IESI Bethlehem Landfill Committee Meeting Minutes

Date:	Thursday, May 17, 2018
Time:	1:00 p.m.
Location:	Lower Saucon Township Council Meeting Room
Attendance:	Hanover Engineering: Chris Taylor; Exelon: Lane Bradley; IESI: Don Hallock, Nick Rogers,
	Dave Pannucci; Council Liaison: Priscilla deLeon (speaker phone); Member: Hazem Hijazi; Staff:
	Leslie Huhn & Diane Palik. Absent: Member, Neil Ortwein.

Mr. Rogers reviewed the monthly tonnages for April.

	February	March	April
MSW	25,611.34	28,224.52	33,015.82
C&D	3,921.65	3,102.75	2,447.50
Residual (Total)	1,632.12	2,100.62	1,192.35
Asbestos	230.40	0.0	0.0
Sewage Sludge-New Category as of 02-15-18	91.06	78.40	64.13
Out of State (Total)	21,948.69 (67%)	20,24.18 (62%)	18,936.46 (52%)
Recycle	8 (75%)	7 (70%)	9 (78%)
No. Trucks	2,532	2,753	3,104

Mr. Taylor asked what the daily acceptance rates were. Mr. Hallock said about 1,400 per day. Mr. Taylor said your daily limit is 1,375. Mr. Hallock said their daily limit is 1,800, their average is 1,375. Mr. Taylor said the recycling is pretty consistent and it's great you are getting that recycling.

Mr. Rogers had seven Form U Submittals from April 11 through May 7, 2018. The annual groundwater sampling is to be completed by Earth Res Group by the week of June 2, 2018. Mr. Taylor asked how the North Slope road was. Mr. Hallock said they clean it every day and they have re-stoned and regraded it. Mr. Taylor said on Riverside Drive he didn't see any signs of water coming down the slope and going across the road like in past years.

Mr. Rogers said for Correspondence Reports, they had the abatement system report, Q1 Quarterly Fees Report and Q1 Groundwater report.

Mr. Rogers said for Landfill Operations and Inspections, on April 5th, there was a DEP SW inspection for solid waste. On April 18th, there was a DEP AQ and SW Inspection for air. April 26th there was an engineer's meeting and inspection follow-up. May 10th was an inspection follow-up. Mr. Taylor said the inspection on April 18th is where the violations were cited. They came back on April 26th and just issued a report in which they say the six solid waste inspections noted on April 18th are still outstanding. They acknowledge you've made progress on all the issues raised, but you are not 100% there yet. They note that IESI is making a good faith effort to address these items. It's just a matter of continuing what you are doing.

Mr. Taylor asked about the Trash Net. Mr. Hallock said it was a PA Trash Net. They were one of the landfills between five counties. There were five inspectors on site and they checked for leaky loads, the Act 90 cards, municipal waste residual, lettering on the trucks and they make sure everybody has the proper paperwork. He has not seen a report on this yet. There were two overweight's and one didn't have a copy of an Act 90, so another truck brought it there in order for them to dump. He and Amy Faulch drove around the site and she was very happy with the progress. They didn't see a report on that either. Mr. Taylor said the Trash Net is separate from IESI's operation, they cite the hauler. Mr. Hallock said correct.

Mrs. deLeon said last night at the Council meeting, we spoke about the truck traffic and noise on Flint Hill Road and Route 412. PennDOT refuses to lower the speed limit and the residents are not happy about that. PennDOT is also doing paving there, so they are hoping paving in the potholes will help. Every time a truck goes by, the one resident's house shakes. Mrs. deLeon had asked Mr. Hallock to speak to the truck drivers and ask them to be mindful in that area. Mr. Taylor said are we talking about local garbage trucks? Mrs. deLeon said this is coming down Flint Hill Road and turning left. Mrs. Huhn said they said they were local garbage trucks.

Mr. Rogers said there were three Host Municipal Inspections from April 5 through May 1, 2018.

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Mr. Rogers said Commercial Waste Vehicles for April there was 3,104; overweight's were 48 with 38 warnings and 10 suspensions. There was no Lower Saucon Township police report for April. Mr. Taylor said as the number of trucks increase substantially from February, the overweight's decease, which is good. Mr. Hallock said they are working on this daily.

Mr. Rogers said BRE was running at full capacity, but they are currently off. They should be back up today. They continue to communicate with BRE along with SCSFS with any routine or non-route maintenance to maximize LFG production and minimize odor between plant and flare. AEG Environmental completed the install of four new vertical wells and 8 re-drills. The replacement header under the haul road has been completed. AES is working on replacement of old header and installation a new header along with constructing air and drain lines to each well to install de-watering pumps.

Mr. Taylor said when he was out the other day; there was a landfill gas odor by one of these re-drilled wells. By the time you got 50 ft. away from it, you couldn't smell it anymore. Gas will be leaking out of it a little bit until they are all hooked up.

Mr. Bradley said they were online 84.2%. They had a spring outage and were down for a full week for turbine work. They were also down for a maintenance outage and two alarms they had. Both compressors/motors were sent out and they expect to have the compressor back in 3 or 4 weeks and the motor back in 2 weeks. Mr. Taylor said the flare was doing about 2800 today which was about 78% of the variable frequency drive. There were no visible emissions.

Mrs. deLeon said she asked Cathy Gorman about the host fee payments and our last payment was received on February 5, 2018 in the amount of \$1,575.53 and it was for 3Q17. Mr. Bradley said he spoke to their person who takes care of this, and she is going to make it happen.

Mr. Taylor said the one pipe under the south haul road had been sagging and watered in and got replaced with a replacement header. He observed that today as it's above the ground now. Your gas collection in the western part of the landfill is not going to be impeded by that anymore and that probably played a role in some of the surface emissions exceedances. Mr. Rogers said correct. Mr. Taylor said a couple of the things that caused the exceedances noted by DEP had been fixed or are being fixed.

Mr. Taylor asked for an update on the 19 exceedances that were noted during the April 18th DEP inspection. Mr. Rogers said they did a 10-day recheck and had 4 exceedances. They did another 10-day recheck and they had one exceedance. With that last exceedance, the gas expansion they are doing covers the timeframe to expand the system, which is the corrective action. The 30-day recheck is tomorrow.

Mr. Rogers said the North Slope sedimentation traps are functional and the perimeter road is in good condition. 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. Upgrading of controls and motors is taking place for preventative maintenance.

Mr. Rogers said the flow rates for the leachate collection continue to be monitored and reported. Intermittent malfunctions of the well pumps and controls are repaired or replaced as needed.

Mr. Rogers said there were three radioactive loads for April, which was Iodine 131. The waste stream met Level 1 requirements and was disposed of onsite. Currently for Phase IV construction, the active disposal area is cell 3D.

Mr. Rogers said the SE Realignment construction of the MSE wall is complete. The drop off center is being worked on with the warmer weather. New high voltage electric is being installed. There were no complaints for April or to date. Mrs. deLeon said the only complaint she knows of was an additional one from Donna Louder that was mentioned at the Council meeting. The January 25th one was the one she called in, but then there was another one which she didn't call in.

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Mr. Hijazi said wouldn't you expect with the exceedances and the emissions you would have more odor complaints? Mr. Hallock said during the April 18th DEP inspection when they received the 8 NOV's, there was no conversation of off-site odors of the 19 exceedances. He thinks Chris Taylor alluded to a slight gas odor by the new wells drilled, and then you go 50 feet away and there's nothing. They do odor patrols all the time and there have been no odors on Applebutter Road, Steel City, Skyline or Ringhoffer. You would think you would have some odor from the exceedances but having only four exceedances in that general area and the cover they put back on it, it makes a big difference.

Mr. Taylor said IESI has distributed, by email to DEP and the Township, the response to the NOV letters. The first response says you are implementing a new inspection daily. Do you feel that will keep a better handle on what's going on at the facility? Mr. Rogers said yes. Mr. Taylor said today he was shown the area of the leachate seeps documented before and he saw no evidence of any seeps. It appears your repairs are holding. Those areas will eventually get seeded. If you get a seep there, you'll see it. He said most of the areas that had exposed garbage have been covered. There was a small area where there were drilling activities, so you couldn't get in there while the driller was there. You have piles staged there ready to cover it and they are waiting for drier site conditions. Probably by the next inspection, that will be done.

Mr. Taylor said regarding the flare, you were going to have ERG look at the louver operations and see if they could troubleshoot that. Mr. Rogers said they are in the process of reprogramming the louver system. They went into LFG's program and are manipulating it so it works properly. Mr. Taylor said when you went to automation, he thought that was great but it wasn't sufficient, so this will help. Mr. Rogers said correct.

Mr. Taylor reviewed all the primary and secondary flows at the pump stations. He said you are still doing maintenance on these once a year. Mr. Rogers said yes, it's scheduled for July. Mr. Taylor said Applebutter Road was cleaned today in spite of how rainy it was. Because of where the working face is, you see more of the landfill operations than you ever have before and that will continue for a while.

Mr. Taylor said there was discussion at the TCC meeting about noise. They will be looking into that in the coming weeks and evaluating what the Township ordinances require regarding noise and what may or may not need to be done.

Mr. Taylor said from the TCC meeting, there were document requests he sent out last evening and Mr. Rogers already got back on one request. Mr. Rogers said he submitted the rest to the Township today.

Regarding the stockpile material, Mr. Hallock advised Mr. Taylor that they have the eastern stockpile, which can also be used for structural fill and they can use it as cover material, as needed. Mr. Taylor probed some cover depths today and they were 12" or better in the intermediate coverage areas. The probing will be an ongoing thing that he will do.

The mid-month inspection will be June 7^{th} at 10:30 a.m. The next regular inspection will be June 21^{st} at 10:00 a.m. and the Landfill Committee meeting at 1:00 p.m. Mr. Hallock said he will be unavailable. The meeting adjourned at 1:45 p.m.

IESI Bethlehem Landfill LST Committee Meeting Notes May 17, 2018

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Agenda Items

I. Waste Activities

Monthly Tonnages

	February	March	April
MSW	25,611.34	28,224.52	33,015.82
C&D	3,921.65	3,102.75	2,447.50
Residual (total)	1,632.12	2,100.62	1,192.35
Asbestos	230.40	0.0	0.0
Sewage Sludge	91.06	78.40	64.13
Out of state (total)	21,948.69(67%)	20,724.18(62%)	18,936.46(52%)
Recycle	8(75%)	7(70%)	9(78%)

Form U Submittals	Waste	Approval Date
WeCare Organics LLC	Pb Contaminated Soil	4/11/2018
Nestle Purina Pet Care Co.	Petro. Contaminated Soil	4/16/2018
Norfolk Southern RR	Treated Wood	4/19/2018
Triple Crown Disposal	ACM	4/19/2018
GEO Specialty Chemicals Inc.	Resin	5/1/2018
EZ 2 Dump LLC	Contaminated Soil	5/2/2018
PALGC UST LLC	Petro. Contaminated Soil	5/7/2018

II. Annual Groundwater Trend Analysis

Groundwater sampling to be completed by Earth Res Group the week of June 2nd.

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III. Correspondence / Reports

Abatement System Report Q1 Quarterly Fees Report Q1 Groundwater Report

IV. Landfill Operations

Department of Environmental Protection Inspections

4/5/18	A. Faulch, T. Sirnic- DEP SW Inspection
4/18/18	J. Wagoner, A. Faulch, T. Sirnic- DEP AQ and SW Inspection
4/2.6/18	S. French, A. Faulch, R. Malizia- Engineers meeting- Inspection follow up
5/10/18	A. Faulch, J. Cimera, T. Sirnic, M. Lucshy, R. Laczi- Trash net-
	Inspection follow up.

Host Municipal Inspection

4/5/18	C. Taylor
4/19/18 .	C. Taylor
5/1/18	C. Taylor

Commercial Waste Vehicles	February	March	April
Total #Trucks	2532	2753	3104
	February	March	April
Overweight	75	50	48
Warnings	59	39	38
Suspensions	16	11	10
	66-TT 4-DT,	1-FL, 45- TT	48-TT

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

Lower Saucon Township Police Report:

None for the month of April

Bethlehem Renewable Energy and Flare Operations and Gas Collection

BRE has been running at half capacity in conjunction with the flare as the main GCCS. Currently the BRE plant is down for the week for annual maintenance. 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 10 re-drills. The replacement header under the haul road has been completed. AEG is working on replacement of old header and installation of new header along with constructing air and drain lines to each well to install de-watering pumps.

See times for flare and plant shutdowns

Beginning of event shutdown Flare	Date: 4/3/18	Time: 11:34	Duration: 8:19min
End of event startup	Date: 4/3/18	Time: 19:53	
Beginning of event shutdown Flare	Date: 4/4/18	Time: 12:33	Duration: :14min
End of event startup	Date: 4/4/18	Time: 12:47	
Beginning of event shutdown Flare	Date: 4/4/18	Time: 13:12	Duration: 22:06min
End of event startup	Date: 4/5/18	Time: 11:18	
Beginning of event shutdown Flare	Date: 4/5/18	Time: 19:29	Duration: 13:28min
End of event startup	Date: 4/6/18	Time: 10:57	
Beginning of event shutdown Flare End of event startup	Date: 4/12/18 Date: 4/12/18		Duration: :16min
Beginning of event shutdown Flare	Date: 4/12/18	Time: 11:11	Duration: :15min
End of event startup	Date: 4/12/18	Time: 11:26	
Beginning of event shutdown Flare End of event startup	Date: 4/12/18 Date: 4/12/18		Duration: 1:32min
Beginning of event shutdown Flare End of event startup	Date: 4/18/18 Date: 4/18/18		Duration: :13min

Beginning of event shutdown Flare End of event startup	Date: 4/19/18 Date: 4/19/18		Duration: :11min
Beginning of event shutdown Plant	Date: 4/2/18	Time: 07:14	
End of event startup			Duration: 9:53min
Beginning of event shutdown Plant	Date: 4/5/18	Time: 01:47	
End of event startup	Date: 4/5/18	Time: 02:54	Duration: 1:47min
Beginning of event shutdown Plant	Date: 4/16/18	Time: 06:19	
End of event startup	Date: 4/20/18	Time: 11:12	Duration: 95:57min
Beginning of event shutdown Plant	Date: 4/23/18	Time: 23:43	
End of event startup	Date: 4/24/18	Time: 00:25	Duration: :47min

Documentation is on file.

North Slope

Sedimentation Traps functional, perimeter road is in good condition.

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. Upgrading of controls and motors is taking place for preventive maintenance.

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 3 radioactive loads for April which was Iodine 131. The waste streams met level 1 requirement and were disposed of onsite.

Phase IV Construction Activities

Currently the active disposal area is cell 3D.

SE Realignment Construction Activities

Construction of the MSE wall is complete. The drop off center is still being worked on with the warmer weather. New high voltage electric is being installed.

Complaints received by IESI

No known odor complaints for April or to date.

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818		TIME			Secondary Flo		<u> </u> F		/ PS-1 (Prima				sump
819		(days)	TOTALIZER	GALLONS	FLOW (gpd)	glaciday			Totalizer	gallons	flow(gpd)	g/ac/day	inches
820	4/7/0047	42742	000050	289252	7	0	<u> </u>		44702260	44702260	1046	40	10"
821 822	1/7/2017	42142	289252 289267	289252	2	0	├		44702260	99259	11029	40	
823	1/25/2017	9	289278	11	1	. 0			44957309	155790	17310	666	
824	1/31/2017	6	289279	1	0	0			45046100	88791	14799	569	16"
825	2/7/2017	7	289387	108	15	1	[45143008	96908	13844		30"18"
826	2/17/2017	10	291442	2055	206	8	 		45275449	132441	13244	509	
827	2/21/2017	4	291565	123	31	1	ļ		45326586	51137	12784	492	
828	3/1/2017	8 7	291951	386 292	48	2	<u> </u>		45424633 45512202	98047 87569	12256 12510	471 481	22" 14.5"
829 830	3/8/2017 3/13/2017	5	292243 292429	186	37	2			45569317	57115	11423	439	
831	3/24/2017	11	292429 292755	326	30	1			45703669	134352	12214		23.4"
832	4/1/2017	8	292881	126	16	1			45741972	38303	4788	184	33"
833	4/10/2017	9	293182	301	33	1			45921912	179940	19993		33"
834	4/21/2017	11	293583	401	36	1	ļ		46039244	117332	10667	410	
835	5/5/2017	14	294355	772	55	2	[46228523	189279	13520	520	
836	5/16/2017	11	294429	74	7	0	<u> </u>		46314948	86425 136161	7857 10474	<u>302</u> 403	32"
837	5/29/2017 6/6/2017	<u>13</u> 8	294672 295616	243 944	19 118	5		······	46451109 46544796	93687	11711	405	
838 839	6/14/2017	8	295818	203	25	1			46598825	54029	6754	260	
840	6/26/2017	12	296223	404	34	1			46715770	116945	9745	375	
841	7/12/2017	16	296795	572	36	. 1			46859351	143581	8974	345	26"
842	7/25/2017	13	297257	462	36	1			46980076	120725	9287	357	
843	8/1/2017	7	297504	247	35	1	_		47042709	62633	8948	344	
844	8/7/2017	6	297709	205	34	1		Ļ	47097535	54826	9138	351	
845	8/15/2017	8	298039	330	41 38	2			47176059	78524 83499	9816 9278	378 357	
846 847	8/24/2017 9/5/2017	9 12	298381 298758	<u>342</u> 377	31	1	╂		47259558 47366076	106518	8877	341	
848	9/11/2017	6	290756	254	42	2			47425755	59679	9947	383	
849	9/22/2017	11	299386	374	34	1			47525121	99366	9033	347	
850	10/1/2017	9	299717	331	37	1			47611077	85956	9551	367	
851	10/10/2017	9	299932	215	24	1			47667570	56493	6277	241	
852	10/18/2017	8	300121	189	24	1	ļ	ļ	47718430	50860	6358	245	
853	10/30/2017	12	300460	339	28	1		 	47813623	95193	7933 7738	305 298	
854	11/9/2017 11/16/2017	10 7	300762 300952	<u>302</u> 190	30	1			47891007 47943070	77384 52063	7438	290	
855 856	11/21/2017	5	301075	123	25	1			47980793	37723	7545	290	
857	11/30/2017	9	301262	187	21	1			48038300	57507	6390	246	
858	12/5/2017	5	301488	226	45	2			48093082	54782	10956	421	17"
859	12/14/2017	9	301731	243	27	1			48172709	79627	8847		19.1*
860	12/18/2017	4	301805	74		1			48192775	20066	5017		22.3*
861	12/29/2017	11	302000	195	18	1	<u> </u>		48268709	75934	6903	200	13,4"
862 863							<u> </u>						
864											1		
865									-				
866		TIME	Phas	e IV PS-1 (Secondary Flo	ws)	F	hase l	/ PS-1 (Prima				sump
867		(days)	TOTALIZER	GALLONS	FLOW (gpd)	g/ac/day	ļ			gallons	flow(gpd)	g/ac/day	inches
868		5	302042						48301870		6632		14.2"
869		5	302042	0		0			48316003	<u>14133</u> 620	2827 56	109	14.4" 18.4"
870 871	1/19/2018 1/23/2018	<u>11</u> 4	<u>302042</u> 303551	0 1509	0 377	0			48316623 48316672	49	12		18.4"
871			303551		171	7			48317544	872	125		15.3"
873	2/9/2018	10	305235	487	49	2			48321272	3728	373	14	18.1"
874		5	306423	1188	238	9		1	48322929	1657	331		16.1"
875	2/19/2018	5	306927	504	101	4			48335358	12429	2486		20.2*
876		7	308297	1370	196	8		ļ	48365809	30451	4350		17.8"
877		7	309239			5		 	48394293	28484	4069		14.9"
878		- 7	310109	870 765	124	5			48421021 48450104	26728 29083	3818 4155		21.2" 11.3"
879 880		7	310874 310907	33		4			48450104 48481784	31680	4105		14.7"
881		7	310907	19		0		1	48515391	33607	4801		17.7"
882		10	312355	1429		5		1	48563817	48426	4843		15.9"
883		5	312358	3	1	0	<u> </u>	I	48589965	26148	5230	201	14.4"
884	4/25/2018	8	313666			6			48632494	42529	5316		22.9"
885		6	313670	4	1	0		<u> </u>	48668382	35888	5981	230	21.9"
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888 889			L	l	I	Į		I	L	1		····	ļ
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818	TIME		se IV PS-2 (S	econdary		· · · ·			IV PS-2 (Pri			· · · ·	sump
819	(days)	OTALIZEI		FLOW (gpd)					Totalizer	gailons	flow(gpd)	g/ac/day	Inches
820													
821	1/7/2017	#VALUE!	7137	#VALUE!	#VALUE!	#VALUE!				17511066	#VALUE!	#VALUEI	
822	1/16/2017	9	7137	0	0	0.0			17522171	11105	1234	116	
823	1/25/2017	9	7137	0	. 0	0.0			17537426	15255	1695	160 336	
824	1/31/2017	6 7	7137	0	0	0.0			17558779 17571456	21353 12677	<u>3559</u> 1811	336	
825 826	2/7/2017 2/17/2017	7	7137	0	0	0.0			17633923	62467	6247	589	
827	2/21/2017	4	7137	0	0	0.0			17636320	12869	3217	304	******
828	3/1/2017	8	7137	0	0	0,0			17674133	27341	3418	322	
829	3/8/2017	7	7138	1	0	0.0			17697782	23649	3378	319	31.2"
830	3/13/2017	5	7138	0	0	0.0			17714733	16951	3390		31.2"
831	3/24/2017	11	7138	0	0	0.0			17753003	38270	3479		27.4"
832	4/1/2017	8	7138	0	0	0,0			17762589	9586	1198		30.5"
833	4/10/2017 4/21/2017	9	7138	0	0	0.0			17815881 17859299	53292 43418	<u>5921</u> 3947	559 372	
834 835	4/21/2017 5/5/2017	11 14	7138 7138	0	0	0.0			17059299	54604	3900	368	***********
836	5/16/2017	14	7138	0	0	0.0			17915903	72046	6550	618	
837	5/29/2017	13	7138	0	0	0.0			18015722	29773	2290	216	
838	6/6/2017	8	7138	0	0	0.0			18016925	1203	150	14	30″
839	6/14/2017	8	7138	0	0	0.0			18035645	18720	2340	221	
840	6/26/2017	12	7138	0	0	0.0			18037073	1428	119		30"
841	7/12/2017	16	7138	0	0	0.0		Ļ	18128370	91297	5706	538	
842	7/25/2017	13	7138	0	0	0.0	<u> </u>		18171446	43076	<u>3314</u> 3411	313	
843 844	8/1/2017 8/7/2017	7	7138	0	0	0,0 0.0	ļ		18195320 18214689	23874 19369	3411 3228	322 305	
844	8/15/2017	8	7138	0	0	0.0			18242303	27614	3452	326	
846	8/24/2017	9	7138	0	0	0.0			18272110	29807	3312	312	
847	9/5/2017	12	7138	0	0	0.0			18313001	40891	3408	321	34"
848	9/11/2017	6	7138	0	0	0.0			18333418	20417	3403	321	30"
849	9/22/2017	11	7138	0	0	0.0			18370928	37510	3410		30"
850	10/1/2017	9	7138	0	0	0.0			18421486	50558	5618		28"
851	10/10/2017	9	7138	0	0	0.0			18464340	42854	4762	449	
852	10/18/2017 10/30/2017	8 12	7138	0	0	0.0 0,0			18519013 18574705	54673 55692	<u>6834</u> 4641	645 438	*****
853 854	11/9/2017	12	7138	0	0	0.0			18621525	46820	4682	430	
855	11/16/2017	7	7138	0	0	0.0			18652877	31352	4479	423	
856	11/21/2017	5	7138	0	0	0.0			18675689	22812	4562	430	
857	11/30/2017	9	7138	0	0	0.0			18708150	32461	3607	340	30"
858	12/5/2017	5	7138	0	0	0.0			18739411	31261	6252		30.3"
859	12/14/2017	9	7138	0	0	0.0			18784389	44978	4998	471	*****
860	12/18/2017	4	7138	0	0	0.0			18796813	12424	3106		30.3"
861	12/29/2017	11	7138	0	0	0.0			18843252	46439	4222	398	28.8"
862 863		i											
864													
865									(
866	TIME		se IV PS-2 (S	-				Phase	IV PS-2 (Pri			-	sump
867	(days)	OTALIZEI	GALLONS	FLOW (gpd)	glaciday				Totalizer	gallons	flow(gpd)		inches
868	1/3/2018	5	7138	0	0	0.0			18866480	23228	4646 4778		28.6" 28.2"
869 870	1/8/2018 1/19/2018	5 11	7138 7138	0	0	0.0	├ ──┤	<u> </u>	18890370 18944684	23890 54314	4778	451	
870	1/19/2018	4	7138	0	0	0.0			18964100	19416	4938		32.2"
872	1/30/2018	7	7138	0	Ö	0.0			19002400	38300	5471		32.2"
873	2/9/2018	10	7138	0	0	0.0			19056884	54484	5448		27.8"
874	2/14/2018	5	7138	0	0	0.0			19082812	25928	5186		29.5"
875	2/19/2018	5	7138	0	0	0.0			19110348	27536	5507		29.5*
876	2/26/2018	7	7138	0	0	0.0	L		19152625	42277	6040		28.4"
877	3/5/2018	7	7138	0	0	0.0	ļ		19199875 19243472	47250	<u>6750</u> 6228		32.9" 28.6"
878 879	3/12/2018 3/19/2018	7	7138 7138	0	0	0.0			19243472	43597 39341	5620	í	28.6" 32.2"
860	3/19/2018 3/26/2018	7	7138	0	0	0.0			19262613	35092	5013		32,2 31.4"
881	4/2/2018	7	7138	0	Ö	0.0			19354133	36228	5175		33.9"
882	4/12/2018	10	7138	0	0	0.0		·	19408065	53932	5393		32.9"
883	4/17/2018	5	7138	0	0	0.0			19433177	25†12	5022		29,9"
884	4/25/2018	8	7138	0	0	0.0	1		19475666	42489	5311		31.4"
885	5/1/2018	6	7138	0	0	0.0		ļ	19505950	30284	5047	476	30.7"
886													
887 888									1				
888			L	Į	[]	ļ				<u>∤</u> ∤	L		
890				ļ	; 	1	1						
891						: 	ļ	ļ					
892		1		1	i	:	1	ŀ	L	1		<u> </u>	<u>i</u>

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	AE	AF	AG	AH	AI	AJ	AK AL	AM	AN	AO	AP	AQ
818		Phase I	V PS-3 (S	econdary			Phase IV	/ PS-3 (Prin	nary)	1-1-		sump
819		days	totalize	r gallon	flow(gpd) glaciday		totalizer	gailons	flow(gpd)	g/ac/daq	
820											1	1
821	1/7/2017		the second data was not set of the second data was not set of the second data was not set of the second data w					8985268	6985258	3 163	39	33"
822	1/16/2017		9 4221					7036176	60918	5658	1363	321
823	1/25/2017		9 4221					7121135	84959	9440	2275	33
824	1/31/2017		4221					7171436			2020	33
825	2/7/2017		7 4239				L	7223719	52283		1800	33"
826	2/17/2017							7258490		3477	838	33"
827	2/21/2017		4239				·····	7276747	16257		1100	33*
828 829	3/1/2017		3 4239					7306547	29800			33"
830 830	3/8/2017 3/13/2017				0			7335358	28809			34.4"
831	3/24/2017				0	0		7351921	16565			49,9°
832	4/1/2017				0	0		7422767	70846			32.5"
833	4/10/2017	-			0	0		7436125	13358			33"
834	4/10/2017				14	1		7567449	131324		3516	
836	5/5/2017				0	0		7614430	46981	4271	1029	
836	6/16/2017	14			0	0		7675120	60690		1045	
837	5/29/2017							7756823	81703	7428	1790	
338 338	6/6/2017	10	····		0	0		7781763	24940		462	
339	6/14/2017	8			0			7789950	8187	1023	247	
340	6/26/2017	12			0	0		7798965	9015	1127	272	
341	7/12/2017	16			0	0	······	7849110	50145	4179	1007	
342	7/25/2017	13			0	0	 	7909538	60428	3777	910	
343	6/1/2017	7		1	0	0		7963198 7988847	53660	4128	995	
344	8/7/2017	6			0	0		8004442	25649	3664 2599	883	
345	8/15/2017	8			0	0		8034323	15595 29881	3735	628	
346	8/24/2017	9			0	0		8060817	29881	2944	900 709	27* 28*
47	9/5/2017	12			ŏ	0		8095917	35100	2944		28"
148	9/11/2017	6			0	Ū.		8114833	18916	3153	760	
149	9/22/2017	11			0	Ö		8146263	31430	2857		20 27*
150	10/1/2017	9		0	0	Ő		8165540	19277	2142		281
151	10/10/2017	9		and the second se	Ō	ō		8193588	28028	3114		20
52	10/18/2017	8		0	ō	Ő		8215228	21660	2708	652	28"
153	10/30/2017	12	42525		Ó	ō		8248195	32967	2747		26*
64	11/9/2017	10	42525	0	0	0		8282864	34669	3467	835	
55	11/16/2017	7		0	0	0		8304208	21344	3049	-	50"
56	11/21/2017	5	42525	0	Ö	Ó		8320030	15822	3164	763	
57	11/30/2017	9	42525	0	0	0		8343453	23423	2603	627	
58	12/5/2017	5	42559	34	7	1		8384692	21239	4248	1024	
59	12/14/2017	9	42559	0	0	0		8394093	29401	3267		24.9"
60	12/18/2017	4	42559	0	0	0		8401668	7576	1894		24.9"
61	12/29/2017	11	42581	22	2	0		8434286	32618	2965	715	
<u>62</u>												
63												
64								1		Ì		
85		D	DO 6 (6	Ļ		Ţ				f		
88		Phase IV						PS-3 (Prima]		sump
67	Date	days	totalizer			glaciday		totalizer	gallons	flow(gpd)		
68	1/3/2018	5	42581	0	0	0		8447408	13122	2624	632	
<u>69</u>	1/8/2018	5	42581	0	0	0		8460116	12708	2542	612	25,3"
70	1/19/2018	11	42581	0	0	0		8502963	42647	3895	939	25.91
71	1/23/2018	4	42581	0	0	0		8514485	11522	2881	694	
72	1/30/2018	7	42582	1	0	0		8544625	30140	4306	1038	
73	2/9/2018 2/14/2018	10	42582	0	0	0		8579847	35222	3522	849	
74	2/14/2018	5	42582	0	0	0		8610530	30683	6137	1479	
75 76		5	42582	0	0	0		8640256	29726	5945	1433	
77	2/26/2018 3/5/2018	7	42582 42582	0	0	0		8687943	47687	6812	1642	
78	3/5/2018	7	42583	1	0	0		8743191	55248	7893	1902	
79 79	3/19/2018	7	42583	0	0	0		8789495	48304	6615	1594	
80 80	3/26/2018	7	42683	46	7	1		8823534	34039	4863	1172	
81	4/2/2018		42629	40	0	0		8850029	26495	3785	912	
32	4/12/2018	10	42631	0	0	0		8877792	27763	3966	956	
93	1122010		14001		V		ł	0910209	40467	4047	975	24.7
94								ł				
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IESI PA BETHLEHEM LANDFILL CORP.

×	024 11	025 (di	026 1/3/2018	027 1/8/2018	028 1/19/2018	029 1/23/2018	030 1/30/2018		2/14/2018	033 2/19/2018	034 2/26/2018	035 3/5/2018	036 3/12/2018	037 3/19/2018	038 3/26/2018	039 4/2/2018	040 4/12/2018	041 4/17/2018	042 4/25/2018	043 5/1/2018	1044	
	TIME	(days)	5.00	5.00	11.00	4.00	2.00	10.00	5.00	5.00	2.00	7.00	7.00	7.00	2.00	7.00	10.00	5.00	8.00	6.00		and a second sec
0	LMC	TOTALIZER GALLONS LOW	1600721	1601441	1602712	1603209	1605516	1612457	1617774	1623885	1636647	1649130	1658357	1667576	1677149	1687602	1702142	1706144	1714831	1722278		
a	-6 (Secon	SALLONS	338	720	1,271	497	2,307	6,941	5,317	6,111	12,762	12.483	9.227	9,219	9,573	10,453	14,540	4,002	8,787	7,347		
u u	LMC-6 (Secondary Flows)	FLOW (gpd		144				694	1,063	ľ	Ì			1,317		;	1,454	800		1,225		
L	(G/A/D	4	6	4	80	21	44	68	78	116	114	84	84	87	35	63	51	70	78		
ſ		TOTALIZER		2116604					2130919					2180451					2205366	2207790		
×	LMC-7 (Seco	GALLONS FLOW (gpd)	6549	4394					6143		•					6887		3160	3804	2424		
T T	LMC-7 (Secondary Flows)	FLOW (gpd)	1,310						1,229											404		
M		GIAID	107	72	37	36	5	6	101	122	176	131	109	11	60	81	49	52	39	33		
a	LM	TOTALIZER	5,605,649	5,608,386		5,638,557		5,687,587	5,707,541	5,726,904			5,814,027		5,849,561		5,891,237	5,900,344	5,921,495	5,928,129		
R	LMC-8 (Secondary Flows)	TOTALIZER GALLONS LOW (9pd	7050	2737	21629	8542	20594	28436	19954	19363	31473	30371	25279			15982	25694	9107	21151	6634		
s	dary Flows	LOW (gpd	1,410	247		2,136		2.844		3,873		4,339	3,611	2,605	2,471		2,569	1,821	2,644	1,106		
н		G/A/D	243	94	339	368	507	490	688	668	775	748	623	449	426	394	443	314	456	191		

5/17/2018

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BETHLEHEM LANDFILL

LEACHATE DEMAND REPORT April 2018

<u>Location</u>	<u>Total gallons</u>
LMC-6	23,258
LMC-7	26,784
LMC-8	29,990
LMC-10	2,218,000
PS-1	176,619
PS-2	177,909
PS-3	127,592
Phase-IV	482,120

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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	2,218,000
Phase IV	482,120
TOTAL	2,700,120 gallons

Total Leachate

Leachate	106,771
Phase IV	482,120
TOTAL	588,891 gallons

LMC-10 Flow – Abatement System Flow = Leachate System Flow (gallons). Abatement System Flow = 2,111,229 gallons (Neptune Flow meters)

BETHLEHEM LANDFILL

GROUNDWATER DEMAND REPORT April 2018

Well No.	Water Level (avg. ft SWL*)	Flow (avg. GPM	<u>1) (Total gal)</u>
AB-1	72.0	7.4	363109
AB-2R	67.1	3.8	188417
AB-3	39.5	0.2	11180
AB-4	38.6	3.0	148363
AB-5	55.5	1.0	51183
AB-6	45.0	7.5	365347
AB-7	54.0	3.5	171772
AB-8	29.1	0.7	36298
AB-9	27.5	4.0	195217
AB-10	50.5	11.9	580343
TW-1	42.8	<0.1	0
Total Flow		2,111,229	gallons

*SWL above transducer set point * Per DEP approval well TW-1 was shut down September 14, 2009.