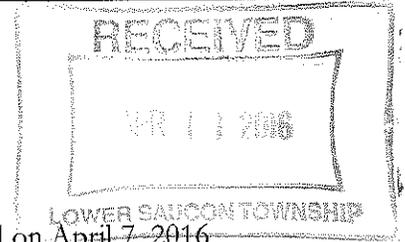


Hanover

Engineering Associates Inc

April 8, 2016



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

RE: Inspection Conducted on April 7, 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 2,700 Standard Cubic Feet per Minute (SCFM) and a temperature of 1,659 degrees Fahrenheit. Mr. Schleyer reported that the largest blower had developed a mechanical problem which required taking it off line to repair. It was observed that the blower unit had been removed and was sitting on the ground, waiting to be loaded onto a truck to be taken for repair. Mr. Schleyer reported that the problem, a worn bearing, was the cause of the "humming noise" recently reported by a nearby resident. The two (2) smaller blowers were observed to be in operation simultaneously today. The paper chart of flare activity was recently changed and showed only a few hours of history. The instrument readout indicated that the flare was running at one hundred percent (100%) capacity, reflecting the lower capacity of the smaller blowers in comparison with the larger blower. Gas flow to where the larger blower had been was shut off by both closing valves and by installing blind flanges over the ends of the pipes. No landfill gas odor was observed at the flare.
3. The truck wash was not yet in use, as rain had just started to fall.
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. Moderate to strong intermittent landfill gas odors were observed near the LSA water tower, directly above the working face. No odors were observed anywhere else on the property.
6. Neither the northern or southern mister lines were observed to be running during the inspection. These were previously winterized.
7. Wind during the inspection was estimated at ten to twenty (10 - 20) miles per hour, from the south/east.
8. Garbage was being disposed of in Cell 4E Stage 3. Two (2) trucks were observed dumping, and none were observed waiting. Windscreens were in place. A box wire fence meant to catch blowing litter has also been installed at the top of the north slope, starting at the western end of the MSE wall and running westward for several

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ROUTING

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- Planner
- Landfill
- ENIC
- Other

Orig

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- hundred feet. This portion of cell filling is not within the fluff layer (it is away from the north slope) and, therefore, no special precautions were being taken. 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. Soil for use as cover and in construction was previously stockpiled on site.
 10. Work to dress the western face has been completed. Also, less of the western face is now exposed due to the filling of Cell 4E-3.
 11. The face of the MSE wall still has a lot of litter stuck in the vegetation. Pickers were observed working to remove it during the inspection.
 12. Workers were observed installing a riprap stormwater channel on the north face to connect the gabion down-channel to the large swale that carries stormwater to the south side of the facility.
 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 top soiling, 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 inspected for damage caused by the February 16, 2016 wind storm and has been "stretched" back into place. "Wind defender" material (easily recognizable by its green color) has been installed over the cap material. Soil has been installed over this on the bottom three (3) benches. Installation of soil along the cap edges was observed during this inspection. A small area in the northeast section has yet to have temporary cap installed and sealed to the adjacent permanent cap. Mr. Schleyer stated that the gas collection system under the cap is not yet connected and drawing gas.
 17. Prior to the inspection, I conducted a driving patrol through Steel City, beginning at 9:58 AM. I combined this with a response to a noise complaint from a resident, who requested that I visit their property to make observations. From their property at the corner of Johnston and Fritz, I observed several sounds coming from the landfill, including backup/travel alarms, several successive loud bangs, "tailgate slapping" as is typical of dump trucks, and equipment running. The complainant stated that these sounds started in the early morning, and peaked between 7:30 AM and 8:00 AM. After leaving the complainant's property to continue the driving patrol, similar sounds were also observed at the entrance to the Hill Climb.
 18. Following the inspection, I conducted a driving patrol along the intersection of Applebutter Road and Ringhoffer Road, starting at 11:37 AM. The sound of trucks on the landfill access road was observed. No sounds from the flare, and no landfill-related odors, were observed. I conducted a driving patrol along Skyline Drive starting at 11:43 AM. No landfill-related odors or sounds were observed.

Ms. Leslie Huhn, Township Manager
Lower Saucon Township

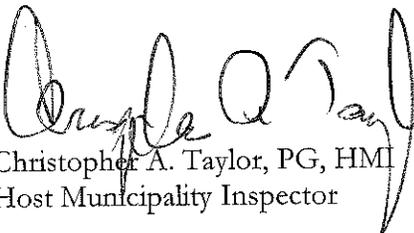
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April 8, 2016

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

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