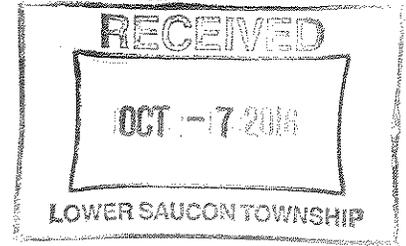




# pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BETHLEHEM DISTRICT OFFICE



October 5, 2016

Lower Saucon Township Municipal Building  
3700 Old Philadelphia Pike  
Bethlehem, Pennsylvania 18015

Attention: Ms. Leslie Huhn, Township Manager

Re: IESI PA Bethlehem Landfill  
I.D. #100020  
Lower Saucon Township, Northampton County

Dear Ms. Huhn:

Please find enclosed a copy of the report of an inspection performed by this District Office at the IESI PA Bethlehem Landfill, located in your municipality. A copy of the inspection report is being provided to you pursuant to the provisions of Section 1101(a)(1) of Act 101, the Municipal Waste Planning, Recycling and Waste Reduction Act of 1988.

Sincerely,

Amy E. Faulch  
Solid Waste Specialist  
Waste Management Program

Enclosure

S

ROUTING

- Council
- Manager
- Asst. Mgr.
- Zoning
- Finance
- Police
- P. Works
- P/C
- P & R
- EAC
- Engineer
- Solicitor
- Planner
- Landfill
- EMC
- Other

4530 Bath Pike | Bethlehem, Pennsylvania 18017-9074

610.861.2070 | Fax 610.861.2072



COMMONWEALTH OF PENNSYLVANIA  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 BUREAU OF WASTE MANAGEMENT  
 P.O. BOX 8472, HARRISBURG, PA 17105-8472

Inspection ID 2521253

Field Code NA

## INSPECTION REPORT – MUNICIPAL WASTE LANDFILL

Site I.D. 255983  
 Site Name IESI PA BETHLEHEM LANDFILL  
 Address 2335 APPLEBUTTER RD  
BETHLEHEM, PA 18015  
 Municipality 8924 LOWER SAUCON  
 Responsible Official Don Hallock  
 Person Interviewed Don Hallock  
 Inspector Amy E. Faulch  
 eFACTS ID # PF 268729 SF 266826

Telephone # 610-317-3200  
 Operator Name IESI PA BETHLEHEM LANDFILL  
 Address 2335 APPLEBUTTER RD  
BETHLEHEM, PA 18015  
 County NORTHAMPTON  
 Title District Manager  
 Title Dist. Manager  
 Title Solid Waste Specialist

Comment: Additional efacts #2521252

Inspection Date: 09/22/2016 Type: Routine Complete Results: NOVIO Resolved: / /  
 Permit Expiration Date: 4/17/2023 Days/Week Operated: 6 Max. Daily Volume: 1800

1 - No Violation Observed    2 - Not-Applicable    3 - Not-Determined    4 - Non-Compliance

STATUS				REVISION	COMMENTS ATTACHED	CHAPTER CITATION	LINE ITEM
1	2	3	4				
<b>GENERAL PROVISIONS</b>							
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Required insurance in effect (expiration date <u>09/30/2016</u> )	<input type="checkbox"/>	271.371	1
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operation in accordance with approved plans and permit.	<input type="checkbox"/>	273.201(c)(2)	2
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operation within permit boundaries (vertical and horizontal).	<input type="checkbox"/>	273.201(c)(2)	3
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Disposal Timing and sequence as per Section 273.112(1).	<input type="checkbox"/>	273.201(c)(2)	4
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No unapproved wastes or liquids.	<input type="checkbox"/>	273.201(d)-(m)	5
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Isolation distances are adhered to.	<input type="checkbox"/>	273.202(a)	6
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Facilities certification requirements followed.	<input type="checkbox"/>	273.203(a), (b)	7
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Written Department approval of new construction prior to waste disposal.	<input type="checkbox"/>	273.203(c)	8
<b>DAILY OPERATIONS</b>							
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Proper signs posted.	<input type="checkbox"/>	273.211(a)	9
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Site perimeter clearly marked and grid coordinate system in use.	<input type="checkbox"/>	273.311(b)-(d)	10
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Proper barriers installed around site and access controlled when attendant not present.	<input type="checkbox"/>	273.212(a)-(i)	11
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Access roads maintained and negotiable by collection vehicles.	<input type="checkbox"/>	273.213(a)-(i)	12
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Approved means of measuring and inspected waste utilized.	<input checked="" type="checkbox"/>	273.214(a), (b)	13
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Adequate equipment on-site and stand-by equipment available.	<input type="checkbox"/>	273.215(a), (b)	14
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vehicles directed promptly to unloading area and promptly unloaded.	<input type="checkbox"/>	273.216(a), (b)	15
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Solid waste spread and compacted as approved by Department as part of permit.	<input type="checkbox"/>	273.216(c)	16
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Operator implements fugitive air contaminant control/measures and prevents and controls air pollution including no exceeding of ambient air quality standards, no open burning, and minimizing generation of fugitive dust emissions from facility.	<input type="checkbox"/>	273.217(a)	17
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Operator complies with Air Quality Plan approval and Air quality Operating Permit.	<input type="checkbox"/>	273.217(b)	18

Site Name IESI PA BETHLEHEM LANDFILL  
 ID Number 100020  
 Date 09/22/16

**INSPECTION REPORT – MUNICIPAL WASTE LANDFILL (Cont'd)**

1 - No Violation Observed 2 - Not-Applicable 3 - Not-Determined 4 - Non-Compliance

STATUS				GENERAL REQUIREMENTS	COMMENTS ATTACHED	CHAPTER CITATION	LINE ITEM
1	2	3	4				
<b>DAILY OPERATIONS (Cont'd)</b>							
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator does not cause or allow attraction, harborage, or breeding of vector.	<input type="checkbox"/>	273.218(a)	19
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator implements nuisance minimization and control plan.	<input checked="" type="checkbox"/>	273.218(b)(1)	20
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator performs regular, frequent, and comprehensive site inspections to reduce potential for offsite odors.	<input checked="" type="checkbox"/>	273.218(b)(2)	21
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator promptly addresses and correct problems and deficiencies discovered during inspections.	<input checked="" type="checkbox"/>	273.218(b)(3)	22
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator implements nuisance minimization and control plan to minimize and control other conditions harmful to the environment or public health, or which create safety hazards, odors, dirt, noise, unsightliness and other public nuisances.	<input checked="" type="checkbox"/>	273.218(c)	23
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator does not receive solid waste at a landfill in excess of the maximum or average daily volume approved in the permit.	<input checked="" type="checkbox"/>	273.221(a)	24
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator implements radiation protection action plan.	<input type="checkbox"/>	273.223(a)	25
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator monitors incoming waste in accordance with Department's guidance or in a manner at least as protective of the environment, facility staff and public health and safety.	<input checked="" type="checkbox"/>	273.223(b)	26
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Radiation detector elements shall be as close as practical to wasteload and in appropriate geometry to monitor the waste.	<input checked="" type="checkbox"/>	273.223(c)	27
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator has portable radiation monitors capable of determining the dose rate and presence of contamination of a vehicle that has caused an alarm. Upon exceedance of alarm level, a radiological survey of the vehicle is performed.	<input checked="" type="checkbox"/>	273.223(d)	28
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator notifies Department immediately and isolates vehicle when radiation dose rates are exceeded.	<input checked="" type="checkbox"/>	273.223(e)	29
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Monitoring equipment is calibrated at frequency specified by manufacturer, but not less than once a year.	<input checked="" type="checkbox"/>	273.223(f)	30
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If radioactive material is detected, vehicle containing material shall not leave facility without written Department approval and an authorized federal Department of Transportation exemption form.	<input checked="" type="checkbox"/>	273.223(g)	31
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Uniform cover of the approved daily cover material is placed on exposed solid waste at the end of each working day or at the end of every 24 hours, whichever interval is less.	<input type="checkbox"/>	273.232(a)	32
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If intermediate cover requires revegetation, it is established within 30 days.	<input type="checkbox"/>	273.233(e)	33
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Slopes constructed during daily landfilling and intermediate cover activities may not exceed 50 percent.	<input type="checkbox"/>	273.233(f)	34
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator does not cause or allow waste pollution within or outside the site from operation of the facility.	<input type="checkbox"/>	273.241(a)-(c)	35
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator has restored or replaced adversely affected water supply with an alternative source of like quantity and quality.	<input type="checkbox"/>	273.245(a)	36
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Temporary water supply is provided within 48 hours.	<input type="checkbox"/>	273.245(b)	37
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Permanent water supply is provided within 90 days.	<input type="checkbox"/>	273.245(c)	38
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No waste 15 feet of inside top of the lined perimeter berm.	<input type="checkbox"/>	273.252(e)	39

**INSPECTION REPORT – MUNICIPAL WASTE LANDFILL (Cont'd)**

1 - No Violation Observed 2 - Not-Applicable 3 - Not-Determined 4 - Non-Compliance

STATUS				GENERAL REQUIREMENTS	COMMENTS ATTACHED	CHAPTER CITATION	LINE ITEM
1	2	3	4				
<b>DAILY OPERATIONS (Continued)</b>							
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lined perimeter berm 4 ft. high constructed and maintained along edge of the lined disposal area.	<input type="checkbox"/>	273.252(f)	40
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Edge of liner clearly marked.	<input type="checkbox"/>	273.252(g)	41
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Alternate leachate recirculation method may be used if approved if one of the liner systems is a composite liner.	<input type="checkbox"/>	273.274(b)	42
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Underground pipes used to transport leachate to leachate storage impoundments or tanks equipped with secondary containment or comply with 245.445.	<input type="checkbox"/>	273.275(g)	43
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator isolates coal seams, coal outcrops and coal refuse from waste deposits to prevent combustion of waste and damage to liner.	<input type="checkbox"/>	273.291(a)	44
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mine openings within site sealed as approved by Department.	<input type="checkbox"/>	273.291(b)	45
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator implements plan for controlling potential damage from subsidence submitted and approved under 273.120.	<input type="checkbox"/>	273.291(c)	46
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Landfill designed, constructed, maintained and operated to prevent and minimize potential for fire, explosion, or release of solid waste constituents into air, water, or soil of the Commonwealth.	<input type="checkbox"/>	273.301	47
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Emergency equipment including portable fire extinguishers, fire control equipment, spill control equipment, and decontamination equipment available. For fire equipment requiring water, facility has a water supply of or adequate quantity and pressure to supply the equipment.	<input type="checkbox"/>	273.302(a)	48
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Emergency equipment tested and maintained.	<input type="checkbox"/>	273.302(c)	49
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Adequate space maintained to allow unobstructed movement of emergency personnel and equipment.	<input type="checkbox"/>	273.302(d)	50
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Litter controlled/collected and barriers/fences in place.	<input type="checkbox"/>	273.220(a)-(c)	51
<b>COVER/SLOPES/REVEGETATION</b>							
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Daily/intermediate cover meets performance and design requirements.	<input type="checkbox"/>	273.232(b), 273.233(b), (c)	52
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Minimum 5 day supply of daily and intermediate cover maintained on-site.	<input type="checkbox"/>	273.232(c) & 273.233(d)	53
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Intermediate cover applied within time limits.	<input type="checkbox"/>	273.233(a)	54
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Intermediate slopes do not exceed 50%.	<input type="checkbox"/>	273.232(d)	55
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cap placed over entire surface of final lift meets performance standards.	<input type="checkbox"/>	273.234(a)(1)	56
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Final cover meets performance and design requirements; applied within time limits.	<input type="checkbox"/>	273.234(b)-(e)	57
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Final slopes stable and erosion controlled.	<input type="checkbox"/>	273.234(f)	58
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Final slopes graded 3-15% or terraced to 33% as approved.	<input type="checkbox"/>	273.234(g)	59
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Minimum revegetation and successful revegetation requirements adhered to.	<input type="checkbox"/>	273.235(a)-(e) & 273.236(a), (b)	60
<b>WATER QUALITY PROTECTION</b>							
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Surface and groundwater treatment facilities properly operated and maintained.	<input type="checkbox"/>	273.241(b)	61
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Surface water percolation minimized/prevented.	<input type="checkbox"/>	273.242(b)(1) & 273.234(e)(4)	62

**INSPECTION REPORT – MUNICIPAL WASTE LANDFILL (Cont'd)**

1 - No Violation Observed 2 - Not-Applicable 3 - Not-Determined 4 - Non-Compliance

STATUS				GENERAL REQUIREMENTS	COMMENTS ATTACHED	CHAPTER CITATION	LINE ITEM
1	2	3	4				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Soil erosion and sedimentation controls designed and implemented as per approved plans; gullies over nine inches repaired.	<input type="checkbox"/>	273.242(a)-(c)	63
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sedimentation ponds and discharge structures designed, constructed, operated, and maintained in accordance with Chapters 273, 102, and 105.	<input type="checkbox"/>	273.243(a)-(g) & 273.244	64
				<b>LINER SYSTEM</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Liner system designed, constructed, operated, and maintained when required.	<input type="checkbox"/>	273.251(a), (b)	65
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Edge of liner requirements adhered to (i.e., no waste within 25 feet if adjacent liner, 4 feet high lined berm, to prevent lateral escape of leachate, adequate spacing on inside of berm to collect stormwater and sediment).	<input type="checkbox"/>	273.252(d)	66
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leachate detection zone monitored weekly.	<input type="checkbox"/>	273.255(c)	67
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Protective cover protects primary liner and leachate collection system and allows free flow of leachate into the collection system.	<input type="checkbox"/>	273.257(a)	68
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Protective cover meets minimum requirements and at least 18 inches thick.	<input type="checkbox"/>	273.257(b)	69
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leachate collection system within protective cover meets minimum requirements.	<input type="checkbox"/>	273.258(a), (b)	70
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Barrier designed, constructed and maintained as required to prevent lateral migration of leachate off-site in surface mined areas.	<input type="checkbox"/>	273.259(a)-(d)	71
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8 feet of select waste placed over protective cover.	<input type="checkbox"/>	273.260	73
				<b>LEACHATE TREATMENT</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leachate collected and handled through Department approved method(s).	<input type="checkbox"/>	273.272(a)-(c)	74
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leachate transportation requirements adhered to.	<input type="checkbox"/>	273.273(a)-(c)	75
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cessation of site operation if alternate leachate handling not available.	<input type="checkbox"/>	273.273(d)	76
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leachate treatment system permitted and fully operational at least 3 years before closure.	<input type="checkbox"/>	273.273(e)	77
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leachate recirculation in accordance with regulations.	<input type="checkbox"/>	273.274(1)-(4)	78
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leachate collection and storage systems on-site have capacity of 30 days or 250,000 gallons, whichever is greater.	<input type="checkbox"/>	273.275(a)-(f)	79
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leachate flow rate measured daily; analyzed quarterly.	<input checked="" type="checkbox"/>	273.276(a)-(b)	80
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Department notified when remedial action(s) required.	<input type="checkbox"/>	273.277(1)-(4)	81
				<b>WATER QUALITY MONITORING</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Approved monitoring system installed and maintained.	<input type="checkbox"/>	273.281(a), (b) & 273.283	82
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Quarterly and annual monitoring requirements adhered to and results submitted Department within time constraints.	<input type="checkbox"/>	273.284 & 273.285	83
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Groundwater assessment plan submitted and implement as required.	<input type="checkbox"/>	273.286(a)-(g)	84
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Groundwater abatement plan submitted and implemented as required.	<input type="checkbox"/>	273.287(a)-(f)	85
				<b>RECORDKEEPING AND REPORTING</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operational records maintained, available and submitted as required.	<input type="checkbox"/>	273.288 & 273.311-273.313	86
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Daily Operational Records kept in accordance with regulations for the life of the facility bond or longer if necessary.	<input type="checkbox"/>	273.311(d)	87

### INSPECTION REPORT – MUNICIPAL WASTE LANDFILL (Cont'd)

1 - No Violation Observed    2 - Not-Applicable    3 - Not-Determined    4 - Non-Compliance

STATUS				GENERAL REQUIREMENTS	COMMENTS ATTACHED	CHAPTER CITATION	LINE ITEM
1	2	3	4				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator submits quarterly operation report.	<input type="checkbox"/>	273.312	88
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator submits annual operation report with fee.	<input type="checkbox"/>	273.313	89
				<b>MINERALS AND GAS</b>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Gas venting and monitoring in accordance with approved plans.	<input type="checkbox"/>	273.292(a)-(d)	90
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Combustible gas levels not exceeded.	<input type="checkbox"/>	273.292(e)	91
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Forced gas venting if required.	<input type="checkbox"/>	273.292(f)	92
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Gas recovery conducted as per approved plan and §273.293, including annual analysis.	<input type="checkbox"/>	273.293(a), (b)	93
				<b>EMERGENCY PROCEDURES</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Contingency plan implemented if there is an emergency.	<input type="checkbox"/>	273.303(a)-(c)	94
				<b>RECYCLING</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operator shall salvage and recycle waste in accord with recycling plan. (273.196)	<input type="checkbox"/>	273.331(a)	95
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Salvaging and recycling controlled by operator and prevents interference within operations and prevents health hazardous nuisance.	<input type="checkbox"/>	273.331(b)	96
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Salvaged materials stored in an approved area or transported offsite.	<input type="checkbox"/>	273.331(c)	97
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Drop off center established for at least three recyclables.	<input type="checkbox"/>	273.332(a)	98
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Drop off center properly located, contains bins or containers, open at least 8 hours per week and 4 hours during evenings or weekends.	<input type="checkbox"/>	273.332(b), (c)	99
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Approved public notice of availability of drop off center availability is provided.	<input type="checkbox"/>	273.332(d)	100
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	On or before January 15 each year, operator informs municipality in writing of weight and type of materials recycled previous year.	<input type="checkbox"/>	273.332(e)	101
				<b>SPECIAL HANDLING AND RESIDUAL WASTES</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Special handling and residual wastes disposed with prior Department approval, and in accordance with permit and Chapter 273.	<input type="checkbox"/>	273.501	102
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Infectious waste disposal restrictions adhered to.	<input type="checkbox"/>	273.511(a)-(d)	103
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Chemotherapeutic waste disposal restrictions adhered to.	<input type="checkbox"/>	273.512	104
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sewage sludge co-disposal and monofill requirements followed.	<input type="checkbox"/>	273.513	105
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sewage sludge sampling requirements adhered to and sludge meets standards for control of pathogens, vectors, and odors.	<input type="checkbox"/>	273.513(c)	106
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Disposal of municipal waste incineration ash in landfill or landfill cell that meets Chapter 273 requirements.	<input type="checkbox"/>	273.514(a)	107
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ash residue disposal in dedicated landfill or landfill cell unless co-disposal in accordance with Chapter 273 (including leachability treatment).	<input type="checkbox"/>	273.514(b)	108
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ash residue covered immediately or as approved by the Department.	<input type="checkbox"/>	273.514(c)	109





## INSPECTION REPORT COMMENTS

Date of Inspection 09/22/2016 Identification Number 100200

Company/Facility/Site Name IESI PA Bethlehem Landfill

### Comments:

The PA Department of Environmental Protection ("Department") conducted a routine complete inspection on September 22, 2016 at 1112 hours at IESI PA Bethlehem Landfill ("IESI"). Representing the Department was Amy Faulch (this inspector). Mr. Don Hallock provided a site tour and was interviewed on behalf of IESI. See the 9/22/16 odor patrol log for weather details.

The following personnel have entered the landfill since the 7/20/16 inspection: J. Wagoner, R. Mullin and A. Faulch on 7/20/16; J. Wagoner on 7/27/16; J. Wagoner on 8/4/16; S. French on 8/11/16; J. Wagoner and A. Faulch on 8/23/16; J. Wagoner and A. Faulch 8/24/16; T. McGurk and R. Malizia on 9/19/16; R. Malizia on 9/20/16; R. Malizia on 9/21/16; and A. Faulch on 9/22/16.

### SITE TOUR:

Prior to entering the landfill, this inspector conducted an odor patrol in the areas surrounding the landfill. A moderate, intermittent sewage odor was detected along Shimersville Rd. near the sewage treatment plant. A very light, intermittent wood-burning odor was detected along Saucon Ave. No other offsite odors were detected during this odor patrol. See the 9/22/16 odor patrol log for details.

The working face was located in Cell 4E/Stage 3; one trailer was observed dumping at the time of this inspection. A light garbage odor was detected to the south and to the east of the working face at the time of this inspection. IESI's line misters were observed in operation. This inspector observed a truck watering the access roads at the time of this inspection. Construction on the MSE wall is complete and IESI is preparing Cell 4E/F for liner installation. Mr. Hallock stated that IESI would be seeding above the temp cap area on the south slope and re-seeding some bare spots on the north slope final cap area. Mr. Hallock also stated that IESI is currently seeking bids for updates on their gas collection system.

At the time of this inspection the Flare was operating at 1650 scfm and 1643°F. BRE was operating at 1400 cfm.

### COMPLAINT INVESTIGATIONS:

Please see the attached spreadsheet regarding the data collected for complaints received by the Department since the 7/20/16 inspection, as well as the gas data for the 7/6/16 complaint, which was not available for review during the 7/20/16 inspection. IESI's inspection logs and landfill gas data for the complaint date(s) were reviewed on 9/22/16, see attached. The Department's Air Quality Program responded to these complaints on 8/4/16, 8/9/16 and 8/17/16.

Line item #13: Overweight truck logs revealed ten overweight trucks in July and six overweight trucks in August 2016.

Line item #20-23: Daily inspection logs were reviewed. IESI's odor patrols and odor control measures appear to be following their Nuisance Minimization and Control Plan.

Line item #24: Daily tonnages were reviewed for July-September (to date). There did not appear to be any exceedances of the 1800 ton daily limit. The greatest one-day tonnages are as follows:

7/27/16: 1106.36 tons

8/2/16: 1099.24 tons

9/7/16: 1207.79 tons

Line item #26-31: Daily radiation monitor checks were reviewed and appeared complete. IESI's stationary radiation meter was last calibrated on 6/16/16. IESI's two handheld radiation meters were last calibrated on 7/11/16 and 6/16/16. IESI had three radiation hits since the last inspection:

8/9/16: I-131, disposed on site

8/16/16: Tc-99, disposed on site

8/23/16: I-131, disposed on site

Line item # 80: Leachate flow rates:

July: 1,082,823 gallons

August: 781,365 gallons

This concludes this inspection report.

AE 10/5/16

Person Interviewed Sent via First Class Mail  
(Signature)

Date \_\_\_\_\_

Inspector   
(Signature)

Date 10/5/16

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Investigator: A. Faulch Date: 9/22/16  
 Weather Conditions: Clear, 78° F, wind @ 50% H

IESI PA BETHLEHEM LANDFILL  
 ODOR PATROL SURVEY

SURVEY LOCATION	TIME	ODOR INTENSITY S = Strong M = Moderate SL = Slight N = None	ODOR DURATION P = Persistent I = Intermittent N = None	ODOR DESCRIPTION EG = Rotten Egg LFG = Landfill Gas G = Garbage S = Sewage D = Dredge O = Other (describe)	COMMENTS & OBSERVATIONS
Shinersville	1112	M	1	S	eFACTS # 2521252 MODERATE sewage odor near sewage treatment plant
Sauccon Ave	1115	SL	1	O	
Roberts	1117	N			Very light wood-burning odor
Snyder	1118	N			
Mathews	1119	N			
Mixsell	1119	N			
Adams	1120	N			
Riverside	1120	N			
Fritz	1124	N			
Johnston	1125	N			
Snyder	1126	N			
Schwab	1127	N			
Ivywood	1127	N			
Shinersville	1128	N			
Applebutter	1129	N			
Styline	1130	N			
Lwr. Sauccon Rd.	1145	N			
Reddington	1147	N			



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Investigator: A. Faulich Date: 9/8/16  
Weather Conditions: Clear, 90°F, wind GWSW, 59% H

IESI PA BETHLEHEM LANDFILL  
ODOR PATROL SURVEY

SURVEY LOCATION	TIME	ODOR INTENSITY S = Strong M = Moderate SL = Slight N = None	ODOR DURATION P = Persistent I = Intermittent N = None	ODOR DESCRIPTION EG = Rotten Egg LFG = Landfill Gas G = Garbage S = Sewage D = Dredge O = Other (describe)	COMMENTS & OBSERVATIONS
Shinersville	1409	S	P	S	eFACTS # 2521251  COMMENTS & OBSERVATIONS  Strong sewage odor near Sew. Trt. Plant
Sauccon Ave	1413	N			
Roberts	1414	N			
Snyder	1415	N			
Matthews	1415	N			
Mixsell	1416	N			
Adams	1416	N			
Riverside	1417	N			
Fitz	1420	N			
Johnston	1421	N			
Snyder	1422	N			
Schwab	1423	N			
Lywood	1423	N			
Shinersville	1424	N			
Applebutter	1426	SL	1	G	very light garbage odor w/passing trucks
Lwr. Sauccon Rd.	1436	N			
Reddington	1438	N			
Lwr. Sauccon Rd.	1446	N			



# IESI ODOR COMPLAINT LOG (2335 Applebutter Rd, Bethlehem, PA 18017)

Date	Time	Address	Weather Data (Allentown, KAAB)				Gas Management Data				Date of Initial Response	Addressed in Insp Report Date	
			Distance from Landfill (miles)	Skies	Temperature	Wind (out of)	Flare (scfm)	BRE (scfm)	Total (scfm)				
07/06/16	12:16	Saucun Ave, Steel City	0.980	Clear	89.1	Variable @ 6.9	Residence	persistent working face odors	3129	0	3129	7/12/2016	7/20/2016
08/01/16	13:38	Johnston Ave, Steel City	1.170	Overcast	73.2	ESE @ 5.8	Residence	detected a garbage odor on property starting at 12:56 & getting stronger	0	0	0	8/4/2016	9/22/2016
08/02/16	8:00	Johnston Ave, Steel City	1.170	Partly Cloudy	73.9	ENE @ 3.5	Residence	Garbage odor on property between 8-8:15 am.	3319	0	3319	8/4/2016	9/22/2016
08/02/16	19:18	Fritz Ave, Steel City	0.950	Overcast	75.9	SE @ 9.2	Residence	Odor coming from landfill, smells like onions	2267	1264	3531	8/4/2016	9/22/2016
08/02/16	unknown	Saucun Ave, Steel City	0.979	Overcast	75.9	SE @ 9.2	Residence	malodor from IESI on property at night	2267	1264	3531	8/4/2016	9/22/2016
08/09/16	3:45	Saucun Ave, Steel City	0.979	Clear	61.0	Calm	Residence	Pungent odor from landfill near home	1990	1456	3386	8/9/2016	9/22/2016
08/19/16	13:35	Roberts Ave, Steel City	1.059	Partly Cloudy	86.0	Variable @ 5.8	Residence	very intense smell of rotting garbage on property	1803	1430	3233	8/17/2016	9/22/2016

AR

**Faulch, Amy**

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**From:** Nicholas Rogers <nicholas.rogers@progressivewaste.com>  
**Sent:** Tuesday, October 04, 2016 2:34 PM  
**To:** Faulch, Amy  
**Subject:** Fwd: BRE Flows

Amy please see below for flare flows.

Thanks

Sent via the Samsung Galaxy S@ 6 edge, an AT&T 4G LTE smartphone

----- Original message -----

**From:** "Lock, Tom" <TLock@scsengineers.com>  
**Date:** 10/4/16 2:17 PM (GMT-05:00)  
**To:** Nicholas Rogers <nicholas.rogers@progressivewaste.com>, Ryan Brimer <rbrimer@pepcoenergy.com>, kminton@pepcoenergy.com  
**Cc:** "Schoffner, Scott" <SSchoffner@scsfieldservices.com>  
**Subject:** RE: BRE Flows

Nick,  
See below for the flare data. Let me know if you need anything else.

Tom Lock  
SCS FIELD SERVICES  
717-671-1497

---

**From:** Nicholas Rogers [mailto:nicholas.rogers@progressivewaste.com]  
**Sent:** Tuesday, October 04, 2016 11:48 AM  
**To:** Lock, Tom; Ryan Brimer; kminton@pepcoenergy.com  
**Subject:** Fwd: BRE Flows

Tom can you get me the flare data for the times listed below please and Ryan can you get me the plant flow data as well. Thanks

DEP needs them asap.

Sent via the Samsung Galaxy S@ 6 edge, an AT&T 4G LTE smartphone

----- Original message -----

**From:** Nicholas Rogers <nicholas.rogers@progressivewaste.com>  
**Date:** 9/23/16 7:40 AM (GMT-05:00)  
**To:** 'Ken Minton' <kminton@pepcoenergy.com>

Subject: BRE Flows

Ken,

Can you please send me flow data for the following dates or let me know if you were not running on these dates. There were odor complaints on these days and DEP is requesting the data. Of course you know which house had the complaints.

7/6 12:16 – flare running at 3129 scfm

8/1 13:38 – flare off

8/2 8:00 – flare running at 3319 scfm

8/2 19:18 – flare running at 2267 scfm

8/9 3:45 - flare running at 1930 scfm

8/16 13:35 – flare running at 1803 scfm

Also what day did you say you were going to be doing emissions testing?

Thanks

**Nick Rogers**  
**Environmental Compliance Manager**  
**Waste Connections**  
**Blue Ridge & Bethlehem Landfill**

Blue Ridge: 717-709-1700

Bethlehem: 610-317-3200

F: 717 709 9012

C: 484-456-1650



R

**Faulch, Amy**

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**From:** Nicholas Rogers <nicholas.rogers@progressivewaste.com>  
**Sent:** Tuesday, October 04, 2016 2:01 PM  
**To:** Faulch, Amy  
**Subject:** Fwd: BRE Flows

Amy please see below

Sent via the Samsung Galaxy S@ 6 edge, an AT&T 4G LTE smartphone

----- Original message -----

**From:** "Brimer, Ryan:(BSC)" <[Ryan.Brimer@constellation.com](mailto:Ryan.Brimer@constellation.com)>  
**Date:** 10/4/16 2:00 PM (GMT-05:00)  
**To:** Nicholas Rogers <nicholas.rogers@progressivewaste.com>  
**Cc:** "Minton, Kenneth:(PES)" <[Kenneth.Minton@constellation.com](mailto:Kenneth.Minton@constellation.com)>  
**Subject:** RE: BRE Flows

Here is the requested flow data.

7/6	12:16	0	SCFM	Shutdown
8/1	13:38	0	SCFM	Shutdown
8/2	08:00	0	SCFM	Shutdown
8/2	19:18	1264	SCFM	
8/9	03:45	1456	SCFM	
8/16	13:35	1430	SCFM	

Ryan Brimer  
Landfill Gas Operator  
Bethlehem Renewable Energy  
610-216-9098

---

**From:** Nicholas Rogers [<mailto:nicholas.rogers@progressivewaste.com>]  
**Sent:** Tuesday, October 04, 2016 11:48 AM  
**To:** Lock, Tom; Brimer, Ryan:(BSC); Minton, Kenneth:(PES)  
**Subject:** Fwd: BRE Flows

Tom can you get me the flare data for the times listed below please and Ryan can you get me the plant flow data as well. Thanks

DEP needs them asap.

Sent via the Samsung Galaxy S@ 6 edge, an AT&T 4G LTE smartphone

----- Original message -----

From: Nicholas Rogers <[nicholas.rogers@progressivewaste.com](mailto:nicholas.rogers@progressivewaste.com)>

Date: 9/23/16 7:40 AM (GMT-05:00)

To: 'Ken Minton' <[kminton@pepcoenergy.com](mailto:kminton@pepcoenergy.com)>

Subject: BRE Flows

Ken,

Can you please send me flow data for the following dates or let me know if you were not running on these dates. There were odor complaints on these days and DEP is requesting the data. Of course you know which house had the complaints.

7/6 12:16  
8/1 13:38  
8/2 8:00  
8/2 19:18  
8/9 3:45  
8/16 13:35

Also what day did you say you were going to be doing emissions testing?

Thanks

**Nick Rogers**  
**Environmental Compliance Manager**  
**Waste Connections**  
**Blue Ridge & Bethlehem Landfill**

Blue Ridge: 717-709-1700

Bethlehem: 610-317-3200

F: 717 709 9012

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IESI PA BETHLEHEM LANDFILL ODOR PATROL SURVEY - 2016

Initials	Date	Survey Location	Time	ODOR INTENSITY N = None S = Slight M = Moderate SL = Strong	WIND DIRECTION	ODOR DESCRIPTION EG = Rotten Egg LFG = Landfill Gas G = Garbage S = Sewage D = Dredge	COMMENTS & OBSERVATIONS
MS	7-14-16	SARCON CALKASAC	12:24	N	SSW		
		MIRKEL + STANSTON	12:27	N	"		
		QUINN + MIRKEL	12:30	N	"		
		RIVERSIDE + JEFFERSON	12:33	N	"		
MD	7-22-16	SARCON CALKASAC	12:40	N	SW		NOTICED A QUADSTER IN DRIVE WAY AT 2145 SARCON AVE
		MIRKEL + ADAMS	12:43	N	SW		
		RIVERSIDE + JEFFERSON	12:45	N	SW		
		HILL OLINK	12:47	N	SW		
MS	7-29-16	SARCON CALKASAC	7:29	N	ESE		OVER NIGHT RAIN
		MIRKEL + ADAMS	7:33	N	ESE		
		RIVERSIDE + JEFFERSON	7:39	N	ESE		
			7:41	N	ESE		









AR

**Faulch, Amy**

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**From:** Nicholas Rogers <nicholas.rogers@progressivewaste.com>  
**Sent:** Tuesday, September 06, 2016 8:54 AM  
**To:** Faulch, Amy; Wagoner, Jessica; Leslie Huhn  
**Cc:** Donald Hallock  
**Subject:** FW: BRE operations, week of 9/12/16

All,

Please see email below from BRE. If you have any questions please let me know. Thank you

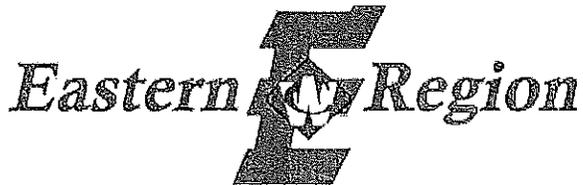
**Nick Rogers**  
**Environmental Compliance Manager**  
**Waste Connections**  
**Blue Ridge & Bethlehem Landfill**

Blue Ridge: 717-709-1700

Bethlehem: 610-317-3200

F: 717 709 9012

C: 484-456-1650



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**From:** Ken Minton [<mailto:kminton@pepcoenergy.com>]  
**Sent:** Tuesday, September 06, 2016 8:30 AM  
**To:** Nicholas Rogers; Lock, Tom; Schoffner, Scott ([SSchoffner@scsfieldservices.com](mailto:SSchoffner@scsfieldservices.com)); Kleckner, Keith; Mike Shelden; Donald Hallock; 'George, David'  
**Cc:** Ryan Brimer; [Dusty.McKeown@exeloncorp.com](mailto:Dusty.McKeown@exeloncorp.com); Harrington, Paul J:(Contractor - BSC) ([Paul.Harrington@exeloncorp.com](mailto:Paul.Harrington@exeloncorp.com))  
**Subject:** BRE operations, week of 9/12/16

All,

The following activities are scheduled for the week of 9/12

9/12 – BRE will be offline starting at 0800 for maintenance.

9/13 – BRE will be offline until approximately 1600. We will return to operations at partial load on one gas compressor.

9/14 – BRE will return to full operations at approximately 1600.

9/15 – BRE will be performing stack emissions testing on the turbine.

Ken Minton  
Exelon Power Generation  
Site Manager  
Bethlehem & Eastern Generating Stations

R

**Faulch, Amy**

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**From:** Nicholas Rogers <nicholas.rogers@progressivewaste.com>  
**Sent:** Wednesday, August 24, 2016 8:38 AM  
**To:** Wagoner, Jessica; Faulch, Amy; Leslie Huhn  
**Cc:** Donald Hallock; Mike Shelden; Ken Minton  
**Subject:** Bethlehem Operations

Hi Jess and Amy,

I just wanted to keep you informed that the BRE plant is down for repairs as of Monday evening. The plant intends to be running again by the end of the week or early next week at half load. Tentatively the second compressor is still intended to be installed by early to mid-September. Right now the flare is running and is the primary GCCS.

If there are any questions please do not hesitate to contact me.

Thank you,

**Nick Rogers**  
**Environmental Compliance Manager**  
**Waste Connections**  
**Blue Ridge & Bethlehem Landfill**

Blue Ridge: 717-709-1700

Bethlehem: 610-317-3200

F: 717 709 9012

C: 484-456-1650

*Eastern  Region*

Faulch, Amy

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**From:** Nicholas Rogers <nicholas.rogers@progressivewaste.com>  
**Sent:** Thursday, August 18, 2016 12:25 PM  
**To:** Wagoner, Jessica; Faulch, Amy  
**Subject:** SSM Report for July 2016

Bethlehem Renewable Energy and Flare Operations

The following is an update to the IESI Flare activity.

We had the following LFG Flare shut downs at Bethlehem Landfill. Auto-valve closed as designed for each shutdown of the flare except for 7-20 through 7-30 when problem was noticed and fixed. BRE had currently been shut down since 09/13/15 with the landfill flare as primary GCCS until 07/06/16 when BRE began start-up. The plant is currently running at half capacity due to compressor issues. BRE is due to be at full capacity beginning to middle of September.

07/6/16	Flare shutdown Flare startup	15:11 17:03	BRE startup of plant loss of flame Duration 1 hours 52 mins
07/7/16	Flare shutdown Flare startup	9:19 10:36	BRE startup of plant loss of flame Duration 1 hour 17 mins
7/11/16	Flare Shutdown Flare Startup	11:15 16:33	Loss of flame Duration 4 hours 21mins
7/18/16	Flare Shutdown Flare startup	12:12 21:30	Power outage Duration hours 5 hours 37 mins
7/20/16	Flare shutdown Flare Startup	14:08 15:59	Loss of flame Duration 1 hour 39 mins
7/20/16	Flare Shutdown Flare Startup	22:18 9:48	Loss of flame Duration 11 hour 36mins
7/22	Flare Shutdown Flare Startup	13:02 20:57	High stack temp loss of flame Duration 7 hours 55 mins
7/29/16	Flare shutdown Flare startup	14:49 14:49	High stack temp loss of flame Duration 1 hour 59 mins
7/30/16	Flare Shutdown Flare startup	00:39 07:41	Loss of flame Duration 7 hours 59 mins
7/30/16	Flare Shutdown Flare Startup	17:42 21:45	Loss of flame Duration 4 hours 3mins

Nick Rogers

AR

Faulch, Amy

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**From:** Nicholas Rogers <nicholas.rogers@progressivewaste.com>  
**Sent:** Tuesday, August 16, 2016 11:13 AM  
**To:** Wagoner, Jessica; Faulch, Amy; Leslie Huhn  
**Cc:** Donald Hallock; Mike Shelden  
**Subject:** LFG Update

All,

I just wanted to give an update on LFG production. Currently the BRE plant is still running at half capacity due to compressor issues. They are taking around 1400-1500scfm with the flare handling the rest of the gas. The plant intends to be up to full capacity by either 9/5 or 9/12 depending on the status and shipment of the compressor. If we get any more information on the timing we will keep you informed. If you have any questions please feel free to contact me.

Thank you,

**Nick Rogers**  
**Environmental Compliance Manager**  
**Waste Connections**  
**Blue Ridge & Bethlehem Landfill**

Blue Ridge: 717-709-1700

Bethlehem: 610-317-3200

F: 717 709 9012

C: 484-456-1650



BEHLHEM										
Day Number	Date	Total Daily Tonnage	ADC Tonnage	Month QDAT	Day of Quarter	Quarter Tonnage	Quarter QDAT	Remaining Days	Remaining Quarter Tonnage	
1	1-Jul	792.79	0.0	792.8	1	792.8	792.8	77	105,082.2	
2	2-Jul	224.40	0.0	508.6	2	1,017.2	508.6	76	104,857.8	
4	5-Jul	1010.62	0.0	507.0	4	2,027.8	507.0	74	103,847.2	
5	6-Jul	953.80	0.0	596.3	5	2,981.6	596.3	73	102,893.4	
6	7-Jul	927.22	0.0	651.5	6	3,908.8	651.5	72	101,966.2	
7	8-Jul	798.69	0.0	672.5	7	4,707.5	672.5	71	101,167.5	
8	9-Jul	412.47	0.0	640.0	8	5,120.0	640.0	70	100,755.0	
9	11-Jul	1044.24	0.0	684.9	9	6,164.2	684.9	69	99,710.8	
10	12-Jul	1084.60	0.0	724.9	10	7,248.8	724.9	68	98,626.2	
11	13-Jul	1073.01	0.0	751.1	11	8,261.8	751.1	67	97,613.2	
12	14-Jul	850.53	0.0	760.2	12	9,122.4	760.2	66	96,752.6	
13	15-Jul	867.05	0.0	788.4	13	9,989.4	788.4	65	95,885.6	
14	16-Jul	216.15	0.0	729.0	14	10,205.6	729.0	64	95,669.4	
15	18-Jul	888.74	0.0	739.6	15	11,094.3	739.6	63	94,780.7	
16	19-Jul	887.51	0.0	748.9	16	11,981.8	748.9	62	93,893.2	
17	20-Jul	1099.40	0.0	769.5	17	13,081.2	769.5	61	92,793.8	
18	21-Jul	1015.54	0.0	783.2	18	14,095.8	783.2	60	91,778.2	
19	22-Jul	889.24	0.0	788.7	19	14,986.0	788.7	59	90,888.0	
20	23-Jul	308.50	0.0	764.7	20	15,294.5	764.7	58	90,580.5	
21	25-Jul	1011.43	0.0	766.5	21	16,305.9	766.5	57	89,569.1	
22	26-Jul	997.18	0.0	800.4	22	17,303.1	800.4	56	88,571.9	
23	27-Jul	1106.36	0.0	807.1	23	18,409.5	807.1	55	87,466.5	
24	28-Jul	960.08	0.0	805.2	24	19,369.6	805.2	54	86,505.5	
25	29-Jul	760.87	0.0	785.7	25	20,130.4	785.7	53	85,744.6	
26	30-Jul	297.41	0.0		26	20,427.8		52	85,447.2	
Month Total:		20427.83	0.0							

Bethlehem										20,427.83
Day Number	Date	Total Daily Tonnage	ADC Tonnage	Month QDAT	Day of Quarter	Quarter Tonnage	Quarter QDAT	Remaining Days	Remaining Quarter Tonnage	
1	1-Aug	878.37	0.0	878.4	27	21,306.2	789.1	51	84,568.8	
2	2-Aug	1,099.24	0.0	988.8	28	22,405.4	800.2	50	83,469.6	
3	3-Aug	1,021.13	0.0	999.6	29	23,426.6	807.8	49	82,448.4	
4	4-Aug	926.98	0.0	981.4	30	24,353.6	811.8	48	81,521.5	
5	5-Aug	822.68	0.0	949.7	31	25,176.2	812.1	47	80,698.8	
6	6-Aug	261.58	0.0	835.0	32	25,437.8	794.9	46	80,437.2	
7	8-Aug	923.77	0.0	847.7	33	26,361.6	798.8	45	79,513.4	
8	9-Aug	938.32	0.0	859.0	34	27,299.9	802.9	44	78,575.1	
9	10-Aug	970.42	0.0	871.4	35	28,270.3	807.7	43	77,604.7	
10	11-Aug	1,044.49	0.0	888.7	36	29,314.8	814.3	42	76,560.2	
11	12-Aug	894.93	0.0	889.3	37	30,209.7	816.5	41	75,665.3	
12	13-Aug	267.87	0.0	837.5	38	30,477.6	802.0	40	75,397.4	
13	15-Aug	1,083.12	0.0	856.4	39	31,560.7	809.2	39	74,314.3	
14	16-Aug	1,024.79	0.0	868.4	40	32,585.5	814.6	38	73,289.5	
15	17-Aug	980.16	0.0	875.9	41	33,565.7	818.7	37	72,309.3	
16	18-Aug	991.88	0.0	883.1	42	34,557.6	822.8	36	71,317.4	
17	19-Aug	753.47	0.0	875.5	43	35,311.0	821.2	35	70,564.0	
18	20-Aug	327.96	0.0	845.1	44	35,639.0	810.0	34	70,236.0	
19	22-Aug	827.32	0.0	844.1	45	36,466.3	810.4	33	69,408.7	
20	23-Aug	1,024.85	0.0	853.2	46	37,491.2	815.0	32	68,383.8	
21	24-Aug	1,064.41	0.0	863.2	47	38,555.6	820.3	31	67,319.4	
22	25-Aug	1,062.16	0.0	872.3	48	39,617.7	825.4	30	66,257.3	
23	26-Aug	994.52	0.0	877.6	49	40,612.3	828.8	29	65,262.8	
24	27-Aug	285.46	0.0	852.9	50	40,897.7	818.0	28	64,977.3	
25	29-Aug	940.31	0.0	856.4	51	41,838.0	820.4	27	64,037.0	
26	30-Aug	963.06	0.0	860.5	52	42,801.1	823.1	26	63,073.9	
27	31-Aug	1,043.36	0.0	867.3	53	43,844.4	827.3	25	62,030.6	
Month Total:		23,416.61	0.0							

BETHLEHEM											43844.44
Day Number	Date	Total Daily Tonnage	ADC Tonnage	Month QDAT	Day of Quarter	Quarter Tonnage	Quarter QDAT	Remaining Days	Remaining Quarter Tonnage		
1	1-Sep	888.56	0.0	888.6	52	44,733.0	860.3	26	61,142.0		
2	2-Sep	939.92	0.0	914.2	53	45,672.9	861.8	25	60,202.1		
3	3-Sep	299.27	0.0	709.3	54	45,972.2	851.3	24	59,902.8		
4	4-Sep				55			23			
5	6-Sep	1144.12	0.0	654.4	56	47,116.3	841.4	22	58,758.7		
6	7-Sep	1207.79	0.0	746.6	57	48,324.1	847.8	21	57,550.9		
7	8-Sep	1064.95	0.0	792.1	58	49,389.1	851.5	20	56,486.0		
8	9-Sep	979.31	0.0	815.5	59	50,368.4	853.7	19	55,506.6		
9	10-Sep	414.41	0.0	770.9	60	50,782.8	846.4	18	55,092.2		
10	12-Sep	1097.90	0.0	803.6	61	51,880.7	850.5	17	53,994.3		
11	13-Sep	1068.17	0.0	827.7	62	52,948.8	854.0	16	52,926.2		
12	14-Sep	1066.01	0.0	847.5	63	54,014.9	857.4	15	51,860.2		
13	15-Sep	1009.67	0.0	860.0	64	55,024.5	859.8	14	50,850.5		
14	16-Sep	811.76	0.0	856.6	65	55,836.3	859.0	13	50,038.7		
15	17-Sep	242.55	0.0	815.6	66	56,078.8	849.7	12	49,796.2		
16	19-Sep	685.65	0.0	807.5	67	56,764.5	847.2	11	49,110.5		
17	20-Sep	1046.57	0.0	821.6	68	57,811.1	850.2	10	48,064.0		
18	21-Sep	896.04	0.0	825.7	69	58,707.1	850.8	9	47,167.9		
19	22-Sep				70			8			
20	23-Sep				71			7			
21	24-Sep				72			6			
22	26-Sep				73			5			
23	27-Sep				74			4			
24	28-Sep				75			3			
25	29-Sep				76			2			
26	30-Sep				77			1			
Month Total:		14862.65	0.0								

**BETHLEHEM LANDFILL**  
**LEACHATE DEMAND REPORT**  
**July 2016**

<u>Location</u>	<u>Total gallons</u>
LMC-6	15,308
LMC-7	21,138
LMC-8	64,799
LMC-10	1,236,000
PS-1	637,118
PS-2	197,519
PS-3	86,532
Phase-IV	921,169

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	1,236,000
Phase IV	921,169
<hr/>	
TOTAL	2,157,169 gallons

Total Leachate

Leachate	161,654
Phase IV	921,169
<hr/>	
TOTAL	1,082,823 gallons

LMC-10 Flow – Abatement System Flow = Leachate System Flow (gallons).  
Abatement System Flow = 1,074,346 gallons (Neptune Flow meters)

**BETHLEHEM LANDFILL**  
**GROUNDWATER DEMAND REPORT**  
**July 2016**

Well No.	Water Level (avg. ft SWL*)	Flow (avg. GPM)	(Total gal)
AB-1	79.7	6.2	283,979
AB-2	79.1	0.1	832
AB-3	26.4	0.1	932
AB-4	31.1	0.7	30,677
AB-5	53.3	0.3	15,954
AB-6	44.8	1.9	87,933
AB-7	54.2	2.0	90,512
AB-8	28.8	1.1	52,023
AB-9	17.9	3.4	157,278
AB-10	49.7	7.7	354,226
TW-1	41.8	<0.1	0
<b>Total Flow</b>			<b>1,074,346 gallons</b>

\*SWL above transducer set point

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

**BETHLEHEM LANDFILL**  
**LEACHATE DEMAND REPORT**  
**August 2016**

<u>Location</u>	<u>Total gallons</u>
LMC-6	7,335
LMC-7	11,334
LMC-8	44,671
LMC-10	1,431,000
PS-1	317,302
PS-2	167,861
PS-3	37,416
Phase-IV	522,579

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	1,431,000
Phase IV	<u>522,579</u>
TOTAL	1,953,579 gallons

Total Leachate

Leachate	258,786
Phase IV	<u>522,579</u>
TOTAL	781,365 gallons

LMC-10 Flow – Abatement System Flow = Leachate System Flow (gallons).  
 Abatement System Flow = 1,074,346 gallons (Neptune Flow meters)

**BETHLEHEM LANDFILL**  
**GROUNDWATER DEMAND REPORT**  
**August 2016**

Well No.	Water Level (avg. ft SWL*)	Flow (avg. GPM)	(Total gal)
AB-1	78.7	6.2	276811
AB-2	79.9	0.1	1059
AB-3	26.7	0.1	570
AB-4	31.6	0.1	506
AB-5	53.6	0.1	5740
AB-6	44.6	2.2	97533
AB-7	54.1	2.3	100450
AB-8	28.9	1.4	63071
AB-9	16.9	4.2	185708
AB-10	46.7	9.9	440766
TW-1	41.7	<0.1	0
<b>Total Flow</b>		<b>1,074,346 gallons</b>	

\*SWL above transducer set point

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



Original: PA DEP NERO WM File-thru R. Bellas/D. Fisher

Cc: Facility-sent via First Class Mail & email PDF  
BDO WM File- thru A. Faulch  
Lower Saucon Township  
A. Faulch (PDF)  
D. Fisher (e-mail PDF)  
AQ: J. Wagoner/A. Schweitzer (e-mail PDF)  
S. French (e-mail PDF)  
R. Malizia (email PDF)

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