



March 29, 2018

Chrin Brothers Sanitary Landfill
c/o Mr. Greg Chrin
1225 Industrial Drive
Easton, PA 18042

Re: Engineer's Monthly Status Report
Chrin Brothers Sanitary Landfill
Williams Township, Northampton County
Permit No. 100022



*Mark
Mike b.
Ray
Rick
Jen
LAC*

Dear Mr. Chrin:

This Engineer's Status Report is for the month of February. Our monthly meeting was held at the Chrin offices on Tuesday, March 27. The Department's Environmental Trainee, Teresa Cirnic, from the Bethlehem District Office, also attended the meeting for training purposes. This report is informational only, without deadlines, and a response is required only if objections are taken to the items mentioned.

A. Pending Permit Applications:

1. A minor permit modification for the reconstruction of Stage 3E is pending. A response (Addendum No. 2) to the Department's list of questions regarding the Stage 3E redesign was received on March 12 and is under review.
2. A major permit modification for the eastern site expansion was received on November 9, 2015, and is under EAP review. Earth Res Group submitted the technical response to the 2nd EAP review letter for Chrin on December 29, 2017.

B. Construction Schedule:

1. Working face is currently in Stage 8. In addition, the landfill is accepting household MSW (special waste only) in Stage 3D. Average amount of waste accepted is currently approximately 700 to 750 tons/day.

C. Groundwater:

1. The monitoring plan includes 18 groundwater wells and 3 abatement wells.
2. Quarterly groundwater sampling for 1Q was conducted in January. The next round for 2Q will be conducted in April.

D. Gas Management:

1. On the morning of our meeting, Flare 3 flow rate was at approximately 1450 scfm and EPP (formerly PPL) flow was 450 scfm due to one unit being down. EPP flow went back up to 900 scfm once the unit returned to service, with the corresponding decrease in flow to Flare 3. Flares 1 and 4 were not operating.

2. Gas branch and header line upgrades are ongoing. Eight new wells were drilled in January.
3. There are currently 153 vertical wells, 16 horizontal collectors, and 50 leachate cleanouts/perimeter drains.

E. Leachate Management:

1. Total leachate flow from the landfill was 1,286,279 gallons for February, and average daily flow was 45,939 gallons/day. All of the leachate flowed directly to the local wastewater treatment plant.
2. Leachate seep mitigation activities are ongoing due to the freeze-thaw cycles this winter. We observed seep repairs during our drive around the landfill after the meeting. Misterters were running nearby during this work.

F. Site Observations:

1. Litter – No issues observed.
2. Odor – A light gas odor was observed on the lower landfill access road and Industrial Drive during the time of my visit. This was likely due to leachate seep repairs taking place near/above Stage 8 at that time. Misterters were running on the perimeter of the landfill.
3. Daily cover – No issues observed.
4. Intermediate cover – No issues observed.
5. Stormwater Controls – No issues observed.
6. Waste Removal Operations – Complete.

G. Miscellaneous:

Enclosed as part of this report is Chrin's Engineer's Report Summary for February, which includes site operations, radiation monitoring, truck safety and overweights, leachate management/storage, and report submittals.

If you have any questions or comments concerning this report, please contact me at (570) 826-2064.

Sincerely,



Susan E. French
Waste Management Program

Enclosure

cc: Tom McMonigle, P.E., Chrin Landfill (w/enclosure)
Jan Hutwelker, P.E., EarthRes Group (w/enclosure)
Ms. Jennifer Smethers, Williams Township Manager (w/enclosure)
Mr. Rich Adams, Williams Township (w/enclosure)
Mr. Ronald Madison, Maser Consulting P.A. (w/enclosure)



**CHRIN BROTHERS SANITARY LANDFILL
ENGINEER'S REPORT SUMMARY
For February 2018**

Date: March 27, 2018

1. Site Operations:

a. Average Daily Permitted Volume	<u>1500 Tons</u>	Tons
b. Maximum Daily Permitted Volume	<u>2000 Tons</u>	Tons
c. Permitted Area	<u>108</u>	Acres
d. Permitted Disposal Area	<u>73</u>	Acres
e. Number of Capped Acres	<u>26.4</u>	Acres
f. Number of Temporary Capped Acres	<u>24.5¹</u>	Acres
g. Number of Acres Constructed	<u>71.09²</u>	Acres

2. Radiation Monitoring:

a. Number of Trucks that Tripped the Radiation Meter	<u>0</u>
b. Number of Trucks on Hold or Rejected	<u>0</u>

3. Truck Safety & Overweight's:

a. Number of Overweight Trucks	<u>5</u>
b. Number of Trucks Rejected Due to Overweight	<u>0</u>

4. Leachate Management:

a. Total Leachate Flow from Combination Sumps/Gravity	<u>1,286,279</u>	Gallons
b. Depth Levels	<u>Normal</u>	
c. Leachate Detection/Witness Zone Flow:		
i. WZ5	<u>10.1</u>	g/a/d
ii. WZ6	<u>NA</u>	g/a/d
d. Average Daily Flow	<u>45,939</u>	Gallons/Day
e. Leachate Hauled Off Site	<u>0</u>	Gallons

5. Leachate Storage:

a. Total Influent Storage Capacity	<u>1,306,000</u>	Gallons
b. 25% Influent Storage Capacity	<u>326,500</u>	Gallons
c. Current Wastewater Stored	<u>6.2</u> ft. = <u>124,000</u>	Gallons

6. Reports Submitted

a. Quarterly Progress Report	<u>Q4 2017 report submitted on January 10, 2018</u>
b. Groundwater Treatment Monthly Report	<u>3/1/2018</u>

¹ This includes 18 acres of temporary cap, 4.8 of which were installed in December, and approximately 6.5 acres of raintarp.

² This includes Stage 6-2's 0.6 acres installed in December.

