

# Hanover

Engineering Associates Inc

MAY 13 2014

May 12, 2014

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

RE: Inspection Conducted on May 9, 2014 at  
IESI Bethlehem Landfill  
Hanover Project LS90-7

Dear Mr. Cahalan:

The purpose of this letter is to report the results of the above-referenced "mid-meeting" inspection, which was conducted by me along with Allen Schleyer, Compliance Manager for IESI. The following items were noted during the inspection:

1. The Bethlehem Renewable Energy (BRE) plant was running.
2. The landfill flare was running at a flow rate of 1,100 Standard Cubic Feet per Minute (SCFM) and a temperature of 1677 degrees Fahrenheit. This relatively low flow rate indicates that the BRE plant is taking the majority of the landfill gas.
3. The truck wash was not in use due to dry conditions.
4. No mud, odors, or blowing litter were observed along Applebutter Road, the entrance driveway, or at the landfill office.
5. No blowing litter was observed within the landfill. No litter was observed in the trees within the perimeter fence. Windscreens were in use at the working face. Wind direction during the inspection was from the south to southwest (blowing from), with an estimated speed of five to ten miles per hour (5-10 mph).
6. Garbage was being disposed of in Cell 4E Stage 2 at the interface with Stage 1. Two (2) trucks were off-loading and one (1) truck was waiting. No truck tipper was in use or on site – trucks are being unloaded conventionally.
7. Soil for daily cover material was being trucked in from off-site and stockpiled at the working face during the inspection. All cover soil currently being used is being imported. No Alternative Daily Cover material is being used. No excavation work was taking place at the north end of Cell 4E to generate cover material.
8. The area of new final capping on the south face has been "tracked over" and hydro-seeded.
9. The west high wall was observed and appears to be substantially unchanged since the last inspection. No major slope failures along the wall were observed. Mr. Schleyer stated that he knows that he still needs to clean out the stormwater rip-rap channel at the bottom of the wall.
10. Mr. Schleyer reported that several areas of leachate seeps have occurred due to the heavy rainfall last week. These are located at the base of the west face and on the lower third of the south face, toward the west end. I observed repair work being conducted on one (1) of the south face seeps, and observed previous areas of seep repair on the south face and west face (evidenced by fresh clay soil on the surface).
11. Mr. Schleyer reports that all of the new gas wells are hooked in to the collection system.

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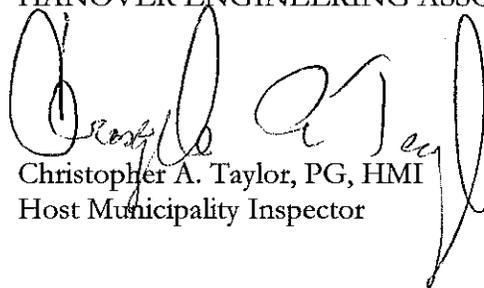
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12. A slight, intermittent garbage odor was observed on the northern perimeter access road between the western end of the MSE wall and the Lower Saucon Authority (LSA) water tower. The wind was still blowing from the south at that time, so it was blowing across the working face toward these locations.
13. Workers were observed installing wooden supports along the north perimeter fence for a spray tube that will be part of an odor abatement system. Mr. Schleyer reported that a solution of water and an odor control liquid will be pumped through the tube and released to the air through small spray holes in the tube. The objective is to eliminate or reduce odors leaving the site across this boundary.
14. At 2:12PM, Mr. Schleyer received a message from his office that an odor complaint had just been called in by Ms. Priscilla deLeon, who reported observing a landfill gas odor while driving on Riverside Drive, just east of the entrance to the Hill Climb. At this time, this inspector was at the LSA water tower, essentially due south and directly upwind of the location where Ms. deLeon made her observation. No gas odor was observed by this inspector at this time, or at any other time during the inspection. (A slight garbage odor was detected, as reported in Item 12 above.) Mr. Schleyer dispatched Mike Sheldon to conduct an odor patrol along Riverside Drive. At 2:39, Mr. Sheldon called Mr. Schleyer to report that he was at the entrance to the Hill Climb and did not detect any landfill-related odors. Mr. Schleyer instructed him to conduct an odor patrol through the narrows. Mr. Sheldon subsequently reported to Mr. Schleyer that he detected no landfill-related odors in the narrows.
15. This inspector conducted an odor patrol through Steel City, beginning at 2:52PM, at the entrance to the Hill Climb at 3:03PM, and at "Gate 4" for the Steel City shooting range at 3:06PM. No landfill-related odors or sounds were observed at any of these locations.

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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