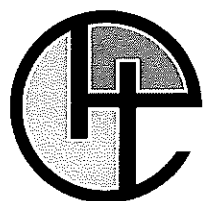


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# Hanover Engineering

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December 11, 2018

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

RE: Inspection Conducted on December 6, 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 Robert McReynolds, Northeast Division Vice President, David Pannucci, Regional Engineer, and Lee Zimmerman. The following items were noted during the inspection:

1. The BRE plant was not running. Mr. Pannucci stated that they had been down since last week. He stated that the "gas meetings" between the landfill and BRE, where gas management is discussed, are still being held.
2. We entered the scale house to inspect trucking slips from Waste Connections' transfer stations. For the 50<sup>th</sup> Street station, one (1) out of nine (9) trucks were overweight. For the Court Street station, zero (0) out of six (6) trucks were overweight.
3. The landfill flare was running at a flow rate of 3,250 scfm and a temperature of 1,640 degrees Fahrenheit and appeared to be operating normally. There were no visible emissions from the flare at the time of the inspection. Mr. Pannucci stated that last week there had been some "flame licking" and slight smoke emissions. He stated that they had SCS investigate, and they found that a well cap had "popped off". He stated that the problem was corrected. The bar graph on the instrument panel indicated that the flare was running at seventy-five percent (75%) of the Variable Frequency Drive (VFD) capacity. The largest blower was in operation. The paper chart was not actively recording.
4. The truck wash was not open due to dry, below freezing conditions.
5. No blowing litter, mud, or odors were observed along Applebutter Road up to Ringhoffer Road, the entrance driveway, or the office parking lot.
6. Wind during the inspection was from the west at 10 to 20 mph. Weather conditions were cloudy, cold, and dry.
7. Garbage was being disposed of in one (1) working face at the top side of Cell SE-1A. The first eight foot (8') "fluff lift" is still being installed. Only Municipal Solid Waste (MSW) is allowed in the fluff lift. One (1) truck was unloading on the tipper and one (1) was waiting to unload. One (1) compactor and one (1) dozer were running at the working face. Wind screens were in place at the working face. Daily cover was staged near the working face. One (1) spotter was positioned at the working face to check for and remove any items that might

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  - Asst. Mgr.
  - Zoning 6
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  - Police 7
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  - EAC
  - Engineer
  - Solicitor
  - Planner
  - Landfill
  - EMC
  - Other

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- damage the liner (since they are placing fluff lift). A working face (garbage) odor was observed near the working face.
8. Soil cover was being added to the east end slope of the landfill.
  9. Two (2) pickers were working on site to remove blown litter.
  10. During the prior inspection I had observed fill being placed on the top of the south face, west end. This area has been seeded, and grass has started to grow.
  11. The north slope road was driven. No additional erosion since the last inspection was observed. The rock-lined drainage swale and rock check dams in front of the runoff points are still in good shape.
  12. The top of the landfill was observed. Mr. Pannucci stated that they are at maximum elevation at the top. Piles of soil are staged on top to dress up the intermediate cover.
  13. Mr. Pannucci stated that there are a few seeps on the south face at the top, and that these will be remediated.
  14. The temporary cap on the south face was observed. No ballooning of the cap was occurring.
  15. The west high wall was observed. No slope failures or major movement of soil or rock since the last inspection was evident.
  16. No odors other than the working face odor were observed on site.
  17. As reported previously, 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. Recycling has also been moved to this new location also. Two (2) dumpsters are placed here for garbage, and one (1) for recycling. The landfill identifies this area as "Zone 1" and has it marked with flags to aid customers in finding it.
  18. I conducted a driving patrol along the intersection of Applebutter Road and Ringhoffer Road before the inspection, starting at 9:54 a.m. No landfill-related odors were observed. The sight and sound of trucks and equipment on the landfill was observed. The sight of the tipper on top of the landfill was observed. 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 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 11:32 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 (dry weather conditions).

Activity Related to the Southeast Realignment Expansion

19. Newly constructed Cell SE-1A has received PA DEP certification and is now actively receiving garbage.
20. Existing gas collection lines in future Cell SE-1B were being moved in preparation for construction of that cell.

Ms. Leslie Huhn  
Township Manager

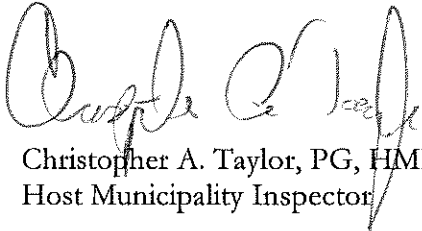
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December 11, 2018

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, appearing to read "Christopher A. Taylor". The signature is fluid and cursive, with a large initial "C" and "T".

Christopher A. Taylor, PG, HMI  
Host Municipality Inspector

cat: llb

S:\Projects\Municipal\LSauconTwp\LS90-07-BethLandfill\Docs\HESI landfill report of Dec 6, 2018 insp.doc