Bethlehem Landfill Committee Meeting Minutes

Date:	Thursday, May 16, 2019
Time:	1:00 p.m.
Location:	Lower Saucon Township
Attendance:	Hanover Engineering: Chris Taylor; Bethlehem Landfill: Dave Pannucci; Staff: Leslie Huhn &
	Diane Palik; Council Liaison: Priscilla deLeon (by phone); Absent: Neil Ortwein & Haz Hijazi

Mr. Pannucci reviewed the monthly tonnages for April:

	February	March	April
MSW	23,887.16	20,422.10	22,864.56
C&D	1,830.91	1,626.50	1,593.65
Residual (Total)	4,883.87	3,811.30	2,425.86
Asbestos	0.00	0.00	0.00
Sewage Sludge (90/10)	73.65	109.00	93.75
Out of State (Total)	18,969.23 (62%)	13,361.40 (51%)	12,890.02 (48%)
Recycle	5 (83%)	7 (86%)	7 (86%)

Mr. Pannucci said there was one Form U Submittal from Cera-Met on May 7, 2019. The second quarter Annual Groundwater Trend Analysis is scheduled for May 28th through the 30th by EarthRes Group. The Groundwater Monitoring Report was submitted today for 1Q2019. On May 22nd there was an inspection; and DEP was on-site today. Mrs. deLeon said Air Quality didn't show up? Mr. Pannucci said they haven't been there since October 2018. Mr. Taylor said did they do SEM? Mr. Pannucci said they monitored 20 penetration vertical wells on the southwest slope and on the top where the stockpiles are. They had two exceedances, and he should have a report on that tomorrow and they will follow up on that.

Mr. Pannucci said there were two host municipal inspections on May 2nd and May 16th. For Commercial Waste Vehicles, there were 2,666 in April with 49 overweight, 38 warnings, and 11 suspensions.

Mrs. deLeon said your out-of-state waste in February was 62%, now it's 48%, are you taking less out-of-state? Mr. Pannucci said yes, and it's driven by the way they are filling right now, so they push their internal waste from their transfer stations to another site.

Mr. Pannucci said BRE is shut down for the foreseeable future. Bethlehem Landfill continues to communicate with SCS Field Services with any routine or non-routine maintenance to maximize LFG production and minimize odors between plant and the flare. The April average flare flow was 2,830 SCFM. There was a shutdown on May 1st and then they had one yesterday, May 15th. The flare is running normally.

Mr. Taylor had some questions from the TCC meeting held on May 14th, which Mr. Pannucci answered and Mr. Taylor went over. (*Email questions and answers are attached to these minutes*). The first question, Mr. Taylor said his concerns were answered. Mrs. deLeon said how long of a period can you go if the flares are shut down. Mr. Pannucci said it all depends on what occurs. If there's a significant shutdown and it's going to be down for a long period of time, they can mobilize or rent a unit. He feels they have the proper parts and pieces in place to mitigate anything along those lines. Mrs. deLeon asked when Aria would be up and running. Mr. Pannucci said by the end of 2020 or beginning of 2021.

Mr. Taylor said question 6 on the email said they are not required to monitor in the leachate chambers. Mr. Pannucci said correct. He's sure what's causing around the LMC chamber, it's not a good seal and they not getting a good hit there. Mr. Taylor said you mentioned 5% compliance limit. Mr. Pannucci said it's the lower explosive limit. If they go above 5%, they have to do some corrective action to bring it down.

Mr. Taylor said the probe monitoring is done quarterly by SCS. Mr. Pannucci said yes. Mr. Taylor said the last one was February so you are due for one shortly. Mr. Taylor asked if Cody goes around with them? Mr. Pannucci said not typically, they report back to Bethlehem Landfill. Mr. Taylor asked if there is any way to get that reporting sooner than in the quarterly report as a stand-alone document? Mr. Pannucci said he can, he follows what is on the list, but there are more that Mr. Taylor wants to see, than what is on that list. He said Mr. Taylor should make a

list of what he wants to see and by when. Mrs. deLeon said isn't that Lauressa's list. Mr. Taylor said he'll provide Mr. Pannucci a list of what he wants to see, there's 17 different reports. Mrs. Huhn said are we getting these twice if you ask for it separately and then it comes in the quarterly report. Mr. Pannucci said it does come in the quarterly reports, so technically you are getting it twice. Mrs. Huhn said she just wants to make sure we are not paying for Mr. Taylor to review it twice as you are getting it separately from Mr. Pannucci and then it comes in the quarterly report. Mr. Taylor said understood. Mrs. deLeon said yes, you have to be mindful of that, but if there are issues with certain things, you need to see it. Mrs. Huhn said she understands if he has to see it before it comes in the quarterly report. Mr. Taylor said the way he does it, if he gets one piece of landfill stuff, and it would take him five minutes to look at, he puts it in a pile so he has a big enough pile that he has 50 minutes to look at as that's his minimum chargeable rate.

Mr. Taylor asked if there was any news on the regulatory review for the new flare. Mr. Pannucci said no updates. Mr. Taylor said they have bids out. Mr. Pannucci said yes, but wants to wait until the right time, it's all dictated on flows. They are into the next year until they start getting production from the new alignment.

Mr. Pannucci said the North Slope Road and swale have not needed repairs. Sedimentation traps and ponds need to be cleaned out. Mr. Taylor said you have a stormwater correction action plan and you have the silt sock and will get it placed in the next couple of weeks and the cleanouts have to wait to dry. Mr. Pannucci said correct.

Mr. Pannucci said the abatement system continues to operate and discharge to Bethlehem WWTP. Intermittent malfunctions of the well pumps and controls are repaired or replaced as needed. Control Systems 21 checked all the transducers. AB-8's transducer was replaced. Mr. Taylor said question no. 3 on the email was about AB-10 which used to pump 12 gallons a minute and in February it went from 12 to 0 and has remained there in March and April. Mr. Pannucci said they checked both the transducers and pump and both are working perfectly. After the email was sent, they were on-site and they double-checked AB-10 and it was working properly. It's all groundwater level driven.

Mr. Pannucci said leachate collection flow rates continue to be monitored and reported. Intermittent malfunctions of the well pumps and controls are repaired and replaced as needed. The cleaning out of LMC-7 is complete. General maintenance on PS-2 is complete. One primary pump in PS-2 was replaced. Mr. Taylor said there are near zero flows and detection flows in LMC-7 since January. You confirm your equipment is functioning properly. Mr. Pannucci said correct and it was reported there's no water in the secondary when they were in there doing the work and the transducers and pumps are working. Mr. Pannucci said he doesn't have an answer why it's zero.

Mr. Pannucci said there was no radiation monitoring hits. Phase IV construction waste operations have moved off of this area. The SE Realignment construction activities continue in Cell SE-1A and the construction of Cell SE-1B is underway.

Mr. Pannucci said there have been nine odor complaints in 2019, the latest being on April 4th and 13th. Mrs. deLeon had two odor complaints in March as there was someone working at her house and they smelled the garbage so she called DEP. Mr. Taylor reviewed the flows in all the pump stations.

Mr. Taylor said question no. 5 on the email regarding the Form 50, he's waiting for Rich Sichler to send the information and then Mr. Taylor will email it to Mr. Pannucci.

Mr. Taylor said the next meeting is on June 27, 2019 starting at 1:00 p.m. The meeting adjourned at 1:39 p.m.

Bethlehem Landfill Company LST Committee Meeting Notes May 2019 May 16, 2019 MAY 1 7 2019 LOWER SAUCON TOWNSHIP

Agenda Items

I. Waste Activities

Monthly Tonnages

	February	March	April
MSW	23,887.16	20,422.10	22,864.56
C&D	1,830.91	1,626.50	1,593.65
Residual (Total)	4,883.87	3,811.30	2,425.86
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Sewage Sludge (90/10)	73.65	109.00	93.75
Out of state (Total)	18,969.23 (62%)	13,361.40 (51%)	12,890.02 (48%)
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Recycle	5 (83%)	7 (86%)	7 (86%)
Form U Submittals	Wast	٩	Approval Date
Tomi o Suominais	<u>wast</u>		Approval Date
Cera-Met, LLC	Cerai	mic Wastes (414)	5/7/19
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II. Annual Groundwater Trend Analysis

Second quarter sampling event is scheduled for May 28th through the 30th by Earthres Group.

III. Correspondence / Reports

Groundwater Monitoring Report – 1st Quarter 2019

IV. Landfill Operations

Department of Environmental Protection Inspections

Scheduled for 5/22/19 M. Glogowski (Solid Waste)

- 1

5/2/19 5/16/19	J. Schray C. Taylor			
Commercial Wa	aste Vehicles 1 #Trucks	February 2394	March 2455	April 2666
War	rweight nings pensions	February 79 68 11	March 55 49 6	April 49 38 11

February – TT=44, RL=3, DT=32 March – TT=28, RL=3, FL=1, RO=3, DT=20 April – TT=42, RL=3, FL=1, DT=3

FL = front loader, RO = roll-off, TT=tractor trailer, RL = rear loader, DT = triaxial dump truck

Bethlehem Renewable Energy and Flare Operations and Gas Collection

BRE is shut down for the foreseeable future. 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 between plant and flare.

March Average Flare Flow = 2,830 SCFM

Host Municipal Inspection

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

Beginning of event shutdown Flare	Date: 5/1/19	Time: 9:14	
End of event startup	Date: 5/1/19	Time: 10:20	Duration: 1:06min

Documentation is on file.

North Slope Road and swale have not needed repairs. Sedimentation traps and ponds need to be 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. Control Systems 21 checked all the transducers. AB-8's transducer 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. The cleaning out of LMC-7 is complete. General maintenance on PS-2 is complete. One primary pump in PS-2 was replaced.

Radiation Monitoring

None

Phase IV Construction Activities

Waste operations have moved off of this area.

SE Realignment Construction Activities

Waste operations continue in Cell SE-1A. Construction of Cell SE-1B is underway.

Complaints received by Waste Connections

9 complaints received in 2019:

1/8/19 (Odor Complaint)
2/1/19 (Odor Complaint)
2/26/19 (Odor Complaint)
3/1/19 (Odor Complaint)
3/7/19 (Odor Complaint)
3/12/19 (Odor Complaint)
3/13/19 (Odor Complaint)
4/4/19 (Odor Complaint)
4/13/19 (Odor Complaint)

BETHLEHEM LANDFILL

LEACHATE DEMAND REPORT April 2019

Location	<u>Total gallons</u>
LMC-6	109,113
LMC-7	25,917
LMC-8	109,707
PS-4	426,483
LMC-10	1,718,547
PS-1	360,340
PS-2	235,878
PS-3	169,483
Phase-IV	765,701

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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.

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Total Discharge

LMC-10	1,718,547
Phase IV	765,701
TOTAL	2,484,248 gallons

Total Leachate

Leachate	671,220
Phase IV	765,701
TOTAL	1,436,921 gallons

LMC-10 Flow – Abatement System Flow = Leachate System Flow (gallons). Abatement System Flow = 1,047,327 gallons (Neptune Flow meters)

BETHLEHEM LANDFILL

GROUNDWATER DEMAND REPORT April 2019

Well No.	Water Level (avg. ft SWL*)	Flow (avg. GPN	<u>A) (Total gal)</u>
AB-1	85.9	7.0	320,993
AB-2	46.9	4.5	207,607
AB-3	68.5	0.2	9,900
AB-4	30.4	2.7	125,280
AB-5	40.9	0.7	30,961
AB-6	43.6	3.6	164,267
AB-7	41.9	3.4	158,280
AB-8	37.5	0.2	8,704
AB-9	76.1	0.4	19,725
AB-10	78.9	<0.1	0.0
TW-1	54.4	<0.1	0.0
Total Flow		1,047,327	gallons

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

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Display Display <t< th=""><th>8/13/2018</th><th>7.00</th><th>2016356</th><th>6,572</th><th>939</th><th>60</th><th>4211550</th><th>4992</th><th>713</th><th>58</th><th>7,397,325</th><th></th><th></th><th></th></t<>	8/13/2018	7.00	2016356	6,572	939	60	4211550	4992	713	58	7,397,325			
Display Display <t< th=""><th>8/20/2018</th><th>7.00</th><th>2031303</th><th>14,947</th><th>2,135</th><th>136</th><th>4216001</th><th>4451</th><th>636</th><th>52</th><th>7,406,036</th><th>8711</th><th>1,244</th><th></th></t<>	8/20/2018	7.00	2031303	14,947	2,135	136	4216001	4451	636	52	7,406,036	8711	1,244	
bill bill <th< th=""><th>8/31/2018</th><th>11.00</th><th>2041040</th><th>9,737</th><th>885</th><th>56</th><th>4222779</th><th>6778</th><th>616</th><th>51</th><th>7,417,472</th><th>11436</th><th></th><th>179</th></th<>	8/31/2018	11.00	2041040	9,737	885	56	4222779	6778	616	51	7,417,472	11436		179
3/12/2010 5.00 2075788 13,443 2,241 143 4232471 3130 522 43 7,434,616 5344 991 154 10/11/2018 13.00 2126610 50,822 3,909 249 4240280 7809 601 49 7,448,700 14084 1,083 187 10/11/2018 10.00 2146240 18,215 2,277 145 4246646 8384 838 69 7,459,592 10892 1,089 188 10/12/2018 7.00 2168193 5,753 822 52 2429031 4613 659 64 7,476,178 7655 1,094 189 11/8/2018 6.00 2235017 16,648 4,137 264 42670862 2945 736 60 7,503,485 8680 2,170 374 11/2/2018 6.00 233727 41,812 6,969 444 4282847 5499 917 75 7,536,600 18876 1,977 341	9/7/2018	7.00	2048903	7,863	1,123	72	4226212	3433	490	40	7,423,929		922	
Jirozylo Corona Corona <thcorona< th=""> <thcorona< th=""> <thcorona< <="" th=""><th>9/12/2018</th><th>5.00</th><th>2062345</th><th>13,442</th><th>2,688</th><th>171</th><th>4229341</th><th>3129</th><th></th><th>51</th><th></th><th></th><th></th><th></th></thcorona<></thcorona<></thcorona<>	9/12/2018	5.00	2062345	13,442	2,688	171	4229341	3129		51				
Initiality Initial	9/18/2018	6.00	2075788	13,443	2,241	143	4232471	. 3130	522	43				
Intraction International Internat International International <th>10/1/2018</th> <th>13.00</th> <th>2126610</th> <th>50,822</th> <th>3,909</th> <th></th> <th>4240280</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	10/1/2018	13.00	2126610	50,822	3,909		4240280							
10/28/2018 7.00 2168193 5,753 822 52 4259031 4613 659 54 7,476,178 7655 1,094 189 11/8/2018 13.00 2218469 50,276 3,867 246 4267917 8886 684 56 7,494,605 18427 1,417 244 11/12/2018 4.00 2235017 16,548 4,137 264 4270862 2945 736 60 7,503,285 8680 2,170 374 11/26/2018 6.00 2333727 41,812 6,969 444 4282847 5499 917 75 7,549,897 13837 1,977 341 12/12/018 7.00 2362413 38,686 5,527 352 4288737 5690 841 69 7,549,897 13837 1,977 341 12/12/2018 9.00 2378987 16,574 1,842 117 4295542 6805 756 62 7,562,467 12570 1,397 241 <th>10/11/2018</th> <th>10.00</th> <th></th>	10/11/2018	10.00												
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NonzoroLine <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>														
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2/14/20195.00252455311,9752,39515343485153656731607,662,69574981,5002592/28/20199.00254443519,8822,20914143558827367819677,674,910122151,3572343/11/201911.00255928114,8461,3508643637197837712587,689,920150101,3652353/18/20197.0025686359,3541,3368543676893970567467,695,59256728101403/29/201911.00259924620,6111,8741194380618129291,175967,716,139205471,8683224/4/20196.0025951435,8979836343893084269712587,733,23887691,4622524/10/20196.0026005975,4549095843893384269712587,733,23887691,4622524/17/20197.00262550024,9033,55822743940704732676557,747,020137821,9693394/24/20197.00264751522,0153,14520044006496579940777,759,015119951,7142954/24/20197.00264751522,0153,1452004400649657994077777,759,01511995<			-			C. C. C. C. C. C.								227
2/13/20100.00254443519,8822,20914143558827367819677,674,910122151,3572343/11/201911.00255928114,8461,3508643637197837712587,689,920150101,3652353/18/20197.0025686359,3541,3368543676893970567467,695,59256728101403/29/201911.00258924620,6111,8741194380618129291,175967,716,139205471,8683224/4/20196.0025951435,8979836343850694451742617,724,46983301,3882394/10/20196.0026005975,4549095843893384269712587,733,23887691,4622524/17/20197.00262550024,9033,55822743940704732676557,747,020137821,9693394/24/20197.00264751522,0153,14520044006496579940777,759,015119951,7142954/24/20197.00264751522,0153,14520044006496579940777,759,015119951,714295										1.1.1				259
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3/29/2019 11.00 2589246 20,611 1,874 119 4380618 12929 1,175 96 7,716,139 20547 1,868 322 4/4/2019 6.00 2595143 5,897 983 63 4385069 4451 742 61 7,724,469 8330 1,388 239 4/10/2019 6.00 2600597 5,454 909 58 4389338 4269 712 58 7,733,238 8769 1,462 252 4/17/2019 7.00 2625500 24,903 3,558 227 4394070 4732 676 55 7,747,020 13782 1,969 339 4/24/2019 7.00 2647515 22,015 3,145 200 4400649 6579 940 77 7,759,015 11995 1,714 295						85		3970	567	46	7,695,592	5672	810	140
4/4/2019 6.00 2595143 5,897 983 63 4385069 4451 742 61 7,724,469 8330 1,388 239 4/10/2019 6.00 2600597 5,454 909 58 4389338 4269 712 58 7,733,238 8769 1,462 252 4/17/2019 7.00 2625500 24,903 3,558 227 4394070 4732 676 55 7,747,020 13782 1,969 339 4/24/2019 7.00 2647515 22,015 3,145 200 4400649 6579 940 77 7,759,015 11995 1,714 295						119		12929	1,175	96		20547	1,868	322
4/10/2019 6.00 2600597 5,454 909 58 4389338 4269 712 58 7,733,238 8769 1,462 252 4/17/2019 7.00 2625500 24,903 3,558 227 4394070 4732 676 55 7,747,020 13782 1,969 339 4/24/2019 7.00 2647515 22,015 3,145 200 4400649 6579 940 77 7,759,015 11995 1,714 295						63		4451	1	61	7,724,469	8330	1,388	239
4/17/2019 7.00 2625500 24,903 3,558 227 4394070 4732 676 55 7,747,020 13782 1,969 339 4/24/2019 7.00 2647515 22,015 3,145 200 4400649 6579 940 77 7,759,015 11995 1,714 295					909	58	4389338	4269	712	58	7,733,238	8769	1,462	252
4/24/2019 7.00 2647515 22,015 3,145 200 4400649 6579 940 77 7,759,015 11995 1,714 295					3,558	227	4394070	4732	676	55	7,747,020	13782	1,969	339
		7.00		-	3,145	200	4400649	6579	940	77	7,759,015	11995	1,714	295
5/1/2018 / .UU 2004308 10,004 2,408 100 4400000 0641 09 7,709,940 10000 1,901 200	5/1/2019	7.00	2664369	16,854	2,408	153	4406533	5884	841	69	7,769,945	10930	1,561	269

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1024	TIME	- LMG	LMC-6 (Secondary Flows	dary Flows)				indary Flows		FIMI	LMC-8 (secondary Flows)	ary Flows	
	(days)	TOTALIZER GALLONSFLOW (gpd	GALLONSFI	LOW (gpd	G/A/D	TOTALIZER		FLOW (G/A/D		TOTALIZER GALLONS LOW (gpd	OW (gpd	G/A/D
1040 4/12/2018	10.00	1702142	14,540	1,454	93	2198402	5948		49		25694	2,569	443
1041 4/17/2018	5.00	1706144	4,002	800	51	2201562	3160	632	52		9107	1,821	314
1042 4/25/2018	8.00	1714931	8,787	1,098	70	2205366	3804		39	5,921,495	21151	2,644	456
043 5/1/2018	6.00	1722278	7,347	1,225	78	2207790	2424		33	5,928,129	6634	1,106	191
044 5/7/2018	6.00	1725886	3,608	601	38	2209485	1695	283	23		1450	242	42
45 5/14/2018	7.00	1728630	2,744	392	25	2212645	3160		37	5,931,093	1514	216	37
46 5/22/2018	8.00	1736010	7,380	923	59	2223681	11036	-	113		9476	1,185	204
047 5/30/2018	8.00		8,620	1,078	69	2228853	5172	647	53		19377	2,422	418
48 6/7/2018	8.00	1748135	3,505	438	28	2231875	3022		31	5,961,248	1302	163	28
049 6/11/2018	4.00	1749261	1,126	282	18	2232209	334		2	5,961,635	387	97	17
050 6/20/2018	9.00	1751966	2,705	301	19	2232305	96	11	F	5,962,208	573	64	11
051 6/29/2018	9.00		2,102	234	15	2232575	270		N	5,962,808	600	67	11
	6.00		1,405	234	15	2232654	29		F	5,963,266	458	76	13
053 7/9/2018	4.00		872	218	14	2232654	0	0	0	5,963,606	340	85	15
54 7/16/2018	7.00	1759035	2,690	384	24	2232707	53	80	L	5,964,367	761	109	19
55 7/23/2018	7.00			973	62		112	16	Part of the second	5,970,316	5949	850	147
56 8/1/2018	00.6		25.174	2.797	178	2232883	64	7	F	6.008.724	38408	4,268	736
57 8/6/2018	5.00		23.232	4.646	296		96	19	N	6,031,285	22561	4,512	778
058 8/13/2018	7.00			1.980	126		0	0	0	6,051,372	20087	2,870	495
59 8/20/2018	7.00	8	13,410	1,916	122		53	8	F	6,094,975	43603	6,229	1,074
8/31/2018	11.00		12.048	1,095	70	2234334	1303	118	10	6,128,175	33200	3,018	520
51 9/7/2018	7.00	1857973	4,400	629	40	2234334	0	0	0	6,136,651	8476	1,211	209
32 9/12/2018	5.00	1862522	4,549	910	58	2234334	0	0	0	6,140,059	3408	682	118
53 9/18/2018	6.00	· 1867071	4,549	758	48	2234334	0	0	0	6,143,458	3399	567	98
34 10/1/2018	13.00		2,933	226	14	2234334	0	0	0	6,177,029	33571	2,582	445
55 10/11/2018	10.00		0	0	0	2234334	0	0	0	6,178,945	1916	192	SE
56 10/19/2018	8.00			0	0	2234353	19	N	0	6,217,640	38695	4,837	834
57 10/26/2018	7.00			0	0	2234353	0	0		6,222,926	5286	755	130
11/8/2018	13.00		0	0	0	2234364	11			6,256,016	33090	2,545	439
11/12/2018	4.00			0	0	2234364		0		6,271,294	8/291	3,820	659
70 11/20/2018	8.00			0	0	2234364		0		6,305,391	34097	4,262	CE/
71 11/26/2018	6.00		0	0	0	2234364		0		6,330,351	24960	4,160	11/
2 12/3/2018	7.00		Ű	6	1	2234364	0	0	0	6,355,909	25558	3,651	630
12/12/2018	9.00		S	-	0	2234364	0	0	0	6,375,901	19992	2,221	383
74 12/17/2018	5.00		0	0	0	2234364	0	0	0	6,386,162	10261	2,052	354
12/27/2018	10.00		8,606	861	55	2234364	0	0	0	6,415,039	28877	2,888	498
1/3/2019	7.00		6,259	894	57	2234364	0	0	0	6,433,524	18485	2,641	455
077 1/8/2019	5.00		6,184	1,237	62	2234364	0	0	0	6,450,342	16818	3,364	580
78 1/14/2019	6.00			928	59	2234364	0	0	0	6,462,673	12331	2,055	354
79 1/21/2019	7.00	1901893		743	47	2234419	55	8	-	6,476,106	13433	1,919	331
080 1/31/2019	10.00		8,279	828	53	2234419	0	0	0	6,502,398	26292	2,629	453
081 2/5/2019	5.00	1914165	3,993	799	51	2234419	0	0	0	6,508,143	5745	1,149	198
082 2/14/2019	9.00	1922540	8,375	931	59	2234419	0	0	0	6,526,208	18065	2,007	346
	5.00		4,235	847	54	2234419	0	0	0	6,539,884	13676	2,735	472
084 2/28/2019	9.00	1935312	8,537	949	60	2234419	0	0	0	6,564,906	25022	2,780	479
3/11/2019	11.00	1943491	8,179	744	47	2234420	-	0	0	6,589,354	24448	2,223	383
	7.00		3,868	553	35	2234420	0	0	0	6,599,117	9763	1,395	240
087 3/29/2019	11.00	44		1,084	69	2234420	0	0	0	6,628,871	29754	2,705	466
088 4/4/2019	6.00	1967743		1,410	90	2234420	0	0	0	6,635,533	6662	1,110	191
	6.00		4,600	767	49		2	-	0	6,639,477	3944	657	113
	7.00		7,880	1,126	72			0			11360	1,623	280
	7.00		5,443	778	50		0	0	0	6,670,374	19537	2,791	481
10000	1 11 1	370001		1087	1143	USVV5CC	4	-				and the second sec	

5/15/2019

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	<u> </u>	В	C	D	<u>E</u>	F	н	1		K	<u>M</u>	N	0
866		TIME			Secondary Flo		+	hase IV	/ PS-1 (Prima		()	a la a la avr	sump
867		(days)	TOTALIZER	GALLONS	FLOW (gpd)	g/ac/day			Totalizer	gallons	flow(gpd)	g/ac/day	inches
882	4/12/2018	10	312355	1429	143	5			48563817	48426	4843	186	f
883	4/17/2018	5	312358	3	1	0			48589965	26148	5230	201	
884	4/25/2018	8	313666	1308	164	6			48632494	42529	5316		22.9"
885	5/1/2018	6	313670	4		0			48668382	35888	5981		21.9"
886	5/7/2018	6	314364	694	116	4			48699782	31400	5233	201	
887	5/14/2018	7	314639	275		2			48737142	37360	5337		18.7*
888	5/22/2018	8	315273	634	79	3	ļ		48785701	48559	6070	233	
889	5/30/2018	8	316171	898	112	4			48840699	54998	6875	264	
890	6/7/2018		316474	303	38	1			48890927	50228	6279	241	
891	6/11/2018	4	316480	6		0			48915631	24704	6176	** ** **************	22.9"
892	6/20/2018	13	316484	10		0			48971353	80426	6187	238	
893	6/29/2018	9	316495	11	1	0			49025903	54550	6061		13.6*
894	7/5/2018	6	316498	3		0			49059729	33826	5638		20.2*
895	7/9/2018	4	316502	4		0			49082662	22933	5733	221	
896	7/16/2018	7	316504	2					49120934	38272	5467		18.4
897	7/23/2018	7	316507	3					49161305	40371	5767		15.4"
898	8/1/2018	9	316545	38	4	0			49205956		4961	191	
899	8/6/2018	5	316633	88		1			49231931	25975	5195		18.9"
900	8/13/2018	7	316776	143	20	1			49268430		5214		21.5
901	8/20/2018	7	316944	168	24	1			49305805		5339	205	
902	8/31/2018	11	317122	178		1			49369414		5783		23.4*
903	9/7/2018	7	317301	179		1			49415154		6534		18.7*
904	9/12/2018	5	317403	102	20			<u> </u>	49455655		8100		22.1"
905	9/18/2018	6	317557	154	26				49496755		<u>6850</u> 5272		21.2"
906	10/1/2018	13	317871	314	24	1			49565289				22.1*
907	10/11/2018	10	318122	251	25	1	ļ		49623186		5790	<u>223</u> 199	21.2" 23.4"
908	10/19/2018	8	318345	223			<u> </u>		49664658	÷	5184 5955		17.4"
909	10/26/2018	7	318500	155		1			49706343		5955 6047		
910	11/8/2018	13	318736	236		1	ļ		49784960	f	5108		14.0" 17.4"
911	11/12/2018	4	318746	10			<u> </u>		49805391	20431 54753	6844		17.4
912	11/20/2018	8	319503	757		4			49860144		195223		20.4
913	11/26/2018	6	319996	493					51031479		195223	407	
914	12/3/2018	7	325089	5093		28			51105543		71302	2742	
915	12/12/2018	9	329426	4337		19	· · · · ·		51747262		11040		21,9*
916	12/17/2018	5	331435	2009		15			51802463		239519		23.6"
917	12/27/2018	10	339877	8442		32			54197652		239519		14.9*
918	1/3/2019	7	343848	3971	567	22 25		ļ	54208523		1000		18.9*
919	1/8/2019	5	347137	3289			<u> </u>	<u> </u>	54208523		4172		20.4"
920	1/14/2019	6	349233	2096		13			54233557		5304		20.4
921	1/21/2019	7	352210	2977		16			54270683		5360		15.3"
922	1/31/2019	10	357979	5769		22			54324279		2040		20.2
923	2/5/2019	5	360083	2104		30			54334479		5902		14.7"
924	2/14/2019	9	367044	6961	773	55			54387599		7459		20.2"
925	2/19/2019	5	374215	7171					54424895		14463		16,4"
926	2/28/2019	9	383870	9655		<u>41</u> 53	 		54555066		178987		22.3
927	3/11/2019	11	398975	15105		25	 		56523918 56524849		133		22.3
928	3/18/2019	7	403499	4524			1				76047		23.4"
929	3/29/2019	11	414058	10559		37	<u> </u>		57361365		23970		23.4
930	4/4/2019	6	416236	2178		14			57505186		23970		17.2
931	4/10/2019	6	417759	1523		10	 	 	57571289		6268		23.2"
932	4/17/2019	7	421560	3801	543	21	<u> </u>		57615162				
933	4/24/2019	7	426076 427709	4516 1633		25 9		Į	57665813 57708054		7236		14.4"

	Q	8	S	Т	U	V	W	X	Y	Z	AA	AB	AC
866	TIME	Phas	e IV PS-2 (S	Secondary	Flows)			Phase	IV PS-2 (Pri	mary)			sump
867	(days)	OTALIZE	GALLONS	FLOW (gpd)	g/ac/day				Totalizer	gallons	flow(gpd)	g/ac/day	Inches
882	4/12/2018	10	7138	0	0	0.0			19408065	53932	5393	509	32.9*
883	4/17/2018	5	7138	0	0	0.0			19433177	25112	5022	474	29.9"
884	4/25/2018	8	7138	0	0	0.0			19475666	42489	5311	501	31,4"
885	5/1/2018	6	7138	0	0	0.0			19505950	30284	5047	476	30.7*
886	5/7/2018	6	7138	0	0	0.0			19532651	26701	4450	420	30.2"
887	5/14/2018	7	7138	0	0	0.0			19563115	30464	4352		31.6*
888	5/22/2018	8	7138	0	0	0.0			19600835	37720	4715	445	29.7*
889	5/30/2018	8	7138	0	0	0.0			19642231	41396	5175	488	28.8*
890	6/7/2018	8	7138	0	0	0.0			19678291	36060	4508		33.7*
891	6/11/2018	4	7138	0	0				19695505	17214	4304		30.5*
892	6/20/2018	13	7138	0	0				19733233	54942	4226		33.9"
893	6/29/2018	9	7138	0	0	0.0			19770463	37230	4137		31.4*
894	7/5/2018	6	7138	0	0				19794854	24391	4065		33.1*
895	7/9/2018	4	7138	0	0	0.0			19810534	15680	3920		34.6*
896	7/16/2018	7	7138	.0	0				19829442	18908	2701		32.0*
897	7/23/2018	7	7138	0	0	0.0		ļ	19849101	19659	2808		33.1
898	8/1/2018	9	7138	0	0	0.0		[]	19867442	18341	2038		29.3"
899	8/6/2018	5	7138	0	0				19871321	3879	776		28.0*
900	8/13/2018	7	7138		0				19878945	7624	1089		32.9*
901	8/20/2018	7	7138		0				19880023	1078	154		32.2
902	8/31/2018	11	7138		0				19891899	11876	1080		33,5"
903	9/7/2018	7	7138		0				19927242	35343	5049		34.5*
904	9/12/2018	5	7138	·····	0				19957019	29777	5955		30.7*
905	9/18/2018	6	7138		0				19986895	29876	4979 5757		31.8"
906	10/1/2018	13	7138		0				20061731	74836			31.2"
907	10/11/2018	10	7138		0				20121467	59736	5974		33.3*
908	10/19/2018	8	7138		0				20167014	45547	5693 5376		28.2" 34.1"
909	10/26/2018	7	7138	·	0				20204646	37632	5376		33.3"
910	11/8/2018	13	7138		0				20279418 20304457	74772 25039	6260		28.2
911	11/12/2018	4	7138	1	0			<u> </u>	20304457 20358630	54173	6772		28.4
912	11/20/2018	8	7138 7138	· · · · · · · · · · · · · · · · · · ·	0				20358630 20405933	47303	7884		29.3
913	11/26/2018				0				20403933	55325	7904		31.4
914	12/3/2018	9	7138 7138		0				20461258 20522082	60824	6758		33.7*
915 916	12/12/2018	9 5	7138		0				20522082	27953	5591		30.3"
916	12/17/2018	10	7138		0				20620324	70289	7029		32.9"
917 918	1/3/2019	7	7138		0			<u> </u>	20620524	40282	5755		29.5"
918	1/8/2019	5	7138		0				20700486	39880	7976		33.3"
920	1/14/2019	6	7138	t	0			<u> </u>	20740910	40424	6737		30.3"
920 921	1/21/2019	7	7138		0			1	20740310	39375	5625		34.1°
922	1/31/2019	10	7138		0				20842598	62313	6231		28.5"
922	2/5/2019	5	7138		0				20871208	28610			30.2*
924	2/14/2019	9	7138		0				20923558	52350			31.4"
924	2/19/2019	5	7138		0				20952717	29159			27.8
926	2/19/2019	9	7138	£	0				21007697	54980			26.9"
927	3/11/2019	11	7138		Ő		<u> </u>		21067002	59305	5391		31.4"
928	3/18/2019	7	7138		0				21091793	24791	3542		30.7"
929	3/29/2019	11	7138		0		İ		21163357	71564	6506		34.6
930	4/4/2019	6			Ő			1	21196738		5564		24.5"
931	4/10/2019	6			0			1	21261533	64795	10799		29.7*
932	4/17/2019	7			0				21299432		5414		27.1"
933	4/24/2019	7	7138		Ő				21341263	41831	5976		30.7*
934	5/1/2019				0		1	1	21399235		8282		29.9"

	AE	AF Dheee IV	AG	AH	AI	AJ	AK	AL Dhace W	AM DC 2 (Drim	AN	AO.	AP	AQ
866			PS-3 (Se		n			Phase IV	PS-3 (Prim	F	00		sump
867	Date	days	totalizer	gallon	flow(gpd)	g/ac/day		·	totalizer	gallons		· · · · · · · · · · · · · · · · · · ·	Inche
882	4/12/2018	10	42631	0	0	0			8918259	40467	4047	975	24.7*
883	4/17/2018	5	42631	0	0	0			8935021	16762	3352	<u> </u>	25.7
884	4/25/2018	8	42632	1	0	0		<u> </u>	8967304	32283	4035		25.7*
885	5/1/2018	6	42632	0	0	0		·····	8986273	18969	3162		25.5
886	5/7/2018	6	42632	0	0	0			9002559	16286	2714		26.8
887	5/14/2018	7	42632	0	0	0		· · · · · · · · · · · · · · · · · · ·	9020498	17939	2563		24.9*
888	5/22/2018	8	42632	0	0	0			9047728	27230	3404		25.9
889	5/30/2018	8	42665	33	4	0			9086032	38304	4788		27.4*
890	6/7/2018	8	42665	0	0	0		+	9110208	24176	3022		
891	6/11/2018	4	42665	0		0			9120377	10169	2542		26.2*
892	6/20/2018	13	42665	0	0	0		<u> </u>	9142393	32185	2476		26.8*
893	6/29/2018	9	42665	0	0	0		<u> </u>	9162659	20266	2252		23.6
894	7/5/2018	6	42665	0	0	0			9176312	13653	2276		23.6*
895	7/9/2018	4	42665	0	0			 	9185141	8829	2207		27.9*
896	7/16/2018		42665	0	0	0			9199913	14772	2110 2416		26.8*
897	7/23/2018	7 9	42666	1 0	0	0			9216822	16909	4760		25.1° 21,1°
898	8/1/2018		42666	0	0	0			9259666	42844			
899	8/6/2018	5	42666	0	0	0		 	9284508	24842 37909	<u>4968</u> 5416		24.9" 24.9"
900	8/13/2018	7	42666	0	0	0		<u> </u>	9322417		4534		24.9
901	8/20/2018	7	42666	23	2	0		+	9354156	31739	3848		25.7
902	8/31/2018	<u>11</u> 7	42689	23	2	0			9396489	42333	2852		
903	9/7/2018		42689	0	0	0			9416454	19965 17899	3580		26.8" 24.8"
904	9/12/2018	5	42689 42689	0	0	0			9434353 9452352	17899	3000		24.6 25.7*
905	9/18/2018	ہ 13	42689	0	0	0		<u> </u>	9452352	36512	2809		25.7 66.9"
906 907	10/1/2018 10/11/2018	10	42689	0	0	0		<u> </u>	9490856	1992	199		67.8"
907	10/19/2018	8	42089	92	12	1		1	9490856	4012	502		63.1*
909	10/26/2018	7	42781	36	5	0			9500655	5787	827		60.5
910	11/8/2018	13	42817	0	0	0		1	9596127	95472	7344		24.5"
910	11/8/2018	4	42817	429	107	10			9627326	95472 31199	7800	1770	
912	11/20/2018		43246	42.5	0	0			9692363	65037	8130		17.7
913	11/26/2018	6		0	0	0		1	9747387	55024	9171		21.5"
914	12/3/2018	7	43246	20	3	0			9811123	63736	9105	2194	
915	12/12/2018	9		20	0	0		1	9869983	58860	6540		26.6
916	12/17/2018	5	43266	0	0	0			9893769	23786	4757		27.6*
917	12/27/2018	10	43266	0	0	0			9968493	74724	7472		23.2°
917 918	1/3/2019	7	43266	0	0	0			10015193	46700	6671		20.2*
919	1/8/2019	5	43266	0	0	0			10063124	40700	9586		18.5
920	1/14/2019	6	43266	0	0	0		1	10105956	47931	7139		26.2
920	1/21/2019	7	43266	0	0	0		1	10142879	36923	5275		21.5"
922	1/31/2019	10	43266	0	0	0		1	10216913	74034	7403		20.0°
922	2/5/2019	5	43266	0	0	0		1	10250043	33130	6626		18.7"
924	2/14/2019	9	43266	0	0	0		1	10303601	53558	5951		23.2
925	2/19/2019	5	43266	0	0	0		1	10303001	41070	8214		16.4
925	2/28/2019	9	43200	283	31	3		1	10429876	85205	9467		22.3
927	3/11/2019	11	43549	0	0	0		1	10502158	72282	6571		16.4
928	3/18/2019	7	43549	0	0	0		1	10530183	28025	4004		21.5"
929	3/29/2019	, 11	43718	169	15	1			10643865	113682	10335		27.4"
930	4/4/2019	6		0	0	0		1	10685160	41295	6883		26.4
931	4/10/2019	· 6		0	0	0		1	10715075	29915	4986	1201	17*
932	4/17/2019	7	43718	0	0	0		1	10753687	38612	5516	1329	26.2"
933	4/17/2019	7	43718	0	0	0		1	10799919	46232	6605		23.0"
934	5/1/2019	7	43718	0	0	0		1	10813348	13429	1918		17.9*

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1	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD
865			PS-4 (Se	condary									
866	Date	days	totalizer	gallon	flow(gpd)	g/ac/day		Phase IV	PS-4 (Pri	mary)			sump
867								T	totalizer	gallons	flow(gpd)	g/ac/daqy	inches
882													
883													
884													
885													
886													
887													
888													
889													
890													
891													
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902			· · ·										
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904													
905								··· ·· ·					
906													
907								1					
908													
909									0	0	#DIV/0!	#DIV/0!	0"
910			0	0	0	0			0	0	#DIV/0!	#DIV/0!	0"
911	11/12/2018	0	147	147	0	0			207023	207023		#DIV/0!	28.3*
912	11/20/2018	8	147	0	0	0			575433	368410	46051	11097	31.4
913	11/26/2018	6	147	0	0	0			880527	305094	50849	12253	21.5
914	12/3/2018	7	147	0	0	0			1158031	277504	39643		18.5"
915	12/12/2018	9	147	0		0			1158032	1	0		18.5
916	12/17/2018	5	147	0		0			1158033	1	0		18.5"
917	12/27/2018	10	404	257	26	2			1560142	402109	40211		19.3°
918	1/3/2019	7	404	0	0	0			1560143	1	0	0	19.3"
919	1/8/2019	5	483	79	16	1			1856842	296699	59340	14299	22.1"
920	1/14/2019	6	586	103	17	2			1875514	18672	3112	750	15"
921	1/21/2019	7	586	0	0	0			2019879	144365	20624	4970	14.1"
922	1/31/2019	10	941	355	36	3			2269621	249742	24974	6018	22.5"
923	2/5/2019	5	941	0	. 0	0			2286229	16608	3322	800	21.0"
924	2/14/2019	9	941	0	0	0			2352286	66057	7340	1769	28.4"
925	2/19/2019	5	941	0	0	0			2413009	60723	12145	2926	20.4"
926	2/28/2019	9	941	0	0	0			2515643	102634	11404	2748	21.8"
927	3/11/2019	11	941	0	0	0			2598596	82953	7541	1817	23.6"
928	3/18/2019	7	941	0		Ő			2638297	39701	5672		27.2"
929	3/29/2019	11	. 941	0		0			2781453	143156	13014		28.4"
930	4/4/2019	6		469	78	7			2813906	32453	5409		25.8"
931	4/10/2019	6	1410	0	0	0		<u> </u>	2825936	12030	2005		23.0"
932	4/17/2019	7	1876	466		6		1	2960696	134760	19251		20.3"
933	4/24/2019	7	2347	471	67	6			3115337	154641	22092		20.5
934	5/1/2019	7		0		ŏ		1	3206530	91193	13028	3139	

Diane Palik

Subject:

FW: Issues raised at TCC meeting

Subject: Issues raised at TCC meeting

Bob and Dave,

I have included Astor, though I believe he is out of town now.

I'm writing to make you aware of the following issues that were raised at the Technical Consultant Committee meeting today. Please be prepared to formally address them by the monthly committee meeting Thursday. Or you're free to email back sooner if you'd like.

- 1. What happens to landfill gas if the flare goes off-line, now that there is no backup (with BRE retired)? Are valves or other mechanisms present to prevent escape to the atmosphere? Do these close automatically? Do you have a set list of procedures to follow in the event of a prolonged flare outage? Yes, the flare has automatic shutoff valves that close immediately during a flare shutdown. The flare is also designed to automatically restart and sends out alerts so we get notified when it does shut down. We developed a Startup, Shutdown and Malfunction (SSM) plan that we follow when the flare goes off-line, and we maintain an inventory of key spare parts so flare repairs can be made quickly. In the case of a prolonged outage, the most likely cause of that would be an extended power outage from say a hurricane, and in that situation, we could mobilize a rental generator to restore temporary power.
- The maintenance of LMC-7 has been planned since the end of last year. When will that take place? This was
 completed on May 6th. LMC-7 secondary is showing no flow because there is no flow to pump. SCS Field Services
 and Kline's have confirmed that everything in LMC-7 is working properly.
- 3. Abatement Well AB-10 went from a pumpage of about 12 gallons per minute as of the February report to 0 gpm in March and remained at 0 gpm in April. Your reporting states that all wells are functioning normally. This was the highest-producing abatement well. Have you diagnosed and fixed the problem? If so, what was wrong? If not, when will this work be completed? We checked both the transducer and the pump. Both are working properly.
- 4. According to my records, PA DEP Air Quality has not conducted a full inspection with SEM since October 2018. Can you please confirm that, or let me know if they've been out recently, and the result. Correct. Keep in mind that Bethlehem Landfill conducts quarterly SEM which is done through a 3rd party, SCS Field Services. This is not going unchecked.
- 5. Form 50 still seems to be submitted to PA DEP incomplete. Could you please be more specific or possibly show me what you are referring to at the meeting tomorrow? I am looking at the Q1 Ground Water Monitoring Report for 2019, which I will bring with me tomorrow for LST, and everything looks to be completed on the Form 50.
- 6. During sampling by SCS on Feb 11, methane was detected in 2 gas migration probes. The first was LFG-3A, which had a detection the prior quarter as well. The second was LMC-3, which has had several detections previously. Have any measures been taken to address this situation? Bethlehem Landfill is not required to monitor the LMC chambers, but we have done this in the past as a BMP for informational purposes. Also, LFG-3A's readings were both below the 5% compliance limit. Therefore, no action has been taken on either of these locations.

Thank you for your attention to these issues.

Chris.