

Hanover

Engineering Associates Inc

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JUN 22 2016
LOWER SAUCON TOWNSHIP

June 20, 2016

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

RE: Inspection Conducted on June 16, 2016
Waste Connections Bethlehem Landfill
Hanover Project LS90-7

Dear Ms. Huhn:

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. Nick Rogers, Compliance Manager for Waste Connections, Ms. Priscilla deLeon, Township Council liaison, and Ms. Donna Louder, Citizen Representative. Overall, the landfill was found to be in satisfactory condition and it was noted that the new owner appears to be taking an active role in the facility's operation. 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 3,250 Standard Cubic Feet per Minute (SCFM) and a temperature of 1,650 degrees Fahrenheit. The largest blower was observed to be in operation. The instrument readout indicated that the largest blower was running at approximately eighty-six percent (86%) capacity. The paper chart record showed some fluctuation in gas flow over the last week. Mr. Rogers explained that this was due to "well field maintenance."
3. The combustion capacity of the flare is calculated as 3,250 SCFM divided by 4,000 SCFM, or 81%. Mr. Rogers indicated this capability is independent of the blower motor capacity mentioned above.
4. The truck wash was in use due to slightly muddy conditions caused by rain in the last 24 hours.
5. No mud, odor or blowing litter were observed along Applebutter Road up to Ringhoffer Road, the entrance driveway, or at the landfill office parking lot. The internal access road was mostly clear of sediment.
6. Upon arrival at the landfill, the office parking lot was observed to be over full. This condition continued throughout the inspection, which caused vehicles to be "parked in" and unable to exit. It should be noted, three (3) of the vehicles contributing to this condition were on site due to this inspection.
7. Both the northern and southern mister lines were observed to be operating during the inspection. The southern mister line is still operated by an automatic timer, while the northern line is now run continuously.
8. Wind during the inspection was estimated at two to five (2-5) miles per hour, blowing from the south southeast.
9. Garbage was being disposed of in Cell 4E Stage 3. One (1) truck was observed dumping, and none were waiting. Windscreens were staged near the working face, however were not in use due to calm conditions. A strong intermittent working face

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ROUTING
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 P. Works
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 Landfill
 EMC
 Other
W

- (garbage) odor was observed between the water tower and west end of the MSE wall during the entire inspection of the working face.
10. An unusually high number of vultures were observed throughout the course of the inspection. A particularly high concentration of vultures (approximately 50-60) were observed near the working face.
 11. Mr. Rogers stated that the truck tipper had been removed from the site and would likely not be returning to the Bethlehem facility.
 12. Cover soil is still being imported. No Alternative Daily Cover material is being used. Soil for use as cover is being stockpiled on site.
 13. The face of the MSE wall remains clean.
 14. When questioned about the status and accessibility of the north slope road, Mr. Rogers indicated he had checked it last week, and found it to be fully accessible at that time.
 15. Construction materials for the extension of the MSE wall to the west are being stockpiled on site, including fine aggregate which is hauled in tri-axle truckloads.
 16. The west high wall was observed. No slope failures or major movement of soil or rock since the last inspection was evident.
 17. The work to clean the sediment out of Basin 6 has been completed. There have been no changes in the condition of Basin 6 since the last inspection.
 18. Work to clean out Basin 3 has begun, however the sediment is too wet and will need to dry out considerably before the excavator can work effectively.
 19. The temporary cap on the south face showed no signs of inflation.
 20. Mr. Rogers stated that planning for the construction of new gas extraction wells is still underway.
 21. Following the inspection, I conducted a driving patrol between the landfill entrance and the intersection of Applebutter Road and Ringhoffer Road, starting at 12:06 PM. No sounds from the flare, and no landfill-related odors were observed. I proceeded to conduct a driving patrol along Skyline Drive starting at 12:12 PM. The sound of garbage trucks ascending the southern access road was observed and the grape odor from the southern mister line was moderate and consistent at the end of Skyline Drive. I began a driving inspection through Steel City at 12:26 PM. No landfill-related odors or sounds were observed. Six (6) vultures were observed at the base of the hill climb. This inspection concluded at 12:43 PM.

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