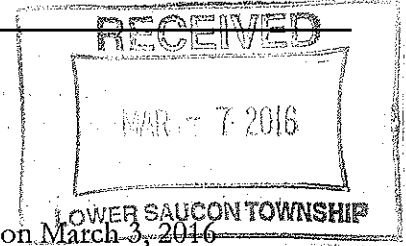


Hanover

Engineering Associates Inc.



March 3, 2016

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

RE: Inspection Conducted on March 3, 2016
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, which was conducted by me along with Mr. Allen Schleyer, District Manager for IESI, Ms. Priscilla deLeon, Township Council liaison, and Ms. Donna Louder, Citizen Representative. The following items were noted during the inspection:

1. The Bethlehem Renewable Energy (BRE) plant was not running.
2. The landfill flare was running at a flow rate of 3,149 Standard Cubic Feet per Minute (SCFM) and a temperature of 1,663 degrees Fahrenheit. The largest blower was observed to be in operation today. The paper chart of flare activity was observed to record back to February 26, 2016 and showed no disruptions in the rate of gas burning from then until the present time. The instrument readout indicated that the flare was running at approximately eighty-four percent (84%) capacity.
3. The truck wash was not in use, due to dry conditions.
4. No mud, odor, or blowing litter was observed along Applebutter Road up to Ringhoffer Road, the entrance driveway, or at the landfill office parking lot.
5. A light, one-time working face (garbage) odor was observed near the LSA water tower, directly above the working face. A slight gas odor was observed near the flare.
6. Neither the northern or southern mister lines were observed to be running during the inspection. These were previously winterized.
7. Wind direction during the inspection was predominantly from the north/northwest (blowing from), with an estimated speed of ten to fifteen miles per hour (10 - 15 mph).
8. Garbage was being disposed of in Cell 4E Stage 3. Two (2) trucks were observed dumping, and none were observed waiting. No windscreens were in place, since the working face is in the bottom of a large depression. This portion of cell filling is within the fluff layer (against the north slope), and therefore special precautions were being taken. A spotter was stationed at the working face to check for and remove any items that may damage the liner. Daily cover soil material was being staged at the working face during the inspection.
9. Cover soil is still being imported. No Alternative Daily Cover material is being used.
10. There were some erosion rills in the western face, but no garbage was exposed. Work to dress the western face had taken place earlier in the day and will be ongoing as weather and site conditions permit.
11. The face of the MSE wall still has some litter stuck in the vegetation. Mr. Schleyer stated that he would schedule pickers to remove it.

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ROUTING

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

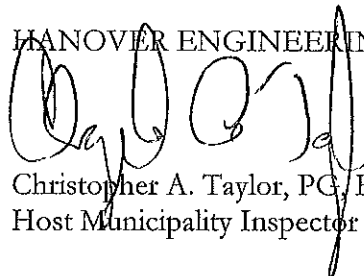
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12. The northern perimeter silt fence is still breached in one (1) location. Mr. Schleyer stated that he will have this repaired.
13. The west high wall was observed. No major changes since the last inspection were evident. No slope failure and no major movement of soil or rock along the wall were observed.
14. The final capping project in the area of Cell 4F is awaiting seeding and mulching of the soil cover when weather and site conditions permit.
15. The work to clean the sediment out of Basin 6 is suspended, pending suitable weather and site conditions.
16. The temporary cap on the southern face has been temporarily stabilized by placement of sandbags and installation of patch welds. Mr. Schleyer stated that the capping crew will be scheduled to inspect and repair the damage to the cap caused by the February 16, 2016 wind storm and to continue the capping project when suitable weather and site conditions exist.
17. Following the inspection, I conducted a driving patrol along Skyline Drive, beginning at 12:34 PM. No landfill-related odors were observed during this inspection.
18. In driving toward Steel City, I did not observe any odors attributable to the Bethlehem sewage treatment plant, either along Applebutter Road or Shimersville Road. Such odors had been reported in the most recent Department of Environmental Protection (DEP) inspection report.
19. I conducted a driving patrol through Steel City starting at 12:45 PM. No landfill-related odors or sounds were observed. Likewise, no odors related to burning were observed. Such odors had been reported in the most recent DEP inspection report. This patrol did not extend through the Narrows, where Riverside Drive is still closed for road repairs. However, I conducted a walking inspection to the point on Riverside Drive where washouts had previously occurred due to runoff from the north slope of the landfill. The purpose was to assess if another washout had occurred due to the heavy rainstorm on February 24, 2016. The roadbed at this location had minor amounts of gravel, sediment, and leaves that appeared to be "fresh". In my opinion, the repair of the roadside swale and cross-pipe at this location would probably have handled the flow of water and prevented this small washout.

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 ASSOCIATES, INC.



Christopher A. Taylor, PG/HMI
Host Municipality Inspector

cat:cat/dad

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