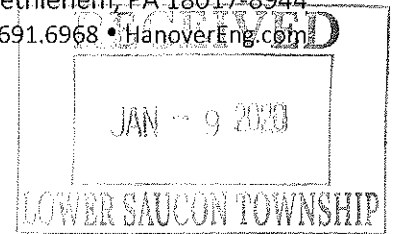


# HanoverEngineering

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January 7, 2020

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

RE: Inspection Conducted on January 2, 2020  
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 David Pannucci, Regional Engineer, and Phillip Garcia, Operations Supervisor. The following items were noted during the inspection:

1. The BRE plant continues to be off line, with no activity observed. An alarm coming from the BRE site was audible at the landfill parking lot. Mr. Garcia stated that it had been going off for two weeks. He stated that he had called the phone number posted on the BRE site but got no response. He then called the Lower Saucon Police Department. An officer responded and determined that there was no emergency and that there was nothing more that he could do.
2. The landfill flare was running at a flow rate of 2,990 standard cubic feet per minute (scfm), a temperature of 1,663 degrees Fahrenheit, and fifty-five inches (55") of vacuum. The flow rate was reading as one hundred percent (100%) of the variable frequency drive. Cody White, Landfill Gas Technician, had previously explained that this reading indicates that the VFD is running at the maximum speed for which it is set. He stated that it does not indicate that the flare capacity is being maxed out. The largest blower was in operation. The flare appeared to be running normally with no visible emissions or flames observed during this inspection. Mr. Pannucci stated that there have been no visible emissions from the flare since the last inspection. The paper chart went back to December 30 and showed steady gas flow since then with no interruptions or shutdowns.
3. The truck wash was open and in use.
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. Weather conditions were sunny, temperature in the 30s, and wind from the south/southwest at zero to five (0 - 5) miles per hour.
6. A street sweeper was observed cleaning internal roads.
7. The customer convenience area is in use for small vehicles.
8. Two laborers were on site and were working to install more short litter fence at the bottom of Cell SE-1A. They were not being used to pick garbage as very little blowing litter was observed on the site.

- ROUTING**
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  - Asst. Mgr.
  - Zoning
  - Finance
  - Police
  - P. Works
  - P/C
  - P & R
  - EAC
  - Engineer
  - Solicitor
  - Planner
  - Landfill
  - EMC
  - Other

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9. Garbage was being disposed of at one (1) working face at the eastern end and southern side of Cell SE-1A. The approach to and departure from the working face was passable. Zero (0) truck were unloading on the tipper, with zero (0) waiting for the tipper. Two (2) trucks were unloading conventionally, with zero (0) trucks waiting. One (1) dozer and one (1) compactor were working in the garbage. Wind screens were in place at the working face. One (1) dozer was spreading soil for daily cover over the portions of the working face already filled. It was observed that cover soil was being trucked to the working face and staged for use as daily cover as filling continues. Tarps are also being used for daily cover in conjunction with soil. Survey stakes marking fill amounts were observed on the south slope near the working face. Mr. Pannucci stated that these are being used as a guide for filling in this area. It was observed that soil cover was being added on the east end of the working face to cover flagging garbage and that crushed brick was being added to form and stabilize a bench in this area.
10. A moderate gas odor was observed at the top eastern end of the landfill. With a slight wind from the south/southwest at the time, that would make the source of the odor the adjacent area of the south face, which has yet to be dressed with additional cover soil. Mr. Garcia stated that addition of cover soil on areas of the south face has been proceeding and will continue until this area is also addressed.
11. I advised Mr. Pannucci that multiple odor complaints were lodged the last week of December. He stated that he was not aware of any unusual circumstances at the landfill at that time, such as the flare being off line.
12. Mr. Garcia stated that they continue to repair seeps as they occur. He stated that there are seeps on the north face that he will have repaired today.
13. Mr. Pannucci reported that the first round of work to rebalance the well field to help distribute the vacuum more evenly following upsizing of header pipes has been completed by Cody White. He stated that Mr. White has also run "jumper lines" from collector lines to several wells in the last two (2) weeks in an attempt to better balance the vacuum between wells.
14. The north slope road was driven. The riprap swale and rock check dams were in good shape with no erosion observed. Minor erosion was observed in the road bed.
15. The temporary cap on the south face was observed. No ballooning of the cap was occurring.
16. The west high wall was observed. No slope failures or major movement of soil or rock since the last inspection was evident.
17. Mr. Pannucci stated that the latest round of stormwater outfall testing conducted by the PA DEP showed all passing results.
18. We entered the scale house to inspect trucking slips from Waste Connections' transfer stations. Three (3) out of ten (10) trucks were overweight, by 360 pounds, 360 pounds, and 980 pounds.
19. I conducted a driving patrol along the intersection of Applebutter Road and Ringhoffer Road before the inspection, starting at 9:51 a.m. No landfill-related odors were observed. The sight and sound of garbage trucks and equipment working on the landfill were observed. The culvert under Applebutter Road was observed to be carrying the streamflow with no backups. I conducted a driving patrol along Skyline Drive after the inspection, starting at 11:13 a.m. No landfill-related odors were observed. The sight and sound of trucks on the landfill (south face haul road) were observed from the end of Skyline Drive. I conducted a driving patrol through Steel City after the inspection, starting at 11:23 a.m. No landfill-related odors were observed. The faint sound of trucks working on the landfill was

Ms. Leslie Huhn  
Township Manager

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observed. On the driving patrol through the Narrows it was observed that the road immediately downslope of the runoff point from the landfill was clean. No landfill-related issues were observed.

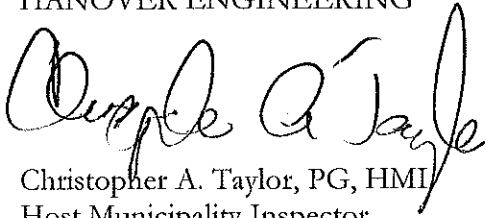
Activity Related to the Southeast Realignment Expansion

20. No expansion construction work is taking place at this time.

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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