

Bethlehem Landfill Committee Meeting Minutes

Date: Thursday, July 16, 2020, **Via Zoom**
Time: 1:00 p.m.
Location: Lower Saucon Township
Attendance: **Hanover Engineering:** Scott Brown; **Bethlehem Landfill:** Astor Lawson, Cody White & David Pannucci; **Members:** Hazem Hijazi & Neil Ortwein (*both absent*); **Staff Members:** Leslie Huhn & Diane Palik; **Council Liaison:** Priscilla deLeon (1:07 p.m.); **Guests:** Andrew Krasnansky, Don Bowman, Ron Madison, Bob Zelle, Ginger Petrie.

Mr. Pannucci reviewed the monthly tonnages for June:

	<u>April</u>	<u>May</u>	<u>June</u>
MSW	27,660.89	24,821.94	29,224.78
C&D	4,615.32	5,583.77	6,688.18
Residual (Total)	1,415.94	3,121.91	1,760.98
Asbestos	0.00	0.24	0.00
Sewage Sludge (90/10)	160.57	202.99	272.40
Out of State (Total)	21,694.90 (64%)	22,651.56 (67%)	24,757.91 (65%)
Recycle	13 (77%)	11 (91%)	13 (85%)

Mr. Pannucci said there were five Form U Submittals from June 16, 2020 thru July 7, 2020. Regarding Annual Groundwater Trend Analysis, the third quarter sampling event is scheduled for August 24, 2020 thru August 26, 2020. There were no correspondences/reports.

Mr. Pannucci said there was one DEP inspection on June 24, 2020 with Amy Faulch from Solid Waste. There were two Host Municipal Inspections by Scott Brown on July 2, 2020 and July 16, 2020. Commercial Waste Vehicles, there were 3,070 total trucks; 71 overweight, 58 warnings and 13 suspensions.

Mr. Pannucci said the LFG flare is the main GCCS. Bethlehem Landfill continues to communicate with SCS Field Services with any routine or non-routine maintenance to maximize LFG production and minimize odors. The June average flare flow was 3,569 SCFM. There was one flare shutdown on June 16, 2020 for 3 hours and 22 minutes for an inspection. The North Slope Road has not needed repairs. The swale has not needed repairs.

Mr. Pannucci said 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.

Mr. Pannucci said regarding leachate collection, flow rates continue to be monitored and reported. Intermittent malfunctions of the well pumps and controls are repaired or replaced as needed. They replaced a transducer in PS-3 detection zone; and replaced flow meters and upgraded the control panel in LMC-7.

Mr. Pannucci said there was one radioactive load for June (Tc-99m). This waste stream met level requirements and was disposed of onsite. The SE Realignment Construction Activities waste operations are in SE-1B. There was one complaint in June 2020.

Mr. Brown said you did submit the Annual Groundwater Trend Analysis report, the facilities report, the white binder, abatement report and the 2Q SEM report, which you may want to note. Mr. Pannucci said he can start listing what they submitted prior.

Mr. Brown said he did the inspection this morning with Mr. Lawson and there were no odors along Applebutter Road, at the Narrows by the Hill Climb or the Steel City area. Per Leslie, he checked out Applebutter Road by the small historic block building for a stormwater complaint. They did not see any erosion noted there or any kind of repairs. There was no mud residual noted and nothing was on the vegetation. In the landfill, there were minor odors at the working face and on leachate seep north and west of the working face and they were going to get that dug up and fixed. The MSE wall continues to be constructed.

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Mr. Brown said he talked to Astor about the issue with the scale calibration. It appeared that shortly after the scale was calibrated, a problem with the scale came up and they called the company back in to check it out, so all the calibration was done per the State requirements, but something failed on it. Mr. Lawson said the company came out and certified the scale and did the calibrations and they were up and going.

Mrs. Huhn said we do have you scheduled for the July 22nd Council meeting for your presentation.

Mrs. deLeon said she called in late, did she miss any of the agenda items. Mr. Brown said Dave went through that. Mrs. deLeon said any highlights. Mr. Brown said there isn't really anything notable that Mr. Pannucci went over. Mrs. Huhn said she saw the list of odor complaints and there was only one in June.

Mr. Andrew Krasnansky, resident, said Scott mentioned about odors along Applebutter Road, was that today or yesterday. Mr. Brown said that was this morning and he did not note any odors along Applebutter Road. Mr. Krasnansky said how far up Applebutter Road do you go. Mr. Brown said he goes up and turns around east of where you cross over I-78, and heads back to the landfill. Mr. Krasnansky said he has odors every day. He lives across the street from Sue Severn, 2430 Applebutter Road. Mr. Brown said next time he goes out, he'll stop in front of Mr. Krasnansky's house.

Mr. Krasnansky said you said something about water runoff, is it coming off at the old building that's alongside of the road. Mr. Brown said that's where he thinks it was, it's a small block structure. Mrs. Huhn said it was called Schwartz Shop. Mrs. deLeon said that's correct. Mr. Krasnansky said on occasion when it rains pretty heavy, it comes out of there. You won't see any dirt coming down the road. Mr. Lawson said next time they have a heavy downpour he'll go over and check it out. This is the first he's ever heard of this. Mrs. deLeon said this has been going on before COVID, we've had complaints and she's surprised he never heard about it. Mr. Lawson said they had the one issue over by the flare on Applebutter Road and they fixed that. Mr. Krasnansky said Tina took pictures and submitted them to the landfill and she also sent them to DEP and the Township.

Mr. Krasnansky said we spoke with the manager previous to the new guy and one of the issues was the guys that haul the fill in from NJ using Applebutter Road as a return route back to NJ to get on I-78 and the manager told the drivers they weren't supposed to be going that way, but they still do. Mr. Lawson said give him a call if you see anything and they will grab them and let them know. Mr. Krasnansky said the culprits are Ortiz and Prieto with Jersey plates.

Mrs. deLeon said when you say you smell it every day are you calling DEP? Mr. Krasnansky said no. Mrs. deLeon said she will give him the DEP phone number. Mrs. deLeon gave Mr. Krasnansky her phone number and asked him to call her after the meeting.

Ms. Ginger Petrie said she's trying to find out information on the purchase that the landfill did where the towers are past Red Barn Auto as it borders her property. She's curious as to when there will be discussions on that. Mr. Lawson said feel free to give him a call and he will discuss it with her. Ms. Petrie said her property borders that property on the top of the mountain and she has a lot of questions. Mrs. deLeon said next Wednesday, July 22nd, the landfill is an agenda item and they are going to talk about their future plans with another expansion on their site.

Mr. Krasnansky said every now and then he sees white tarps on the landfill at the end of the day. Mr. Lawson said that's a common practice at landfills. They are heavy duty tarps used for daily cover. It will save on soil.

Mr. Brown asked if there were any other public comments. The meeting ended at 1:27 p.m. The next meeting is on Thursday, August 13, 2020, at 6:00 p.m.

**Bethlehem Landfill Company
LST Committee Meeting Notes June 2020
July 16, 2020**

Agenda Items

I. Waste Activities

Monthly Tonnages

	April	May	June
MSW	27,660.89	24,821.94	29,224.78
C&D	4,615.32	5,583.77	6,688.18
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Recycle	13 (77%)	11 (91%)	13 (85%)

<u>Form U Submittals</u>	<u>Waste</u>	<u>Approval Date</u>
Dale Stephens	Asbestos-Containing Waste (501)	6/16/20
Allentown State Hospital	Coal-Derived Bottom Ash (001)	6/30/20
NAWC Environmental, LLC	Sewage Sludge (MW3)	7/1/20
Masaryk Towers Corp.	Contaminated Soil (506)	7/7/20
Town of Bethel Sewer Plant	Sewage Sludge (MW3)	7/7/20

II. Annual Groundwater Trend Analysis

Third quarter sampling event is scheduled for 8/24/20 – 8/26/20.

III. Correspondence / Reports

None

IV. Landfill Operations

Department of Environmental Protection Inspections

6/24/20 A. Faulch (Solid Waste)

Host Municipal Inspection

7/2/20 S. Brown
7/16/20 S. Brown

<u>Commercial Waste Vehicles</u>	April	May	June
Total #Trucks	2,687	2,719	3,070

	April	May	June
Overweight	78	68	71
Warnings	62	64	58
Suspensions	16	4	13

April - TT=75, RL=1, RO=1, DT=1 May - TT=49, RL=4, DT=15 June - TT=63, RL=5, RO=1, DT=2

FL = front loader, RO = roll-off, TT=tractor trailer, RL = rear loader, DT = triaxial dump truck

Flare Operations and Gas Collection

The LFG flare is the main GCCS. Bethlehem Landfill continues to communicate with SCS Field Services with any routine or non-routine maintenance to maximize LFG production and minimize odors.

June Average Flare Flow = 3,569 SCFM

See times for flare shutdowns. Do not have Plant SSM forms yet

Beginning of event shutdown Flare	Date: 6/16/20	Time: 10:00	
End of event startup	Date: 6/16/20	Time: 13:22	Duration: 03:22min

Documentation is on file.

North Slope Road has not needed repairs. The swale has not needed repairs.

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.

Leachate collection

Flow rates continue to be monitored and reported. Intermittent malfunctions of the well pumps and controls are repaired or replaced as needed. Replaced a transducer in PS-3 detection zone. Replaced flow meters and upgraded the control panel in LMC-7.

Radiation Monitoring

There was 1 radioactive load for June (Tc-99m). This waste stream met level 1 requirements and was disposed of onsite.

SE Realignment Construction Activities

Waste operations are in SE-1B.

Complaints received by Waste Connections

See attached.

BETHLEHEM LANDFILL
LEACHATE DEMAND REPORT
June 2020

<u>Location</u>	<u>Total gallons</u>
LMC-6	22,846
LMC-7	20,864
LMC-8	86,220
PS-4	48,814
LMC-10	1,629,902
PS-1	190,316
PS-2	102,564
PS-3	126,328
Phase-IV	419,208

Total LMC-10 Flow = LMC-6, 7, 8, Abatement Well System, Phase I and II, SE Realignment (PS-4), and LFG condensate. Phase-IV total from PS-1, PS-2 and PS-3 and LFG condensate.

Total Discharge

LMC-10	1,629,902
Phase IV	419,208
TOTAL	2,049,110 gallons

Total Leachate

Leachate	178,744
Phase IV	419,208
TOTAL	597,952 gallons

LMC-10 Flow – Abatement System Flow = Leachate System Flow (gallons).
 Abatement System Flow = 1,451,158 gallons (Neptune Flow meters)

BETHLEHEM LANDFILL

GROUNDWATER DEMAND REPORT June 2020

<u>Well No.</u>	<u>Water Level (avg. ft SWL*)</u>	<u>Flow (avg. GPM) (Total gal)</u>	
AB-1R	71.3	8.4	352,848
AB-2	46.2	2.3	97,097
AB-3	24.1	0.2	9,018
AB-4	28.7	1.5	63,889
AB-5	40.9	0.5	20,241
AB-6	42.7	0.7	29,492
AB-7	41.1	2.2	93,153
AB-8	1.5	0.0	0
AB-9	40.6	3.0	126,361
AB-10	78.6	15.8	659,059
TW-1	54.4	<0.1	0.0
Total Flow			1,451,158 gallons

*SWL above transducer set point

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

	TIME (days)	LMC-6 (Primary Flows)				LMC-7 (Primary Flows)				LMC-8 (Primary Flows)			
		TOTALIZER	GALLONS	LOW (gp)	G/A/D	TOTALIZER	GALLONS	LOW (gp)	G/A/D	TOTALIZER	GALLONS	LOW (gp)	G/A/D
7/1/2019	3.00	2765773	10,599	3,533	225	4451306	1775	592	48	7,864,310	3267	1,089	188
7/11/2019	10.00	2796263	30,490	3,049	194	4457119	5813	581	48	7,876,648	12338	1,234	213
7/16/2019	5.00	2812684	16,421	3,284	209	4459951	2832	566	46	7,878,992	2344	469	81
7/24/2019	8.00	2831870	19,186	2,398	153	4463593	3642	455	37	7,886,403	7411	926	160
7/30/2019	6.00	2843280	11,410	1,902	121	4467209	3616	603	49	7,896,140	9737	1,623	280
8/6/2019	7.00	2850243	6,963	995	63	4472476	5267	752	62	7,909,399	13259	1,894	327
8/15/2019	9.00	2856113	5,870	652	42	4476747	4271	475	39	7,917,866	8467	941	162
8/23/2019	8.00	7657	7,657	957	61	4486359	9612	1,202	98	7,938,076	20210	2,526	436
8/30/2019	7.00	13947	6,290	899	57	4490990	4631	662	54	7,949,696	11620	1,660	286
9/6/2019	7.00	19366	5,419	774	49	4495205	4215	602	49	7,960,462	10766	1,538	265
9/13/2019	7.00	24485	5,119	731	47	4499487	4282	612	50	7,971,110	10648	1,521	262
9/19/2019	6.00	28441	3,956	659	42	4503238	3751	625	51	7,979,832	8722	1,454	251
9/27/2019	8.00	32103	3,662	458	29	4505413	2175	272	22	7,984,431	4599	575	99
9/30/2019	3.00	35409	3,306	1,102	70	4509388	3975	1,325	109	7,995,900	11469	3,823	659
10/7/2019	7.00	35464	55	8	1	4512708	3320	474	39	8,005,007	9107	1,301	224
10/15/2019	8.00	38403	2,939	367	23	4515616	2908	364	30	8,017,447	12440	1,555	268
10/22/2019	7.00	40137	1,734	248	16	4517331	1715	245	20	8,024,712	7265	1,038	179
10/31/2019	9.00	52975	12,838	1,426	91	4519802	2471	275	23	8,050,591	25879	2,875	496
11/9/2019	9.00	53102	127	14	1	4521292	1490	166	14	8,070,360	19769	2,197	379
11/15/2019	6.00	54054	952	159	10	4522495	1203	201	16	8,087,848	17488	2,915	503
11/18/2019	3.00	54644	590	197	13	4523014	519	173	14	8,091,288	3440	1,147	198
11/26/2019	8.00	54711	67	8	1	4524071	1057	132	11	8,102,133	10845	1,356	234
12/3/2019	7.00	64374	9,663	1,380	88	4525231	1160	166	14	8,135,003	32870	4,696	810
12/13/2019	10.00	70142	5,768	577	37	4526907	1676	168	14	8,165,339	30336	3,034	523
12/18/2019	5.00	75331	5,189	1,038	66	4528047	1140	228	19	8,193,507	28168	5,634	971
12/23/2019	5.00	79449	4,118	824	52	4530718	2671	534	44	8,209,321	15814	3,163	545
12/31/2019	8.00	80508	1,059	132	8	4531027	309	39	3	8,223,899	14578	1,822	314
1/9/2020	9.00	86103	5,595	622	40	4533683	2656	295	24	8,254,367	30468	3,385	584
1/16/2020	7.00	103734	17,631	2,519	160	4535796	2113	302	25	8,272,539	18172	2,596	448
1/20/2020	4.00	105431	1,697	424	27	4537200	1404	351	29	8,283,908	11369	2,842	490
1/31/2020	11.00	113861	8,430	766	49	4540849	3649	332	27	8,313,691	29783	2,708	467
2/7/2020	7.00	117498	3,637	520	33	4543848	2999	428	35	8,332,956	19265	2,752	475
2/14/2020	7.00	121469	3,971	567	36	4552157	8309	1,187	97	8,349,090	16134	2,305	397
2/19/2020	5.00	124541	3,072	614	39	4555094	2937	587	48	8,374,124	25034	5,007	863
2/28/2020	9.00	146708	22,167	2,463	157	4566735	11641	1,293	106	8,381,062	6938	771	133
3/2/2020	3.00	148953	2,245	748	48	4571049	4314	1,438	118	8,385,856	4794	1,598	276
3/13/2020	11.00	149853	900	82	5	4593751	22702	2,064	169	8,392,624	6768	615	106
3/18/2020	5.00	157742	7,889	1,578	100	4598740	4989	998	82	8,400,322	7698	1,540	265
3/26/2020	8.00	159833	2,091	261	17	4606185	7445	931	76	8,413,432	13110	1,639	283
3/31/2020	5.00	163103	3,270	654	42	4611095	4910	982	80	8,422,401	8969	1,794	309
4/7/2020	7.00	167821	4,718	674	43	4617547	6452	922	76	8,434,428	12027	1,718	296
4/17/2020	10.00	172123	4,302	430	27	4624643	7096	710	58	8,449,402	14974	1,497	258
4/20/2020	3.00	175212	3,089	1,030	66	4628910	4267	1,422	117	8,458,653	9251	3,084	532
4/29/2020	9.00	179941	4,729	525	33	4636320	7410	823	67	8,475,463	16810	1,868	322
5/5/2020	6.00	187025	7,084	1,181	75	4641637	5317	886	73	8,487,586	12123	2,021	348
5/13/2020	8.00	192131	5,106	638	41	4648300	6663	833	68	8,503,155	15569	1,946	336
5/21/2020	8.00	195481	3,350	419	27	4650021	1721	215	18	8,514,167	11012	1,377	237
5/26/2020	5.00	199803	4,322	864	55	4658236	8215	1,643	135	8,526,988	12821	2,564	442
6/1/2020	6.00	203314	3,511	585	37	4662646	4410	735	60	8,538,275	11287	1,881	324
6/10/2020	9.00	208623	5,309	590	38	4669228	6582	731	60	8,555,285	17010	1,890	326
6/16/2020	6.00	212240	3,617	603	38	4673648	4420	737	60	8,566,542	11257	1,876	323
6/26/2020	10.00	218279	6,039	604	38	4675709	2061	206	17	8,585,150	18608	1,861	321
6/30/2020	4.00	220787	2,508	627	40	4679046	3337	834	68	8,592,670	7520	1,880	324

IESI BETHLEHEM LANDFILL

	A	B	C	D	E	F	H	I	J	K	M	N	O
866		TIME	Phase IV PS-1 (Secondary Flows)				Phase IV PS-1 (Primary flow)						sump
867		(days)	TOTALIZER	GALLONS	FLOW (gpd)	g/ac/day			Totalizer	gallons	flow(gpd)	g/ac/day	Inches
943	7/1/2019	3	465426	3183	1061	41			58087271	23306	7769	299	21.5"
944	7/11/2019	10	474667	9241	924	36			58146872	59601	5960	229	24.0"
945	7/16/2019	5	477526	2859	572	22			58189011	42139	8428	324	21.6"
946	7/24/2019	8	482019	4493	562	22			58251418	62407	7801	300	22.4"
947	7/30/2019	6	485154	3135	523	20			58306461	55043	9174	353	18.9"
948	8/6/2019	7	490422	5268	753	29			58367307	60846	8692	334	13.6"
949	8/15/2019	9	495099	4677	520	20			58422434	55127	6125	236	16.7"
950	8/23/2019	8	499871	4772	597	23			58488300	65866	8233	317	23.3"
951	8/30/2019	7	501925	2054	293	11			58526759	38459	5494	211	23.9"
952	9/6/2019	7	505437	3512	502	19			58566769	40010	5716	220	15.7"
953	9/13/2019	7	508667	3230	461	18			58602412	35643	5092	196	21.5"
954	9/19/2019	6	511026	2359	393	15			58635982	33570	5595	215	14.7"
955	9/27/2019	8	511838	812	102	4			58671134	35152	4394	169	20.1"
956	9/30/2019	3	511838	0	0	0			58696611	25477	8492	327	19.5"
957	10/7/2019	7	511838	0	0	0			58733041	36430	5204	200	19.5"
958	10/15/2019	8	519849	8011	1001	39			58775510	42469	5309	204	8.7"
959	10/22/2019	7	520043	194	28	1			58829110	53600	7657	295	8.1"
960	10/31/2019	9	521277	1234	137	5			58844747	15637	1737	67	8.5"
961	11/9/2019	9	521678	401	45	2			58883755	39008	4334	167	22.1"
962	11/15/2019	6	521678	0	0	0			58915415	31660	5277	203	8.5"
963	11/18/2019	3	521678	0	0	0			58925455	10040	3347	129	21.8"
964	11/26/2019	8	521678	0	0	0			58930245	4790	599	23	21.3"
965	12/3/2019	7	521678	0	0	0			58996053	65808	9401	362	18.3"
966	12/13/2019	10	521678	0	0	0			59034888	38835	3884	149	17.8"
967	12/18/2019	5	521678	0	0	0			59067543	32655	6531	251	18.1"
968	12/23/2019	5	521678	0	0	0			59097424	29881	5976	230	17.9"
969	1/9/2020	17	521678	0	0	0			59392717	295293	17370	668	21.7"
970	1/16/2020	7	521718	40	6	0			60772939	92494	13213	508	24.0"
971	1/20/2020	4	521792	74	19	1			60791604	18665	4666	179	21.9"
972	1/31/2020	11	522081	289	26	1			60839281	47677	4334	167	23.8"
973	2/7/2020	7	522343	262	37	1			60874300	35019	5003	192	18.1"
974	2/14/2020	7	522536	193	28	1			60910938	36638	5234	201	3.8"
975	2/19/2020	5	522547	11	2	0			60938943	28005	5601	215	3.9"
976	2/28/2020	9	522856	309	34	1			60977622	38679	4298	165	23.6"
977	3/2/2020	3	522916	60	20	1			60994698	17076	5692	219	16.4"
978	3/13/2020	11	523250	334	30	1			61049425	54727	4975	191	23.4"
979	3/18/2020	5	523352	102	20	1			61076976	27551	5510	212	21.5"
980	3/26/2020	8	523384	32	4	0			61206109	129133	16142	621	22.3"
981	3/31/2020	5	523567	183	37	1			61308672	102563	20513	789	15.9"
982	4/7/2020	7	523618	51	7	0			61359705	51033	7290	280	13.0"
983	4/17/2020	10	523671	53	5	0			61476748	117043	11704	450	16.4"
984	4/20/2020	3	523700	29	10	0			61504362	27614	9205	354	21.5"
985	4/29/2020	9	523720	20	2	0			61559365	55003	6111	235	18.9"
986	5/5/2020	6	523755	35	6	0			61595079	35714	5952	229	13.4"
987	5/13/2020	8	523844	89	11	0			61641720	46641	5830	224	12.1"
988	5/21/2020	8	523998	154	19	1			61661891	20171	2521	97	20.1"
989	5/26/2020	5	524039	41	8	0			61720812	58921	11784	453	18.9"
990	6/1/2020	6	524118	79	13	1			61751968	31156	5193	200	19.3"
991	6/10/2020	9	524195	77	9	0			61804170	52202	5800	223	22.1"
992	6/16/2020	6	524277	82	14	1			61833245	29075	4846	186	20.6"
993	6/26/2020	10	524301	24	2	0			61891777	58532	5853	225	13.6"
994	6/30/2020	4	524483	182	46	2			61910684	18907	4727	182	22.3"

IESI BETHLEHEM LANDFILL

866	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
867	TIME	Phase IV PS-2 (Secondary Flows)					Phase IV PS-2 (Primary)						
	(days)	TOTALIZER	GALLONS	FLOW (gpd)	g/ac/day			Totalizer	gallons	flow(gpd)	g/ac/day	inches	sump
943	7/1/2019	3	7161	0	0	0.0		21244305	35027	11676	1101	6.5"	
944	7/11/2019	10	7161	0	0	0.0		21272410	28105	2811	265	7.2"	
945	7/16/2019	5	7161	0	0	0.0		21291982	19572	3914	369	7.1"	
946	7/24/2019	8	7161	0	0	0.0		21313201	21219	2652	250	7.1"	
947	7/30/2019	6	7161	0	0	0.0		21325920	12719	2120	200	7.2"	
948	8/6/2019	7	7161	0	0	0.0		21332564	6644	949	90	7.3"	
949	8/15/2019	9	7161	0	0	0.0		21343052	10488	1165	110	3.4"	
950	8/23/2019	8	7161	0	0	0.0		21460217	117165	14646	1382	3.6"	
951	8/30/2019	7	7210	49	7	0.7		21498716	38499	5500	519	2.5"	
952	9/6/2019	7	7210	0	0	0.0		21531663	32947	4707	444	2.5"	
953	9/13/2019	7	7210	0	0	0.0		21563949	32286	4612	435	2.5"	
954	9/19/2019	6	7210	0	0	0.0		21591096	27147	4525	427	2.5"	
955	9/27/2019	8	7210	0	0	0.0		21597081	5985	748	71	2.4"	
956	9/30/2019	3	7210	0	0	0.0		21642027	44946	14982	1413	2.5"	
957	10/7/2019	7	7210	0	0	0.0		21673491	31464	4495	424	2.6"	
958	10/15/2019	8	7210	0	0	0.0		21703033	29542	3693	348	2.5"	
959	10/22/2019	7	7210	0	0	0.0		21763421	60388	8627	814	3.1"	
960	10/31/2019	9	7210	0	0	0.0		21773029	9608	1068	101	3.1"	
961	11/9/2019	9	7210	0	0	0.0		21816870	43841	4871	460	3.3"	
962	11/15/2019	6	7210	0	0	0.0		21841826	24956	4159	392	3.2"	
963	11/18/2019	3	7210	0	0	0.0		21854481	12655	4218	398	3.1"	
964	11/26/2019	8	7210	0	0	0.0		21860041	5560	695	66	2.9"	
965	12/3/2019	7	7263	53	8	0.7		21907112	47071	6724	634	3.6"	
966	12/13/2019	10	7263	0	0	0.0		21948045	40933	4093	386	4.0"	
967	12/18/2019	5	7263	0	0	0.0		21979040	30995	6199	585	3.9"	
968	12/23/2019	5	7263	0	0	0.0		21988606	9566	1913	180	4.0"	
969	1/9/2020	17	7263	0	0	0.0		22073720	85114	5007	472	4.1"	
970	1/16/2020	7	7263	0	0	0.0		22101039	27319	3903	368	4.0"	
971	1/20/2020	4	7263	0	0	0.0		22117251	16212	4053	382	4.1"	
972	1/31/2020	11	7263	0	0	0.0		22159215	41964	3815	360	4.5"	
973	2/7/2020	7	7263	0	0	0.0		22189631	30416	4345	410	4.5"	
974	2/14/2020	7	7263	0	0	0.0		22223467	33836	4834	456	5.6"	
975	2/19/2020	5	7263	0	0	0.0		22227486	4019	804	76	5.3"	
976	2/28/2020	9	7263	0	0	0.0		22318120	90634	10070	950	5.3"	
977	3/2/2020	3	7263	0	0	0.0		22355010	36890	12297	1160	5.2"	
978	3/13/2020	11	7263	0	0	0.0		22383929	28919	2629	248	4.7"	
979	3/18/2020	5	7263	0	0	0.0		22403059	19130	3826	361	4.4"	
980	3/26/2020	8	7263	0	0	0.0		22431833	28774	3597	339	4.8"	
981	3/31/2020	5	7263	0	0	0.0		22451677	19844	3969	374	5.1"	
982	4/7/2020	7	7263	0	0	0.0		22480883	29206	4172	394	5.1"	
983	4/17/2020	10	7263	0	0	0.0		22511958	31075	3108	293	5.1"	
984	4/20/2020	3	7263	0	0	0.0		22532039	20081	6694	631	5.3"	
985	4/29/2020	9	7263	0	0	0.0		22565254	33215	3691	348	5.4"	
986	5/5/2020	6	7263	0	0	0.0		22590101	24847	4141	391	5.5"	
987	5/13/2020	8	7263	0	0	0.0		22623030	32929	4116	388	5.4"	
988	5/21/2020	8	7263	0	0	0.0		22643012	19982	2498	236	5.0"	
989	5/26/2020	5	7263	0	0	0.0		22670532	27520	5504	519	5.1"	
990	6/1/2020	6	7263	0	0	0.0		22689706	19174	3196	301	5.0"	
991	6/10/2020	9	7335	72	8	0.8		22716901	27195	3022	285	4.9"	
992	6/16/2020	6	7335	0	0	0.0		22734209	17308	2885	272	5.0"	
993	6/26/2020	10	7335	0	0	0.0		22762029	27820	2782	262	5.0"	
994	6/30/2020	4	7335	0	0	0.0		22773024	10995	2749	259	5.0"	

IESI BETHLEHEM LANDFILL

	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	
866	Phase IV PS-3 (Secondary)						Phase IV PS-3 (Primary)							sump
867	Date	days	totalizer	gallon	flow(gpd)	g/ac/day			totalizer	gallons	flow(gpd)	g/ac/day	Inches	
943	7/1/2019	3	43736	0	0	0			11178444	35367	11789	2841	23.4"	
944	7/11/2019	10	43736	0	0	0			11235487	57043	5704	1375	16.4"	
945	7/16/2019	5	43736	0	0	0			11252551	17064	3413	822	20.6"	
946	7/24/2019	8	43736	0	0	0			11328050	75499	9437	2274	27.3"	
947	7/30/2019	6	43736	0	0	0			11379440	51390	8565	2064	16.6"	
948	8/6/2019	7	43736	0	0	0			11424479	45039	6434	1550	25.7"	
949	8/15/2019	9	43736	0	0	0			11443070	18591	2066	498	16.6"	
950	8/23/2019	8	43736	0	0	0			11490596	47526	5941	1432	26.2"	
951	8/30/2019	7	43750	14	2	0			11513300	22704	3243	782	16.4"	
952	9/6/2019	7	43758	8	1	0			11534203	20903	2986	720	15.8"	
953	9/13/2019	7	43758	0	0	0			11556100	21897	3128	754	15.1"	
954	9/19/2019	6	43758	0	0	0			11576313	20213	3369	812	18.9"	
955	9/27/2019	8	43758	0	0	0			11599711	23398	2925	705	21.2"	
956	9/30/2019	3	43758	0	0	0			11611153	11442	3814	919	22.5"	
957	10/7/2019	7	43997	239	34	3			11630409	19256	2751	663	25.9"	
958	10/15/2019	8	43997	0	0	0			11652565	22156	2770	667	24.5"	
959	10/22/2019	7	43997	0	0	0			11693441	40876	5839	1407	22.1"	
960	10/31/2019	9	43997	0	0	0			11714501	21060	2340	564	21.0"	
961	11/9/2019	9	43997	0	0	0			11787041	72540	8060	1942	17.9"	
962	11/15/2019	6	43997	0	0	0			11832455	45414	7569	1824	23.2"	
963	11/18/2019	3	43999	2	1	0			11884455	52000	17333	4177	21.3"	
964	11/26/2019	8	44050	51	6	1			11891022	6567	821	198	21.4"	
965	12/3/2019	7	44835	785	112	11			11921991	30969	4424	1066	27.2"	
966	12/13/2019	10	44835	0	0	0			11988929	66938	6694	1613	21.3"	
967	12/18/2019	5	44836	1	0	0			12019804	30875	6175	1488	21.1"	
968	12/23/2019	5	44836	0	0	0			12027360	7556	1511	364	21.3"	
969	1/9/2020	17	44836	0	0	0			12254762	227402	13377	3223	15.5"	
970	1/16/2020	7	44842	6	1	0			12294996	40234	5748	1385	21.5"	
971	1/20/2020	4	44842	0	0	0			12320670	25674	6419	1547	18.1"	
972	1/30/2020	10	44842	0	0	0			12373955	53285	5329	1284	21.2"	
973	2/7/2020	8	44842	0	0	0			12386988	13033	1629	393	18.1"	
974	2/14/2020	7	44842	0	0	0			12401058	14070	2010	484	27.4"	
975	2/19/2020	5	44842	0	0	0			12407059	6001	1200	289	27.1"	
976	2/28/2020	9	44842	0	0	0			12480224	73165	8129	1959	23.0"	
977	3/2/2020	3	44842	0	0	0			12500429	20205	6735	1623	23.0"	
978	3/13/2020	11	44842	0	0	0			12578488	78059	7096	1710	25.1"	
979	3/18/2020	5	44842	0	0	0			12613564	35076	7015	1690	27.4"	
980	3/26/2020	8	44863	21	3	0			12665856	52292	6537	1575	25.4"	
981	3/31/2020	5	44863	0	0	0			12700297	34441	6888	1660	23.2"	
982	4/7/2020	7	44863	0	0	0			12753137	52840	7549	1819	16.4"	
983	4/17/2020	10	44863	0	0	0			12817553	64416	6442	1552	24.2"	
984	4/20/2020	3	44863	0	0	0			12859101	41548	13849	3337	20.4"	
985	4/29/2020	9	44863	0	0	0			12920054	60953	6773	1632	25.9"	
986	5/5/2020	6	44863	0	0	0			12978826	58772	9795	2360	17.2"	
987	5/13/2020	8	44863	0	0	0			13061671	82845	10356	2495	23.8"	
988	5/21/2020	8	44863	0	0	0			13088892	27221	3403	820	21.3"	
989	5/25/2020	5	44863	0	0	0			13157932	69040	13808	3327	21.1"	
990	6/1/2020	6	44863	0	0	0			13188082	30150	5025	1211	20.4"	
991	6/10/2020	9	44863	0	0	0			13226025	37943	4216	1016	27.2"	
992	6/16/2020	6	44863	0	0	0			13249608	23583	3931	947	22.3"	
993	6/26/2020	10	44863	0	0	0			13274886	25278	2528	609	17.5"	
994	6/30/2020	4	44863	0	0	0			13284260	9374	2344	565	20.4"	

IESI BETHLEHEM LANDFILL

865	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
866	Phase IV PS-4 (Secondary)						Phase IV PS-4 (Primary)						sump
867	Date	days	totalizer	gallon	flow(gpd)	g/ac/day			totalizer	gallons	flow(gpd)	g/ac/day	inches
943	7/1/2019	3	7204	1337	446	42			3767723	8399	2800	675	17.0"
944	7/11/2019	10	8125	921	92	9			4498897	731174	73117	17619	26.1"
945	7/16/2019	5	8592	467	93	9			4923581	424684	84937	20467	18.4"
946	7/24/2019	8	8592	0	0	0			5664842	741261	92658	22327	30"
947	7/30/2019	6	9032	440	73	7			5733986	69144	11524	2777	22"
948	8/6/2019	7	9032	0	0	0			5754642	20656	2951	711	24.3"
949	8/15/2019	9	9032	0	0	0			5765687	11045	1227	296	24.4"
950	8/23/2019	8	9032	0	0	0			6038789	273102	34138	8226	28.1"
951	8/30/2019	7	9116	84	12	1			6134265	95476	13639	3287	20.6"
952	9/6/2019	7	9189	73	10	1			6147998	13733	1962	473	22.1"
953	9/13/2019	7	9191	2	0	0			6159500	11502	1643	396	29.2"
954	9/19/2019	6	9191	0	0	0			6168665	9165	1528	368	24.6"
955	9/27/2019	8	9191	0	0	0			6171665	3000	375	90	29.7"
956	9/30/2019	3	9191	0	0	0			6182314	10649	3550	855	30.8"
957	10/7/2019	7	9191	0	0	0			6196175	13861	1980	477	25.5"
958	10/15/2019	8	9191	0	0	0			6226108	29933	3742	902	28.5"
959	10/22/2019	7	9394	203	29	3			6246068	19960	2851	687	22.3"
960	10/31/2019	9	9618	224	25	2			6260571	14503	1611	388	21.3"
961	11/9/2019	9	9619	1	0	0			6294895	34324	3814	919	28"
962	11/15/2019	6	9619	0	0	0			6303289	8394	1399	337	16.4"
963	11/18/2019	3	9619	0	0	0			6307164	3875	1292	311	17.8"
964	11/26/2019	8	9619	0	0	0			6316287	9123	1140	275	21.1"
965	12/3/2019	7	9683	64	9	1			6339235	22948	3278	790	29.3"
966	12/13/2019	10	10,108	425	43	4			6388537	49302	4930	1188	29.4"
967	12/18/2019	5	10546	438	88	8			6423205	34668	6934	1671	28.7"
968	12/23/2019	5	10546	0	0	0			6434183	10978	2196	529	28.1"
969	1/9/2020	17	10546	0	0	0			6518668	84485	4970	1198	28.0"
970	1/16/2020	7	10623	77	11	1			6534974	16306	2329	561	28.6"
971	1/20/2020	4	10665	42	11	1			6544237	9263	2316	558	27.1"
972	1/31/2020	11	10733	68	6	1			6579233	34996	3181	767	14.5"
973	2/7/2020	7	11209	476	68	6			6595381	16148	2307	556	30.7"
974	2/14/2020	7	11233	24	3	0			6640266	44885	6412	1545	20.5"
975	2/19/2020	5	11233	0	0	0			6648284	8018	1604	386	22.1"
976	2/28/2020	9	11298	65	7	1			6683501	35217	3913	943	17.3"
977	3/2/2020	3	11298	0	0	0			6688138	4637	1546	372	29.5"
978	3/13/2020	11	11299	1	0	0			6711572	23434	2130	513	14.0"
979	3/18/2020	5	11299	0	0	0			6718305	6733	1347	324	25.2"
980	3/26/2020	8	11299	0	0	0			6739269	20964	2621	631	15.7"
981	3/31/2020	5	11679	380	76	7			6753055	13786	2757	664	30.8"
982	4/7/2020	7	11730	51	7	1			6769035	15980	2283	550	23.0"
983	4/17/2020	10	11730	0	0	0			6790083	21048	2105	507	28.7"
984	4/20/2020	3	11730	0	0	0			6803901	13818	4606	1110	13.2"
985	4/29/2020	9	11730	0	0	0			6822395	18494	2055	495	27.0"
986	5/5/2020	6	11730	0	0	0			6840574	18179	3030	730	30.8"
987	5/13/2020	8	11730	0	0	0			6865709	25135	3142	757	25.8"
988	5/21/2020	8	11730	0	0	0			6870318	4609	576	139	26.4"
989	5/26/2020	5	11730	0	0	0			6879605	9287	1857	448	28.4"
990	6/1/2020	6	11803	73	12	1			6888676	9071	1512	364	25.0"
991	6/10/2020	9	11803	0	0	0			6900277	11601	1289	311	27.4"
992	6/16/2020	6	11803	0	0	0			6909549	9272	1545	372	14.8"
993	6/26/2020	10	12223	420	42	4			6920880	11331	1133	273	27.6"
994	6/30/2020	4	12224	1	0	0			6927925	7045	1761	424	16.3"

Bethlehem Landfill Odor Complaint Log (2335 Applebutter Rd, Bethlehem, PA 18017)

Date	Time	Address	Distance from Landfill (miles)	Weather Data (Allentown (KABE))			Residence / Drive-by Description / Notes	Gas Management Data			Date of Initial Response	Addressed in Insp Report Dated
				Skies	Temperature	Wind (out of)		Flare (scfm)	BRE (scfm)	Total (scfm)		
01/07/20	8:53	Saucun Ave., Steel City	0.893	Partly Cloudy	34.8	E	Landfill gas odor detected on property	2900	0	2900	1/9/2020	1/9/20 (WMI)
01/07/20	10:52	Johnston Ave., Steel City	1.170	Partly Cloudy	38.6	E	Slight gas odor that is intermittent	2925	0	2925	1/9/2020	1/9/20 (WMI)
01/14/20	9:30	Johnston Ave., Steel City	1.170	Overcast	36.3	W	Slight gas odor at ~9:30 AM - 10:55 AM on property	2995	0	2995	1/31/2020	4/24/20 (WMI)
01/23/20	6:23	Saucun Ave., Steel City	0.883	Partly Cloudy	22.8	E	Went to let dog out & when opened door can smell landfill gas. It is strong now, but complainant is on their way out.	2901	0	2901	1/31/2020	4/24/20 (WMI)
01/23/20	9:01	Johnston Ave., Steel City	1.170	Partly Cloudy	24.2	NW	Gas odor on property, noticed when went outside to start car. Complainant is on their way out.	2898	0	2898	1/31/2020	4/24/20 (WMI)
01/24/20	18:09	Johnston Ave., Steel City	1.170	Partly Cloudy	46.0	WNW	Landfill gas odor, has been going on for 2 hours.	2930	0	2930	1/31/2020	4/24/20 (WMI)
01/30/20	17:59	Jefferson Ave., Steel City	0.839	Clear	27.6	SSW	The landfill gas is horrible on property.	2920	0	2920	1/31/2020	4/24/20 (WMI)
01/30/20	18:10	Johnston Ave., Steel City	1.170	Scattered Clouds	27.9	SSW	The odor of landfill gas is very strong on property	2940	0	2940	1/31/2020	4/24/20 (WMI)
01/30/20	18:18	Saucun Ave., Steel City	0.883	Scattered Clouds	27.9	SSW	Landfill odors on property for the past 5 min	2941	0	2941	1/31/2020	4/24/20 (WMI)
01/30/20	18:19	Missell Ave., Steel City	0.796	Scattered Clouds	27.9	SSW	Landfill gas smell is very strong for the last couple of hours on property	2941	0	2941	1/31/2020	4/24/20 (WMI)
01/31/20	14:12	Johnston Ave., Steel City	1.170	Mostly Cloudy	39.5	NW	There is a slight landfill gas odor again today on property	3018	0	3018	2/5/2020	4/24/20 (WMI)
02/05/20	20:20	Saucun Ave., Steel City	0.893	Partly Cloudy	35.8	SSW	There is a terrible landfill odor tonight that can be detected on their property.	2952	0	2952	2/6/2020	4/24/20 (WMI)
03/03/20	13:28	Johnston Ave., Steel City	1.170	Cloudy	41.2	SW	Detected a gas odor on property from the landfill	2890	0	2890	3/5/2020	4/24/20 (WMI)
03/05/20	7:17	Johnston Ave., Steel City	0.980	Cloudy	43.2	NW	Smelled a garbage/gas odor on property	2879	0	2879	3/5/2020	4/24/20 (WMI)
03/24/20	18:58	Saucun Ave., Steel City	0.883	Partly Cloudy	45.3	SSW	Horrible landfill gas odor on property	2903	0	2903	4/24/2020	4/24/20 (WMI)
04/29/20	16:34	Johnston Ave., Steel City	1.170	Mostly Clear	53.1	SSW	Landfill gas odor at home. Has been going on for 5 hours.	3490	0	3490	5/13/2020	6/24/20 (WMI)
05/06/20	12:29	Johnston Ave., Steel City	1.170	Cloudy	48.4	WNW	Strong landfill gas odor on property	3389	0	3389	5/13/2020	6/24/20 (WMI)
05/18/20	14:51	Jefferson Ave., Steel City	0.839	Cloudy	65.1	SW	Strong gas odor on property	3450	0	3450	5/27/2020	6/24/20 (WMI)
05/20/20	19:04	Johnston Ave., Steel City	1.170	Mostly Sunny	49.9	SW	Can smell landfill gas on property	3517	0	3517	5/27/2020	6/24/20 (WMI)
05/23/20	20:09	Johnston Ave., Steel City	1.170	Cloudy	58.1	WNW	The landfill gas smell is very strong and the wind is blowing it their way.	3530	0	3530	5/27/2020	6/24/20 (WMI)
06/18/20	20:36	Johnston Ave., Steel City	1.170	Cloudy	71.2	SW	Very strong smell of methane gas at home, has been going on for 45 minutes.	3680	0	3680	6/24/2020	6/24/20 (WMI)