

Hanover

Engineering Associates Inc

August 24, 2015



Mr. Jack Cahalan, Manager
Lower Saucon Township
3700 Old Philadelphia Pike
Bethlehem, PA 18015

RE: Inspection Conducted August 20, 2015
IESI Bethlehem Landfill
Hanover Project LS90-7

Dear Mr. Cahalan:

The purpose of this letter is to report the results of the above-referenced "pre-meeting" inspection, which was conducted by me along with Allen Schleyer, District Manager for IESI, Priscilla deLeon, Council Liaison and Donna Louder, Citizen Representative. The following items were noted during the inspection:

1. The Bethlehem Renewable Energy (BRE) plant was **not** running. Mr. Schleyer indicated BRE went down in the afternoon on August 19, 2015 for unknown reasons.
2. The landfill flare was running at a flow rate of 3,494 SCFM and a temperature of 1,660 degrees Fahrenheit. The largest blower was in operation.
3. The truck wash was not in use due to dry conditions.
4. No blowing litter, mud, or odors were observed along Applebutter Road or at the entrance driveway to the landfill.
5. Landfill related odors were not observed in the parking area at the landfill office. Slight intermittent garbage odors, interchanging with a moderate grape odor, were detected along the access drive at the bottom of the MSE wall and near the LSA water tower.
6. The northern mister line was operating during the inspection. Wind direction was primarily south southeast (blowing from) at an estimated speed of 15-25 mph. The southern mister line was not in operation during the inspection.
7. No blowing litter was observed throughout the inspection. Windscreens were in place near the working face. Garbage pickers were observed cleaning litter from the rock-lined stormwater channel due north of the entrance driveway.
8. A Lower Saucon Township Police Officer was observed in the office parking area.
9. Water trucks were observed on site spraying traffic routes for dust suppression.
10. Garbage was being disposed primarily in Cell 4B, near the interface with Cell 4D. One (1) truck was dumping a load of contaminated soil previously approved through the Form U process. No trucks were waiting and the truck tipper was not in use.
11. Cover soil is still being imported and stockpiled on site. Per Mr. Schleyer, no Alternative Daily Cover material is being used.
12. Liner material was observed staged on site for the final capping of approximately 2.5 acres, south and west of the maintenance building. The area of capping covers small portions of cells 4F, 4B and 4A and ties into the existing capped area of Cell 3D. This work is expected to commence in the very near future.
13. Work to construct new Cell 4E Stage 3 was ongoing at the time of inspection. Soil and aggregate material for the construction of this cell were observed stockpiled on

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- Other

- site. Mr. Schleyer indicated a target completion date of October/November 2015 for this new cell. Slight, intermittent diesel exhaust odors were detected while observing the area of construction.
14. Vegetation continues to struggle to provide stabilization in the areas of intermediate cover near the "shoulder" where the southern and western faces meet. Vegetation is estimated to be approximately 25% established. IESI has submitted a Minor Permit Modification for temporary capping in this area.
 15. The west high wall was observed. No major changes were evident. No slope failures and no major movement of soil or rock along the wall were observed.
 16. No additional work has been performed to clean out the channel at the bottom of the west high wall.
 17. The channel at the bottom of the southern face still needs to be cleaned out and reformed. Additionally, the stormwater inlet near Pump Station 3 has significant silt buildup around the cage. Garbage was observed mixed with the silt obstructing the inlet. Mr. Schleyer stated they would continue to rework the channel toward the west and clean out the inlet.
 18. A few erosion rills were observed on the western portion of the unstabilized south face, above Pump Station 3. No garbage was visible through the channels. Mr. Schleyer stated he would have a crew repair these areas.
 19. Minor ponding of stormwater was observed on the benches in the area described above. Mr. Schleyer indicated he continues to work with his crews to keep these areas properly graded.
 20. The north slope road was not inspected at this time, however Mr. Schleyer offered that no further grading work has taken place since Mr. Taylor's July 17, 2015 inspection. Mr. Schleyer ensured the inspection team the access road would be repaired and navigable by passenger vehicle prior to the Third Quarter Groundwater Sampling Event that is scheduled for mid-September.
 21. An odor patrol along Riverside Drive and through Steel City began at 12:05 pm. Slight intermittent garbage and grape odors were observed while parked for several minutes at the entrance to the Freemansburg Motorcycle Hill Climb. Wind direction varied while patrolling this area, from SSE to NNE. The detection of landfill related odors corresponded with wind direction.
 22. Construction equipment was audible while parked and outside my vehicle at the entrance to the Hill Climb. Diesel engines, at least one (1) back-up alarm, and a banging sound from the tailgate of a dump truck striking the truck body was heard. As above, the detection of landfill related construction noises varied with wind direction.

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.



Jacob A. Schray
Host Municipality Inspector