

Agenda
Bethlehem Landfill Committee
January 20, 2022
1:00 p.m.

Waste Activities

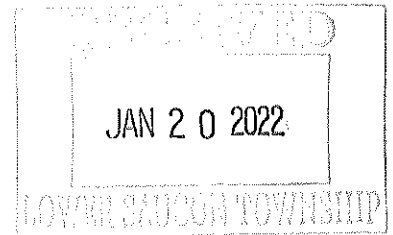
- A. Monthly Tonnages
- B. Form U Submittals

Annual Groundwater Trend Analysis

Correspondence/Reports

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



**Bethlehem Landfill Company
LST Committee Meeting December 2021
January 20, 2022**

Agenda Items

I. Waste Activities

Monthly Tonnages

	October	November	December
MSW	22,883.76	23,091.40	21,465.14
C&D	6679.21	5,814.46	7,901.19
Residual (Total)	3082.07	1,294.16	1,685.86
Asbestos	0.00	0.00	0.00
Alternate Daily Cover	3116.51	3,444.14	3,178.06
Sewage Sludge	152.74 (.43%)	280.75 (.82%)	310.28 (.90%)
Out of State (Total)	19636.04 (54%)	18,723.59 (55%)	17,978.34 (52%)
Recycle	5(83%)	4 (75%)	5 (83%)

<u>Form U Submittals</u>	<u>Waste</u>	<u>Approval Date</u>
Dale Transfer Corp.	Other Industrial Sludge	12/1/21
Spray Tek LLC	Sawdust	12/7/21
Red hook	Contaminated soil	12/13/21
Spray Tek LLC	Spent Filters	12/21/21

II. Annual Groundwater Trend Analysis

Fourth quarter sampling event was completed for 10/25-10/29/21

First quarter sampling event is scheduled for 2/21-2/25/2022

III. Correspondence / Reports

01/20/2022 Groundwater Analytical Data (3rd Qtr. & 4th Qtr.) (Blue Binder)

IV. Landfill Operations

Department of Environmental Protection Inspections

12/13/21	R. Malizia (Groundwater)
12/13/21	A. Faulch/ M.Vipond (Enforcement)
12/28/21	M. Glogowski (Engineering)
01/05/22	A. Faulch/M.Vipond (Enforcement)
01/05/22	C. Madden/I. Hillegas (Air Quality)

Host Municipal Inspection

12/02/21	S. Brown
12/16/21	S. Brown
01/06/22	S. Brown/L. Eggert
01/20/22	S. Brown

<u>Commercial Waste Vehicles</u>	October	November	December
Total # Trucks	3,120	2,962	3,053
	October	November	December
Overweight	61	53	65
Warnings	49	38	56
Suspensions	12	15	9

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 = 3,379 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 were 9 radioactive loads for December, 4 Iodine-131 loads, 3 Technecium-99m loads, and 1 Thallium-201 load. These waste streams met level 1 requirements and were disposed of onsite.

SE Realignment Construction Activities

Waste operations were in SE-2AB Phase I and Cell 4 -F

Complaints received by Waste Connections

See attached.

BETHLEHEM LANDFILL
LEACHATE DEMAND REPORT

December 2021

<u>Location</u>	<u>Total gallons</u>
LMC-6	15,037
LMC-7	52,228
LMC-8	44,822
PS-4	87,125
PS-5	27,104
LMC-10	1,298,733
PS-1	130,070
PS-2	108,334
PS-3	26,803
Phase-IV	265,207

Total LMC-10 Flow = LMC-6, 7, 8, Abatement Well System, Phase I and II, SE Realignment (PS-4 and PS-5), and LFG condensate. Phase-IV total from PS-1, PS-2 and PS-3 and LFG condensate.

Total Discharge

LMC-10	1,298,733
<u>Phase IV</u>	<u>265,207</u>
TOTAL	1,563,940 gallons

Total Leachate

Leachate	226,316
<u>Phase IV</u>	<u>265,207</u>
TOTAL	491,523 gallons

LMC-10 Flow – Abatement System Flow = Leachate System Flow (gallons).
Abatement System Flow = 1,072,417 gallons (Neptune Flow meters)

BETHLEHEM LANDFILL
GROUNDWATER DEMAND REPORT

December 2021

Well No.	Water Level (avg. ft SWL*)	Flow (avg. GPM)	(Total gal)
AB-1R	62.9	8.9	372,996
AB-2	46.4	1.3	55,284
AB-3	27.2	0.0	766
AB-4	28.7	1.3	52,583
AB-5	55.4	0.0	2,017
AB-6	45.3	0.2	8,391
AB-7	41.0	2.4	98,931
AB-8	7.2	0.0	9
AB-9	62.0	0.1	3,072
AB-10	42.6	11.5	478,368
TW-1	N/A	<0.1	0.0
Total Flow			1,072,417 gallons

*SWL above transducer set point

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

	TIME	Phase IV PS-1 (Secondary Flows)				Phase IV PS-1 (Primary flow)				sump
	(days)	TOTALIZER	GALLONS	FLOW (gpd)	g/ac/day	Totalizer	gallons	flow(gpd)	g/ac/day	
1/6/2021	7	528310	29	4	0	63215472	34687	4955	191	20.1"
1/11/2021	5	528374	64	13	0	63272325	56853	11371	437	17.0"
1/22/2021	11	528442	68	6	0	63362249	89924	8175	314	16.1"
1/29/2021	7	528470	28	4	0	63392464	30215	4316	166	16.6"
2/4/2021	6	528480	10	2	0	63433975	41511	6919	266	24.9"
2/12/2021	8	528610	130	16	1	63491472	57497	7187	276	17.0"
2/17/2021	5	531010	2400	480	18	63526804	35332	7086	272	18.1"
2/26/2021	9	533576	2566	285	11	63591456	64652	7184	276	24.7"
3/1/2021	3	536366	2790	930	36	63633910	42454	14151	544	24.9"
3/11/2021	10	537971	1605	161	6	63739052	105142	10514	404	16.6"
3/17/2021	6	538105	134	22	1	63778385	39333	6556	252	17.7"
3/23/2021	6	539791	1686	281	11	63823346	44961	7494	288	13.8"
3/31/2021	8	541655	1864	233	9	63975260	151914	18989	730	22.9"
4/8/2021	8	541950	295	37	1	63976709	1449	181	7	13.2"
4/16/2021	8	542448	498	62	2	63985663	8954	1119	43	17.0"
4/22/2021	6	542448	0	0	0	63994854	9191	1532	59	19.5"
4/29/2021	7	542568	120	17	1	64023254	28400	4057	156	19.1"
5/7/2021	8	542814	246	31	1	64070583	47329	5916	228	16.1"
5/11/2021	4	542815	1	0	0	64076620	6037	1509	58	24.0"
5/21/2021	10	542815	0	0	0	64106614	29994	2999	115	13.0"
5/28/2021	7	542816	1	0	0	64122846	16232	2319	89	41.9"
6/4/2021	7	548217	5401	772	30	64122879	33	5	0	38.3"
6/9/2021	5	550321	2104	421	16	64132135	9256	1851	71	48.0"
6/16/2021	7	551046	1525	218	8	64159672	27537	3934	151	55.0"
6/21/2021	5	551972	126	25	1	64163121	3449	690	27	23.8"
6/30/2021	9	552336	364	40	2	64217367	54246	6027	232	4.5"
7/7/2021	7	552338	2	0	0	64254451	37084	5298	204	5.1"
7/13/2021	6	552431	93	16	1	64294156	39705	6618	255	5.6"
7/19/2021	6	552669	238	40	2	64341180	47024	7837	301	5.7"
7/29/2021	10	552803	134	13	1	64426813	85633	8563	329	6.4"
8/4/2021	6	552850	47	8	0	64473042	46229	7705	296	9.1"
8/10/2021	6	552918	68	11	0	64491021	17979	2997	115	8.5"
8/17/2021	7	552934	16	2	0	64501389	10368	1481	57	7.7"
8/26/2021	9	552961	27	3	0	64641405	140016	15557	598	7.6"
8/31/2021	5	552965	4	1	0	64679465	38060	7612	293	9.3"
9/9/2021	9	559713	6748	750	29	64925320	245855	27317	1051	6.4"
9/14/2021	5	560960	1247	249	10	64989136	63816	12763	491	7.0"
9/24/2021	10	561464	504	50	2	65110074	120938	12094	465	15.5"
9/30/2021	6	561819	355	59	2	65161611	51537	8590	330	14.2"
10/4/2021	4	561856	37	9	0	65170321	8710	2178	84	21.5"
10/14/2021	10	561917	61	6	0	65171470	1149	115	4	17.2"
10/21/2021	7	561939	22	3	0	65202575	31105	4444	171	4.9"
10/29/2021	8	574362	12423	1553	60	65247831	45256	5657	218	17.9"
11/1/2021	3	575178	816	272	10	65259282	11451	3817	147	19.5"
11/9/2021	8	575379	201	25	1	65304499	45217	5652	217	19.8"
11/16/2021	7	575767	388	55	2	65335275	30776	4397	169	13.9"
11/23/2021	7	576458	691	99	4	65389532	54257	7751	298	22.4"
11/30/2021	7	577066	608	87	3	65401029	11497	1642	63	21.3"
12/7/2021	7	577382	316	45	2	65424325	23296	3328	128	21.5"
12/17/2021	10	578191	809	81	3	65474601	50276	5028	193	21.0"
12/21/2021	4	578655	464	116	4	65500304	25703	6426	247	21.3"
12/29/2021	8	579103	448	56	2	65529062	28758	3595	138	21.1"

TIME (days)	Phase IV PS-2 (Secondary Flows)					Phase IV PS-2 (Primary)					sump inches
	TOTALIZE	GALLONS	FLOW (gpd)	g/ac/day		Totalizer	gallons	flow(gpd)	g/ac/day		
1/6/2021	7	7442	0	0	0.0	23487743	39803	5686	536	25.0"	
1/11/2021	5	7442	0	0	0.0	23517125	29382	5876	654	29.2"	
1/22/2021	11	7442	0	0	0.0	23564495	47370	4306	406	25.5"	
1/29/2021	7	7442	0	0	0.0	23589289	24794	3542	334	31.2"	
2/4/2021	6	7442	0	0	0.0	23607398	18109	3018	285	33.5"	
2/12/2021	8	7443	1	0	0.0	23623114	15716	1965	185	30.2"	
2/17/2021	5	7443	0	0	0.0	23645892	22778	4556	430	30.4"	
2/26/2021	9	7443	0	0	0.0	23669319	23427	2603	246	30.2"	
3/1/2021	3	7443	0	0	0.0	23698143	28824	9608	906	30.8"	
3/11/2021	10	7443	0	0	0.0	23767970	69827	6983	659	30.8"	
3/17/2021	6	7443	0	0	0.0	23794531	26561	4427	418	24.3"	
3/23/2021	6	7443	0	0	0.0	23831835	37304	6217	587	25.6"	
3/31/2021	8	7443	0	0	0.0	23871991	40156	5020	474	34.1"	
4/8/2021	8	7443	0	0	0.0	23910078	38087	4761	449	34.9"	
4/16/2021	8	7443	0	0	0.0	23941359	31281	3910	369	32.9"	
4/22/2021	6	7525	82	14	1.3	23962470	21111	3519	332	25.7"	
4/29/2021	7	7525	0	0	0.0	23985080	22610	3230	305	29.8"	
5/7/2021	8	7525	0	0	0.0	24009683	24603	3075	290	26.2"	
5/11/2021	4	7525	0	0	0.0	24020846	11163	2791	263	31.8"	
5/21/2021	10	7525	0	0	0.0	24049046	28200	2820	266	25.3"	
5/28/2021	7	7525	0	0	0.0	24066490	17444	2492	235	28.8"	
6/4/2021	7	7525	0	0	0.0	24083061	16571	2367	223	32.4"	
6/9/2021	5	7525	0	0	0.0	24094214	11153	2231	210	30.8"	
6/16/2021	7	7525	0	0	0.0	24119455	25241	3606	340	31.9"	
6/21/2021	5	7525	0	0	0.0	24135294	15839	3168	299	25.5"	
6/30/2021	9	7525	0	0	0.0	24157843	22549	2505	236	25.2"	
7/7/2021	7	7667	142	20	1.9	24185795	27952	3993	377	26.3"	
7/13/2021	6	7667	0	0	0.0	24207432	21637	3606	340	31.2"	
7/19/2021	6	7667	0	0	0.0	24248832	41400	6900	651	31.2"	
7/29/2021	10	7667	0	0	0.0	24285239	36407	3641	343	25.2"	
8/4/2021	6	7667	0	0	0.0	24293874	8635	1439	136	28.3"	
8/10/2021	6	7667	0	0	0.0	24308466	14592	2432	229	29.2"	
8/17/2021	7	7667	0	0	0.0	24320381	11915	1702	161	26.9"	
8/26/2021	9	7667	0	0	0.0	24349871	29490	3277	309	27.0"	
8/31/2021	5	7667	0	0	0.0	24366518	16647	3329	314	26.9"	
9/9/2021	9	7741	74	8	0.8	24406966	40448	4494	424	25.9"	
9/14/2021	5	7741	0	0	0.0	24427533	20567	4113	388	26.8"	
9/24/2021	10	7741	0	0	0.0	24464610	37077	3708	350	33.2"	
9/30/2021	6	7741	0	0	0.0	24489214	24604	4101	387	26.6"	
10/4/2021	4	7741	0	0	0.0	24504318	15104	3776	356	27.1"	
10/14/2021	10	7741	0	0	0.0	24547473	43155	4316	407	25.0"	
10/21/2021	7	7741	0	0	0.0	24570408	22935	3276	309	26.1"	
10/29/2021	8	7741	0	0	0.0	24599873	29465	3683	347	24.9"	
11/1/2021	3	7741	0	0	0.0	24607802	7929	2643	249	25.3"	
11/9/2021	8	7741	0	0	0.0	24655236	47434	5929	559	30.9"	
11/16/2021	7	7741	0	0	0.0	24689049	33813	4830	456	20.4"	
11/23/2021	7	7741	0	0	0.0	24713492	24443	3492	329	30.9"	
11/30/2021	7	7741	0	0	0.0	24749250	35758	5108	482	26.1"	
12/7/2021	7	7741	0	0	0.0	24769431	20181	2883	272	28.9"	
12/17/2021	10	7741	0	0	0.0	24811988	42557	4256	401	33.0"	
12/21/2021	4	7743	2	1	0.0	24822419	10431	2608	248	27.3"	
12/29/2021	8	7743	0	0	0.0	24857682	35163	4395	415	31.1"	

Phase IV PS-3 (Secondary)						Phase IV PS-3 (Primary)						sump
Date	days	totalizer	gallon	flow(gpd)	g/ac/day		totalizer	gallons	flow(gpd)	g/ac/day	inches	
1/6/2021	7	45015	0	0	0		13874248	11368	1624	242	22.7"	
1/11/2021	5	45278	263	53	8		13921450	47202	9440	1409	23.0"	
1/22/2021	11	45278	0	0	0		13995360	73910	6719	1003	21.1"	
1/29/2021	7	45278	0	0	0		14022430	27070	3867	577	36.1"	
2/4/2021	6	45278	0	0	0		14039186	16756	2793	417	19.4"	
2/12/2021	8	45278	0	0	0		14052755	13569	1696	253	23.5"	
2/17/2021	5	45278	0	0	0		14084002	31247	6249	933	20.6"	
2/26/2021	9	45282	4	0	0		14100432	16430	1826	272	20.7"	
3/1/2021	3	45288	6	2	0		14144285	43853	14618	2182	23.0"	
3/11/2021	10	45288	0	0	0		14197634	53349	5335	796	24.9"	
3/17/2021	6	45288	0	0	0		14226120	28466	4748	709	22.7"	
3/23/2021	6	45288	0	0	0		14255855	29735	4956	740	24.7"	
3/31/2021	8	45288	0	0	0		14292417	36562	4570	682	27.0"	
4/8/2021	8	45288	0	0	0		14333615	41198	5150	769	25.5"	
4/16/2021	8	45288	0	0	0		14368718	35103	4388	655	18.7"	
4/22/2021	6	45288	0	0	0		14389148	20430	3405	508	27.6"	
4/29/2021	7	45564	276	39	6		14405898	16750	2393	357	30.6"	
5/7/2021	8	45564	0	0	0		14416617	10719	1340	200	30.3"	
5/11/2021	4	45564	0	0	0		14427713	11096	2774	414	29.1"	
5/21/2021	10	45564	0	0	0		14451020	23307	2331	348	27.2"	
5/28/2021	7	45564	0	0	0		14466094	15074	2153	321	30.4"	
6/4/2021	7	45564	0	0	0		14487190	21096	3014	450	27.4"	
6/9/2021	5	45564	0	0	0		14498663	11473	2295	342	28.5"	
6/16/2021	7	45564	0	0	0		14537896	39233	5605	837	28.3"	
6/21/2021	5	45564	0	0	0		14558728	20832	4166	622	29.1"	
6/30/2021	9	45564	0	0	0		14573168	14440	1604	239	30.8"	
7/7/2021	7	45564	0	0	0		14612845	39677	5668	846	32.9"	
7/13/2021	6	45564	0	0	0		14627519	14674	2446	365	33.2"	
7/19/2021	6	45564	0	0	0		14648311	20792	3465	517	33.2"	
7/29/2021	10	45564	0	0	0		14680004	31693	3169	473	35.3"	
8/4/2021	6	45564	0	0	0		14691134	11130	1855	277	32.7"	
8/10/2021	6	45564	0	0	0		14701363	10229	1705	254	34.9"	
8/17/2021	7	45564	0	0	0		14713437	12074	1725	257	34.7"	
8/26/2021	9	45564	0	0	0		14733917	20480	2276	340	35.9"	
8/31/2021	5	45564	0	0	0		14748979	15062	3012	450	31.7"	
9/9/2021	9	45587	23	3	0		14773908	24929	2770	413	29.8"	
9/14/2021	5	45587	0	0	0		14788710	14802	2960	442	28.3"	
9/24/2021	10	45587	0	0	0		14824318	35608	3561	531	30.2"	
9/30/2021	6	45587	0	0	0		14840438	16120	2687	401	34.6"	
10/4/2021	4	45587	0	0	0		14856824	16386	4097	611	26.7"	
10/14/2021	10	45587	0	0	0		14871101	14277	1428	213	26.5"	
10/21/2021	7	45587	0	0	0		14887877	16776	2397	358	31.7"	
10/29/2021	8	45587	0	0	0		14897835	9958	1245	186	32.1"	
11/1/2021	3	45587	0	0	0		14901627	3792	1264	189	33.8"	
11/9/2021	8	45587	0	0	0		14910473	8846	1106	165	32.1"	
11/16/2021	7	45587	0	0	0		14916234	5761	823	123	27.1"	
11/23/2021	7	45587	0	0	0		14920432	4198	600	90	25.2"	
11/30/2021	7	45587	0	0	0		14925015	4583	655	98	26.1"	
12/7/2021	7	45587	0	0	0		14930043	5028	718	107	27.1"	
12/17/2021	10	45587	0	0	0		14938099	8056	806	120	28.3"	
12/21/2021	4	45828	241	60	9		14942332	4233	1058	158	27.2"	
12/29/2021	8	45828	0	0	0		14951577	9245	1156	172	30.6"	

Phase IV PS-4 (Secondary)						Phase IV PS-4 (Primary)						sump
Date	days	totalizer	gallon	flow(gpd)	g/ac/day		totalizer	gallons	flow(gpd)	g/ac/day	inches	
1/6/2021	7	936	0	0	0		6713174	0	0	0	24.6"	
1/11/2021	5	10815	9879	1976	143		4877820	0	0	0	24.4"	
1/22/2021	11	0	0	0	0		10180	0	0	0	22.0"	
1/29/2021	7	463	463	66	5		31358	21178	3025	219	25.3"	
2/4/2021	6	464	1	0	0		41036	9678	1613	117	28.5"	
2/12/2021	8	847	383	48	3		68177	27141	3393	246	24.8"	
2/17/2021	5	847	0	0	0		280755	212578	42516	3081	24.2"	
2/26/2021	9	847	0	0	0		437892	157137	17460	1265	23.2"	
3/1/2021	3	1272	425	142	10		785863	347971	115990	8405	21.2"	
3/11/2021	10	1693	421	42	3		928167	142304	14230	1031	22.6"	
3/17/2021	6	1693	0	0	0		973098	44931	7489	543	25.3"	
3/23/2021	6	1693	0	0	0		1028010	54912	9152	663	28.2"	
3/31/2021	8	1693	0	0	0		1121438	93428	11679	846	25.0"	
4/8/2021	8	1693	0	0	0		1170297	48859	6107	443	26.4"	
4/16/2021	8	2112	419	52	4		1214708	44411	5551	402	24.3"	
4/22/2021	6	2112	0	0	0		1240600	25892	4315	313	28.0"	
4/29/2021	7	2112	0	0	0		1267520	26920	3846	279	31.5"	
5/7/2021	8	2112	0	0	0		1303131	35611	4451	323	24.2"	
5/11/2021	4	2112	0	0	0		1320594	17463	4366	316	31.3"	
5/21/2021	10	2112	0	0	0		1356785	36191	3619	262	15.5"	
5/28/2021	7	2116	4	1	0		1378511	21726	3104	225	30.5"	
6/4/2021	7	2126	10	1	0		1493164	114653	16379	1187	30.5"	
6/9/2021	5	2134	8	2	0		1510246	17082	3416	248	26.4"	
6/16/2021	7	2186	52	7	1		1548757	38511	5502	399	25.3"	
6/21/2021	5	2224	38	8	1		1562130	13373	2675	194	30.2"	
6/30/2021	9	2323	99	11	1		1586321	24191	2688	195	27.4"	
7/7/2021	7	2517	194	28	2		1605056	18735	2676	194	27.3"	
7/13/2021	6	2650	133	22	2		1618572	13516	2253	163	31.4"	
7/19/2021	6	3250	600	100	7		1641041	22469	3745	271	31.5"	
7/29/2021	10	3568	318	32	2		1672352	31311	3131	227	35.3"	
8/4/2021	6	3741	173	29	2		1679463	7111	1185	86	30.1"	
8/10/2021	6	3756	15	3	0		1688681	9218	1536	111	31.5"	
8/17/2021	7	3861	105	15	1		1694877	6196	885	64	35.3"	
8/26/2021	9	4064	203	23	2		1728653	33776	3753	272	29.5"	
8/31/2021	5	4176	112	22	2		1741250	12597	2519	183	24"	
9/9/2021	9	4431	255	28	2		2087813	346563	38507	2790	29.3"	
9/14/2021	5	4560	129	26	2		2105926	18113	3623	263	27.3"	
9/24/2021	10	4849	289	29	2		2132257	26331	2633	191	28.4"	
9/30/2021	6	5081	232	39	3		2148205	15948	2658	193	31.2"	
10/4/2021	4	5800	719	180	13		2164380	16175	4044	293	30.1"	
10/14/2021	10	5840	40	4	0		2181999	17619	1762	128	30.2"	
10/21/2021	7	6678	838	120	9		2197928	15929	2276	165	26.6"	
10/29/2021	8	6678	0	0	0		2204673	6745	843	61	30.1"	
11/1/2021	3	7347	669	223	16		2224477	19804	6601	478	29.9"	
11/9/2021	8	7861	514	64	5		2247740	23263	2908	211	29.9"	
11/16/2021	7	8409	548	78	6		2257332	9592	1370	99	27.0"	
11/23/2021	7	8998	589	84	6		2287132	29800	4257	308	30.1"	
11/30/2021	7	9021	23	3	0		2301113	13981	1997	145	31.0"	
12/7/2021	7	9332	311	44	3		2324482	23369	3338	242	30"	
12/17/2021	10	9689	357	36	3		2352353	27871	2787	202	30.1"	
12/21/2021	4	9702	13	3	0		2364431	12078	3020	219	30.5"	
12/29/2021	8	9732	30	4	0		2387527	23096	2887	209	21.6"	

Phase IV PS-5 (Secondary)						Phase IV PS-5 (Primary)				sump
Date	days	totalizer	gallon	flow(gpd)	g/ac/day	totalizer	gallons	flow(gpd)	g/ac/day	inches
5/28/2021	0	0	0	0	0	0	0	0	0	0
6/4/2021	7	627	627	90	14	779215	779215	111316	17126	16.7"
6/9/2021	5	811	184	37	6	903241	124026	24805	3816	18.9"
6/16/2021	7	1045	234	33	5	1125400	222159	31737	4883	24.3"
6/21/2021	5	11446	10401	2080	320	1159825	34425	6885	1059	25.0"
6/30/2021	9	15320	3874	430	66	1219900	60075	6675	1027	25.8"
7/7/2021	7	15721	401	57	9	1247067	27167	3881	597	30.1"
7/13/2021	6	15932	211	35	5	1448021	200954	33492	5153	34.2"
7/19/2021	6	16537	605	101	16	1797085	349064	58177	8950	34.0"
7/29/2021	10	16537	0	0	0	1856358	59273	5927	912	33.8"
8/4/2021	6	16570	33	6	1	1874344	17986	2998	461	30.1"
8/10/2021	6	16936	366	61	9	1903851	29507	4918	757	30.5"
8/17/2021	7	17120	184	26	4	1998743	94892	13556	2086	32.1"
8/26/2021	9	18532	1412	157	24	2141539	142796	15866	2441	31.9"
8/31/2021	5	18925	393	79	12	2153305	11766	2353	362	30.2"
9/9/2021	9	19820	895	99	15	2575392	422087	46899	7215	30.9"
9/14/2021	5	20602	782	156	24	2612830	37438	7488	1152	19.7"
9/24/2021	10	20602	0	0	0	2645190	32360	3236	498	33.7"
9/30/2021	6	21374	772	129	20	2667311	22121	3687	567	33.2"
10/4/2021	4	21374	0	0	0	2679452	12141	3035	467	28.9"
10/14/2021	10	21374	0	0	0	2685638	6186	619	95	28.6"
10/21/2021	7	21374	0	0	0	2692898	7260	1037	160	32.1"
10/29/2021	8	21378	4	1	0	2703215	10317	1290	198	29.5"
11/1/2021	3	22902	1524	508	78	2745422	42207	14069	2164	28.9"
11/9/2021	8	23275	373	47	7	2760463	15041	1880	289	24.4"
11/16/2021	7	23643	368	53	8	2772137	11674	1668	257	25.5"
11/23/2021	7	23643	0	0	0	2779016	6879	983	151	33.1"
11/30/2021	7	23670	27	4	1	2784438	5422	775	119	29.3"
12/7/2021	7	23883	213	30	5	2790021	5583	798	123	29.5"
12/17/2021	10	24348	465	47	7	2800829	10808	1081	166	33.8"
12/21/2021	4	24354	6	2	0	2805432	4603	1151	177	30.3"
12/29/2021	8	24383	29	4	1	2810829	5397	675	104	31.6"

	TIME (days)	LMC-6 (Primary Flows)				LMC-7 (Primary Flows)				LMC-8 (Primary Flows)			
		TOTALIZER	GALLONS	LOW (gpc)	G/A/D	TOTALIZER	GALLONS	LOW (gpc)	G/A/D	TOTALIZER	GALLONS	LOW (gpc)	G/A/D
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	2,589	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	526287	11939	3,980	326	127,213	12490	4,163	718
3/11/2021	10.00	416664	7,746	775	49	555727	29460	2,946	241	152,914	25701	2,570	443
3/17/2021	6.00	420987	4,323	721	46	572686	16959	2,827	232	167,819	14905	2,484	428
3/23/2021	6.00	425239	4,252	709	45	589056	16370	2,728	224	183,111	15292	2,549	439
3/31/2021	8.00	431102	5,863	733	47	611859	22803	2,850	234	204,654	21543	2,693	464
4/8/2021	8.00	437037	5,935	742	47	633943	22084	2,761	226	225,646	20992	2,624	452
4/16/2021	8.00	442519	5,482	685	44	655649	21706	2,713	222	247,588	21942	2,743	473
4/22/2021	6.00	446627	4,108	685	44	671107	15458	2,576	211	263,909	16321	2,720	469
4/29/2021	7.00	451195	4,568	653	42	687732	16625	2,375	195	281,622	17713	2,530	436
5/7/2021	8.00	456387	5,192	649	41	706466	18734	2,342	192	302,666	21044	2,631	454
5/11/2021	4.00	458740	2,353	588	37	714751	8285	2,071	170	311,793	9127	2,282	393
5/21/2021	10.00	463214	4,474	447	28	734167	19416	1,942	159	334,167	22374	2,237	386
5/28/2021	7.00	468324	5,110	730	46	748439	14272	2,039	167	349,750	15583	2,226	384
6/4/2021	7.00	468458	134	19	1	764592	16153	2,308	189	365,921	16171	2,310	398
6/9/2021	5.00	469322	864	173	11	775319	10727	2,145	176	384,552	18631	3,726	642
6/16/2021	7.00	470800	1,478	211	13	791285	15966	2,281	187	394,766	10214	1,459	252
6/21/2021	5.00	474211	3,411	682	43	801641	10356	2,071	170	404,539	9773	1,955	337
6/30/2021	9.00	480250	6,039	671	43	819831	18190	2,021	166	421,152	16613	1,846	318
7/7/2021	7.00	484666	4,416	631	40	829637	9806	1,401	115	434,872	13720	1,960	338
7/13/2021	6.00	488932	4,266	711	45	829637	0	0	0	445,832	10960	1,827	315
7/19/2021	6.00	494736	5,804	967	62	829656	19	3	0	461,143	15311	2,552	440
7/29/2021	10.00	502559	7,823	782	50	829664	8	1	0	498,839	37696	3,770	650
8/4/2021	6.00	506348	3,789	632	40	829692	28	5	0	503,481	4642	774	133
8/10/2021	6.00	507134	786	131	8	829692	0	0	0	529,161	25680	4,280	738
8/17/2021	7.00	509387	2,253	322	21	829729	37	5	0	554,381	25220	3,603	621
8/26/2021	9.00	513372	3,985	443	28	829729	0	0	0	584,398	30017	3,335	575
8/31/2021	5.00	518038	4,666	933	59	829729	0	0	0	601,556	17158	3,432	592
9/9/2021	9.00	527888	9,850	1,094	70	829729	0	0	0	647,000	45444	5,049	871
9/14/2021	5.00	531475	3,587	717	46	829729	0	0	0	666,015	19015	3,803	656
9/24/2021	10.00	537556	6,081	608	39	868123	38394	3,839	315	696,124	30109	3,011	519
9/30/2021	6.00	540688	3,132	522	33	903907	35784	5,964	489	705,507	9383	1,564	270
10/4/2021	4.00	544892	4,204	1,051	67	914783	10876	2,719	223	710,423	4916	1,229	212
10/14/2021	10.00	547203	2,311	231	15	937906	23123	2,312	190	725,728	15305	1,531	264
10/21/2021	7.00	550167	2,964	423	27	952630	14724	2,103	172	735,941	10213	1,459	252
10/29/2021	8.00	551542	1,375	172	11	964772	12142	1,518	124	748,789	12848	1,606	277
11/1/2021	3.00	555199	3,657	1,219	78	975200	10428	3,476	285	751,843	3054	1,018	176
11/9/2021	8.00	559518	4,319	540	34	991661	16461	2,058	169	763,279	11436	1,430	246
11/16/2021	7.00	562928	3,410	487	31	1005836	14175	2,025	166	773,115	9836	1,405	242
11/23/2021	7.00	568743	5,815	831	53	1023781	17945	2,564	210	780,854	7739	1,106	191
11/30/2021	7.00	570573	1,830	261	17	1034669	10888	1,555	127	792,844	11990	1,713	295
12/7/2021	7.00	573823	3,250	464	30	1047552	12883	1,840	151	799,483	6639	948	164
12/17/2021	10.00	580094	6,271	627	40	1065409	17857	1,786	146	816,106	16623	1,662	287
12/21/2021	4.00	581023	929	232	15	1074432	9023	2,256	185	819,324	3218	805	139
12/29/2021	8.00	582714	1,691	211	13	1086897	12465	1,558	128	823,301	3977	497	86

	TIME (days)	LMC-6 (Secondary Flows)				LMC-7 (Secondary Flows)				LMC-8 (Secondary Flows)			
		TOTALIZER	GALLONS	LOW (gpd)	G/A/D	TOTALIZER	GALLONS	FLOW (gpd)	G/A/D	TOTALIZER	GALLONS	LOW (gpd)	G/A/D
1/6/2021	7.00	27705	202	29	2	125	0	0	0	16,889	0	0	0
1/11/2021	5.00	27958	263	53	3	125	0	0	0	36,854	19965	3,993	688
1/22/2021	11.00	28391	423	38	2	125	0	0	0	65,133	28279	2,571	443
1/29/2021	7.00	28678	287	41	3	125	0	0	0	79,599	14466	2,067	356
2/4/2021	6.00	28937	259	43	3	125	0	0	0	88,176	8577	1,430	246
2/12/2021	8.00	29256	319	40	3	125	0	0	0	111,672	23496	2,937	506
2/17/2021	5.00	29462	206	41	3	125	0	0	0	133,378	21706	4,341	748
2/26/2021	9.00	29745	283	31	2	125	0	0	0	179,776	46398	5,155	889
3/1/2021	3.00	29937	192	64	4	125	0	0	0	195,138	15362	5,121	883
3/11/2021	10.00	30325	388	39	2	125	0	0	0	230,066	34928	3,493	602
3/17/2021	6.00	30555	230	38	2	125	0	0	0	243,739	13673	2,279	393
3/23/2021	6.00	30785	230	38	2	125	0	0	0	260,808	17070	2,845	491
3/31/2021	8.00	31078	293	37	2	125	0	0	0	290,623	29814	3,727	643
4/8/2021	8.00	31378	301	38	2	125	0	0	0	330,124	39501	4,938	851
4/16/2021	8.00	31677	298	37	2	125	0	0	0	373,518	43394	5,424	935
4/22/2021	6.00	31903	226	38	2	125	0	0	0	396,707	23189	3,865	666
4/29/2021	7.00	32164	251	37	2	125	0	0	0	409,525	12818	1,831	316
5/7/2021	8.00	32474	310	39	2	125	0	0	0	412,517	2992	374	64
5/11/2021	4.00	32616	142	36	2	125	0	0	0	412,517	0	0	0
5/21/2021	10.00	32815	199	20	1	170	45	5	0	412,517	0	0	0
5/28/2021	7.00	32978	163	23	1	170	0	0	0	413,941	1424	203	35
6/4/2021	7.00	64981	32,003	4,572	291	170	0	0	0	413,957	16	2	0
6/9/2021	5.00	69765	4,784	957	61	195	25	5	0	420,583	6606	1,321	228
6/16/2021	7.00	79604	9,839	1,406	90	224	29	4	0	435,597	15034	2,148	370
6/21/2021	5.00	82969	3,365	673	43	224	0	0	0	440,499	4902	980	169
6/30/2021	9.00	88951	5,982	665	42	224	0	0	0	444,885	4388	487	84
7/7/2021	7.00	92981	4,030	576	37	224	0	0	0	446,387	1502	215	37
7/13/2021	6.00	96732	3,751	625	40	224	0	0	0	447,435	1048	175	30
7/19/2021	6.00	100362	3,630	605	39	224	0	0	0	449,855	2420	403	70
7/29/2021	10.00	107690	7,328	733	47	224	0	0	0	453,192	3337	334	58
8/4/2021	6.00	112002	4,312	719	46	224	0	0	0	455,134	1942	324	56
8/10/2021	6.00	112101	99	17	1	224	0	0	0	455,462	328	55	9
8/17/2021	7.00	117382	5,281	754	48	2570	2346	335	27	460,312	4850	693	119
8/26/2021	9.00	123701	6,319	702	45	2570	0	0	0	471,066	10754	1,195	206
8/31/2021	5.00	127453	3,752	750	48	2570	0	0	0	474,584	3518	704	121
9/9/2021	9.00	135416	7,983	885	56	2570	0	0	0	534,697	60313	6,701	1,155
9/14/2021	5.00	138683	3,267	653	42	2570	0	0	0	541,797	6900	1,380	238
9/24/2021	10.00	144559	5,876	588	37	2570	0	0	0	560,191	18394	1,839	317
9/30/2021	6.00	147782	3,223	537	34	2570	0	0	0	603,585	43394	7,232	1,247
10/4/2021	4.00	147994	212	53	3	2570	0	0	0	610,423	6838	1,710	295
10/14/2021	10.00	148336	342	34	2	2570	0	0	0	616,413	5990	599	103
10/21/2021	7.00	148615	279	40	3	2570	0	0	0	616,413	0	0	0
10/29/2021	8.00	148873	258	32	2	2570	0	0	0	638,321	21908	2,739	472
11/1/2021	3.00	149045	172	57	4	2598	28	9	1	640,042	1721	574	99
11/9/2021	8.00	155075	6,030	754	48	2598	0	0	0	640,042	0	0	0
11/16/2021	7.00	155349	274	39	2	2598	0	0	0	641,034	992	142	24
11/23/2021	7.00	156217	868	124	8	2598	0	0	0	700,644	59610	8,516	1,468
11/30/2021	7.00	157341	1,124	161	10	2598	0	0	0	723,009	22365	3,195	551
12/7/2021	7.00	158032	691	99	6	2598	0	0	0	723,040	31	4	1
12/17/2021	10.00	159838	1,806	181	12	2598	0	0	0	723,040	0	0	0
12/21/2021	4.00	159942	104	26	2	2598	0	0	0	725,832	2792	698	120
12/29/2021	8.00	160237	295	37	2	2598	0	0	0	737,374	11542	1,443	249

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

Date	Time	Address	Distance from Landfill (miles)	Weather Data (Allentown (LAME))			Residence / Drive-by	Description / Notes	Gas Management Data			Date of Initial Response	Addressed by Resp Report Date
				Wind (mph)	Temp (F)	Wind (dir/speed)			Flare (hr/m)	BLE (act/m)	Total (hr/m)		
01/08/21	7:37	Johanson Ave., Steel City	unknown	Fair	20.0	N @ 5mph	Residence	landfill odors reaching complainant's family member's residence near Lower Saucon Mt. closer to Easton Rd.				1/4/2021	1/4/2021
01/25/21	14:59	Johanson Ave., Steel City	1.170	Fair	31.0	ESE @ 5mph	Residence	Very strong gas odor on property	3230	0	3230	1/25/2021	1/25/21 (R)
01/25/21	14:59	Jefferson Ave, Steel City	0.999	Fair	31.0	ESE @ 5mph	Residence	very strong odor on property	3230	0	3230	1/25/2021	1/25/21 (R)
01/25/21	14:59	Saucon Ave, Steel City	0.883	Fair	31.0	ESE @ 5mph	Residence	very strong odor on property	3230	0	3230	1/25/2021	1/25/21 (R)
01/27/21	10:50	Johanson Ave, Steel City	0.980	Mostly Cloudy	23.0	S @ 5mph	Residence	Odor on property from the landfill. Odor described as an old garbage/leachate smell. (Complainant called back at 11:38 & said odor had dissipated. Odor was also detected throughout the neighborhood when they went for a walk.)	3215	0	3215	1/27/2021	1/4/2021
01/28/21	22:56	Applebutter Rd., Bethlehem	RA	Fair/Windy	20.0	NW @ 22 mph	non-Residence	While complainant was at the storage yard, they detected a horrible odor from the landfill.	3130	0	3130	2/4/2021	1/4/2021
02/03/21	14:40	Applebutter Rd., Bethlehem	0.420	Fair	32.0	S @ 7mph	Residence	Gas odors this morning on property from the landfill	3223	0	3223	1/4/2021	1/4/2021
03/02/21	19:29	Applebutter Rd., Bethlehem	0.420	Fair	31.0	W @ 8mph	Residence	The landfill odor is horrendous tonight & odor detected on property.	3052	0	3052	1/4/2021	1/4/2021
03/30/21	10:24	Unknown	unknown	Cloudy	53.0	E @ 8mph	Drive-by	Rep. of LT Council emailed the following: Several complaints regarding a strong landfill gas odor on Applebutter Rd. near the setraces. Complaints were not received today, but on a regular basis prior.	3102	0	3102	1/21/2021	4/26/2021
03/31/21	19:09	Saucon Ave, Steel City	0.883	Mostly Cloudy	63.0	SSW @ 5mph	Residence	intermittent landfill gas odor at home	3115	0	3115	4/7/2021	4/26/2021
04/09/21	8:35	Johanson Ave, Steel City	1.170	Cloudy	61.0	ESE @ 5mph	Residence	gas odor from the landfill detected on property	3402	0	3402	4/9/2021	4/9/2021
04/11/21	13:18	Johanson Ave., Steel City	1.170	cloudy	62.0	calm	Residence	slight landfill gas odor on property at time of call. Also noted odors yesterday.	3880	0	3880	4/11/2021	4/11/2021
04/11/21	13:21	Saucon Ave, Steel City	0.883	cloudy	62.0	calm	Residence	landfill gas odor on property that is affecting their quality of life.	3880	0	3880	4/11/2021	4/11/2021
04/14/21	20:21	Applebutter Rd., Bethlehem	0.420	Fair	68.0	N @ 7mph	Residence	reporting garbage odor on property that started on 4/13	3387	0	3387	7/1/2021	8/11/2021
07/30/21	8:11	Applebutter Rd., Bethlehem	0.420	Fair	71.0	calm	Residence	There were big storms last night but the smell coming from the landfill is atrocious this morning & it is only 8:10. It is only going to get worse from here.	3474	0	3474	8/5/2021	8/11/2021
08/04/21	18:27	Wingkoffer Rd., Bethlehem	0.190	Fair	75.0	ESE @ 5mph	Residence	it's getting terrible with the smell and beautiful weather aren't you can't even have your windows open because of landfill stinks.	3415	0	3415	8/5/2021	8/11/2021
08/14/21	9:30	Johanson Ave., Steel City	1.170	Fair	68.0	calm	Residence	Gas smell coming from the landfill. First noticed at 8:30, but complainant was leaving their home. When they returned, the odors were still present. Fair gas odor but still detectable.	3446	0	3446	10/14/2021	10/14/2021
08/19/21	17:54	Saucon Ave, Steel City	0.883	Fair	72.0	ESE @ 5mph	Residence	smell of landfill gas on property	3558	0	3558	10/14/2021	10/14/2021
08/26/21	18:27	Applebutter Rd., Bethlehem	0.420	Fair	62.0	WSW @ 5mph	Residence	The breeze is blowing & the garbage smell & I can't open my windows because all I smell is garbage	3440	0	3440	9/17/2021	10/14/2021
10/02/21	22:16	Saucon Ave, Steel City	0.883	Fair	55.0	calm	Residence	Strong odor from the landfill that was detected on property	3100	0	3100	10/14/2021	10/14/2021
10/18/21	23:35	Applebutter Rd., Bethlehem	0.420	Fair	52.0	SSW @ 7mph	Residence	It is 11:35 on a Tuesday night & the landfill has been long closed & it still smells. We wrapped garbage all day & it still smells like garbage.	3195	0	3195	10/20/2021	10/14/2021
10/21/21	6:32	Applebutter Rd., Bethlehem	0.420	Fair	55.0	W @ 7mph	Residence	It is 6:31 on a Friday & I went out this morning & the landfill smells once again. The first time I went out was 6:32 AM & it smelled already.	3265	0	3265	11/5/2021	11/17/2021
11/05/21	6:13	Saucon Ave, Steel City	0.883	Fair	30.0	SW @ 5mph	Residence	Landfill gas odor, very strong coming from Bethlehem Landfill. It is on my property & affecting my quality of life.	3275	0	3275	11/5/2021	11/17/2021
11/04/21	21:58	Wyanick Drive, Bethlehem	1.480	Fair	36.0	calm	Residence	Horrible rotten garbage smell on property	3150	0	3250	11/5/2021	11/17/2021
11/14/21	19:54	Saucon Ave, Steel City	0.883	Cloudy	43.0	S @ 10mph	Residence	Small landfill gas coming from the Bethlehem Landfill. It's unacceptable & it's affecting my quality of life. It should not be happening. Please call me back, it's pretty strong. Called again at 22:57.	3170	0	3170	11/14/2021	11/17/2021
11/16/21	21:58	Saucon Ave, Steel City	0.883	Fair	32.0	NW @ 5mph	Residence	Methane gas smell & it is terrible. On caller's property.	3180	0	3180	11/17/2021	11/17/2021
11/17/21	22:42	Saucon Ave, Steel City	0.883	Fair	38.0	calm	Residence	Slight landfill odor for a few hours on their property.	3256	0	3256	11/20/2021	11/17/2021
11/24/21	18:18	Saucon Ave, Steel City	0.883	Fair	38.0	WSW @ 7mph	Residence	Landfill gas detected on their property. The odor is awful tonight.	3025	0	3025	11/30/2021	11/17/2021
11/28/21	18:15	Kings Mill Rd, Hellertown	1.588	Cloudy	33.0	NW @ 5mph	Residence	Smelling odors from the landfill again at my property. Is the DEP ever going to have the landfill accountable for these odors? I have been reporting odors multiple times & it just keeps occurring.	3222	0	3222	11/30/2021	11/17/2021
11/30/21	12:13	Saucon Ave, Steel City	0.883	Light snow	35.0	SSW @ 5mph	Residence	Could smell landfill gas outdoors on property. Still smelling odor at 12:35.	3148	0	3148	11/30/2021	11/17/2021
12/04/21	9:21	Johanson Ave., Steel City	1.170	Cloudy	26.0	NE @ 5mph	Residence	I can smell gas when I opened my front door & it hit me right in the face.	3536	0	3536	12/4/2021	11/17/2021
12/04/21	10:07	Saucon Ave, Steel City	0.883	Mostly cloudy	39.0	calm	Residence	I am smelling a slight landfill gas odor on my property from the Bethlehem Landfill	3548	0	3548	12/4/2021	11/17/2021
12/04/21	22:55	Applebutter Rd., Bethlehem	0.420	Fair	38.0	WSW @ 5mph	Residence	It is 10:55 on Saturday night and the landfill should be long closed here at the Bethlehem Landfill outside my door it smells like methane gas, really bad.	3595	0	3595	12/4/2021	11/17/2021
12/06/21	18:21	Saucon Ave, Steel City	0.883	Cloudy	39.0	SW @ 10mph	Residence	Landfill gas odor on property	3729	0	3729	11/22/2021	
12/12/21	18:14	Jefferson Ave, Steel City	0.998	Fair	32.0	NE @ 5mph	Residence	very strong odor coming from the landfill on property	3302	0	3302	12/12/2021	

