

Bethlehem Landfill Committee Meeting Minutes

Date: Thursday, March 18, 2021, **Via Zoom**
Time: 1:00 p.m.
Location: Lower Saucon Township
Attendance: **Hanover Engineering**: Scott Brown; **Bethlehem Landfill**: Astor Lawson & David Pannucci; **Members**: Hazem Hijaz & Neil Ortwein; **Staff Members**: Leslie Huhn & Diane Palik; **Council Liaison**: Tom Carocci. **Attendees**: Jason Banonis & Priscilla deLeon, Council members; Victoria Ophhof-Cordaro, Rob Ket, and Alan Mege.

Mr. Brown stated for those who may be attending for the first time he said what we do is go over each agenda item, and then a committee member can ask a question. Astor and Dave will answer the questions. If nobody jumps in, Dave will keep running through his report until we wrap up. The committee will then be asked if they have any questions. They will be answered by the Landfill or by Scott. Once the committee is done, then typically it would be open to the public and you would need to raise your hand and Leslie would see that, and when she unmutes you to present your question, you would state your name and address and proceed with your question. Mrs. Huhn said for anyone who is participating today, the agenda and back-up information is on our website.

Mr. Pannucci reviewed the monthly tonnages for February:

	<u>December</u>	<u>January</u>	<u>February</u>
MSW	7,924.91	14,399.82	15,555.13
C&D	3,290.58	4,975.63	4,780.65
Residual (Total)	986.67	1,403.96	1,155.71
Asbestos	0.00	0.00	0.00
Alternate Daily cover	0.00	1,472.93	2,912.82
Sewage Sludge	784.26 (6.04%)	499.15 (2.19%)	456.84 (1.84%)
Out of State (Total)	4,907.88 (38%)	10,618.77 (47%)	15,031.89 (60%)
Recycle	9 (89%)	9 (89%)	6 (83%)

Mr. Pannucci said there were three Form U Submittals. Two on February 23, 2021 and one on March 2, 2021. The second quarter sampling event is scheduled for May 24 – 27, 2021. There were two correspondence/reports which were the Abatement Well Reports for February 2021 and Overweight Reports for February 2021.

Mr. Pannucci said there were two DEP inspections on February 26 and March 4, 2021. There were two Host Municipal Inspections on March 4 and 18, 2021.

Mr. Pannucci said there were 1,939 total trucks for February with 63 overweight, 56 warnings, and 7 suspensions. The February Average Flare Flow was 3,201 SCFM and there were no shutdowns or malfunctions in February. The North Slope Road had no repairs, and 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. The flow rates continue to be monitored and reported.

Mr. Pannucci said there was one radioactive load for February (I-131). The waste stream met level 1 requirements and was disposed of onsite. The waste operations are in SE-1B and SE-2AB Phase 1.

Mr. Pannucci said the odor complaint log is attached.

Mr. Hijazi asked about the inspection by the DEP. Mr. Lawson said it was a pretty standard inspection. She came out and we took the tour and it was after the snow melt. She saw them working on everything. Mr. Lawson asked if there was something specific you were looking for? Mr. Hijazi said he got the report and it didn't seem like there was anything flagged as non-compliant, but he just wanted to get their feedback if there was anything else. Mr. Lawson said it's pretty straight forward. With the snow melting, they had some erosion on the slopes, but they were already working beforehand and are now working on it because of rain. There was nothing too bad or out of

the ordinary especially after 2 feet of snow that melted. Scott Brown was there also. Mr. Brown said they did a good job handling it and they were out with the sweeper on Applebutter Road and trying to keep it clean as best as they could. Mr. Brown said the landfill ordered some new mud control devices to help control the mud, and that seemed to satisfy DEP as the landfill was being proactive. Other than that, Amy did not seem to have any issues of the activity going on. She looked at the capping operation on the western end of the landfill and had no problems with progress on that front. Being out today, the landfill made substantial progress. He was actually surprised how much work they got done from the last time they were out there with Amy until today. Most of the capping is down and the wind shield is on top of that material so that area appears to be about 99% complete. There may be some minor sections that need to be buttoned up yet but it looks very good. Mr. Pannucci said that's accurate. The liner is down and complete and there's some minor things that need to be done to complete the project.

Mrs. Huhn said she had a question submitted to her. You said there were no flare shutdowns for the month of February, but the question was posed have you seen any odor complaints that might tie into anytime the flare has been shut down. Mr. Pannucci said in the past? Mrs. Huhn said it was posed as in the last month, if the flare wasn't shut down then that wouldn't tie into it. Have you noticed any for this year yet? Mr. Pannucci said he'd have to go back and look through it. If the flare is down for an extended period of time, sure, they would look at that. Mrs. Huhn said she'll get back to them and let them know there were no flare shutdowns for the month of February.

Mr. Hijazi said he doesn't think there were any shutdowns this year, is he correct? Mr. Pannucci said he thinks that's right, but he'd have to look back. Mrs. Huhn said she can look back through the reports from January. Mr. Carocci said he thought the last shutdown was like Christmas Eve last year. You're looking at the February 26th when Matt Glowgoski came out from DEP and he did a site observation and said no issues – no litter observed; odor – no issues observed; daily cover – no issues observed; intermediate cover – no issues observed; and then all the leachate went directly to the Bethlehem WWTP. That seems like a good report to him. Good job with the work.

Mr. Carocci said can you address the odor complaints, are they down year-to-date? Mr. Pannucci said yes, compared with last year's numbers to this year, with the efforts they made operationally and the capping has helped with keeping things contained. All those efforts contribute to negating any potential offsite odors and with the flare running strong, all the efforts they've been making in the last year or so have contributed to the complaints overall number being lower. Mr. Carocci said great, you are trending the right way.

Mr. Hijazi said in the DEP inspection report, there's a standing issue from April 2020, it says you have addressed and responded, but it hasn't been resolved. Mr. Brown said that was before the western capping. Mr. Pannucci said he doesn't know how they are going to wrap that up. They've come to an agreement with them on a capping schedule and with that temp capping completed, they agreed to step 1; and step 2 is capping for this year. That will be an ongoing effort on their end to meet that. He doesn't know, on a paperwork standpoint, when it's going to be resolved. Mr. Hijazi said they do say you have responded, so it's a matter of time. Mr. Pannucci said they've gone back and forth to them and had meetings and that's where they agreed to a capping schedule and plan for now and the coming years and what they are going to do to catch back up on their capping efforts.

The next meeting is Thursday, April 15, 2021 at 6:00 p.m. The meeting ended at 1:17 p.m.

Agenda
Bethlehem Landfill Committee
March 18, 2021
1:00 p.m.

- I. Roll Call
- II. Waste Activities
 - A. Monthly Tonnages
 - B. Form U Submittals
- III. Annual Groundwater Trend Analysis
- IV. Correspondence/Reports
- V. Landfill Operations
 - A. Department of Environmental Protection Inspection
 - B. Host Municipal Inspections
 - C. Commercial Waste Vehicles
 - D. Flare Operations & Gas Collection
 - E. Abatement System & Leachate Collection
 - F. Radiation Monitoring
 - G. SE Realignment Construction Activities
 - H. Complaints Received by Waste Connections
 - I. Leachate & Groundwater Demand Report
- VI. Public Comment

**Bethlehem Landfill Company
LST Committee Meeting February 2021
March 18, 2021**

Agenda Items

I. Waste Activities

Monthly Tonnages

	December	January	February
MSW	7,924.91	14,399.82	15,555.13
C&D	3,290.58	4,975.63	4,780.65
Residual (Total)	986.67	1,403.96	1,155.71
Asbestos	0.00	0.00	0.00
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Sewage Sludge	784.26 (6.04%)	499.15 (2.19%)	456.84 (1.84%)
Out of state (Total)	4,907.88 (38%)	10,618.77(47%)	15,031.89 (60%)
Recycle	9 (89%)	9 (89%)	6 (83%)

<u>Form U Submittals</u>	<u>Waste</u>	<u>Approval Date</u>
City of Bethlehem WWTP	WWTP Sludge (MW3)	2/23/21
City Recycling Corp.	Wood Wastes (403)	2/23/21
Evergreen Recycling Solutions	Wood Wastes (403)	3/2/21

II. Annual Groundwater Trend Analysis

Second quarter sampling event is scheduled for 5/24/21 – 5/27/21.

III. Correspondence / Reports

Abatement Well Reports – February 2021	3/2/21
Overweight Report – February 2021	3/2/21

IV. Landfill Operations

Department of Environmental Protection Inspections

2/26/21 M. Glogowski (Solid Waste)
3/4/21 A. Faulch (Solid Waste)

Host Municipal Inspection

3/4/21 S. Brown
3/18/21 S. Brown

<u>Commercial Waste Vehicles</u>	December	January	February
Total # Trucks	1,440	2,137	1,939
	December	January	February
Overweight	14	42	63
Warnings	13	35	56
Suspensions	1	7	7

December – TT=2, RL=10, RO=2 January – TT=33, RL=7, RO=2 February – TT=48, RL=13, RO=2

FL = front loader, RO = rolloff, TT=tractor trailer, RL = rear loader, SL = side loader, DT = triaxial dump

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.

February Average Flare Flow = 3,201 SCFM

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

None

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.

Radiation Monitoring

There was 1 radioactive load for February (I-131). This waste stream met level 1 requirements and was disposed of onsite.

SE Realignment Construction Activities

Waste operations were in SE-1B & SE-2AB Phase I.

Complaints received by Waste Connections

See attached.

BETHLEHEM LANDFILL
LEACHATE DEMAND REPORT

February 2021

<u>Location</u>	<u>Total gallons</u>
LMC-6	25,900
LMC-7	72,799
LMC-8	188,359
PS-4	755,314
LMC-10	2,712,537
PS-1	249,342
PS-2	108,855
PS-3	121,859
Phase-IV	480,056

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	2,712,537
<u>Phase IV</u>	<u>480,056</u>
TOTAL	3,192,593 gallons

Total Leachate

Leachate	1,042,372
<u>Phase IV</u>	<u>480,056</u>
TOTAL	1,522,428 gallons

LMC-10 Flow – Abatement System Flow = Leachate System Flow (gallons).
Abatement System Flow = 1,670,165 gallons (Neptune Flow meters)

BETHLEHEM LANDFILL
GROUNDWATER DEMAND REPORT

February 2021

Well No.	Water Level (avg. ft SWL*)	Flow (avg. GPM) (Total gal)	
AB-1R	64.7	9.8	439,156
AB-2	47.2	2.1	91,920
AB-3	25.6	0.4	16,500
AB-4	30.6	2.2	99,668
AB-5	41.9	0.6	28,397
AB-6	42.4	3.4	150,208
AB-7	41.4	2.9	127,696
AB-8	17.0	0.0	0
AB-9	67.0	0.5	20,488
AB-10	129.8	15.6	696,132
TW-1	N/A	<0.1	0.0
Total Flow		1,670,165 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 (gpd)	G/A/D	TOTALIZER	GALLONS	LOW (gpd)	G/A/D	TOTALIZER	GALLONS	LOW (gpd)	G/A/D
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
7/10/2020	10.00	227475	6,688	669	43	13720	0	0	0	8,610,389	17719	1,772	306
7/16/2020	6.00	232249	4,774	796	51	18719	4999	833	68	8,621,690	11301	1,884	325
7/22/2020	6.00	238254	6,005	1,001	64	23823	5104	851	70	8,632,404	10714	1,786	308
7/31/2020	9.00	243236	4,982	554	35	28722	4899	544	45	8,643,618	11214	1,246	215
8/7/2020	7.00	251960	8,724	1,246	79	37490	8768	1,253	103	8,661,563	17945	2,564	442
8/13/2020	6.00	258928	6,968	1,161	74	63837	26347	4,391	360	8,674,376	12813	2,136	368
8/18/2020	5.00	264735	5,807	1,161	74	85793	21956	4,391	360	8,685,055	10679	2,136	368
8/31/2020	13.00	277404	12,669	975	62	131257	45464	3,497	287	8,708,098	23043	1,773	306
9/11/2020	11.00	284531	7,127	648	41	143812	12555	1,141	94	8,719,788	11690	1,063	183
9/16/2020	5.00	289276	4,745	949	60	161830	18018	3,604	295	8,733,483	13695	2,739	472
9/25/2020	9.00	295026	5,750	639	41	177725	15895	1,766	145	8,747,811	14328	1,592	274
9/30/2020	5.00	298590	3,564	713	45	188329	10604	2,121	174	8,757,540	9729	1,946	335
10/5/2020	5.00	301244	2,654	531	34	200556	12227	2,445	200	8,766,239	8699	1,740	300
10/15/2020	10.00	307119	5,875	588	37	212962	12406	1,241	102	8,779,385	13146	1,315	227
10/20/2020	5.00	312431	5,312	1,062	68	222764	9802	1,960	161	8,790,143	10758	2,152	371
10/30/2020	10.00	315866	3,435	344	22	237655	14891	1,489	122	8,801,652	11509	1,151	198
11/9/2020	10.00	322167	6,301	630	40	257053	19398	1,940	159	8,818,016	16364	1,636	282
11/19/2020	10.00	328799	6,632	663	42	278483	21430	2,143	176	8,833,996	15980	1,598	276
11/25/2020	6.00	335251	6,452	1,075	68	293052	14569	2,428	199	8,848,214	14218	2,370	409
11/30/2020	5.00	337198	1,947	389	25	305650	12598	2,520	207	8,854,271	6057	1,211	209
12/10/2020	10.00	343832	6,634	663	42	325487	19837	1,984	163	8,868,884	14613	1,461	252
12/16/2020	6.00	347443	3,611	602	38	348814	23327	3,888	319	8,889,148	20264	3,377	582
12/21/2020	5.00	352534	5,091	1,018	65	364113	15299	3,060	251	8,889,148	0	0	0
12/30/2020	9.00	359699	7,165	796	51	374477	10364	1,152	94	8,889,148	0	0	0
1/6/2021	7.00	363431	3,732	533	34	390420	15943	2,278	187	7,431	0	0	0
1/11/2021	5.00	369669	6,238	1,248	79	407758	17338	3,468	284	19,952	12521	2,504	432
1/22/2021	11.00	377770	8,101	736	47	436016	28258	2,569	211	40,966	21014	1,910	329
1/29/2021	7.00	382975	5,205	744	47	453468	17452	2,493	204	54,393	13427	1,918	331
2/4/2021	6.00	387321	4,346	724	46	467979	14511	2,419	198	66,164	11771	1,962	338
2/12/2021	8.00	392856	5,535	692	44	485238	17259	2,157	177	82,543	16379	2,047	353
2/17/2021	5.00	396808	3,952	790	50	496334	11096	2,219	182	94,692	12149	2,430	419
2/26/2021	9.00	408643	11,835	1,315	84	514328	17994	1,999	164	114,723	20031	2,226	384
3/1/2021	3.00	408918	275	92	6	526267	11939	3,980	326	127,213	12490	4,163	718

	A	B	C				D				E				F				J				K				L				M				O				R				S				T
1024		TIME	LMC-6 (Secondary Flows)												LMC-7 (Secondary Flows)												LMC-8 (Secondary Flows)																				
1025		(days)	TOTALIZER	GALLONS	FLOW (gpd)	G/A/D	TOTALIZER	GALLONS	FLOW (gpd)	G/A/D	TOTALIZER	GALLONS	FLOW (gpd)	G/A/D	TOTALIZER	GALLONS	FLOW (gpd)	G/A/D	TOTALIZER	GALLONS	FLOW (gpd)	G/A/D	TOTALIZER	GALLONS	FLOW (gpd)	G/A/D	TOTALIZER	GALLONS	FLOW (gpd)	G/A/D	TOTALIZER	GALLONS	FLOW (gpd)	G/A/D													
1136	3/2/2020	3.00	14326	526	175	11	2425304	0	0	0	0	7,160,691	16675	5,558	958																																
1137	3/13/2020	11.00	14869	543	49	3	2425304	0	0	0	7,160,717	26	2	0																																	
1138	3/18/2020	5.00	15031	162	32	2	2425304	0	0	0	7,188,922	28205	5,641	973																																	
1139	3/26/2020	8.00	15529	498	62	4	2425304	0	0	0	7,229,561	40639	5,080	876																																	
1140	3/31/2020	5.00	15777	248	50	3	2425304	0	0	0	7,235,492	5931	1,186	205																																	
1141	4/7/2020	7.00	16112	335	48	3	2425304	0	0	0	7,271,027	35535	5,076	875																																	
1142	4/17/2020	10.00	16505	393	39	3	2425304	0	0	0	7,272,544	1517	152	26																																	
1143	4/20/2020	3.00	16760	255	85	5	2425304	0	0	0	7,305,255	32711	10,904	1,880																																	
1144	4/29/2020	9.00	17203	443	49	3	2425304	0	0	0	7,325,578	20323	2,258	389																																	
1145	5/5/2020	6.00	17503	300	50	3	2425304	0	0	0	7,325,591	13	2	0																																	
1146	5/13/2020	8.00	17888	385	48	3	2425304	0	0	0	7,365,096	39505	4,938	851																																	
1147	5/21/2020	8.00	18002	114	14	1	2425304	0	0	0	7,365,301	205	26	4																																	
1148	5/26/2020	5.00	18519	517	103	7	2425304	0	0	0	7,365,606	305	61	11																																	
1149	6/1/2020	6.00	18825	306	51	3	2425304	0	0	0	7,379,212	13606	2,268	391																																	
1150	6/10/2020	9.00	19278	453	50	3	2425304	0	0	0	7,382,389	3177	353	61																																	
1151	6/16/2020	6.00	19593	315	53	3	2425304	0	0	0	7,382,389	0	0	0																																	
1152	6/26/2020	10.00	20222	629	63	4	2425358	54	5	0	7,386,044	3655	366	63																																	
1153	6/30/2020	4.00	20381	159	40	3	2425358	0	0	0	7,386,144	100	25	4																																	
1154	7/10/2020	10.00	20782	401	40	3	2425358	0	0	0	7,386,660	516	52	9																																	
1155	7/16/2020	6.00	21016	234	39	2	2425358	0	0	0	7,397,961	11301	1,884	325																																	
1156	7/22/2020	6.00	21261	245	41	3	2425358	0	0	0	7,397,980	19	3	1																																	
1157	7/31/2020	9.00	21421	160	18	1	2425358	0	0	0	7,398,420	440	49	8																																	
1158	8/7/2020	7.00	21893	472	67	4	2425358	0	0	0	7,424,633	26213	3,745	646																																	
1159	8/13/2020	6.00	22130	237	40	3	2425358	0	0	0	7,452,581	27948	4,658	803																																	
1160	8/18/2020	5.00	22328	198	40	3	2425358	0	0	0	7,475,872	23291	4,658	803																																	
1161	8/31/2020	13.00	22825	497	38	2	2425358	0	0	0	7,487,006	11134	856	148																																	
1162	9/11/2020	11.00	23124	299	27	2	2425358	0	0	0	7,487,124	118	11	2																																	
1163	9/16/2020	5.00	23416	292	58	4	2425358	0	0	0	7,487,352	228	46	8																																	
1164	9/25/2020	9.00	23757	341	38	2	2425358	0	0	0	7,497,273	9921	1,102	190																																	
1165	9/30/2020	5.00	23981	224	45	3	2425358	0	0	0	7,497,273	0	0	0																																	
1166	10/5/2020	5.00	24056	75	15	1	2425358	0	0	0	7,499,225	1952	390	67																																	
1167	10/15/2020	10.00	24504	448	45	3	2425358	0	0	0	7,510,112	10887	1,099	188																																	
1168	10/20/2020	5.00	24789	285	57	4	2425358	0	0	0	7,510,112	0	0	0																																	
1169	10/30/2020	10.00	25058	269	27	2	2425358	0	0	0	7,510,312	200	20	3																																	
1170	11/9/2020	10.00	25425	367	37	2	2425358	0	0	0	7,582,992	72680	7,268	1,253																																	
1171	11/19/2020	10.00	25806	381	38	2	2425358	0	0	0	7,608,959	25967	2,597	448																																	
1172	11/25/2020	6.00	26003	197	33	2	2425358	0	0	0	7,608,960	1	0	0																																	
1173	11/30/2020	5.00	26286	283	57	4	2425358	0	0	0	7,608,968	8	2	0																																	
1174	12/10/2020	10.00	26584	298	30	2	2425358	0	0	0	7,664,852	55884	5,588	964																																	
1175	12/16/2020	6.00	26871	287	48	3	2425358	0	0	0	7,665,897	1045	174	30																																	
1176	12/21/2020	5.00	27047	176	35	2	2425358	0	0	0	7,665,897	0	0	0																																	
1177	12/30/2020	9.00	27503	456	51	3	2425429	71	8	1	7,665,897	0	0	0																																	
1178	1/6/2021	7.00	27705	202	29	2	125	0	0	0	16,889	0	0	0																																	
1179	1/11/2021	5.00	27968	263	53	3	125	0	0	0	36,854	19965	3,993	688																																	
1180	1/22/2021	11.00	28391	423	38	2	125	0	0	0	65,133	28279	2,571	443																																	
1181	1/29/2021	7.00	28678	287	41	3	125	0	0	0	79,599	14466	2,067	356																																	
1182	2/4/2021	6.00	28937	259	43	3	125	0	0	0	88,176	8577	1,430	246																																	
1183	2/12/2021	8.00	29256	319	40	3	125	0	0	0	111,672	23496	2,937	506																																	
1184	2/17/2021	5.00	29462	206	41	3	125	0	0	0	133,378	21706	4,341	748																																	
1185	2/26/2021	9.00	29745	283	31	2	125	0	0	0	179,776	46398	5,155	889																																	
1186	3/1/2021	3.00	29937	192	64	4	125	0	0	0	195,138	15362	5,121	883																																	

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
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"
995	7/10/2020	10	524566	83	8	0			61976383	65699	6570	253	14.7"
996	7/16/2020	6	524651	85	14	1			62012163	35780	5963	229	17.0"
997	7/22/2020	6	524729	78	13	1			62044621	32458	5410	208	25.3"
998	7/31/2020	9	524841	112	12	0			62076168	31547	3505	135	20.4"
999	8/7/2020	7	526409	1568	224	9			62159346	83178	11883	457	15.5"
1000	8/13/2020	6	526560	151	25	1			62193872	34526	5754	221	18.7"
1001	8/18/2020	5	526686	126	25	1			62222647	28775	5755	221	19.7"
1002	8/31/2020	13	526888	202	16	1			62292925	70278	5406	208	13.4"
1003	9/11/2020	11	526992	104	9	0			62382145	89220	8111	312	13.4"
1004	9/16/2020	5	527011	19	4	0			62401942	19797	3959	152	22.4"
1005	9/25/2020	9	527117	106	12	0			62451099	49157	5462	210	17.0"
1006	9/30/2020	5	527173	56	11	0			62482625	31526	6305	243	23.8"
1007	10/5/2020	5	527215	42	8	0			62513246	30621	6124	236	22.5"
1008	10/15/2020	10	527215	0	0	0			62568597	55351	5535	213	23.2"
1009	10/20/2020	5	527322	107	21	1			62594132	25535	5107	196	22.1"
1010	10/30/2020	10	527420	98	10	0			62654664	60532	6053	233	23.8"
1011	11/9/2020	10	527509	89	9	0			62746626	91962	9196	354	13.0"
1012	11/19/2020	10	527608	99	10	0			62815665	69039	6904	266	16.1"
1013	11/25/2020	6	527612	4	1	0			62884516	68851	11475	441	16.2"
1014	11/30/2020	5	527655	43	9	0			62953430	68914	13783	530	23.8"
1015	12/10/2020	10	527711	56	6	0			63012164	58734	5873	226	28.7"
1016	12/16/2020	6	527746	35	6	0			63064314	52150	8692	334	27.1"
1017	12/21/2020	5	527784	38	8	0			63107071	42757	8551	329	14.7"
1018	12/30/2020	9	528281	497	55	2			63180785	73714	8190	315	17.0"
1019	1/6/2021	7	528310	29	4	0			63215472	34687	4955	191	20.1"
1020	1/11/2021	5	528374	64	13	0			63272325	56853	11371	437	17.0"
1021	1/22/2021	11	528442	68	6	0			63362249	89924	8175	314	16.1"
1022	1/29/2021	7	528470	28	4	0			63392464	30215	4316	166	16.6"
1023	2/4/2021	6	528480	10	2	0			63433975	41511	6919	266	24.9"
1024	2/12/2021	8	528610	130	16	1			63491472	57497	7187	276	17.0"
1025	2/17/2021	5	531010	2400	480	18			63526804	35332	7066	272	18.1"
1026	2/26/2021	9	533576	2566	285	11			63591456	64652	7184	276	24.7"
1027	3/1/2021	3	536366	2790	930	36			63633910	42454	14151	544	24.9"

IESI BETHLEHEM LANDFILL

	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
866	TIME	Phase IV PS-2 (Secondary Flows)				Phase IV PS-2 (Primary)							sump
867	(days)	TOTALIZER	GALLONS	FLOW (gpd)	g/ac/day			Totalizer	gallons	flow(gpd)	g/ac/day	inches	
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"	
995	7/10/2020	10	7335	0	0	0.0		22799449	26425	2643	249	5.0"	
996	7/16/2020	6	7335	0	0	0.0		22816852	17403	2901	274	5.4"	
997	7/22/2020	6	7335	0	0	0.0		22837900	21048	3508	331	5.5"	
998	7/31/2020	9	7335	0	0	0.0		22855368	17468	1941	183	5.0"	
999	8/7/2020	7	7335	0	0	0.0		22886450	31082	4440	419	6.4"	
1000	8/13/2020	6	7335	0	0	0.0		22912298	25848	4308	406	7.1"	
1001	8/18/2020	5	7335	0	0	0.0		22933839	21541	4308	406	8.2"	
1002	8/31/2020	13	7386	51	4	0.4		22984118	50279	3868	365	8.9"	
1003	9/11/2020	11	7386	0	0	0.0		23014426	30308	2755	260	8.1"	
1004	9/16/2020	5	7386	0	0	0.0		23034417	19991	3998	377	8.3"	
1005	9/25/2020	9	7386	0	0	0.0		23060504	26087	2899	273	6.9"	
1006	9/30/2020	5	7386	0	0	0.0		23077340	16836	3367	318	7.7"	
1007	10/5/2020	5	7386	0	0	0.0		23094274	16934	3387	320	6.9"	
1008	10/15/2020	10	7386	0	0	0.0		23115439	21165	2117	200	11.8"	
1009	10/20/2020	5	7386	0	0	0.0		23136871	21432	4286	404	15.7"	
1010	10/30/2020	10	7386	0	0	0.0		23157400	20529	2053	194	25.3"	
1011	11/9/2020	10	7389	3	0	0.0		23199765	42365	4237	400	19.0"	
1012	11/19/2020	10	7389	0	0	0.0		23241963	42198	4220	398	21.7"	
1013	11/25/2020	6	7389	0	0	0.0		23294285	52322	8720	823	19.3"	
1014	11/30/2020	5	7439	50	10	0.9		23315295	21010	4202	396	31.7"	
1015	12/10/2020	10	7439	0	0	0.0		23315295	0	0	0	30.0"	
1016	12/16/2020	6	7442	3	1	0.0		23344318	29023	4837	456	20.1"	
1017	12/21/2020	5	7442	0	0	0.0		23404459	60141	12028	1135	32.7"	
1018	12/30/2020	9	7442	0	0	0.0		23447940	43481	4831	456	25.0"	
1019	1/6/2021	7	7442	0	0	0.0		23487743	39803	5686	536	25.0"	
1020	1/11/2021	5	7442	0	0	0.0		23517125	29382	5876	554	29.2"	
1021	1/22/2021	11	7442	0	0	0.0		23564495	47370	4306	406	25.5"	
1022	1/29/2021	7	7442	0	0	0.0		23589289	24794	3542	334	31.2"	
1023	2/4/2021	6	7442	0	0	0.0		23607398	18109	3018	285	33.5"	
1024	2/12/2021	8	7443	1	0	0.0		23623114	15716	1965	185	30.2"	
1025	2/17/2021	5	7443	0	0	0.0		23645892	22778	4556	430	30.4"	
1026	2/26/2021	9	7443	0	0	0.0		23669319	23427	2603	246	30.2"	
1027	3/1/2021	3	7443	0	0	0.0		23698143	28824	9608	906	30.8"	

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	
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	5/26/2020	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"	
995	7/10/2020	10	44863	0	0	0		13307263	23003	2300	554	22.5"	
996	7/16/2020	6	44863	0	0	0		13330152	22889	3815	919	22.3"	
997	7/22/2020	6	44863	0	0	0		13352941	22789	3798	915	21.1"	
998	7/31/2020	9	44863	0	0	0		13364424	11483	1276	307	21.3"	
999	8/7/2020	7	44863	0	0	0		13418867	54443	7778	1874	18.5"	
1000	8/13/2020	6	44863	0	0	0		13474007	55140	9190	2214	19.2"	
1001	8/18/2020	5	44863	0	0	0		13519957	45950	9190	2214	19.9"	
1002	8/31/2020	13	44863	0	0	0		13577909	57952	4458	1074	22.1"	
1003	9/11/2020	11	44863	0	0	0		13603478	25569	2324	560	26.4"	
1004	9/16/2020	5	44863	0	0	0		13620826	17348	3470	836	27.0"	
1005	9/25/2020	9	44863	0	0	0		13655405	34579	3842	926	18.7"	
1006	9/30/2020	5	44863	0	0	0		13677409	22004	4401	1060	17.7"	
1007	10/5/2020	5	44863	0	0	0		13689319	11910	2382	574	21.7"	
1008	10/15/2020	10	44863	0	0	0		13694320	5001	500	121	21.7"	
1009	10/20/2020	5	44863	0	0	0		13694320	0	0	0	21.7"	
1010	10/30/2020	10	44863	0	0	0		13694320	0	0	0	21.7"	
1011	11/9/2020	10	45009	146	15	1		13730094	35774	3577	862	19.7"	
1012	11/19/2020	10	45009	0	0	0		13762230	32136	3214	774	27.6"	
1013	11/25/2020	6	45009	0	0	0		13773328	11098	1850	446	22.4"	
1014	11/30/2020	5	45009	0	0	0		13780021	6693	1339	323	23.4"	
1015	12/10/2020	10	45013	4	0	0		13803367	23346	2335	563	30.4"	
1016	12/16/2020	6	45015	2	0	0		13810357	6990	1165	281	31.1"	
1017	12/21/2020	5	45015	0	0	0		13825969	15612	3122	752	20.8"	
1018	12/30/2020	9	45015	0	0	0		13862880	36911	4101	988	19.8"	
1019	1/6/2021	7	45015	0	0	0		13874248	11368	1624	391	22.7"	
1020	1/11/2021	5	45278	263	53	5		13921450	47202	9440	2275	23.0"	
1021	1/22/2021	11	45278	0	0	0		13995360	73910	6719	1619	21.1"	
1022	1/29/2021	7	45278	0	0	0		14022430	27070	3867	932	36.1"	
1023	2/4/2021	6	45278	0	0	0		14039186	16756	2793	673	19.4"	
1024	2/12/2021	8	45278	0	0	0		14052755	13569	1696	409	23.5"	
1025	2/17/2021	5	45278	0	0	0		14084002	31247	6249	1506	20.6"	
1026	2/26/2021	9	45282	4	0	0		14100432	16430	1826	440	20.7"	
1027	3/1/2021	3	45288	6	2	0		14144285	43853	14618	3522	23.0"	

IESI BETHLEHEM LANDFILL

	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
865	Phase IV PS-4 (Secondary)						Phase IV PS-4 (Primary)						sump
866	Date	days	totalizer	gallon	flow(gpd)	g/ac/day			totalizer	gallons	flow(gpd)	g/ac/day	inches
867													
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"
995	7/10/2020	10	12337	113	11	1			6939329	11404	1140	275	24.8"
996	7/16/2020	6	12848	511	85	8			6960197	20868	3478	838	24.5"
997	7/22/2020	6	12900	52	9	1			6971311	11114	1852	446	21.1"
998	7/31/2020	9	12900	0	0	0			6982210	10899	1211	292	21.1"
999	8/7/2020	7	13783	883	126	12			7041991	59781	8540	2058	21.8"
1000	8/13/2020	6	14095	312	52	5			7057306	15315	2553	615	22.3"
1001	8/18/2020	5	14225	130	26	2			7070070	12764	2553	615	29.7"
1002	8/31/2020	13	14255	30	2	0			7097878	27808	2139	515	17.2"
1003	9/11/2020	11	14255	0	0	0			7120913	23035	2094	505	17.2"
1004	9/16/2020	5	14255	0	0	0			7128461	7548	1510	364	19.4"
1005	9/25/2020	9	14675	420	47	4			7140453	11992	1332	321	24.7"
1006	9/30/2020	5	14676	1	0	0			7157349	16896	3379	814	23.8"
1007	10/5/2020	5	14676	0	0	0			7169841	12492	2498	602	24.8"
1008	10/15/2020	10	14679	3	0	0			7179906	10065	1007	243	23.8"
1009	10/20/2020	5	15151	472	94	9			7194892	14986	2997	722	22.7"
1010	10/30/2020	10	15151	0	0	0			7219584	24692	2469	595	21.1"
1011	11/9/2020	10	15652	501	50	5			7251905	32321	3232	779	30.4"
1012	11/19/2020	10	15723	71	7	1			7281421	29516	2952	711	27.1"
1013	11/25/2020	6	15723	0	0	0			7297743	16322	2720	656	21.3"
1014	11/30/2020	5	15843	120	24	2			7314712	16969	3394	818	67.1"
1015	12/10/2020	10	11758	0	0	0			6775667	0	0	0	30.2"
1016	12/16/2020	6	11831	73	12	1			6782162	6495	1083	261	30.1"
1017	12/21/2020	5	12174	343	69	6			6808163	26001	5200	1253	28.5"
1018	12/30/2020	9	12597	423	47	4			6899386	91223	10136	2442	22.0"
1019	1/6/2021	7	936	0	0	0			6713174	0	0	0	24.6"
1020	1/11/2021	5	10815	9879	1976	186			4877820	0	0	0	24.4"
1021	1/22/2021	11	0	0	0	0			10180	0	0	0	22.0"
1022	1/29/2021	7	463	463	66	6			31358	21178	3025	729	25.3"
1023	2/4/2021	6	464	1	0	0			41036	9678	1613	389	28.5"
1024	2/12/2021	8	847	383	48	5			68177	27141	3393	818	24.8"
1025	2/17/2021	5	847	0	0	0			280755	212578	42516	10245	24.2"
1026	2/26/2021	9	847	0	0	0			437892	157137	17460	4207	23.2"
1027	3/1/2021	3	1272	425	142	13			785863	347971	115990	27949	21.2"

Bethlehem Landfill ODOR COMPLAINT LOG (2335 Applebutter Rd, Bethlehem, PA 18015)

Date	Time	Address	Weather Data (Allentown (KABE))				Residence / Drive-by	Description / Notes	Gas Management Data			Date of Initial Response	Addressed in Insp Report Dated
			Distance from Landfill (miles)	Skies	Temperature	Wind (out of)			Flare (scfm)	BRE (scfm)	Total (scfm)		
01/07/20	8:53	Saucon Ave, Steel City	0.893	Partly Cloudy	34.8	E	Residence	Landfill gas odor detected on property	2900	0	2900	1/9/2020	1/9/20 (WM)
01/07/20	10:52	Johnston Ave., Steel City	1.170	Partly Cloudy	38.6	E	Residence	Slight gas odor that is intermittent	2925	0	2925	1/9/2020	1/9/20 (WM)
01/14/20	9:30	Johnston Ave., Steel City	1.170	Overcast	36.3	W	Residence	Slight gas odor at ~9:30 AM - 10:55 AM on property	2995	0	2995	1/31/2020	4/24/20 (WM)
01/23/20	8:23	Saucon Ave, Steel City	0.883	Partly Cloudy	22.8	E	Residence	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 (WM)
01/23/20	9:01	Johnston Ave., Steel City	1.170	Partly Cloudy	24.2	NW	Residence	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 (WM)
01/24/20	18:09	Johnston Ave., Steel City	1.170	Partly Cloudy	46.0	WNW	Residence	Landfill gas odor, has been going on for 2 hours.	2930	0	2930	1/31/2020	4/24/20 (WM)
01/30/20	17:59	Jefferson Ave, Steel City	0.839	Clear	27.6	SSW	Residence	The landfill gas is horrible on property.	2920	0	2920	1/31/2020	4/24/20 (WM)
01/30/20	18:10	Johnston Ave., Steel City	1.170	Scattered Clouds	27.9	SSW	Residence	The odor of landfill gas is very strong on property	2940	0	2940	1/31/2020	4/24/20 (WM)
01/30/20	18:18	Saucon Ave, Steel City	0.883	Scattered Clouds	27.9	SSW	Residence	Landfill odors on property for the past 5 min.	2941	0	2941	1/31/2020	4/24/20 (WM)
01/30/20	18:19	Mixsell Ave, Steel City	0.796	Scattered Clouds	27.9	SSW	Residence	Landfill gas smell is very strong for the last couple of hours on property	2941	0	2941	1/31/2020	4/24/20 (WM)
01/31/20	14:12	Johnston Ave., Steel City	1.170	Mostly Cloudy	39.5	NW	Residence	There is a slight landfill gas odor again today on property	3018	0	3018	2/5/2020	4/24/20 (WM)
02/05/20	20:20	Saucon Ave, Steel City	0.893	Partly Cloudy	35.8	SSW	Residence	There is a terrible landfill odor tonight that can be detected on their property.	2952	0	2952	2/6/2020	4/24/20 (WM)
03/03/20	13:28	Johnston Ave., Steel City	1.170	Cloudy	41.2	SW	Residence	Detected a gas odor on property from the landfill	2890	0	2890	3/5/2020	4/24/20 (WM)
03/05/20	7:17	Johnston Ave., Steel City	0.980	Cloudy	43.2	NW	Residence	Smelled a garbage/gas odor on property	2879	0	2879	3/5/2020	4/24/20 (WM)
03/24/20	18:58	Saucon Ave, Steel City	0.883	Partly Cloudy	45.3	SSW	Residence	Horrible landfill gas odor on property	2903	0	2903	4/24/2020	4/24/20 (WM)
04/29/20	16:34	Johnston Ave., Steel City	1.170	Mostly Clear	53.1	SSW	Residence	Landfill gas odor at home. Has been going on for 5 hours.	3490	0	3490	5/13/2020	6/24/20 (WM)
05/06/20	12:29	Johnston Ave., Steel City	1.170	Cloudy	48.4	WNW	Residence	Strong landfill gas odor on property	3389	0	3389	5/13/2020	6/24/20 (WM)
05/18/20	14:51	Jefferson Ave, Steel City	0.839	Cloudy	65.1	SW	Residence	Strong gas odor on property	3450	0	3450	5/27/2020	6/24/20 (WM)
05/20/20	19:04	Johnston Ave., Steel City	1.170	Mostly Sunny	49.9	SW	Residence	Can smell landfill gas on property	3517	0	3517	5/27/2020	6/24/20 (WM)
05/23/20	20:09	Johnston Ave., Steel City	1.170	Cloudy	58.1	WNW	Residence	The landfill gas smell is very strong and the wind is blowing it their way.	3530	0	3530	5/27/2020	6/24/20 (WM)
06/18/20	20:36	Johnston Ave., Steel City	1.170	Fair	62.0	ESE	Residence	Very strong smell of methane gas at home, has been going on for 45 minutes.	3520	0	3520	6/24/2020	6/24/20 (WM)
08/14/20	18:59	Fritz Ave, Steel City	0.950	Fair	82.0	NE	Residence	Foul odor on property from the landfill. Has noticed it since 8/10.	3500	0	3500	8/27/2020	10/6/20 (WM)
08/14/20	19:57	Mixsell Ave, Steel City	0.796	Fair	81.0	ESE	Residence	It smells like gas fumes mixed with rotten eggs that has been going on for 2 days.	3500	0	3500	8/14/2020	8/14/20 (ER)
08/14/20	20:01	Jefferson Ave, Steel City	0.741	Fair	81.0	ESE	Residence	Gross gas-like odor present at home, has been going on a couple of night.	3500	0	3500	8/14/2020	8/14/20 (ER)
08/14/20	20:13	Johnston Ave., Steel City	0.980	Fair	81.0	ESE	Residence	Gas odor present at residence	3500	0	3500	8/14/2020	8/14/20 (ER)
08/14/20	20:15	Saucon Ave, Steel City	0.931	Fair	81.0	ESE	Residence	Rotting garbage odor at home.	3500	0	3500	8/14/2020	8/14/20 (ER)
08/18/20	12:44	Applebutter Rd., Bethlehem	0.180	Partly Cloudy	79.0	Calm	Residence	Strong odor coming from the landfill	3740	0	3740	8/27/2020	10/6/20 (WM)
08/26/20	17:00	Saucon Ave, Steel City	0.893	Fair	79.0	WSW	Residence	Horrible smell, and is inside their home	3700	0	3700	8/27/2020	10/6/20 (WM)
08/26/20	19:39	Saucon Ave, Steel City	0.931	Cloudy	75.0	Calm	Residence	Landfill odor is so strong they had to go inside their home-Garbage odor	3499	0	3499	8/27/2020	10/6/20 (WM)
08/26/20	19:57	Jefferson Ave, Steel City	0.939	Cloudy	75.0	Calm	Residence	Detected a very strong odor on property	3510	0	3510	8/27/2020	10/6/20 (WM)
08/28/20	12:49	Applebutter Rd., Bethlehem	0.180	Cloudy	82.0	WSW	Residence	Smells like garbage all day	3640	0	3640	9/3/2020	10/6/20 (WM)
08/30/20	11:13	Saucon Ave, Steel City	0.883	Cloudy	72.0	WNW (21mph)	Residence	Complainant was outside taking their dog out, and the odor is so strong it's making the complainant sick	3465	0	3465	9/3/2020	10/6/20 (WM)
09/01/20	12:03	Johnston Ave., Steel City	1.170	Cloudy	74.0	ESE (7mph)	Residence	Gas odor on property from the landfill	3200	0	3200	9/3/2020	10/6/20 (WM)
09/08/20	7:59	Mathews Ave., Steel City	1.370	Cloudy	62.0	N(3mph)	Residence	It smells like rubber & cellophane on their property for the past 4.5 hours.	3300	0	3300	9/8/2020	10/6/20 (WM)
09/11/20	0:02	Ivywood Ave, Steel City	1.410	Cloudy	74.0	N(3mph)	Residence	There has been a strong landfill gas odor on property for an hour.	3750	0	3750	10/6/2020	10/6/20 (WM)
09/12/20	16:43	Johnston Ave., Steel City	1.170	Cloudy	72.0	SE(9mph)	Residence	Intermittent landfill gas odors on property	3640	0	3640	10/6/2020	10/6/20 (WM)
12/19/20	10:00	Kings Mill Rd, Hellertown	1.569	Light snow	15.0	NNE @ 3mph	Residence	I smelled odors from the Bethlehem landfill at my property located on Kings Mill Rd., approx. 2 miles from the landfill.	3278	0	3278	1/5/2021	12/18/20 (WM)
12/23/20	15:14	Riverside Drive, Bethlehem	1.270	Fair	41.0	S @ 7mph	Residence	Garbage odor on property from the landfill	3423	0	3423	1/5/2021	12/18/20 (WM)

Bethlehem Landfill ODOR COMPLAINT LOG (2335 Applebutter Rd, Bethlehem, PA 18015)

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)		
01/08/21	7:17	Johnston Ave., Steel City	unknown	Fair	20.0	N @ 5mph	Residence	landfill odors reaching complainant's family member's residence near Lower Saucon Rd. closer to Easton Rd.				1/8/2021	3/4/2021
01/25/21	18:59	Johnston Ave., Steel City	1.170	Fair	31.0	ENE @ 6mph	Residence	Very strong gas odor on property	3230	0	3230	1/25/2020	1/25/21 (ER)
01/25/21	18:59	Jefferson Ave, Steel City	0.939	Fair	31.0	ENE @ 6mph	Residence	very strong odor on property	3230	0	3230	1/25/2020	1/25/21 (ER)
01/25/21	18:59	Saucon Ave, Steel City	0.883	Fair	31.0	ENE @ 6mph	Residence	very strong odor on property	3230	0	3230	1/25/2020	1/25/21 (ER)
01/27/21	10:50	Johnston Ave, Steel City	0.980	Mostly Cloudy	23.0	S @ 4mph	Residence	Odor on property from the landfill. Odor described as an old garbage/leachate smell. (Complainant called back at 11:18 & said odor had dissipated. Odor was also detected throughout the neighborhood when they went for a walk).	3215	0	3215	1/27/2021	3/4/2021
01/28/21	22:56	Applebutter Rd., Bethlehem	NA	Fair/Windy	20.0	NW @ 22 mph	non-Residence	While complainant was at the storage yards, they detected a horrible odor from the landfill.	3201	0	3201	2/4/2021	3/4/2021
02/10/21	14:40	Applebutter Rd., Bethlehem	0.420	Fair	32.0	S @ 7mph	Residence	Gas odors this morning on property from the landfill	3225	0	3225	3/4/2021	3/4/2021
03/02/21	19:29	Applebutter Rd., Bethlehem	0.420	Fair	31.0	W @ 6mph	Residence	The landfill odor is horrendous tonight & odor detected on property.	3200	0	3200	3/4/2021	3/4/2021