

## IESI Bethlehem Landfill Committee Meeting Minutes

Date: Thursday, January 18, 2018  
Time: 1:04 p.m.  
Location: Lower Saucon Township Council Meeting Room  
Attendance: Hanover Engineering: Chris Taylor; Exelon: Lane Bradley; IESI: Nick Rogers, Don Hallock & Kevin Bodner (Martin and Martin); Priscilla deLeon, Council Liaison; Hazem Hijazi; Member; Staff: Leslie Huhn. Absent: Diane Palik, Staff and Neil Ortwein, Member.

Mr. Rogers reviewed the monthly tonnages for December.

	<u>October</u>	<u>November</u>	<u>December</u>
MSW	22,781.49	29,701.69	31,017.83
C&D	4,694.21	3,505.73	3,107.24
Residual (Total)	3,537.61	1,302.23	1,311.66
Asbestos	0.0	111.11	57.90
Out of State (Total)	16,911.72 (54%)	22,094.82 (64%)	23,644.47 (66%)
Recycle	0 (0%)	0 (0%)	24 (79%)
No. Trucks	3,139	3,083	3,103

Mrs. deLeon said she'd like to see sludge broken down in this report. She said Mrs. Louder asked the landfill officials to the Council meeting and asked about trucks that keep getting lost in Steel City. Mr. Hallock said that is the first time that has happened that he's aware of. Mrs. deLeon said the other item was a Form U regarding sludge.

Mr. Rogers said they submitted a Form U for sewage sludge, which they are permitted to take. They did not accept it and it wasn't accepted by DEP. They have the right to refuse anything; they could accept it, but DEP kicked it back to them for a reason, and due to that, we said we aren't accepting it.

Mrs. deLeon said she did some research and went through the quarterly reports and realized asbestos had its own category, but she also realized there's about five different types of sludge. Mr. Hallock said when you see the sludge in the report, it's 90% soil and 10% sludge, which is a big difference. Regarding the Form U and their explanation in the minutes, the meeting handouts will now be attached to the minutes.

Mrs. deLeon said she sent Mr. Hallock an email regarding the dates of acceptance of the sludge, and if there were any related odor complaints on that particular day. Mr. Hallock said it was one day in August, there was an 8:30 a.m. complaint, but they hadn't accepted the trash until noon. He also stated they don't use it as daily cover.

Mr. Rogers said there was a Form U submittal from C. F. Martin & Co. on December 21, 2017 for Plant Trash (710).

Mr. Rogers said the Groundwater Trend Analysis sampling was completed by EarthRes Group the week of December 18, 2017 and there were no issues. Mr. Rogers said regarding the Correspondence/Reports, there was an abatement system report, Q3 groundwater, Collection Efficiency report, and annual recycling report.

Mr. Rogers said there were two inspections on December 1 and 19, 2017. There were three Host Municipal inspections on December 14 and 28, 2017 and on January 5, 2018. There were no exceedances. Mrs. deLeon asked if the DEP inspectors are on board and are all trained now. Mr. Rogers said yes. They also hired another solid waste inspector.

Mr. Rogers said there were 3,103 total trucks with 67 overweight's, 57 warnings and 10 suspensions. Mr. Hallock said there's more tonnage for the overweight's and part of it was from the four to five days of rain. They are working through the process and will meet next week with the transfer stations. Mrs. deLeon asked if the waste covered when they receive it? Mr. Hallock said it's tarped and if it does rain, the moisture gets in there. They do recommend waterproof tarps.

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Mrs. deLeon asked what happened with the complaints on Flint Hill Road? Mrs. Huhn said in the spring PennDOT plans to pave the road. Mrs. deLeon asked if IESI talked to any of the haulers using Route 412. Mr. Hallock said he did talk to the haulers. They sent out notices and directions to the landfill, including the time it's opened, etc.

Mr. Rogers said there were no reports from the LST Police for the month of December. Mrs. deLeon said last night Mrs. Huhn appointed Sgt. Tom Barndt as our new Police Chief.

Mr. Rogers said BRE has been running at full capacity in conjunction with the flare as the main GCCS. BRE and IESI continue to communicate along the SCSFS with any routine or non-routine maintenance to maximize LFG production and minimize odors between plant and flares. Mr. Lane said they were running 50% over the weekend and they shut down yesterday. Today they have one compressor running; and tomorrow will be 100% back on line by 4:00 p.m.

Mr. Rogers said the North Slope sedimentation traps are functional and the perimeter road is in good condition. The abatement system continues to operate and discharge to the Bethlehem WWTP. Intermittent malfunctions of the well pumps and controls are repaired or replaced as needed. AB-2R has been re-drilled due to the SE expansion and is online. Mr. Rogers said the leachate collection flow rates continue to be monitored and reported. Intermittent malfunctions of the well pumps and controls are repaired or replaced as needed.

Mr. Rogers said there were two radioactive loads for December which were Iodine 131. The waste stream met Level 1 requirements and was disposed of onsite.

Mr. Rogers said the Phase IV construction activities, currently the active disposal area is cell 4B/4D. Installation of five new horizontal collectors have been installed in cell 4-D for odor control and are being monitored. Mr. Rogers said regarding SE Realignment Construction Activities, topsoil and soil continues to be removed and stockpiled for Phase II. The new MSE wall is being constructed and the new citizen drop off area is being constructed.

Mr. Rogers said there were no complaints received by IESI for December 2017 and none to date for January 2018. Mr. Hijazi asked when are they going to start accepting waste for the SE Realignment? Mr. Bodner said that depends on Mother Nature. They are trying to finish the wall and move into the next phase, so probably somewhere in the second quarter. Mr. Taylor asked how far along were they from removing the old soil in the piggyback area? Mr. Bodner said they are 80%.

Mr. Rogers reviewed the Leachate Demand Report for December 2017. Mr. Rogers said these are accurate numbers with all the pipes/meters cleaned and flushed. Mr. Taylor said the numbers are what we've seen historically even after the pipes were cleaned out. He said we will revisit this at the next quarterly meeting.

Mr. Taylor said he took the tour today and asked about the truck wash being worked on. Mr. Hallock said they have a big power washer they can use to wash off the trucks.

Mrs. deLeon asked if they wanted to give an update on the incident with the fire. Mr. Hallock said he emailed Leslie when it happened. They had one of their cover trucks up at the top of the landfill away from the work face dumping a small stockpile and the driver noticed smoke and a flame coming from underneath the truck. He quickly pulled the truck over off the site and tried to put it out with a fire extinguisher and then called the fire department. They did their own investigation. LSTPD took the report and he talked to the fire department and they are working with the company to get more information. Mrs. deLeon said you called 9-1-1. Mr. Hallock said they called non-emergency. Mrs. deLeon said she's curious why the City of Bethlehem did not respond as they are first responders for the landfill. Mr. Hallock said there were a couple of fire departments there. He doesn't know that anything different they could have done.

Mrs. deLeon said she looked at the two page chart the Township has for the quarterly reports and when we receive documents. Laoussa made some changes to the wording in the column of the title of the report and there's an updated version.

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Mrs. deLeon asked if there was any input from the neighbor, Sue Severn. She asked if IESI negotiated the sale of the property. Mr. Hallock said at this time the property owners are happy living there and do not want to sell. They said if they are ever ready, they will contact the landfill.

Mrs. deLeon said we had talked about the LNG tank that's going was proposed in Bethlehem, and UGI has since lowered the height of the tank; so therefore, it doesn't need a special exception. They redid it and the Township just received a new application. They changed the road to Easton Road, which the Township is concerned about the truck traffic so we have to review that.

Mrs. deLeon said the Adelpia Pipeline is now on our website and they did file with FERC on Friday. It's an existing pipeline with natural gas and it's going next to the tank farm. There are a lot of people who live in the Township and it's going through their land. She's concerned as the pipeline wasn't built for gas, it was built for fluids.

Mr. Hallock said he wanted to confirm that they are going to stay on the same schedule for 2018 for the meetings. Mr. Taylor said it will be the same schedule. Mr. Taylor said the next inspection is February 1, 2018 and February 15, 2018 at 10:30 a.m. and the meeting is at 1:00 p.m.

The meeting adjourned at 1:53 p.m.

**IESI Bethlehem Landfill  
LST Committee Meeting Notes  
January 18, 2018**



**Agenda Items**

**I. Waste Activities**

Monthly Tonnages

	October	November	December
MSW	22,781.49	29,701.69	31,017.83
C&D	4,694.21	3,505.73	3,107.24
Residual (total)	3,537.61	1,302.23	1,311.66
Asbestos	0.0	111.11	57.90
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Recycle	0(0%)	0(0%)	24(79%)

Form U Submittals  
C.F. Martin & Co.

Waste  
Plant Trash (710)

Approval Date  
12/21/2017

**II. Annual Groundwater Trend Analysis**

Groundwater sampling was completed by Earth Res Group week of December 18th.

**III. Correspondence / Reports**

- Abatement System Report
- Q3 Groundwater Report
- Collection Efficiency Report
- Annual Recycling Report

#### IV. Landfill Operations

##### Department of Environmental Protection Inspections

12/1/17 J. Wagoner, A. Faulch, J. Cimera- SW/AQ Inspection  
12/19/17 S. French- Engineers Meeting

##### Host Municipal Inspection

12/14/17 C. Taylor  
12/28/17 C. Taylor  
1/5/18 C. Taylor

<u>Commercial Waste Vehicles</u>	October	November	December
Total #Trucks	3139	3083	3103
	October	November	December
Overweight	26	51	67
Warnings	15	35	57
Suspensions	11	16	10
	15DT, 8-TT	26-TT	65-TT, 1-RL, 1-RO

FL = front loader, RO = roll off, TT=tractor trailer RL = rear loader, DT = Triaxel Dump Truck

##### Lower Saucon Township Police Report:

Below is the overweight vehicle enforcement the PD conducted at IESI during the month of December 2017:

None for the month of December

Bethlehem Renewable Energy and Flare Operations and Gas Collection

BRE has been running at full capacity in conjunction with the flare as the main GCCS. BRE and IESI continue to communicate along with SCSFS with any routine or non-routine maintenance to maximize LFG production and minimize odors between plant and flare.

See times for flare and plant shutdowns

Beginning of event shutdown Flare Date: 12/14/17 Time: 6:40

End of event startup Date: 12/14/17 Time: 10:55 Duration: 4:15min

NEED TO UPDATE BRE SSM's

Documentation is on file.

North Slope

Sedimentation Traps functional, perimeter road is in good condition.

Abatement System

Abatement system continues to operate and discharge to the Bethlehem WWTP. Intermittent malfunctions of the well pumps and controls are repaired or replaced as needed. AB-2R has been re-drilled due to SE expansion and is online.

Leachate collection

Flow rates continue to be monitored and reported. Intermittent malfunctions of the well pumps and controls are repaired or replaced as needed.

Radiation Monitoring

December

There were two radioactive loads for ~~November~~ which were Iodine 131. The waste stream met level 1 requirement and was disposed of onsite.

Phase IV Construction Activities

Currently the active disposal area is cell 4B/4D. Installation of 5 new horizontal collectors have been installed in cell 4-D for odor control and are being monitored.

SE Realignment Construction Activities

Topsoil and soil continues to be removed and stock piled from Phase II. The new MSE wall is being constructed. The new citizen drop off area is being constructed.

Complaints received by IESI

No known complaints for December.

**BETHLEHEM LANDFILL**  
**LEACHATE DEMAND REPORT**  
**December 2017**

<u>Location</u>	<u>Total gallons</u>
LMC-6	7,608
LMC-7	10,231
LMC-8	25,445
LMC-10	1,123,000
PS-1	230,409
PS-2	135,102
PS-3	90,833
Phase-IV	456,344

Total LMC-10 Flow = LMC-6, 7, 8, Abatement Well System, Phase I and II, and LFG condensate. Phase-IV total from PS-1, PS-2 and PS-3.

**Total Discharge**

LMC-10	1,123,000
<u>Phase IV</u>	<u>456,344</u>
<b>TOTAL</b>	<b>1,579,344 gallons</b>

**Total Leachate**

Leachate	486,892
<u>Phase IV</u>	<u>456,344</u>
<b>TOTAL</b>	<b>943,236 gallons</b>

LMC-10 Flow – Abatement System Flow = Leachate System Flow (gallons).  
 Abatement System Flow = 636,108 gallons (Neptune Flow meters)



# BETHLEHEM LANDFILL

## GROUNDWATER DEMAND REPORT December 2017

<b>Well No.</b>	<b>Water Level (avg. ft SWL*)</b>	<b>Flow (avg. GPM)</b>	<b>(Total gal)</b>
AB-1	83.1	6.8	292497
AB-2	70.4	0.4	17837
AB-3	38.5	0.1	2661
AB-4	35.4	1.3	58113
AB-5	55.2	0.2	6587
AB-6	48.9	0.6	25763
AB-7	52.3	3.1	132034
AB-8	27.7	2.3	97984
AB-9	26.9	0.1	1346
AB-10	47.9	0.1	1286
TW-1	42.8	<0.1	0
<b>Total Flow</b>			<b>636,108 gallons</b>

\*SWL above transducer set point

\* Per DEP approval well TW-1 was shut down September 14, 2009.









ID	A	B	C	D	E	F	J	K	L	M	Q	R	S	T
955														
960														
961														
962														
963	1/7/2017	42,742.00	1,484,048	1,484,048	35	2	2043229	2043229	48	4	5,143,931	5143931	120	21
964	1/16/2017	9.00	1489710	5,662	629	40	2051534	8305	923	76	5,165,275	21344	2,372	409
965	1/25/2017	9.00	1489407	8,697	966	62	2063540	12006	1,334	109	5,183,033	27758	3,084	532
966	1/31/2017	6.00	1501862	3,455	576	37	2071050	7510	1,252	103	5,210,362	17329	2,888	488
967	2/7/2017	7.00	1506979	5,117	731	47	2074142	3092	442	36	5,229,325	18963	2,709	467
968	2/17/2017	10.00	1508711	1,732	173	11	2078288	4146	415	34	5,237,650	8325	833	144
969	2/21/2017	4.00	1509451	740	185	12	2080114	1826	457	37	5,241,358	3708	927	160
970	3/1/2017	8.00	1510749	1,298	162	10	2083634	3520	440	36	5,250,559	9201	1,150	198
971	3/8/2017	7.00	1515422	4,673	668	43	2088655	5321	760	62	5,268,363	17804	2,543	439
972	3/13/2017	5.00	1516343	3,921	784	50	2092603	3548	710	58	5,282,821	14458	2,892	499
973	3/24/2017	11.00	1524044	4,701	427	27	2095954	3451	314	26	5,327,039	44218	4,020	693
974	4/1/2017	8.00	1534999	10,955	1,369	87	2101234	5280	660	54	5,369,352	42313	5,289	912
975	4/10/2017	9.00	1542042	7,043	783	50	2103921	2587	287	24	5,409,184	39832	4,426	763
976	4/21/2017	11.00	1550059	8,017	729	46	2105210	1389	126	10	5,429,743	20559	1,869	322
977	5/5/2017	14.00	1557688	7,630	545	35	2107265	-2,573	-5,513	-484	5,431,954	22511	1,58	27
978	5/16/2017	11.00	1560184	2,495	227	14	2093338	6753	614	614	5,435,721	3767	342	59
979	5/29/2017	13.00	1564070	3,886	299	19	2093884	4546	350	29	5,439,846	4125	317	55
980	6/6/2017	8.00	1565576	1,506	188	12	2094934	1050	131	11	5,442,386	2540	318	55
981	6/14/2017	8.00	1566528	953	119	8	2096213	1279	160	13	5,444,044	1658	207	36
982	6/26/2017	12.00	1567316	787	66	4	2096258	3045	254	21	5,446,160	2116	176	30
983	7/3/2017	7.00	1569495	2,179	311	20	2092052	2794	399	33	5,447,674	1514	216	37
984	7/12/2017	9.00	1570730	1,235	137	9	2045769	3717	413	34	5,450,129	2455	273	47
985	7/25/2017	13.00	1572504	1,774	136	11	2053788	8019	617	51	5,457,359	7230	556	96
986	8/1/2017	7.00	1573681	1,177	168	11	2058381	4593	656	54	5,463,670	6611	944	163
987	8/7/2017	6.00	1575278	1,597	266	17	2059471	1090	182	15	5,476,794	12824	2,137	369
988	8/15/2017	8.00	1579033	3,755	469	30	2065542	6071	769	62	5,507,265	30471	3,809	657
989	8/24/2017	9.00	1581319	2,286	294	16	2070085	4543	505	41	5,524,772	17507	1,945	355
990	9/5/2017	12.00	1582975	1,656	138	9	2075755	5670	473	39	5,528,888	4116	343	59
991	9/11/2017	6.00	1583812	837	140	9	2077828	2073	346	28	5,531,959	3071	512	88
992	9/22/2017	11.00	1585243	1,431	130	8	2079745	1917	174	14	5,534,906	2947	268	46
993	10/1/2017	9.00	1586491	1,248	139	9	2085205	5460	607	50	5,536,868	1962	218	38
994	10/10/2017	9.00	1587448	957	106	7	2088376	3171	352	29	5,539,713	2845	316	55
995	10/16/2017	8.00	1588347	899	112	7	2088699	323	40	3	5,540,276	563	70	12
996	10/30/2017	12.00	1589136	789	66	4	2089906	1207	101	8	5,542,073	1797	150	26
997	11/9/2017	10.00	1589876	740	74	5	2098987	8961	896	73	5,553,055	10982	1,098	189
998	11/16/2017	7.00	1590201	325	46	3	2099532	665	95	8	5,557,367	4312	616	106
999	11/21/2017	5.00	1590652	451	90	6	2100345	813	163	13	5,564,918	7651	1,510	260
1000	11/30/2017	9.00	1590960	238	26	2	2103323	2978	331	27	5,576,556	11638	1,293	223
1001	12/5/2017	5.00	1596165	5,275	1,055	67	2094577	4956	813	-73	5,580,185	3629	726	125
1002	12/14/2017	9.00	1597340	1,175	131	8	2098928	61	7	1	5,582,637	2452	272	47
1003	12/19/2017	4.00	1597630	290	73	5	2098982	54	14	1	5,583,261	624	156	27
1004	12/29/2017	11.00	1600393	2,753	250	16	2105661	6679	607	50	5,598,599	15338	1,394	240
1005														
1006														
1007														
1008														
1009														
1010														

Flow Meter Reset During Combustion

