry.
4. No blowing litter, mud, or odors were observed along Applebutter Road up to Ringhoffer Road, the entrance driveway, or the office parking lot.
5. I observed during the inspection that the roads had been sprayed for dust suppression. Mr. Hallock stated that the water truck was back from being repaired. Some wind-blown litter was observed on the east end of the south slope. Mr. Hallock stated that one (1) picker was on site and he would direct him to remove litter in this area. Erosion rills were also observed in this area. Mr. Hallock stated that it has been too wet to put a machine on this slope, but that he would have the slope dressed up when conditions permitted. Wind during the inspection was calm. Weather conditions were sunny and warm. Garbage was being disposed of in two (2) working faces. The main working face was at the top west end of the landfill in Cell 4D at Elevation 715. Long haul tractor trailers were being unloaded using the truck tipper. One (1) truck was unloading on the tipper and one (1) was

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ROUTING

- Council 6.
- Manager *my*
- Asst. Mgr.
- Zoning
- Finance
- Police
- P. Works *7*
- P/C
- P & R
- EAC
- Engineer
- Solicitor
- Planner
- Landfill
- EMC
- Other *web*

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*nea 11-01-18*

waiting to unload. One (1) compactor was working here. Mr. Hallock stated that they are working off grade stakes along the edge of the working face to check elevations. From here the working face will move eastward across the top. While there I observed a load of 90/10 sewage sludge dumped for disposal. It had the appearance and texture of soil with no odor noticed from a short distance. The approach road to the working face was stable and passable. The second working face was in the southwest corner of the landfill in Cell 4E-1 at elevation 573. Local collection trucks were unloading conventionally here. Two (2) trucks were unloading and one (1) was waiting to unload. One (1) compactor was working here. Mr. Hallock stated that disposal in this area is ended at 1:30 p.m. every day and cover is placed at that time.

9. I conducted a discussion with Mr. Hallock regarding the grade stakes in the Cell 4E-1 area, as observed during the last inspection, which indicate fills of twenty-two feet (22') or more. I stated that fills this large don't match with the existing grades to be maintained at the western boundary, and that new grade stakes with accurate grades should be set. Mr. Hallock stated that he would have new grade stakes set here next time the surveyor is out.
10. The north mister line was not in use. The south mister line had previously been removed. It was previously reported that it will be installed closer to the new cell.
11. Areas of daily and intermediate cover are adequate to cover garbage, with no flagging garbage or seeps observed.
12. The temporary cap on the south face was observed. No ballooning of the cap was occurring.
13. The west high wall was observed. No slope failures or major movement of soil or rock since the last inspection was evident.
14. The customer drop-off area (for small, non-commercial vehicles with garbage) has been moved to its new location in the Southeast Realignment area below Cell SE-1A. They are in the process of moving recycling to this new location also.
15. The north slope road was driven. No additional erosion since the last inspection was observed.
16. Sedimentation Basin 2 has been hydroseeded.
17. We entered the scale house to observe trucking slips. I was shown eight (8) slips for trucks from Waste Connections transfer stations, and two (2) for outside haulers. Of these, one (1) truck arrived over 80,000 pounds.
18. I conducted a driving patrol along the intersection of Applebutter Road and Ringhoffer Road before the inspection, starting at 9:57 a.m. No landfill-related odors were observed. The landfill is now visible through the thinning leaves on the trees. The sounds of trucks and equipment working were observed coming from the landfill. I conducted a driving patrol along Skyline Drive after the inspection, starting at 11:20 a.m. No landfill-related odors were observed. The sight and sound of garbage trucks and dump trucks on the landfill (south face haul road) were observed from the end of Skyline Drive. The sight of trucks, a compactor, and the truck tipper was also observed at the working face on top of the landfill. I conducted a driving patrol through Steel City after the inspection, starting at 11:32 a.m. No landfill-related odors or sounds were observed from the entrance to the Hill Climb. On the driving patrol through the Narrows it was observed that the road downslope of the runoff point from the landfill was clean. No water was running at the time of the inspection.

Ms. Leslie Huhn  
Township Manager

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November 2, 2018

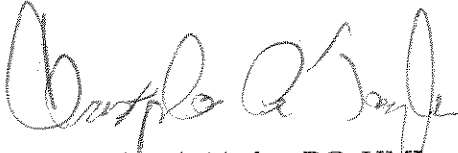
Activity Related to the Southeast Realignment Expansion

19. Newly constructed Cell SE-1A is complete but is inactive, awaiting PA DEP certification.
20. In the area of future Cell SE1-B, stripping of soil in preparation for construction of that new cell has reached a stopping point. Mr. Hallock stated that no further work will take place in this area until next year.

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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