

## Bethlehem Landfill Committee Meeting Minutes

Date: Thursday, January 21, 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 Hijazi (Neil Ortwein – Absent); **Staff Members**: Leslie Huhn & Diane Palik;  
**Council Liaison**: Tom Carocci.

Mr. Pannucci reviewed the monthly tonnages for December:

	<u>October</u>	<u>November</u>	<u>December</u>
MSW	14,398.92	13,113.94	7,924.91
C&D	6,723.68	5,901.80	3,290.58
Residual (Total)	1,141.02	1,411.56	986.67
Asbestos	0.00	0.00	0.00
Sewage Sludge	738.14 (3.21%)	744.20 (3.52%)	784.26 (6.04%)
Out of State (Total)	9,640.55 (42%)	8,693.70 (41%)	4,907.88 (38%)
Recycle	8 (75%)	11 (82%)	9 (89%)

Mr. Carocci said the numbers are really down, is that because of the month of December or because of the realignment. Mr. Pannucci said it's more waiting on getting themselves completed and now they are currently waiting on the certification to be approved. Surveys, how much space they have and things of that nature they had to go back on their tons in order to stay within those numbers, or stay open until the new cell opens. Everything is submitted and they are waiting for DEP. They submitted three separate certifications based on the layers of cell construction. The first portion was approved and he believes the Township received a copy of that, they are just waiting on the last two. Mr. Brown said one came through last week.

Mr. Pannucci said there were five Form U Submittals from December 22, 2020 to January 19, 2021. They had Passaic Valley with sewage sludge, Stuffed Puffs with plant trash, Rockland Green with sewage sludge, Lynar Corp. with sandblast abrasives, and Pratt Industries with WWTP sludge. Mr. Carocci said the approval date is the DEP date? Mr. Pannucci said yes, he pulled it off of the website. Once they review it, then DEP will review it.

Mr. Hijazi said any reason for the increase in the sewage sludge. Mr. Pannucci said we talked about this before and the biggest point here is just because we are getting the approvals in place doesn't mean it's necessarily coming in, it's more of a due diligence thing on their end if they were ever to take it. A lot of these are, as he talked to Jennifer in Sales, and we're more or less a backup facility for these sources. We're putting them in the system but it doesn't necessarily mean we are taking them in as you can see in the numbers above. They are trying to stay around those numbers. Mr. Lawson said we are just getting it approved when it's done before getting too far in the process just to have it rejected.

Mr. Hijazi said when do we know how much you're accepting. Mr. Pannucci said the numbers above tell you what we've been taking. Mr. Carocci said 784.26 in December. Mr. Pannucci said you can see it's pretty much in line with what we've been doing over the last few months. Mr. Brown said the percentage is higher as there's a lower municipal waste stream coming in. Mr. Pannucci said correct. For them to back their tons up, the easiest lever is to pull it and say go away a little bit while we kind of wait. We can always pull them back, so that's the easiest way for them to back up their tons.

Mr. Hijazi said is that the market you are targeting? Mr. Lawson said no, the customers reach out to them. Mr. Pannucci said a lot of landfills are kicking them out, it's not a desirable material, but you want to keep the numbers relatively down for managing it on a day-to-day basis. With that being said, these customers need to have multiple outlets in place so they don't get caught with their pants down, more or less. Mr. Lawson said similar, if you look at our leachate, we send it to the Bethlehem WWTP but we also send some over to Allentown which is a backup.

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Ms. Donna Louder, resident, said what is your level of acceptance for the sludge that you stop at on a monthly basis or do you just stop whatever comes in. Mr. Pannucci said there's nothing in their permits that give them a limit, but it's based on their operations and how much they can handle, and what makes sense from an operational standpoint. Ms. Louder said what is the number on an operational standpoint standard. Mr. Pannucci said there's really not a hard number. Ms. Louder said is that something we can look into to get a number, there should be a limit. Mr. Pannucci said we don't put those limits in place; we are just working within their guidelines.

Mr. Carocci said right, the permit doesn't require a limit. It looks like it's in the 700's, a 3.5% range when you have normal tonnage. Ms. Louder said her focus would be that Bethlehem Landfill set a limit because of the parameter that this is the closest landfill to houses. If Bethlehem Landfill would step up to the plate and say the bottom line is because of our area and where we are located, we are saying, we are only taking 50,000 tons or whatever, she's just picking a number out of the sky. Is that something Bethlehem Landfill would do? Mr. Lawson said yes, if it made sense, he's not opposed to it. Ms. Louder said Tom, do you got that? Mr. Carocci said he got that. Ms. Louder said this is something that does affect odor. Mr. Pannucci said that's fair and that's why they are conscious of it as to how much they are taking in. Ms. Louder said regarding the Host Agreement, if you start to expand in that 92 acres, that's no longer on the same permit, so another Host Agreement should be worked on and maybe that's something that can be put in. You are close to homes.

Mr. Pannucci said annual groundwater analysis, the first quarter sampling event is scheduled for February 22 – 25, 2021. They had three correspondence/reports for January, which were the overweight report, the abatement well reports, and the collection efficiency report.

Mr. Pannucci said there were two DEP inspections on December 18, 2020 with Amy Faulch and Jeremy. On December 29, 2020 Matt Glogowski was at the landfill. There were two Host Municipal Inspections on January 7 and 21, 2021 with Scott Brown. For commercial waste vehicles, there were 1,440 in December with 14 overweight, 13 warnings and one suspension.

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 December average flare flow was 3,310 SCFM. They had one shutdown, which happened between 12/24/20 and 12/25/20 and was only 10 minutes.

Ms. Louder said she doesn't know where you stand with the litigation stuff, but when will there be another construction of another flare or hook up with this company that's coming in. It's getting bigger and bigger and you are still counting on one flare, that scares her. When she was on the committee, she used to talk to Vito about it all the time, and he did make the comment that this flare will not handle much of an expansion so she's questioning it.

Mr. Pannucci said they actually have approval in place with DEP to put another one in. It's just a matter of when it makes sense. They talked about this before and it doesn't make sense to put a flare in and let it sit there and not be used, as what they have handles 4,000 SCFM at a certain methane concentration, so right now they are under that by a good amount. It's a balancing act of when to put one in. They are hopefully getting to the end of the BRE litigation and he'll leave it at that. There's light at the end of the tunnel and when that's all squared away, they can cut loose Aria who has all their approvals with the Township and DEP in place and they can start construction. It's about a year from when the shovel hits the ground to basically up and running.

Ms. Louder said her concern right now is a backup until everything is in place. Mr. Pannucci said if anything went down, it would be the blower and they have a spare on site if ever there was a problem and they would be back up and running. Right now that's their contingency.

Ms. Louder said who is your flare guy over there. Mr. Pannucci said right now Cody White, he's the onsite guy and we have multiple subs or third party contractors depending on what the problem is. Ms. Louder said he's doing a great juggling act. Mr. Carocci said it's only been down ten minutes for the whole month of December. He asked

Mr. Brown if it was a concern of his. It would be better to have the second one, but he didn't see anything in Mr. Brown's letter besides the flow. Ms. Louder said she read HEA's report and didn't see anything regarding the flare.

Mr. Pannucci said the North Slope Road and the swale have not needed repairs. The abatement system continues to operate and discharge to the Bethlehem WWTP. Intermittent malfunctions of the well pump and controls are repaired or replaced as needed. AB-1R flowmeter was replaced.

Mr. Pannucci 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. LMC-10 flow meters and the PLC panel were updated. There were two radioactive loads for December (I-131[2]). These waste streams met level 1 requirements and were disposed of onsite. The SE realignment construction activities and waste activities are in SE-1B. The odor complaints are attached.

Mr. Brown said he did conduct an inspection today. There were no odors along Applebutter Road or throughout Steel City. There was some active litter picking going along the eastern side of the landfill. Phil told him they were possibly starting the last part of the temporary cap up in the area where the ballooning occurred. Mr. Pannucci said about 50% of it is totally complete, which is the lower portion by the road. The upper portion is delayed caused by some weather conditions and COVID. Their general contractor will prep the upper portion tomorrow and then the liner crew is planning on starting the upper portion on Monday so that should be completed in the next couple of weeks.

Mr. Brown said regarding the flare, the temperatures seemed good, the flow rates were well within the range of 3,200 normal, plus or minus. There was no stormwater damage on the site as we didn't have any big rain events since last inspection. The waste tonnages are heading back to normal and the new cell should get certifications soon. By their next meeting, they should see some difference. There's a lot of construction activities going on right now which is a good thing.

Mr. Carocci said this will be put on the website. Mrs. Huhn said yes. Mr. Carocci said are the Hanover letters put on the website? Mrs. Huhn said yes the inspection reports are all put on the website.

Ms. Louder asked who is filling in for Laressa? Mr. Carocci said right now we have not hired anyone, but it's something for Council to discuss. They are being reviewed by the DEP. Mrs. Huhn said she and Scott are taking a look at them and he feels comfortable as most of them are pretty routine and regular and we've had them before. If he sees anything that is different, he points it out to her and they talk about it. We looked back and we only received maybe five since Laressa retired. Ms. Louder said are the Form U's available on the Township website. Mrs. Huhn said those we don't post on the website as some of them can be up to 300 pages of technical information. Mr. Carocci said can they be accessed on the DEP website. Mrs. Huhn said she didn't know but she will check, as they might be on the DEP's website. Mr. Carocci said if they are on the DEP website, maybe we can put a link for the Form U's. Ms. Louder said maybe Scott can just put a comment behind each Form U on how he feels about it, his professional opinion. She'd like to see it as she always checked to see what Laressa had to say. Mr. Hijazi said the stuff that Laressa was doing was redundant. That information goes to the DEP and they review it and if there's anything that is alarming, they are the entity that's supposed to reject it or approve it. Whether Scott comments on it or not is irrelevant. Mr. Carocci said if Scott would see something in the Form U's that he was concerned about, then he would bring it to Leslie's attention and then she would bring it to this committee's attention. If we have to go out and get somebody to look at it further, we could do it at that time. If it's a routine matter, and the DEP has looked at it and Scott thinks its routine, he's not sure we have to comment. If Scott doesn't think its routine, and DEP approved it, then he would hope Scott would bring that to our attention and we could get some more information. Mr. Lawson said if it got that far and you guys were uncomfortable with it, feel free to reach out to them and if we can't find a middle ground, we just won't take the waste. Mrs. Huhn said if that happened, we can reach out to Astor and DEP. Ms. Louder said she feels comfortable with that. Mr. Brown said he thought about that too and since he hasn't been involved in several years if he sees something that isn't routine, he'd contact Astor to see if similar waste had been approved in the past by DEP. Ms. Louder said she would trust that Astor would just refuse something he wasn't comfortable with. Mr. Lawson said he definitely would.

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Ms. Louder said she saw a lot of complaints came from Johnston Avenue and they live on Easton Road. How does that work. Mr. Lawson said he doesn't know, they took pictures, it's like a cow pasture over there as he was also curious about how one person called from one location to another location. Ms. Louder said she only calls when there is an issue.

The date of the next meeting will be Thursday, February 18, 2021 at 6:00 p.m. The meeting ended at 1:35 p.m.

**Bethlehem Landfill Company  
LST Committee Meeting December 2020  
January 21, 2021**

**Agenda Items**

**I. Waste Activities**

Monthly Tonnages

	October	November	December
MSW	14,398.92	13,113.94	7,924.91
C&D	6,723.68	5,901.80	3,290.58
Residual (Total)	1,141.02	1,411.56	986.67
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Out of state (Total)	9,640.55 (42%)	8,693.70 (41%)	4,907.88 (38%)
Recycle	7 (86%)	8 (75%)	9 (89%)

<u>Form U Submittals</u>	<u>Waste</u>	<u>Approval Date</u>
Passaic Valley Sewage Comm.	Sewage Sludge (MW3)	12/22/20
Stuffed Puffs, LLC	Plant Trash (710)	12/29/20
Rockland Green	Sewage Sludge (MW3)	12/30/20
Lynar Corp.	Sandblast Abrasive (109)	1/19/21
Pratt Industries	Ind. WWTP Sludge (203)	1/19/21

**II. Annual Groundwater Trend Analysis**

First quarter sampling event is scheduled for 2/22/21 – 2/25/21.

**III. Correspondence / Reports**

Overweight Report – December 2020	1/4/21
Abatement Well Reports – December 2020	1/4/21
Collection Efficiency Report – Q4 2020	1/7/21

**IV. Landfill Operations**

Department of Environmental Protection Inspections

12/18/20 A. Faulch (Solid Waste), Jeremy (Solid Waste)  
12/29/20 M. Glogowski (Solid Waste)

Host Municipal Inspection

1/7/21 S. Brown  
1/21/21 S. Brown

<u>Commercial Waste Vehicles</u>	October	November	December
Total # Trucks	2,370	2,142	1,440
	October	November	December
Overweight	46	33	14
Warnings	45	31	13
Suspensions	1	2	1

October – TT=23, RL=17, RO=4, DT=2 November – TT=8, RL=16, RO=5, FL=1, DT=3 December – TT=2, RL=10, 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.**

**December Average Flare Flow = 3,310 SCFM**

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

Beginning of event shutdown Flare	Date: 12/24/20	Time: 23:52	
End of event startup	Date: 12/25/20	Time: 00:02	Duration: 00:10min

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. AB-1R flowmeter was replaced.

#### Leachate collection

Flow rates continue to be monitored and reported. Intermittent malfunctions of the well pumps and controls are repaired or replaced as needed. LMC-10 flowmeters and PLC panel were updated.

#### Radiation Monitoring

There were 2 radioactive loads for November (I-131[2]). These waste streams met level 1 requirements and were disposed of onsite.

#### SE Realignment Construction Activities

Waste operations are in SE-1B.

#### Complaints received by Waste Connections

See attached.

**BETHLEHEM LANDFILL**  
**GROUNDWATER DEMAND REPORT**

**December 2020**

<b>Well No.</b>	<b>Water Level (avg. ft SWL*)</b>	<b>Flow (avg. GPM)</b>	<b>(Total gal)</b>
AB-1R	62.9	2.2	95,087
AB-2	47.0	2.8	120,236
AB-3	25.3	0.5	23,580
AB-4	30.4	2.3	99,050
AB-5	41.2	11.6	503,159
AB-6	44.2	3.2	138,675
AB-7	41.7	2.6	112,639
AB-8	19.1	0.0	0
AB-9	67.1	3.9	167,290
AB-10	133.1	15.9	687,597
TW-1	N/A	<0.1	0.0
<b>Total Flow</b>			<b>1,947,313 gallons</b>

\*SWL above transducer set point

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

**BETHLEHEM LANDFILL**  
**LEACHATE DEMAND REPORT**

**December 2020**

<u>Location</u>	<u>Total gallons</u>
LMC-6	23,718
LMC-7	68,898
LMC-8	91,806
PS-4	124,558
 LMC-10	 2,256,293
 PS-1	 227,981
PS-2	132,648
PS-3	82,865
 Phase-IV	 443,494

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	2,256,293
<u>Phase IV</u>	<u>443,494</u>
<b>TOTAL</b>	<b>2,699,787 gallons</b>

**Total Leachate**

Leachate	308,980
<u>Phase IV</u>	<u>443,494</u>
<b>TOTAL</b>	<b>752,474 gallons</b>

LMC-10 Flow – Abatement System Flow = Leachate System Flow (gallons).  
 Abatement System Flow = 1,947,313 gallons (Neptune Flow meters)

	TIME (days)	LMC-6 (Primary Flows)				LMC-7 (Primary Flows)				LMC-8 (Primary Flows)			
		TOTALIZER	GALLONS	LOW (gpd)	S/A/I	TOTALIZER	GALLONS	LOW (g)	S/A/I	TOTALIZER	GALLONS	LOW (gpd)	S/A/I
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
7/10/2020	10.00	227475	6,688	669	43	13720	-4665326	#####	###	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

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)							sump
	(days)	TOTALIZER	GALLONS	FLOW (gpd)	g/ac/day			Totalizer	gallons	flow(gpd)	g/ac/day	inches	
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	249	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		22480863	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	386	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	28023	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"	

**IESI BETHLEHEM LANDFILL**

	A	B	C	D	E	F	H	I	J	K	M	N	O
865													
866		<b>TIME</b>	<b>Phase IV PS-1 (Secondary Flows)</b>				<b>Phase IV PS-1 (Primary flow)</b>					<b>sump</b>	
867		<b>(days)</b>	<b>TOTALIZER</b>	<b>GALLONS</b>	<b>FLOW (gpd)</b>	<b>g/ac/day</b>			<b>Totalizer</b>	<b>gallons</b>	<b>flow(gpd)</b>	<b>g/ac/day</b>	<b>inches</b>
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	523394	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	523988	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	526586	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"

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		
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	5/26/2020	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	6/28/2020	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	11099	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"		

**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)							
867	Date	days	totalizer	gallon	flow(gpd)	g/ac/day			totalizer	gallons	flow(gpd)	g/ac/day	inches
969	1/9/2020	17	10546	0	0	0			6518668	84485	4970	1198	28.0"
970	1/16/2020	7	10823	77	11	1			6534974	16308	2329	561	28.6"
971	1/20/2020	4	10865	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	1546	20.5"
975	2/19/2020	5	11233	0	0	0			6648284	8018	1604	386	22.1"
976	2/28/2020	9	11299	65	7	1			6683501	35217	3913	943	17.3"
977	3/2/2020	3	11299	0	0	0			6688139	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	16494	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	5/28/2020	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	6/28/2020	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	9/1/2020	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	-4085	-409	-39			6775667	-539045	-53905	12939	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"

ID	A	B	C	D	E	F		J	K	L	M	O		S	T
						TIME (days)	GALLONS					TOTALIZER GALLONS	FLOW (gpd)		
1024															
1025															
1128	1/9/2020	9.00	11523	641	71	5	2425304	0	0	0	0	0	5,994,838	920	18
1129	1/16/2020	7.00	11870	947	50	3	2425304	0	0	0	0	0	7,018,109	33501	825
1130	1/20/2020	4.00	12097	227	57	4	2425304	0	0	0	0	0	7,029,630	11721	505
1131	1/31/2020	11.00	12873	576	52	3	2425304	0	0	0	0	0	7,057,279	27449	430
1132	2/7/2020	7.00	13048	375	54	3	2425304	0	0	0	0	0	7,095,444	38165	940
1133	2/14/2020	7.00	13425	377	54	3	2425304	0	0	0	0	0	7,095,488	44	1
1134	2/19/2020	5.00	13741	316	63	4	2425304	0	0	0	0	0	7,103,141	7553	264
1135	2/28/2020	9.00	13900	391	59	7	2425304	0	0	0	0	0	7,144,018	40875	783
1136	3/2/2020	3.00	14335	526	175	11	2425304	0	0	0	0	0	7,160,717	16675	958
1137	3/13/2020	11.00	14869	543	49	3	2425304	0	0	0	0	0	7,180,522	26	0
1138	3/18/2020	8.00	15031	162	32	2	2425304	0	0	0	0	0	7,188,822	28205	973
1139	3/26/2020	5.00	15329	498	62	4	2425304	0	0	0	0	0	7,229,561	40639	876
1140	3/31/2020	7.00	15777	248	48	3	2425304	0	0	0	0	0	7,236,462	5581	205
1141	4/7/2020	7.00	16112	335	48	3	2425304	0	0	0	0	0	7,271,027	1517	28
1142	4/17/2020	10.00	16505	393	39	3	2425304	0	0	0	0	0	7,272,544	1517	28
1143	4/20/2020	3.00	16760	255	85	5	2425304	0	0	0	0	0	7,305,255	32711	1,880
1144	4/29/2020	9.00	17203	443	49	3	2425304	0	0	0	0	0	7,325,578	20323	388
1145	5/5/2020	6.00	17503	300	50	3	2425304	0	0	0	0	0	7,325,591	13	0
1146	5/13/2020	8.00	17888	385	48	3	2425304	0	0	0	0	0	7,365,096	39505	851
1147	5/21/2020	8.00	18002	114	14	1	2425304	0	0	0	0	0	7,365,301	205	4
1148	5/26/2020	5.00	18519	517	103	7	2425304	0	0	0	0	0	7,385,606	305	61
1149	6/1/2020	6.00	18825	306	51	3	2425304	0	0	0	0	0	7,379,212	13606	391
1150	6/10/2020	9.00	19278	453	50	3	2425304	0	0	0	0	0	7,382,389	3177	61
1151	6/16/2020	6.00	19593	315	53	3	2425304	0	0	0	0	0	7,382,389	0	0
1152	6/26/2020	10.00	20222	823	63	4	2425358	54	5	0	0	0	7,386,044	3655	63
1153	6/30/2020	4.00	20381	159	40	3	2425358	0	0	0	0	0	7,386,144	100	4
1154	7/10/2020	10.00	20782	401	40	3	2425358	0	0	0	0	0	7,386,660	516	9
1155	7/16/2020	6.00	21018	234	39	2	2425358	0	0	0	0	0	7,397,961	11301	325
1156	7/22/2020	6.00	21261	245	41	3	2425358	0	0	0	0	0	7,397,961	19	3
1157	7/31/2020	9.00	21421	160	18	1	2425358	0	0	0	0	0	7,398,420	440	8
1158	8/7/2020	7.00	21683	472	67	4	2425358	0	0	0	0	0	7,424,633	26213	646
1159	8/13/2020	6.00	22130	237	40	3	2425358	0	0	0	0	0	7,424,633	27948	803
1160	8/18/2020	5.00	22528	198	40	3	2425358	0	0	0	0	0	7,475,872	23291	803
1161	8/31/2020	13.00	22825	497	38	2	2425358	0	0	0	0	0	7,487,006	11134	148
1162	9/11/2020	11.00	23124	299	27	2	2425358	0	0	0	0	0	7,487,124	118	2
1163	9/16/2020	5.00	23416	292	58	4	2425358	0	0	0	0	0	7,487,352	228	8
1164	9/25/2020	9.00	23757	341	38	3	2425358	0	0	0	0	0	7,487,273	9921	180
1165	9/30/2020	5.00	23981	224	45	3	2425358	0	0	0	0	0	7,497,473	0	0
1166	10/5/2020	5.00	24058	75	15	1	2425358	0	0	0	0	0	7,498,225	1952	67
1167	10/15/2020	10.00	24504	448	45	3	2425358	0	0	0	0	0	7,510,112	10687	188
1168	10/20/2020	5.00	24789	285	57	4	2425358	0	0	0	0	0	7,510,112	0	0
1169	10/30/2020	10.00	25058	269	27	2	2425358	0	0	0	0	0	7,510,312	200	3
1170	11/9/2020	10.00	25425	367	37	2	2425358	0	0	0	0	0	7,582,932	72680	1,253
1171	11/19/2020	10.00	25808	381	38	2	2425358	0	0	0	0	0	7,606,359	25967	448
1172	11/25/2020	6.00	26003	197	33	2	2425358	0	0	0	0	0	7,606,359	1	0
1173	11/30/2020	5.00	26268	283	57	4	2425358	0	0	0	0	0	7,606,359	8	0
1174	12/10/2020	10.00	26584	298	30	2	2425358	0	0	0	0	0	7,684,852	55884	964
1175	12/16/2020	6.00	26871	287	48	3	2425358	0	0	0	0	0	7,685,897	1045	30
1176	12/21/2020	5.00	27047	176	35	2	2425358	0	0	0	0	0	7,685,897	0	0
1177	12/30/2020	9.00	27593	456	51	3	2425423	71	8	1	1	1	7,685,897	0	0

## 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 Date
				Temperature	Skies	Wind (out of)			Flare (scfm)	BRE (scfm)		
01/07/20	8:53	Saucon Ave, Steel City	0.893	34.8	Partly Cloudy	E	Residence	Landfill gas odor detected on property	2900	0	2900	1/9/20 (WM)
01/07/20	10:52	Johnston Ave, Steel City	1.170	36.6	Partly Cloudy	E	Residence	Slight gas odor that is intermittent	2925	0	2925	1/9/20 (WM)
01/24/20	9:30	Johnston Ave, Steel City	1.170	36.3	Overcast	W	Residence	Slight gas odor at 9:30 AM - 10:55 AM on property	2995	0	2995	1/31/2020 (WM)
01/23/20	8:23	Saucon Ave, Steel City	0.883	22.8	Partly Cloudy	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 (WM)
01/23/20	9:01	Johnston Ave, Steel City	1.170	24.2	Partly Cloudy	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 (WM)
01/24/20	18:09	Johnston Ave, Steel City	1.170	46.0	Partly Cloudy	WNW	Residence	Landfill gas odor, has been going on for 2 hours.	2930	0	2930	1/31/2020 (WM)
01/30/20	17:59	Jefferson Ave, Steel City	0.859	27.6	Clear	SSW	Residence	The landfill gas is horrible on property.	2920	0	2920	1/31/2020 (WM)
01/30/20	18:10	Johnston Ave, Steel City	1.170	27.9	Scattered Clouds	SSW	Residence	The odor of landfill gas is very strong on property.	2940	0	2940	1/31/2020 (WM)
01/30/20	18:18	Saucon Ave, Steel City	0.883	27.9	Scattered Clouds	SSW	Residence	Landfill odors on property for the past 5 min.	2941	0	2941	1/31/2020 (WM)
01/30/20	18:19	Mixell Ave, Steel City	0.796	27.9	Scattered Clouds	SSW	Residence	Landfill gas smell is very strong for the last couple of hours on property.	2941	0	2941	1/31/2020 (WM)
01/31/20	14:12	Johnston Ave, Steel City	1.170	39.5	Mostly Cloudy	NW	Residence	There is a slight landfill gas odor again today on property	3018	0	3018	2/5/2020 (WM)
02/05/20	20:20	Saucon Ave, Steel City	0.893	35.8	Partly Cloudy	SSW	Residence	There is a terrible landfill odor tonight that can be detected on their property.	2952	0	2952	2/6/2020 (WM)
03/03/20	13:28	Johnston Ave, Steel City	1.170	41.2	Cloudy	SW	Residence	Detected a gas odor on property from the landfill	2890	0	2890	3/5/2020 (WM)
03/05/20	7:17	Johnston Ave, Steel City	0.960	49.2	Cloudy	NW	Residence	Smelled a garbage gas odor on property	2879	0	2879	3/5/2020 (WM)
03/24/20	18:58	Saucon Ave, Steel City	0.883	45.3	Partly Cloudy	SSW	Residence	Horrible landfill gas odor on property	2903	0	2903	4/24/2020 (WM)
04/29/20	16:34	Johnston Ave, Steel City	1.170	53.1	Mostly Clear	SSW	Residence	Landfill gas odor at home. Has been going on for 5 hours.	3490	0	3490	5/13/2020 (WM)
05/06/20	12:29	Johnston Ave, Steel City	1.170	48.4	Cloudy	WNW	Residence	Strong landfill gas odor on property	3389	0	3389	5/13/2020 (WM)
05/18/20	14:51	Jefferson Ave, Steel City	0.859	65.1	Cloudy	SW	Residence	Strong gas odor on property	3450	0	3450	5/27/2020 (WM)
05/20/20	19:04	Johnston Ave, Steel City	1.170	49.9	Mostly Sunny	SW	Residence	Can smell landfill gas on property	3517	0	3517	5/27/2020 (WM)
05/23/20	20:09	Johnston Ave, Steel City	1.170	58.1	Cloudy	WNW	Residence	The landfill gas smell is very strong and the wind is blowing it their way.	3530	0	3530	5/27/2020 (WM)
06/18/20	20:36	Johnston Ave, Steel City	1.170	62.0	Fair	ESE	Residence	Very strong smell of methane gas at home, has been going on for 45 minutes.	3520	0	3520	6/24/2020 (WM)
08/14/20	18:59	Fritz Ave, Steel City	0.950	82.0	Fair	NE	Residence	Foul odor on property from the landfill. Has noticed it since 8/10.	3500	0	3500	8/27/2020 (WM)
08/14/20	19:57	Mixell Ave, Steel City	0.796	81.0	Fair	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 (WM)
08/14/20	20:01	Jefferson Ave, Steel City	0.741	81.0	Fair	ESE	Residence	Gross gas-like odor present at home, has been going on a couple of night.	3500	0	3500	8/14/2020 (WM)
08/14/20	20:13	Johnston Ave, Steel City	0.960	81.0	Fair	ESE	Residence	Gas odor present at residence	3500	0	3500	8/14/2020 (WM)
08/14/20	20:15	Saucon Ave, Steel City	0.931	81.0	Fair	ESE	Residence	Rotting garbage odor at home.	3500	0	3500	8/14/2020 (WM)
08/18/20	12:44	Applebutter Rd, Bethlehem	0.180	79.0	Partly Cloudy	Calm	Residence	Strong odor coming from the landfill	3740	0	3740	8/27/2020 (WM)
08/26/20	17:00	Saucon Ave, Steel City	0.893	79.0	Fair	WSW	Residence	Horrible smell, and is inside their home	3700	0	3700	8/27/2020 (WM)
08/26/20	19:39	Saucon Ave, Steel City	0.931	75.0	Cloudy	Calm	Residence	Landfill odor is so strong they had to go inside their home-Garbage odor	3499	0	3499	8/27/2020 (WM)
08/26/20	19:57	Jefferson Ave, Steel City	0.939	75.0	Cloudy	Calm	Residence	Detected a very strong odor on property	3510	0	3510	8/27/2020 (WM)
08/28/20	12:49	Applebutter Rd, Bethlehem	0.180	82.0	Cloudy	WSW	Residence	Smells like garbage all day	3640	0	3640	9/3/2020 (WM)
08/30/20	11:13	Saucon Ave, Steel City	0.883	72.0	Cloudy	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 (WM)
09/01/20	12:03	Johnston Ave, Steel City	1.170	74.0	Cloudy	ESE (7mph)	Residence	Gas odor on property from the landfill	3200	0	3200	9/3/2020 (WM)
09/08/20	7:59	Mathevs Ave, Steel City	1.370	62.0	Cloudy	N(3mph)	Residence	It smells like rubber & cellophane on their property for the past 4.5 hours.	3300	0	3300	9/8/2020 (WM)
09/11/20	08:02	Wywood Ave, Steel City	1.410	74.0	Cloudy	N(3mph)	Residence	There has been a strong landfill gas odor on property for an hour.	3750	0	3750	10/6/2020 (WM)
09/12/20	16:43	Johnston Ave, Steel City	1.170	72.0	Cloudy	SE(9mph)	Residence	Intermittent landfill gas odors on property	3640	0	3640	10/6/2020 (WM)
11/19/20	10:00	Kings Mill Rd, Hellertown	1.569	15.0	Light snow	NNE @ 3mph	Residence	Intermittent landfill gas odors from the Bethlehem landfill at my property located on Kings Mill Rd, approx. 2 miles from the landfill.	3230	0	3230	1/5/2021 (WM)
12/23/20	15:14	Riverside Drive, Bethlehem	1.270	41.0	Fair	S @ 7mph	Residence	Garbage odor on property from the landfill	3390	0	3390	1/5/2021 (WM)

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

Date	Time	Address	Distance from Landfill (miles)	Weather Data (Allentown, K4BE)		Residence / Drive-by		Gas Management Data			Date of Initial Response	Addressed in Insp Report Dated
				Skies	Temperature	Wind (out of)	Description / Notes	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.	3210	0	3210	1/8/2021