



August 27, 2013



Mr. Greg Chrin
Chrin Brothers Sanitary Landfill, Inc.
635 Industrial Drive
Easton, PA 18042

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

Dear Mr. Chrin:

This Engineer's Status Report is for the month of July. 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, August 15, 2013.

A. Pending Permit Applications:

1. A minor permit modification for groundwater monitoring well changes was received on June 14 and is under review.

B. Construction Schedule:

1. Working face is currently in Stages 6 and 7. Average amount of waste accepted is approximately 600 tons/day. Waste from the excavation of the Stage 3D/3E slide area is being mixed with incoming waste for disposal.
2. Chrin's request for an emergency relocation of the scales was discussed at the Williams Township Supervisors Meeting on August 14. At this meeting it was decided that the Board of Supervisors will prepare a resolution with conditions for the Temporary Scale land development waiver and vote on it at the September 11 meeting.
3. As of the date of our meeting, the MSE berm for Stage 8 was nearly complete.
4. Stage 7, Lift 4 construction began on July 8. Liner work is expected to be done in early September.

C. Groundwater:

1. Monitoring plan includes 18 groundwater wells and 3 abatement wells; however, MW-1 and DM-2 are located within the Stage 3D/3E slide area. MW-1 will need to be repaired due to some material that sloughed off the cap on July 26 and covered the well during excavation of the adjacent stormwater inlets related to the leachate seep investigation.

D. Gas Management:

1. As of the date of our meeting, Flare 1 (candlestick) was operating at 183 scfm and 26.6% methane at 887°F. Flare 3 was at 860 scfm and 45.0% methane at 1677°F. Flow to PPL was 1236 scfm at 43.4% methane.
2. Gas well system field maintenance was conducted the week of August 5.

E. Leachate Management:

1. Total leachate flow was 1,462,730 gallons for July, and average daily flow was 47,185 gallons/day. All of the leachate flowed directly to the local wastewater treatment plant. The figures are higher for this period due to PS-6 being put back into service on July 8 (see item 4 below).
2. Pump Stations 1 and 5 are fully operational. PS-6R, a leachate extraction well, was installed to replace Pump Station 6. PS-6R has three vertical sumps (#1, #2, and #3). As of August 8, a total of approximately 256,979 gallons of leachate has been pumped from PS-6R and sent to the local waste treatment plant.
3. A leachate interceptor riser pipe/interceptor pump in Stage 3E, Phase II was installed on May 21, to determine if leachate from outside the slide area is migrating to the slide area. Levels are being monitored daily. No accumulation of liquid or increased flow has been noted to date.
4. PS-6 pump and risers were found in the slide area on July 3. The pump was piped to PS-1 on July 8 and is operational. As of August 8, approximately 578,489 gallons of leachate have been pumped to PS-1 from the recovered PS-6 riser.
5. The total amount of leachate pumped from PS-6 and PS-6R since the March 12 slide is approximately 835,468 gallons.

F. Site Observations:

1. Litter – No issues observed.
2. Odor – No offsite odors were detected in a drive around the perimeter of the site prior to this meeting.
3. Daily cover – No issues observed.
4. Intermediate cover – No issues observed.
5. Posi-Shell Areas – Posi-Shell is being sprayed on the excavation area at the end of daily operations to contain potential odors. It has also been sprayed

on the top slope above the excavation area, and in the area of the slide adjacent to Industrial Drive periodically. No issues observed.

6. Industrial Drive – Remains closed. No additional movement in the area has been detected since the slide of March 12. If the current excavation schedule holds, Industrial Drive may reopen in mid-October.
7. Waste Removal Operations – As of August 17, approximately 106,399 cu. yds. of waste had been excavated from the Phase I area. At current removal rates (about 1,000 cu. yds./day, 5.5 days/week), Chrin anticipates completing this phase in late August. Liner sampling is being conducted the week of August 19.
8. Stormwater Controls – The seepage of leachate into the western end of stormwater basin #2 has ceased, following the repair of a damaged drain pipe in an anchor trench that was uncovered on August 13. It appears that this was the source of the leachate seep into basin #2. The pipe repair was completed August 14.

G. Miscellaneous:

Enclosed as part of this Report is the monthly Engineer's Report Summary from Chrin Landfill for July, 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
Environmental Engineer
Waste Management Program

Enclosure

- cc: Jan Hutwelker, P.E., EarthRes Group (w/enclosure)
Ms. Jennifer Smethers, Williams Township Manager (w/enclosure)
Mr. Rich Adams, Williams Township (w/enclosure)
Mr. Timothy Edinger, T&M Associates (w/enclosure)



CHRIN BROTHERS, INC.

**CHRIN BROTHERS SANITARY LANDFILL
ENGINEER'S REPORT SUMMARY
For July 2013**

Date: August 15, 2013

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>50</u>
b. Number of Trucks Rejected Due to Overweight	<u>0</u>

4. Leachate Management:

a. Total Leachate Flow from Combination Sumps/Gravity	<u>1462730³</u>	Gallons
b. Depth Levels	<u>Normal</u>	
c. Leachate Detection/Witness Zone Flow:		
i. WZ5	<u>5.2</u>	g/a/d
ii. WZ6	<u>NA</u>	g/a/d
d. Average Daily Flow	<u>47,185</u>	Gallons/Day
e. Leachate Hauled Off Site	<u>0</u>	Gallons

5. Lechate 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>0</u>	Gallons

6. Reports Submitted

a. Quarterly Progress Report	<u>7/17/2013</u>
b. Groundwater Treatment Monthly Report	<u>8/1/2013</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.

³ PS-6 pump / risers were found in the slide area. The pump is operational. This added extra flow to the month as Chrin pumped down to normal levels.