

September 20, 2016

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
Ray
George
Rych
Rox
Jew
LTC

Dear Mr. Chrin:

This Engineer's Status Report is for the month of August. This report is informational only, without deadlines, and a response is required only if objections are taken to the items mentioned. Our monthly meeting was held at the Chrin offices on Thursday, September 15.

A. Pending Permit Applications:

1. A minor permit modification was received on September 30, 2014, to reconstruct Stages 3D and 3E and is under review.
2. A major permit modification for the eastern site expansion was received on November 9, 2015 and is under review.

B. Construction Schedule:

1. Working face is currently in Stages 4 and 5, Cells E1 to E6, and Stage 8, Increment 3. Average amount of waste accepted is approximately 750 to 800 tons/day.
2. Prep work on the MSE berm at Stage 8, Increment 4 is continuing. Wall subgrade and structural fill are completed. Bearing capacity tests on the area were completed this week. Placement of lifts will begin soon; completion of Increment 4 is planned for the end of November to early December.

C. Groundwater:

1. The monitoring plan includes 18 groundwater wells and 3 abatement wells.

D. Gas Management:

1. At the time of our meeting, Flare 3 was operating at 1056 scfm. Flares 1 and 4 were not operating. Flow to PPL was 1025 scfm.
2. There are currently 145 vertical wells, 16 horizontal collectors, and 50 leachate cleanouts/perimeter drains.
3. DEP Air Quality conducted an inspection of the well field on July 28. Followup action items have been completed.

E. Leachate Management:

1. Total leachate flow from the landfill was 1,492,654 gallons for August, and average daily flow was 48,150 gallons/day. All of the leachate flowed directly to the local wastewater treatment plant.

2. The PS-6 secondary flow, from the witness zone pump, was 257,849 gallons for August. Approximately 46,767 gallons of leachate were pumped in August from the three vertical pumps (PS-6R).
3. All flows from PS-6 and PS-6R went to PS-1.

F. Site Observations:

1. Litter – No issues observed.
2. Odor – No issues observed.
3. Daily cover – No issues observed.
4. Intermediate cover – No issues observed.
5. Posi-Shell[®] Areas – No issues observed.
6. Stormwater Controls – No issues observed.
7. Waste Removal Operations – Work continues in the slide area. An inclinometer was installed this week on the slide per DEP's request. Pace of waste removal is about 1,200 to 1,400 CY/day. Two excavators and five trucks were being used during the time of my visit. The bottom of the slope/Stage 3D is now partly visible. Waste from the slide area is being disposed in Stage 8. Approximate total waste excavation/ relocation figures in the slide area as of the August 31 topographic survey are:
 - Phase I – Approximately 121,100 CY (100%+ complete)
 - Phase II – Approximately 41,141 CY (96% complete)(no change)
 - Phase III – Approximately 217,000 CY (97% complete)(no change)
 - Phase IV – Approximately 50,760 CY (96% complete)(no change)
 - Phase V – Approximately 174,742 CY (50% complete)

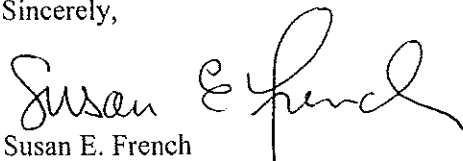
For August, about 31,538 CY were removed from Phase I and V areas, above their target volumes of 12,000 to 19,000 CY/month.

G. Miscellaneous:

Enclosed as part of this report is the monthly Engineer's Report Summary from Chrin Landfill for August, which includes site operations, radiation monitoring, truck safety, leachate management, 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 August 2016**

Date: September 15, 2016

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>29</u>
b. Number of Trucks Rejected Due to Overweight	<u>0</u>

4. Leachate Management:

a. Total Leachate Flow from Combination Sumps/Gravity	<u>1,492,654</u>	Gallons
b. Depth Levels	<u>Normal</u>	
c. Leachate Detection/Witness Zone Flow:		
i. WZ5	<u>12.5</u>	g/a/d
ii. WZ6	<u>NA</u>	g/a/d
d. Average Daily Flow	<u>48,150</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>8.8</u> ft. = <u>176,000</u>	Gallons

6. Reports Submitted

a. Quarterly Progress Report	<u>Q2 2016 report submitted on July 18, 2016</u>
b. Groundwater Treatment Monthly Report	<u>9/1/2016</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.

