

## IESI Bethlehem Landfill Committee Meeting Minutes

Date: Thursday, June 19, 2014  
Time: 1:00 PM  
Location: Lower Saucon Township Council Meeting Room  
Attendance: Hazem Hijazi, Landfill Committee Member; Al Schleyer, IESI; Chris Taylor, Hanover Engineering, Host Municipal Inspector; Priscilla deLeon, Council Liaison; Absent – Donna Louder

Mr. Schleyer reviewed the monthly tonnages for the month of May.

Mr. Schleyer reviewed the Form U Submittals, Annual Groundwater Trend Analysis. He also reviewed the correspondence and reports for the month of May including Form U Applications to LST, Abatement System report and 1Q14 Groundwater report.

Mr. Schleyer said reviewed the DEP Inspections from May 8, 2014 through June 18, 2014.

Mrs. deLeon asked about the reports for inspection. Mr. Taylor answered and said one or so, he doesn't know if he has gotten a report for each inspection. Mr. Schleyer said some of it as far as an odor complaint didn't trigger a full inspection report from the department. On the 20<sup>th</sup> when Becky and Tara came out, they did surface monitoring at that point. Then she came back on the 30<sup>th</sup> and did a file inspection to complete her inspection report. If she does a partial inspection, then she comes and follows-up and there's only one report.

Mr. Schleyer reviewed the Host Municipal Inspections from May 9, 2014 through June 16, 2014. Mr. Taylor said the one on the 16<sup>th</sup> was not a full-blown inspection, just one to look at the incidents from the stormwater incident on the 13<sup>th</sup>. He prepared a separate incident report that was submitted to the Township as well as DEP. Friday morning there was about 1.6 inches of rain and in the afternoon about 3:30 p.m. another intense storm came through and peaked out about 3 inches an hour. It just came down within a half hour period and inundated some of the berms they had around the working face and overcame their stormwater channels. He had a wooden walkway over to one of the pump stations, which was lifted and sent it down the channel by the inlet, so that slowed some of the water going through the pipe and overtopped the channel. They had stormwater with a lot of silt to it and some floating debris which went to Applebutter Road and to the Calpine property across the street. Mr. Schleyer said it was styrofoam, plastic and small pieces of wood, whatever could float out. He saw clear water turning to muddy water. Mr. Schleyer said their immediate assessment was to control what the problem was and they got their employees and excavators out to clear the channel. They also called in two local contractors to help with the road cleanup. Mr. Schleyer said rainfall intensity might have exceeded what standard designs are. If that's the case, they will try to do something about that in that particular area. They are just evaluating those kinds of things right now and will do something difference with the walkway. Mr. Schleyer said the work face was fairly tight to the next fill area; it was just one of those types of incidences. Mr. Schleyer said it's a lot of slope that would catch. It wasn't just that spot, there was enough water to lift the styrofoam and plastic, but didn't wash the heavy garbage down. They are capping a couple of acres beyond that acre so there's a lot of earth work there that contributed to the silt. By 4:45 pm Applebutter Road was cleared and cleaned and then on the shoulder of the road that was clear about 5:45 pm. Mr. Schleyer said the Township police came through to observe what was going on.

Mr. Schleyer reviewed the commercial waste vehicles for May. Mr. Schleyer said he knows the police came out on Saturday and it might have been two and were looking at the weights on the indicator outside and they did some general inspections. He heard they were looking at a lot of different things.

Mr. Taylor said Jim was unavailable for the March meeting so he gave the presentation then and Jim told him for this meeting he would be giving the presentation. The material Jim presented was what he prepared.

Mr. Schleyer reviewed the BRE flare operations, they have been operating steadier and more efficiently, pretty much as full capacity. Ken from BRE is on vacation and he couldn't coordinate the times for the shutdowns, but Ken will provide it next week.

Mr. Schleyer said the North Slope, as of Tuesday, was passable as they sample on Tuesday. They were out there Monday and Tuesday and didn't have any complaints.

Mr. Schleyer said the abatement system is functioning pretty well. Intermittent pumps and controls get replaced and those are ongoing. Mr. Schleyer said it's supposed to be somewhat of a hydraulic barrier at the base of the landfill to intercept any contamination from the unlined areas and it just created a hydraulic trough to capture that and pump it to the waste water treatment plant. Mr. Schleyer said yes, that was put in the early 90's. Mr. Schleyer said 12, but 13 counting that TW1. Mr. Schleyer said absolutely. The TW1 well further east has been shut down for several years because it was at background levels. When they designed that, they did a good job.

Mr. Schleyer reviewed the radiation monitoring from May 1, 2014 through June 11, 2014.

Mr. Schleyer reviewed the Phase IV construction activities, and said Cell 4-E state 2 is still the current active disposal area. They did construct another control spray line on the north perimeter fence. It was not active today for inspection, but it does function. They are construction about 2 acres of cap on the South Slope. They are anticipating the actual synthetic liner for the cap next week for placement.

Mr. Schleyer said they had 13 complaints from May 9<sup>th</sup> to June 13<sup>th</sup>. They responded to some of them and so has DEP. Mr. Schleyer said he's not sure at this point. Some were called in after hours even though they reported they smelled odors during work time, they called in it later. There was no response to those. Mr. Schleyer said he may have went to that response as it was around lunchtime and he went to Ivywood one of those days. Mr. Schleyer said the log book for DEP says the 11<sup>th</sup>, Jessica Wagner was out at Steel City and she came to IESI Landfill. Mr. Schleyer said he thinks she had a very light odor on the north side because when Becky was there yesterday she followed up with it. It wasn't felt it was strong enough to carry it any distance. Mr. Schleyer said two of them in their phone log were voice mails after hours. They can give a street of the general area. Mr. Taylor said what was going on at the landfill on the 11<sup>th</sup>? Mr. Schleyer said he wasn't there. He doesn't think anything unusual was going on and if there was, Jessica was there if she had a problem with it unless the wind was blowing in that direction. Mr. Taylor asked if the spray line was in use that day? Mr. Schleyer said he'll find out. Mr. Schleyer said it should point to the magnetic north unless you calibrate true north. Mr. Taylor said maybe it was 8 degrees. Most maps are based on true geographic north, not magnetic north. Mr. Taylor said the direction the wind is blowing from. Mr. Taylor said is it reading on wind speed now in this room. Mr. Schleyer said if you are here and your cell tower is over here, you're going to pick up whatever signal is coming to that cell tower and even that doesn't have an anemometer to it. He will supply all of this information to Jack.

Mr. Schleyer said the Leachate Demand Report, the total discharge to the City of Bethlehem waste water treatment plant is a combination of abatement ground water pumping and leachate was 2.8 million gallons. Out of that, 1.4 million gallons was leachate for the month of May. Mr. Schleyer said that would be PS-1 for leachate. Anything that went into the landfill cells goes to the waste water plant. Mr. Schleyer said that will be the total gallons for PS-1. Mr. Schleyer said it's a storm water inlet. LMC-6, 7 and 8 discharges are higher than they were last year. LMC-6 and 7 are steady. LMC-8 is greater than 100 gallons per day, which Jim pointed out at the meeting.

Mr. Taylor conducted an inspection at 11:00 AM today. His observations were as follows:

- No odor, litter or mud on Applebutter Road, the entrance drive or at the office parking lot.
- The sediment from the June 13<sup>th</sup> washout has been removed from the shoulders of Applebutter Road and from the inlets at the entrance drive.
- The BRE plant is running.
- Wind today was calm or from the east at less than 5 MPH. Mr. Taylor said there is a weather station and the weather vane is right next to the parking lot, so the wind direction can be observed from the weather vane. The wind speed is always a guess on his part.
- Was raining lightly today, but the truck wash was not in use because conditions were not yet muddy.
- The landfill flare was not running at the time of inspection because the low temperature shutdown technicians were working at the flare at the time of inspection and Mr. Schleyer reported at arriving at this meeting that they had gotten the flare restarted in the meantime.
- There was no litter in the trees within the perimeter fences.
- There were a couple of washouts on the north face and they are scheduled to be repaired. They are small washouts and no garbage was exposed.
- The spray line was not in operation today.

- About two dozen turkey vultures were observed in the landfill.
- Allen reports that three or four loads of gator loads of garbage were picked up after the washout.
- Garbage was being disposed in Cell 4-E stage 2.
- Wind screens were in place.
- Two trucks were dumping and two were waiting to dump.
- A slight garbage odor was observed intermittently at the Lower Saucon Authority tower.
- They are continuing to place grade soil on the west face.
- The truck tipper was not on site.
- Use of alternate daily cover has not begun yet.
- The landfill is still importing all of their cover material and using soil and tarps for daily cover.
- They were observed dumping and spreading cover material at the face during the inspection.
- A gas smell was observed at the access road near Basin 4 and Priscilla noted it was the same smell she has observed recently in Steel City.
- Final capping work on the southern face is progressing.
- The area is just about ready for the synthetic liner to be placed early next week.
- A garbage smell was noted west of the working face.
- The wind direction was coming from the east blowing to the west.
- The west high wall was observed and no obvious movement of soil or rock was noted since the last inspection.
- Channel A, which was affected by the washout on June 13<sup>th</sup> is being cleaned out and being reformed.
- The clean out of garbage that had washed into Basin 4 during the wash out on June 13<sup>th</sup> is well underway. Most of it has been removed and the rest will be removed as scheduled.
- He conducted a patrol through Steel City following this inspection at about 12:30 PM and observed no landfill related odors or noises. He goes to the end of Saucon Avenue, turned around in the cul-de-sac, make the first right and he then goes past the Mennonite Church. He takes every road he can as far east as he can closest to the landfill. He comes out on the very last road that intersects Riverside Drive.

Mr. Taylor had some questions that came up at the last Quarterly Township Consultants meeting that he needs to get answers from Mr. Schleyer.

1. Mr. Taylor said during the last round of testing of the gas probes, there were methane detections at two of the gas probes locations. Can you provide an explanation to that? Mr. Schleyer said they touched on that at the meeting last time. He will look into it further. Sometimes you can get intermittent detection out of the landfill gas monitoring probes, which are in the older section of the landfill area. Laressa noted most of the gas problems have been non-detect for quite awhile, so it was unusual to have hits on two of them all of a sudden. Mr. Schleyer said he sent Laressa a drawing showing all the monitoring probes. Mr. Schleyer said that's the surface monitoring. The latest hits on the surface monitoring have been remediated.
2. Mr. Taylor asked how many trucks of cover material do you get in a typical day? Mr. Schleyer said they had recorded about 206 for the month of May. It could be anywhere from Monday through Saturday as they bring cover soil in. Overall, the reduction of waste trucks is kind of offset and balanced by the cover soil trucks. They've reduced some tonnage coming in. Mr. Taylor said the trucks with the cover material don't appear in the number of trucks. Mr. Schleyer said that's always been commercial waste disposal trucks they tied into the overweight, so it's in addition to that number of trucks, there were 206. Mr. Schleyer said in addition with the cap addition, they need a stockpile of that. Mr. Taylor said for month you got 215 for garbage trucks and that doesn't count the 206 that haul cover material soil. So, your number of trucks is really over 3,100.
3. Mr. Taylor said the PD is issuing citations to drivers on site, you stated before you knew that happened one Saturday and may have happened another Saturday, and then was that recently? Mr. Schleyer said it was in the past month. Mr. Taylor said do you have any idea what the status of that effort is? Mr. Schleyer said no, he didn't hear anymore as a follow-up. Mr. Schleyer said he didn't know when they were going to do it beforehand. Mr. Taylor said maybe under the commercial

waste vehicles where you are talking about the number of trucks, overweight's, warnings and suspensions, you could put it in.

4. Mr. Taylor asked if there a MSDS sheet available for the odor control chemical that is used with the spray line? Mr. Schleyer said yes, there is and he will provide them with a copy.
5. Mr. Taylor said the spray line, is that meant to cover a certain area or is it meant to create a wall where odor laden air has to encounter it as it blows through to be effective or does it blanket or cover a certain area. Mr. Schleyer said he doesn't believe it travels far as it's a mist of mostly water, so it's not going to carry too far, but it is designed to be kind of an odor interceptor screen with neutralizer and will neutralize any odors it encounters and drop them out. Mr. Schleyer said it looks that big at the spray line itself, but it does carry out into the air with a larger area extent. It would depend on a lot of different characteristics, wind speed, wind pressure, all those things. Mr. Taylor said it definitely covers down to the ground. You can see the mist when the line is running. The mist was above the spray line too. Mr. Schleyer said some is air borne. Mr. Taylor said you probably got a 15' tall barrier of mist there. Odors can be even higher than that and sink down the North Slope. Odors are going to be intercepted by and some can skirt around it. <br /> Mr. Taylor said it's north of the working face right now.

Mr. Taylor said the next meeting is Thursday, July 17<sup>th</sup> at 1:00 p.m. here in the Township Council meeting room and an 11:00 AM inspection at the landfill.

The meeting adjourned, the time was 2:22 p.m.

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