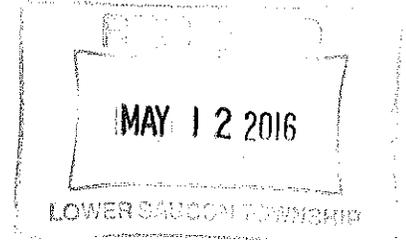




pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION
BETHLEHEM DISTRICT OFFICE



May 10, 2016

Lower Saucon Township Manager
3700 Old Philadelphia Pike
Bethlehem, PA 18015

Attn: Mr. Jack Cahalan

Re: IESI PA Bethlehem Landfill
Permit # 100020
Lower Saucon Township, Northampton County

Dear Mr. Cahalan:

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.

If you have any questions, please feel free to contact me at 610-861-2150.

Sincerely,

Amy E. Faulch
Solid Waste Specialist
Waste Management Program

Enclosure

S

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



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 Allen Schleyer
 Person Interviewed Allen Schleyer/Nick Rogers
 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 District Manager/Compliance Manager
 Title Solid Waste Specialist

Comment: Additional efacts #2479858

Inspection Date: 04/27/2016 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				
GENERAL PROVISIONS							
<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
DAILY OPERATIONS							
<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	04/27/16

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				
DAILY OPERATIONS (Cont'd)							
<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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Operator implements nuisance minimization and control plan.	<input checked="" type="checkbox"/>	273.218(b)(1)	20
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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				
DAILY OPERATIONS (Continued)							
<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
COVER/SLOPES/REVEGETATION							
<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
WATER QUALITY PROTECTION							
<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
				LINER SYSTEM			
<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 of 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
				LEACHATE TREATMENT			
<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
				WATER QUALITY MONITORING			
<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
				RECORDKEEPING AND REPORTING			
<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
				MINERALS AND GAS	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Gas venting and monitoring in accordance with approved plans.	<input type="checkbox"/>	273.292(a)-(d)	90
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Combustible gas levels not exceeded.	<input type="checkbox"/>	273.292(e)	91
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Forced gas venting if required.	<input type="checkbox"/>	273.292(f)	92
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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
				EMERGENCY PROCEDURES			
<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
				RECYCLING			
<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
				SPECIAL HANDLING AND RESIDUAL WASTES			
<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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Infectious waste disposal restrictions adhered to.	<input type="checkbox"/>	273.511(a)-(d)	103
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Chemotherapeutic waste disposal restrictions adhered to.	<input type="checkbox"/>	273.512	104
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sewage sludge co-disposal and monofill requirements followed.	<input type="checkbox"/>	273.513	105
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 04/27/2016

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 April 27, 2016 at 0927 hours at IESI PA Bethlehem Landfill ("IESI"). Amy Faulch (this inspector) accompanied Ms. Tara Quinlivan and Mr. Robert Mullin of the Department's Air Quality Program for routine surface monitoring. See the 4/27/16 Air Quality inspection report for surface monitoring details. Mr. Allen Schleyer and Mr. Nick Rogers provided a site tour and were interviewed on behalf of IESI. See the 4/27/16 odor patrol log for weather details.

The following personnel have entered the landfill since the 2/19/16 inspection: A. Faulch on 3/23/16; S. French and H. Dao on 4/14/16; and T. Quinlivan, R. Mullin and A. Faulch on 4/27/16.

SITE TOUR:

Prior to entering the landfill, this inspector conducted an odor patrol in the areas surrounding the landfill. A very light, intermittent "working face" odor was detected along Riverside Dr. near the hill climb. A moderate, persistent "wood burning" odor was detected along Fritz Ave. A light, intermittent "wood burning" odor was detected along Schwab Ave. A moderate, persistent sewage odor was detected along Shimersville Rd. near Applebutter Rd., and a moderate, intermittent sewage odor was detected along Applebutter Rd. near Shimersville Rd. No other offsite odors were detected during this odor patrol. See the 4/27/16 odor patrol log for details.

Surface monitoring by the Waste Management Program included the use of an MSA Sirius Multi-Gas Detector. Air Quality monitoring included the use of a Flame Ionizing Detector. Detections are as reported on the attached log sheets, and in the 4/27/16 Air Quality inspection report.

The working face was located in Cell 4E/Stage 3; three trucks were observed dumping at the time of this inspection. No odors were detected to the east and to the west of the working face at the time of this inspection. IESI's perimeter misters were not in operation. At the time of this inspection, Mr. Schelyer requested that Mr. Mike Shelden, Operations Manager, turn on the misters. This inspector observed the temporary cap along the south slope. A "wind defender" cover has been installed over the temporary cap and soil cover has been added over the benches in this area. During surface monitoring in this area, a small leachate seep was discovered along a bench road to the west of the temporary cap area between gas wells EW4-43 and CKO-14. This inspector also observed the final cap installed on the north slope, which has been recently hydroseeded.

At the time of this inspection the Flare was operating at 3189 scfm and 1659°F. BRE was not operating at this time.

COMPLAINT INVESTIGATIONS:

Please see the attached spreadsheet regarding the data collected for complaints received by the Department since the 3/23/16 inspection. IESI's inspection logs and landfill gas data for the complaint date(s) were reviewed on 3/23/16, see attached. The Department's Air Quality Program responded to these complaints on 4/5/16 and 4/27/16.

Line item #13: Overweight truck logs revealed two overweight trucks in April 2016 to date.

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

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

4/25/16: 944.12 tons

Line item #26-31: One of IESI's two handheld radiation meters requires calibration, as it was last calibrated on 4/9/15. IESI's second handheld radiation meter was last calibrated on 6/12/15. Daily radiation monitor checks were reviewed since the last inspection. Records appeared complete. IESI has had no radiation hits since the last inspection.

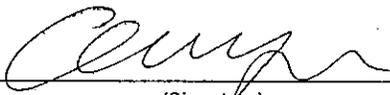
Line item # 80: Leachate flow rates:

March: 1,007,986 gallons

This concludes this inspection report.

Person Interviewed Sent via First Class Mail
(Signature)

Date _____

Inspector 
(Signature)

Date 5/10/16

Investigator: Tomlinson, A. Faulstich/R. Mullin Date: 4/27/16
 Weather Conditions: Overcast, 49°F, wind 2 ESE

CASE: IES1 Landfill
 ODOR PATROL SURVEY

eFACTS # 2479858

SURVEY LOCATION	TIME	ODOR INTENSITY	ODOR DURATION	DESCRIPTION	COMMENTS & OBSERVATIONS
		S = Strong M = Moderate SL = Slight N = None	P = Persistent I = Intermittent N = None	EG = Rotten Egg LFG = Landfill Gas G = Garbage S = Sewage D = Dredge O = Other (describe)	
Shinersville	927	N			
Saucen	929	N			
Roberts	945	N			
Mixsell	946	N			
Adams	947	N			
Johnston	947	N			
Jefferson	948	SL	I	S	very light "working face" odor @ hill climb
Riverside	952	M	P	O	moderate "wood burning" odor
Fritz	957	SL	I	O	light "wood burning" odor
Schwab	959	N			
Snyder	959	N			
Johnston	1000	N			
McKewen	1000	N			
Riverside	1002	M	P	S	moderate sewage odor near Appiebutter
Shinersville	1003	M	I	S	moderate sewage odor near Shinersville
Appiebutter	1004	N			
Skullie	1012	N			
Appiebutter	1015				

ENTER LANDFILL 1015

AE

3

3

3

Investigator: A. Faulich Date: 4/15/16
Weather Conditions: Clear, 66°F, wind 2W, 2706 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 Rd	1326	S	P	S	Strong sewage odor near sewage treatment plant
Saucen Rd	1328	SL	1	O	very light wood burning odor
Roberts	1332	N			
Snyder	1332	N			
Matthews	1333	N			
Mixsell	1333	N			
Adams	1334	N			
Riverside	1335	SL	1	O	light "cut grass" odor
Fritz	1338	N			
Johnson	1339	M	1	O	moderate wood burning odor
Snyder	1340	N			
Schwab	1341	N			
Shinersville	1342	N			
Applebutter	1344	N			
Skyline	1348	N			
Applebutter	1354	SL	1	S	light sewage odor near Skyline
Laur. Saucen Rd	1400	N			
Reddington	1402	N			

WASTE MANAGEMENT FIELD AIR MONITORING DATA FORM

Facility/Case/Complaint: **IESI PA BETHLEHEM LANDFILL**

Weather Conditions: **Overcast 49°F, wind 2ESE**

Investigator(s): **A. Fardich / T. Quinivan / B. Mellin**

Date: **4/27/16**

Action Levels	> 10%
	> 23.5
> 10ppm	
> 35ppm	
Gasoline > 200, Fuel Oil > 100	

MONITORING LOCATION	TIME	LOWER EXPLOSIVE LIMIT (%)	OXYGEN (%)	HYDROGEN SULFIDE (PPM)	CARBON MONOXIDE (PPM)	PID (Meter Units)	Other - FID	COMMENTS & OBSERVATIONS (Odor Intensity-Duration-Description / Weather Issues, etc.)
EW 4-38	1103	0	20.8	0	0	0	2442	"Diesel" odor in area
EW 4-39	1105	0	20.8	0	0	0	154.0	
HW 4-5	1107	11	20.8	0	0	0	3008.0	
EW 4-40	1109	4	20.8	0	0	0	1340.0	
HW 4-50	1113	14	20.8	0	0	0	632.0	"Diesel" odor in area
HW 4-9	1114	0	20.8	0	0	0	1808.0	"Diesel" odor in area
EW 4-04	1116	0	20.8	0	0	0	2.83	
LC-18	1122	0	20.8	0	0	0	103.0	gas odor near well
LC-19	1124	0	20.8	0	0	0	26.23	
HW 4-28	1125	0	20.8	0	0	0	40.09	
CKD-12	1127	0	20.8	0	0	0	4.11	
LC-20	1128	0	20.8	0	0	0	2.05	
HW 4-18	1129	0	20.8	0	0	0	2.14	
HW 4-21	1132	0	20.8	0	0	0	7.17	slight gas odor near well
LC-7	1133	0	20.8	0	0	0	6.99	slight gas odor near well

Field Instrument **MSA Series MultiGas Detector**
 Field Instrument **TK-1000 (T. Quinivan)**
 Calibration Date/Initial **4/27/16 AE**
 Calibration Date/Initial

WASTE MANAGEMENT FIELD AIR MONITORING DATA FORM

Facility/Case/Complaint:
IESI PA BETHLEHEM LANDFILL

Weather Conditions:

Overcast, 49°F, wind 2ESE

Investigator(s): A. Faulda / Tomlinson / B. Mullin

Date: 4/27/16

Action Levels

> 10%
> 23.5 (%) > 23.5
> 10ppm
> 55ppm
Gasoline > 500, Fuel Oil > 100

MONITORING LOCATION	TIME	Action Levels					Other: FID	COMMENTS & OBSERVATIONS (Odor Intensity-Duration-Description / Weather Issues, etc.)
		LOWER EXPLOSIVE LIMIT (%)	OXYGEN (%)	HYDROGEN SULFIDE (PPM)	CARBON MONOXIDE (PPM)	PID (Meter Units)		
LC-21	1134	0	20.8	0	0	0	3.65	
HW 4-22	1135	0	20.8	0	0	0	12.83	
LC-22	1136	0	20.8	0	0	0	8.03	
EW 4-54	1140	0	20.8	0	0	0	1.95	
EW 4-48	1142	35	20.8	0	0	0	5109.0	
HW 4-8	1145	0	20.8	0	0	0	38.45	
EW 4-32	1146	0	20.8	0	0	0	73.02	
EW 4-41	1148	0	20.8	0	0	0	6.16	
HW 4-25	1151	0	20.8	0	0	0	5.92	
EW 4-34	1152	0	20.8	0	0	0	5.48	
EW 4-55	1153	0	20.8	0	0	0	3.94	
EW 4-33R	1154	0	20.8	0	0	0	3.87	
EW 4-31	1156	0	20.8	0	0	0	1.93	
EW 4-42	1158	0	20.8	0	0	0	574.0	
EW 4-36	1200	0	20.8	0	0	0	1.86	

Field Instrument: MSX Sirtus MultiGas Detector

Calibration Date/Initial: 4/27/16 AE

Field Instrument: TIA-100 (T.O. Sullivan)

Calibration Date/Initial:

Field Instrument:

Calibration Date/Initial:

WASTE MANAGEMENT FIELD AIR MONITORING DATA FORM

Facility/Case/Complaint:
IESI PA BETHLEHEM LANDFILL

Weather Conditions:

Overcast, 49°F, wind 2ESE

Investigator(s): A. Fawcett / T. Quinn / R. Mullin

Date: 4/27/16

Action Levels	> 10%
	> 23.5 (L) > 23.5 (H)
> 10ppm	
> 35ppm	
Gasoline > 500, Fuel Oil > 100	

MONITORING LOCATION	TIME	LOWER EXPLOSIVE LIMIT (%)	OXYGEN (%)	HYDROGEN SULFIDE (PPM)	CARBON MONOXIDE (PPM)	PID (Meter Units)	Other - PID	COMMENTS & OBSERVATIONS (Odor Intensity-Duration-Description / Weather Issues, etc.)
EW 4-21R	1203	0	20.8	0	0	0	1.89	
EW 4-52	1353	0	20.8	0	0	0	6.56	
note on bench road taken EW 4-52 & EW 4-53	1357	0	20.8	0	0	0	505.0	
EW 4-53	1358	0	20.8	0	0	0	6.59	
HW 4-82	1400	0	20.8	0	0	0	6.33	
HW 4-23	1402	0	20.8	0	0	0	2.49	
EW 4-26	1403	0	20.8	0	0	0	2.61	
EW 4-20R	1404	14	20.8	0	0	0	2300.0	
EW 4-10R	1409	16	20.8	0	0	0	710.000	gas odor near well
HW 4-15/EW 4-10	1412	12	20.8	0	0	0	519.0	gas odor near well
HW 4-20	1419	0	20.8	0	0	0	2.69	
EW 4-28R	1420	0	20.8	0	0	0	1.99	
EW 4-25R	1422	0	20.8	0	0	0	2.25	
EW 4-43	1424	0	20.8	0	0	0	145.0	leachate odor near well
leachate seep on slope between EW 4-43 & CW 0-14	1426	0	20.8	0	0	0	10.99	leachate odor near seep
Field Instrument	MSA Sintox MultiGas Detector							
Field Instrument	TVA-100 (T. Quinn)							
Field Instrument	Calibration Date/Initial 4/27/16 AC							
Field Instrument	Calibration Date/Initial							

WASTE MANAGEMENT FIELD AIR MONITORING DATA FORM

Facility/Case/Complaint:

IESI PA BETHLEHEM LANDFILL

Weather Conditions:

Overcast 49°F wind 2ESE

Investigator(s): A. Feulch / T. Guinivan / R. McEllin

Date: 4/27/16

Action Levels

> 10%
 23.5 (%) > 23.5
 > 10ppm
 > 35ppm
 Gasoline > 30, Fuel Oil > 100

MONITORING LOCATION	TIME	LOWER EXPLOSIVE LIMIT (%)	OXYGEN (%)	HYDROGEN SULFIDE (PPM)	CARBON MONOXIDE (PPM)	PID (Meter Units)	Other - PID	COMMENTS & OBSERVATIONS (Oder Intensity-Duration-Description / Weather Issues, etc.)
CKO-14	1429	0	20.8	0	0	0	13.27	gas odor near well
LC-17	1432	0	20.8	0	0	0	2.43	
HW 4-17	1433	0	20.8	0	0	0	1.90	
EW 4-50	1434	0	20.8	0	0	0	2.34	
EW 4-30R	1436	0	20.8	0	0	0	64.88	
cap near EW 4-30R	1438	0	20.8	0	0	0	1.86	
EW 4-16R	1440	2	20.8	0	0	0	2090.0	gas odor near well
EW 4-29	1443	35	20.8	0	0	0	2110.0	
LC-14	1444	1	20.8	0	0	0	338.0	
cap near EW 4-29	1445	5	20.8	0	0	0	788.0	
CKO-11	1449	7100	18.8	0	0	0	1387.0	high reading in hole near well
PS-01	1450	0	20.8	0	0	0	6062.0	
PS-02	1454	0	20.8	0	0	0	5.19	
EW 4-15	1455	0	20.8	0	0	0	1.96	
EW 4-51	1459	0	20.8	0	0	0	390.0	

Field Instrument MSK SINA Nitrogen Detector

Calibration Date/Initial 4/27/16 AE

Field Instrument TVA-100 (T. Guinivan)

Calibration Date/Initial

Field Instrument

Calibration Date/Initial

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

Date	Time	Address	Weather Data (Allentown (KABE))				Residence / Drive-by	Description / Notes	Gas Management Data			Date of Initial Response	Addressed in Insp Report Dated
			Distance from Landfill (miles)	Skies	Temperature	Wind (out of)			Flare (scfm)	BRE (scfm)	Total (scfm)		
03/31/16	13:00	Johnston Ave, Steel City	1.170	Overcast	64.0	5 @ 17.3 mph	Residence	Intermittent garbage odor on property	3160	0	3160	4/5/2016	4/27/2016
04/22/16	23:23	Saucun Ave, Steel City	0.980	Overcast	66.0	SW @ 5.8mph	Residence	Strong odor on property	3148	0	3148	4/27/2016	4/27/2016
04/23/16	18:23	Saucun Ave, Steel City	0.980	Clear	73.0	Calm	Residence	Very strong odor of landfill gas & garbage on property	3137	0	3137	4/27/2016	4/27/2016

AE

Faulch, Amy

From: Allen Schleyer <allen.schleyer@progressivewaste.com>
Sent: Tuesday, May 10, 2016 9:07 AM
To: Faulch, Amy
Subject: FW: gas data from 4/27/16 inspection
Attachments: Bethlehem LF odor patrol logs 4-2016.pdf

Amy

3/31 @ 13:00 3160 SCFM
4/22 @ 23:23 3148 SCFM
4/25 @ 18:23 3137 SCFM

See attached for inspection logs.

Al

From: Faulch, Amy [<mailto:afaulch@pa.gov>]
Sent: Tuesday, May 10, 2016 8:05 AM
To: Allen Schleyer
Subject: gas data from 4/27/16 inspection

Hello Al,

Could you please send me the gas data (flare flows) and odor patrol logs for the following dates:

3/31
4/22
4/25

Once received, I will send out your inspection report.

Thank you,

Amy E. Faulch | Solid Waste Specialist
Department of Environmental Protection | Waste Management
Bethlehem District Office
4530 Bath Pike | Bethlehem, PA 18017
Phone: 610.861.2158 | Fax: 610.861.2072
www.dep.pa.gov

IESI PA BETHLEHEM LANDFILL ORDOR PATROL SURVEY - 2015

INITIALS	DATE	SURVEY LOCATION	TIME	ODOR INTENSITY S = Strong M = Moderate SL = Slight N = None	WIND DIRECTION	ODOR DESCRIPTION EG = Rotten Egg LFG = Landfill Gas G = Garbage S = Sewage D = Dredge O = Other (describe)	COMMENTS & OBSERVATIONS
MB	4-16	Seaver Paddock	9:05	N	SE	O	IT Rain Chimney Smoke
		M. KELL & THURSTON	9:13	N	"		
		DUNNAY & MYRA	9:16	N	"		
		RIVERSIDE & JEFFERSON	9:19	N	"		
MB	4-9-16	SANDON CATHASTIC	9:49	N	NE	O	Chimney Smoke
		SNYDER & ROBERTS	9:56	N	"		
		MYRA & THURSTON	9:57	N	"		
		ADAMS & M. KELL	9:59	N	"		
		RIVERSIDE & JEFFERSON	10:01	N	"		
MB	4-11-16	SANDON CATHASTIC	11:57	N	SSW		
		M. KELL & THURSTON	12:02	N	"		
		MYRA & JEFFERSON	12:06	N	"		
		RIVERSIDE & JEFFERSON	12:08	N	"		

IESI PA BETHLEHEM LANDFILL ORDOR PATROL SURVEY - 2015

INITIALS	DATE	SURVEY LOCATION	TIME	ODOR INTENSITY S = Strong M = Moderate SL = Slight N = None	WIND DIRECTION	ODOR DESCRIPTION EG = Rotten Egg LFG = Landfill Gas G = Garbage S = Sewage D = Dredge O = Other (describe)	COMMENTS & OBSERVATIONS
MBS	4-18-16	Riverside + Johnson	10:08	N	NNE		
		McKee + Adams	10:11	N	"		
		Johnson + McKee	10:13	N	"		
		Samson + Roberts	10:15	N	"		
MBS	4-22-16	Samson Dallasac	7:40	N	SSE		
		McKee + Johnson	7:51	N	"		
		McKee + Quincy	7:54	N	"		
		Adams + Johnson	7:56	N	"		
		Riverside + Johnson	7:58	N	"		
MBS	7-25-16	Samson Dallasac	8:23	N	ENE		
		Johnson + McKee	8:27	N	"		
		McKee + Adams	8:29	N	"		
		Riverside + Johnson	8:31	N	"		

IESI PA BETHLEHEM LANDFILL ORDOR PATROL SURVEY - 2015

INITIALS	DATE	SURVEY LOCATION	TIME	ODOR INTENSITY S = Strong M = Moderate SL = Slight N = None	WIND DIRECTION	ODOR DESCRIPTION EG = Rotten Egg LFG = Landfill Gas G = Garbage S = Sewage D = Dredge O = Other (describe)	COMMENTS & OBSERVATIONS
MBS	4-26-16	Sawmon Baldassar	8:04	N	E		
		MIKELL & THORNTON	8:11	N	EA		
		ADAMS & MIKELL	8:13	N	"		
		RIVERSIDE & JEFFERSON	8:15	N	"		
		NORTH PENNACOR RD @					
		WATER TOWER	8:53	SL	SE	G	OPEN WORK FACE
MBS	4-27-16	Sawmon Baldassar	8:36	N	EA/E		
		SHYDER & ROBERTS	8:39	N	"		
		JEFFERSON & MIKELL	8:44	N	"		
		RIVERSIDE & JEFFERSON	8:48	N	"		
MBS	7-29-16	Sawmon Baldassar	8:02	N	EWE		
		MIKELL & THORNTON	8:09	N	"		
		QUINCY & MIKELL	8:12	N	"		
		RIVERSIDE & JEFFERSON	8:15	N	"		

BETHLEHEM										
Day Number	Date	Total Daily Tonnage	ADC Tonnage	Month QDAT	Day of Quarter	Quarter Tonnage	Quarter QDAT	Remaining Days	Remaining Quarter Tonnage	
1	1-Apr	743.55	0.0	743.6	1	743.6	743.6	77	56,762.5	
2	2-Apr	931.03	0.0	1,674.63	2	1,674.63	1,674.63	76	55,831.5	
3	3-Apr	811.94	0.0	2,486.57	3	2,486.57	2,486.57	75	54,919.5	
4	4-Apr	726.64	0.0	3,213.21	4	3,213.21	3,213.21	74	54,192.8	
5	5-Apr	765.13	0.0	3,978.34	5	3,978.34	3,978.34	73	53,627.7	
6	6-Apr	584.47	0.0	4,562.81	6	4,562.81	4,562.81	72	53,043.2	
7	7-Apr	697.22	0.0	5,260.03	7	5,260.03	5,260.03	71	52,546.0	
8	8-Apr	1,177.19	0.0	6,437.22	8	6,437.22	6,437.22	70	52,128.8	
9	9-Apr	699.31	0.0	7,136.53	9	7,136.53	7,136.53	69	51,789.5	
10	10-Apr	708.97	0.0	7,845.50	10	7,845.50	7,845.50	68	51,520.5	
11	11-Apr	718.35	0.0	8,563.85	11	8,563.85	8,563.85	67	51,322.2	
12	12-Apr	720.36	0.0	9,284.21	12	9,284.21	9,284.21	66	51,183.8	
13	13-Apr	681.83	0.0	9,966.04	13	9,966.04	9,966.04	65	51,102.0	
14	14-Apr	1,157.86	0.0	11,123.90	14	11,123.90	11,123.90	64	51,075.2	
15	15-Apr	744.11	0.0	11,868.01	15	11,868.01	11,868.01	63	51,106.9	
16	16-Apr	849.11	0.0	12,717.12	16	12,717.12	12,717.12	62	51,203.8	
17	17-Apr	882.75	0.0	13,600.87	17	13,600.87	13,600.87	61	51,356.9	
18	18-Apr	897.80	0.0	14,498.67	18	14,498.67	14,498.67	60	51,566.2	
19	19-Apr	709.00	0.0	15,207.67	19	15,207.67	15,207.67	59	51,830.6	
20	20-Apr	2,243.66	0.0	17,451.33	20	17,451.33	17,451.33	58	52,160.2	
21	21-Apr	944.12	0.0	18,395.45	21	18,395.45	18,395.45	57	52,574.2	
22	22-Apr	884.72	0.0	19,280.17	22	19,280.17	19,280.17	56	53,000.1	
23	23-Apr			19,994.89	23			55	53,469.1	
24	24-Apr			20,638.61	24			54	53,988.4	
25	25-Apr			21,210.36	25			53	54,557.4	
26	26-Apr			21,719.15	26			52	55,176.4	
Month Total:		14,421.62	0.0							

BETHLEHEM LANDFILL
LEACHATE DEMAND REPORT
March

<u>Location</u>	<u>Total gallons</u>
LMC-6	13,621
LMC-7	20,338
LMC-8	42,954
LMC-10	2,070,000
PS-1	541,222
PS-2	80,438
PS-3	97,532
Phase-IV	719,192

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

Total Discharge

LMC-10	2,070,000
<u>Phase IV</u>	<u>719,192</u>
TOTAL	2,789,192 gallons

Total Leachate

Leachate	288,794
<u>Phase IV</u>	<u>719,192</u>
TOTAL	1,007,986 gallons

LMC-10 Flow – Abatement System Flow = Leachate System Flow (gallons).
 Abatement System Flow = 1,781,206 gallons (Neptune Flow meters)

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

Cc: Facility-sent via First Class Mail
BDO WM File- thru A. Faulch
Lower Saucon Township
A. Faulch (PDF)
D. Fisher (e-mail PDF)
AQ: T. Quinlivan/A. Schweitzer (e-mail PDF)
S. French (e-mail PDF)
T. McGurk (for hydrogeologist, email PDF)

IESI PA Bethlehem Landfill
ATT: Mr. Allen Schleyer
2335 Applebutter Road
Bethlehem, PA 18015