









**Bethlehem Landfill Co.  
LST Committee Meeting Notes July 2018  
August 16, 2018**

**Agenda Items**

**I. Waste Activities**

Monthly Tonnages

	May	June	July
MSW	31,087.58	30,293.20	30,169.05
C&D	2,155.62	3,120.66	2,368.60
Residual (total)	1,920.85	1,397.69	2,001.00
Asbestos	141.40	111.82	212.27
Sewage Sludge(90/10)	79.58	80.15	43.73
Out of state (total)	18,471.71(52%)	18,947.6(54%)	18,268.85(52%)
Recycle	11(72%)	13(62%)	15(11%)

<u>Form U Submittals</u>	<u>Waste</u>	<u>Approval Date</u>
Victaulic	Contaminated Waste/Debris	7/19/18
USEPA	Contaminated Debris	8/2/18

**II. Annual Groundwater Trend Analysis**

Annual Trend analysis completed 6/29/2018 by M&E. Quarterly sampling event scheduled for first week of September by ERG.

**III. Correspondence / Reports**

Abatement System Report  
Q2 Groundwater Report

**IV. Landfill Operations**

Department of Environmental Protection Inspections

7/23/18 S. French- Engineers Meeting

Host Municipal Inspection

7/5/18 C. Taylor

7/19/18 C. Taylor

<u>Commercial Waste Vehicles</u>	May	June	July
Total #Trucks	3267	3216	3140
	May	June	July
Overweight	43	59	53
Warnings	33	31	29
Suspensions	10	28	24
	2-RL, 41-TT	58-TT, 1-RL	DT-4, 1-RO, 39-TT

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

Bethlehem Renewable Energy and Flare Operations and Gas Collection

**BRE has been running at full capacity, with intermittent shutdown, in conjunction with the flare as the main GCCS. IESI and BRE continue to communicate along with SCSFS with any routine or non-routine maintenance to maximize LFG production and minimize odors between plant and flare. AEG Environmental completed the install of 4 new vertical wells and 8 redrilled wells along with the installation of replacement header and new header to increase flows and vacuum.**

See times for flare and plant shutdowns

Beginning of event shutdown Plant	Date: 7/2/18	Time: 7:10	
End of event startup	Date: 7/2/18	Time: 13:46	Duration: 6:36min
Beginning of event shutdown Plant	Date: 7/9/18	Time: 7:17	
End of event startup	Date: 7/9/18	Time: 15:51	Duration: 8:34min

Beginning of event shutdown Plant	Date: 7/13/18	Time: 0:18	
End of event startup	Date: 7/13/18	Time: 2:52	Duration: 2:34min
Beginning of event shutdown Plant	Date: 7/13/18	Time: 7:36	
End of event startup	Date: 7/13/18	Time: 14:38	Duration: 7:02min
Beginning of event shutdown Plant	Date: 7/16/18	Time: 12:42	
End of event startup	Date: 7/16/18	Time: 15:20	Duration: 2:38min
Beginning of event shutdown Plant	Date: 7/19/18	Time: 09:12	
End of event startup	Date: 7/19/18	Time: 19:30	Duration: 10:18min
Beginning of event shutdown Flare	Date: 7/20/18	Time: 09:36	
End of event startup	Date: 7/20/18	Time: 11:41	Duration: 2:05min
Beginning of event shutdown Flare	Date: 7/29/18	Time: 03:47	
End of event startup	Date: 7/29/18	Time: 03:58	Duration: 0:11min
Beginning of event shutdown Flare	Date: 7/30/18	Time: 09:46	
End of event startup	Date: 7/30/18	Time: 12:26	Duration: 2:40min

Documentation is on file.

### North Slope

Road has washed out due to heavy rain. Sedimentation traps and ponds need cleaned out.

### 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 4 radioactive loads for July, which were all Iodine. The waste streams met level 1 requirement and were disposed of onsite.

### Phase IV Construction Activities

Currently the active disposal area is 4-A and 4-D.

### SE Realignment Construction Activities

Construction of the MSE wall is complete. The drop off center is complete. Composite is being placed in cell.

### Complaints received by Waste Connections

1 odor complaint on 7/10/18. Unsure of where it was from. 1 odor complaint on 8/7/18 at 11:09 from Bethlehem Township. DEP responded the day after each even and did not find any landfill related odors.



**BETHLEHEM LANDFILL**  
**LEACHATE DEMAND REPORT**  
**July 2018**

<u>Location</u>	<u>Total gallons</u>
LMC-6	30,271
LMC-7	17,155
LMC-8	25,791
LMC-10	1,752,000
PS-1	179,953
PS-2	98,297
PS-3	97,007
Phase-IV	448,474

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

**Total Discharge**

LMC-10	1,752,000
<u>Phase IV</u>	<u>448,474</u>
<b>TOTAL</b>	<b>2,200,474 gallons</b>

**Total Leachate**

Leachate	520,840
<u>Phase IV</u>	<u>448,474</u>
<b>TOTAL</b>	<b>969,314 gallons</b>

LMC-10 Flow – Abatement System Flow = Leachate System Flow (gallons).  
 Abatement System Flow = 1,221,160 gallons (Neptune Flow meters)

# BETHLEHEM LANDFILL

## GROUNDWATER DEMAND REPORT

July 2018

Well No.	Water Level (avg. ft SWL*)	Flow (avg. GPM)	(Total gal)
AB-1	79.7	7.1	338418
AB-2R	46.4	3.5	163949
AB-3	24.9	0.2	7780
AB-4	35.3	1.5	71578
AB-5	40.8	0.5	25042
AB-6	42.4	1.5	73019
AB-7	41.9	2.5	117368
AB-8	35.3	1.6	76547
AB-9	41.9	3.0	141010
AB-10	42.8	4.3	206449
TW-1	42.8	<0.1	0
<b>Total Flow</b>			<b>1,221,160 gallons</b>

\*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
1/3/2018	5.00	1869825	1,485	297	19	4048541	1956	391	32	7,186,462	4177	835	144
1/8/2018	5.00	1871124	1,299	260	17	4050267	1726	345	28	7,190,792	4330	866	149
1/19/2018	11.00	1874259	3,135	285	18	4054038	3771	343	28	7,199,823	9031	821	142
1/23/2018	4.00	1875502	1,243	311	20	4055580	1542	386	32	7,203,167	3344	836	144
1/30/2018	7.00	1877933	2,431	347	22	4058577	2997	428	35	7,209,026	5859	837	144
2/8/2018	9.00	1880966	3,033	337	21	4062106	3529	392	32	7,216,708	7682	854	147
2/14/2018	6.00	1883308	2,342	390	25	4064578	2472	412	34	7,221,791	5083	847	146
2/19/2018	5.00	1885424	2,116	423	27	4067006	2428	486	40	7,226,192	4401	880	152
2/26/2018	7.00	1888948	3,524	503	32	4071862	4856	694	57	7,237,088	10896	1,557	268
3/5/2018	7.00	1892750	3,802	543	35	4076300	4438	634	52	7,251,146	14058	2,008	346
3/12/2018	7.00	1896675	3,925	561	36	4093937	17637	2,520	207	7,263,202	12056	1,722	297
3/19/2018	7.00	1900129	3,454	493	31	4113947	20010	2,859	234	7,269,797	6595	942	162
3/26/2018	7.00	1903092	2,963	423	27	4121738	7791	1,113	91	7,275,931	6134	876	151
4/2/2018	7.00	1905763	2,671	382	24	4127863	6125	875	72	7,282,438	6507	930	160
4/12/2018	10.00	1908965	3,202	320	20	4135735	7872	787	65	7,291,172	8734	873	151
4/17/2018	5.00	1913740	4,775	955	61	4139567	3832	766	63	7,295,629	4457	891	154
4/25/2018	8.00	1923985	10,245	1,281	82	4145883	6316	790	65	7,302,357	6728	841	145
5/1/2018	6.00	1927224	3,239	540	34	4150402	4519	753	62	7,307,719	5362	894	154
5/7/2018	6.00	1929415	2,191	365	23	4153984	3582	597	49	7,312,372	4653	776	134
5/14/2018	7.00	1931714	2,299	328	21	4157899	3915	559	46	7,317,861	5489	784	135
5/22/2018	8.00	1941451	9,737	1,217	78	4162642	4743	593	49	7,324,158	6297	787	136
5/30/2018	8.00	1957150	15,699	1,962	125	4168640	5998	750	61	7,330,876	6718	840	145
6/7/2018	8.00	1962087	4,937	617	39	4173975	5335	667	55	7,337,432	6556	820	141
6/11/2018	4.00	1963994	1,907	477	30	4176297	2322	581	48	7,340,758	3326	832	143
6/20/2018	9.00	1968645	4,651	517	33	4181070	4773	530	43	7,347,903	7145	794	137
6/29/2018	9.00	1972093	3,448	383	24	4185888	4818	535	44	7,354,995	7092	788	136
7/5/2018	6.00	1975571	3,478	580	37	4188922	3034	506	41	7,359,559	4564	761	131
7/9/2018	4.00	1977247	1,676	419	27	4190621	1699	425	35	7,362,407	2848	712	123
7/16/2018	7.00	1980957	3,710	530	34	4193793	3172	453	37	7,367,648	5241	749	129
7/23/2018	7.00	1987902	6,945	992	63	4197413	3620	517	42	7,373,190	5542	792	137







