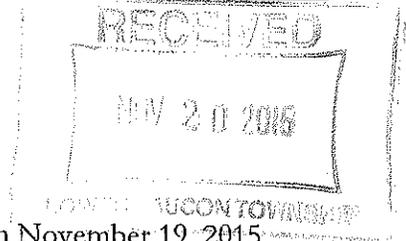


Hanover

Engineering Associates Inc

November 19, 2015



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

RE: Inspection Conducted on November 19, 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 Mr. Allen Schleyer, District Manager for IESI, 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 3,070 Standard Cubic Feet per Minute (SCFM) and a temperature of 1,660 degrees Fahrenheit. The largest blower was observed to be in operation today. Mr. Schleyer stated that the flare has been able to keep up with the increased gas flow since the BRE plant has been down. He previously stated that he has been "exercising" the two (2) smaller blowers to make sure they are in working order.
3. The truck wash was not in use, due to dry conditions (rain began to fall at the end of the inspection).
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. The parking lot does have some sediment on it.
5. A slight, intermittent landfill gas odor was observed at the top of the landfill during the inspection.
6. Both the northern and southern mister lines were observed to be running during the inspection. The "grape" smell from the solution used for odor suppression was not readily observed.
7. Wind direction during the inspection was predominantly from the southeast to south (blowing from), with an estimated speed of ten to twenty miles per hour (10-20 mph).
8. Garbage was being disposed of in Cell 4D, at the top of the landfill. Wind screens were in place at the working face. The truck tipper was staged away from the working face and was not actively being used. One (1) truck was dumping, none waiting.
9. Cover soil is still being imported. No Alternative Daily Cover material is being used.
10. Work to construct new Cell 4E Stage 3 is currently proceeding. Crushed stone is being installed over the previously-completed secondary liner.
11. The erosion rills observed on the western face during the previous inspection have been dressed up.

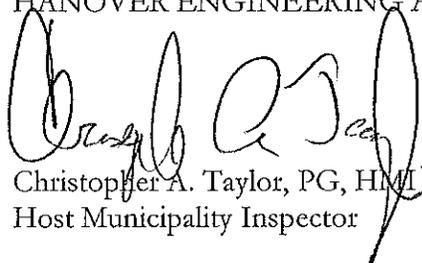
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- ROUTING
- Council
 - Manager
 - Asst. Mgr.
 - Zoning
 - Finance
 - Police
 - P. Works
 - P/C
 - P & R
 - EAC
 - Engineer
 - Solicitor
 - Planner
 - Landfill
 - EMC
 - Other
- Web

12. Pickers were observed working to remove garbage from the face of the MSE wall.
13. The west high wall was observed. No major changes since the last inspection were evident. No slope failures and no major movement of soil or rock along the wall were observed. Sediment in the stormwater channel at the base of the wall (washed in from upstream) has not yet been cleaned out. An erosion channel between the stormwater channel and the adjacent liner anchor trench observed during the previous inspection has been repaired.
14. Final capping in the area of Cell 4F is progressing. The synthetic cap has been placed and is being welded to the adjacent permanent cap to the east. Boots and welds are also being provided at all riser locations. The next step will be to install soil, which is being stockpiled on site for this purpose.
15. The temporary capping project is now underway. Mr. Schleyer stated that he decided to call in another capping crew to conduct this work, rather than wait for the crew working on the permanent cap to finish. The work currently being performed involves placing, grading, and compacting soil in the areas to receive temporary capping to provide a smooth, stable subbase for the cap. This work is being done on the bottom three (3) benches on the south face, starting at the existing permanent cap to the east. Mr. Schleyer stated that the temporary cap will be welded to the adjacent permanent cap to the east to provide a complete seal. Boots and welds will be provided at all risers also.
16. Mr. Schleyer stated that additional work has been performed on the north slope road to keep it fully passable.
17. The work to clean the sediment out of Basin 6 is still ongoing, pending suitable weather and site conditions.
18. Following the inspection, I conducted a driving patrol along Skyline Drive, beginning at 11:43AM. No landfill-related odors were observed during this inspection.
19. I conducted a driving patrol through Steel City starting at 11:53AM. No landfill-related odors or sounds were observed. This patrol did not extend through the Narrows, where Riverside Drive is still closed for road repairs.

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, HML
Host Municipality Inspector

cat:cat/dad

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