



# Hanover Engineering

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JUL 26 2018  
CONSTRUCTION DIVISION

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July 24, 2018

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

RE: Inspection Conducted on July 19, 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 "Pre-meeting" inspection. The inspection was conducted by me along with Donald Hallock, District General Manager and Jim Young, Township Zoning Officer. The following items were noted during the inspection:

1. The BRE plant was not running. Mr. Hallock stated that they had gone down around 9 a.m. this morning for planned maintenance.
2. The landfill flare was running at a flow rate of 3,340 scfm and a temperature of 1,622 degrees Fahrenheit and appeared to be operating normally. Heat emissions from the flare were only visible when looking against a dark background. The bar graph on the instrument panel indicated that the flare was running at approximately 80% of the Variable Frequency Drive (VFD) capacity. The largest blower was in operation. A new paper chart had been installed in the analog meter this morning; therefore, only a few hours of data were available.
3. Mr. Hallock stated that final tie-in of the 14 newly installed gas wells is still in progress. Crews were observed working on the gas collection system in the area of the new twelve-inch (12") loop header during the inspection. The installation of the new header is now complete.
4. The truck wash was not in use due to dry conditions.
5. No blowing litter was observed along Applebutter Road up to Ringhoffer Road, the entrance driveway, or the office parking lot. Some mud was observed along the westbound lane of Applebutter Road upon exiting the landfill. Mr. Hallock stated a street sweeper would be cleaning Applebutter Road this afternoon. A water truck was observed spraying the internal roads for dust suppression throughout the inspection.
6. The only litter observed on site was found below the lower working face. Mr. Hallock stated this was rain-washed litter carried downslope upon removal of daily cover after a recent rain event. Mr. Hallock stated the litter would be cleaned up by the end of the day.
7. Wind during the inspection was calm to east/southeast at 5 mph. Weather conditions were sunny, no rain, and in the seventies.
8. As observed on June 21, 2018, garbage was being disposed of at two distinct working faces: an upper working face near the western border of the previously approved expansion, near Cells 4-B/4-D, and a lower working face just above the new Cell SE-1A, in the Phase I area. The upper working face is now approaching elevation 714, at which point Mr. Hallock stated they would stop disposing garbage on top to leave plenty of space for cover, prior to reaching

- S
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- Council
  - Manager *only*
  - Asst. Mgr.
  - Zoning
  - Finance
  - Police
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  - EAC
  - Engineer
  - Solicitor
  - Planner
  - Landfill
  - EMC
  - Other

- their maximum permitted elevation. Smaller local collection trucks are using the construction road which wraps around new Cell SE-1A (previously the main haul road) to access the lower working face and larger semi-trucks with walking floors and those utilizing the tipper are using the south face haul road to reach the upper working face. Triaxles delivering construction materials are also using the south face haul road.
9. Mr. Hallock stated disposal at the upper working face would conclude entirely by July 21, 2018 except for a small area reserved for pick-up and box trucks.
  10. The truck tipper was staged at the upper working face but was not in use and no trucks were waiting. One (1) compactor was operating and the portable mister was in operation. A few portable wind screens were in use near the upper working face, however calm conditions prevailed throughout the inspection. The new portable windscreens mentioned in the June 11, 2018 Inspection Report have not yet arrived. The approach road to the upper working face is stable. At the lower working face, three (3) trucks were unloading conventionally, and two (2) were waiting. One (1) dozer and one (1) excavator were working. Daily cover soil is being staged at both working faces and is spread or removed from the garbage as the working face shifts.
  11. One (1) dozer was observed to the east of the upper working face working to reposition garbage dropped off by small pick-up and box trucks.
  12. Neither the north or south fixed mister lines were in use.
  13. Areas of daily and intermediate cover are adequate to cover garbage, with no flagging garbage or seeps observed. Some minor erosion was observed in the south face as the result of a recent rain event, which Mr. Hallock stated would be addressed.
  14. Although strong garbage odors were observed near the upper working face, odors observed elsewhere on- or off-site were minimal, and are noted throughout this report.
  15. The temporary cap on the south face was observed. There was no ballooning of the cap.
  16. The west high wall was observed. No slope failures or major movement of soil or rock since the last inspection was evident.
  17. The recycling and customer drop-off area (for small, non-commercial vehicles) is still relocated to the southern access road. The new area for these services is still being constructed as part of the Southeast Realignment.
  18. A contractor was observed mowing grass as part of routine maintenance on the southern face of the permanently capped Phase III area.
  19. A bench road is being constructed along the northern face, south of the existing access road. A steady stream of triaxle trucks was observed hauling material to this area for construction of the road. Mr. Hallock stated construction of this road began July 18 and would be complete no later than July 21, 2018.
  20. A driving patrol was conducted prior to the inspection along the approach to the landfill from Shimersville Road, as well as at the intersection of Applebutter Road and Ringhoffer Road. A slight, intermittent sweet odor was detected along Applebutter Road upon approach to the facility. A slight intermittent garbage odor was detected near the intersection with Ringhoffer Road around 10:02 a.m. The sight of the landfill is mostly screened from Ringhoffer Road by vegetation, although a small portion of the lower working face and one (1) excavator could be observed through the leaves. The sound of diesel engines, travel/backup alarms, and a tailgate slap coming from the landfill were observed.
  21. A driving patrol was conducted along Skyline Drive after the inspection, starting at 11:38 a.m. No landfill-related odors were observed. The sight and sound of garbage trucks and triaxles hauling construction materials were observed from the end of Skyline Drive. An

engine brake from a triaxle descending the south face haul road could also be heard. Additionally, the tipper was observed in operation at this time, and one (1) excavator assisting with the tie-in of the new gas collection wells was able to be seen. The Skyline Drive patrol concluded at 11:53 a.m.

22. A driving patrol was conducted through Steel City beginning at 11:59 a.m. Apart from a moderate number of vultures observed from the entrance to the Hill Climb, no landfill-related sights, sounds, or odors were observed throughout Steel City. No landfill-related issues were observed on the driving patrol through the Narrows.

Activity Related to the Southeast Realignment Expansion

23. Construction activity related to the expansion is continuing in new Cell SE-1A. Construction of the bottom liner is now complete, and geogrid was being placed over the liner. A substantial area of geogrid was observed to have washed away and was deposited downslope during a recent storm. Workers were observed pulling this geogrid back up slope and putting the material back in place.
24. Mr. Hallock anticipates beginning placement of the protective cover material, which is nearly all stockpiled on site, in early August.

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



Jacob A. Schray, HMI  
Host Municipality Inspector

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