

**October 2015
Project No. 15-033**

REGULATION 30 PERMIT RENEWAL APPLICATION

**PERMIT NUMBER R30-MSWLGP-2011-
10700121**

**NORTHWESTERN LANDFILL, INC.
PARKERSBURG, WEST VIRGINIA**

PREPARED BY:

**MSES Consultants, Inc.
P.O. Drawer 190
Clarksburg, West Virginia 26302-0190
(304) 624-9700**

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WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL
PROTECTION

DIVISION OF AIR QUALITY

601 57th Street SE

Charleston, WV 25304

Phone: (304) 926-0475

www.dep.wv.gov/daq

INITIAL/RENEWAL TITLE V PERMIT APPLICATION - GENERAL FORMS

Section 1: General Information

1. Name of Applicant (As registered with the WV Secretary of State's Office): Northwestern Landfill, Inc.		2. Facility Name or Location: Parkersburg, WV	
3. DAQ Plant ID No.: 1 0 7 — 0 0 1 2 1		4. Federal Employer ID No. (FEIN): 5 2 2 0 2 3 4 5 8	
5. Permit Application Type: <input type="checkbox"/> Initial Permit <input checked="" type="checkbox"/> Permit Renewal <input type="checkbox"/> Update to Initial/Renewal Permit Application When did operations commence? MM/DD/YYYY What is the expiration date of the existing permit? 04/05/2016			
6. Type of Business Entity: <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Governmental Agency <input type="checkbox"/> Limited Partnership <input type="checkbox"/> LLC		7. Is the Applicant the: <input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Both If the Applicant is not both the owner and operator, please provide the name and address of the other party. _____ _____ _____	
8. Number of onsite employees: 12			
9. Governmental Code: <input checked="" type="checkbox"/> Privately owned and operated; 0 <input type="checkbox"/> Federally owned and operated; 1 <input type="checkbox"/> State government owned and operated; 2 <input type="checkbox"/> County government owned and operated; 3 <input type="checkbox"/> Municipality government owned and operated; 4 <input type="checkbox"/> District government owned and operated; 5			
10. Business Confidentiality Claims Does this application include confidential information (per 45CSR31)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, identify each segment of information on each page that is submitted as confidential, and provide justification for each segment claimed confidential, including the criteria under 45CSR§31-4.1, and in accordance with the DAQ's "PRECAUTIONARY NOTICE-CLAIMS OF CONFIDENTIALITY" guidance.			

11. Mailing Address		
Street or P.O. Box: 510 East Dry Run Road		
City: Parkersburg	State: WV	Zip: 26104-
Telephone Number: (304) 428-0602	Fax Number: (304) 428-7810	

12. Facility Location		
Street: 510 East Dry Run Road	City: Parkersburg	County: Wood
UTM Easting: 457.50 km	UTM Northing: 4,344.37 km	Zone: <input checked="" type="checkbox"/> 17 or <input type="checkbox"/> 18
Directions: I-77 to US Route 50. Take US Route 50 East to East Dry Run Road. Turn right and follow approximately 0.4 miles to landfill.		
Portable Source? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Is facility located within a nonattainment area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, for what air pollutants?
Is facility located within 50 miles of another state? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If yes, name the affected state(s). Ohio
Is facility located within 100 km of a Class I Area¹? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, name the area(s).
If no, do emissions impact a Class I Area¹? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
¹ Class I areas include Dolly Sods and Otter Creek Wilderness Areas in West Virginia, and Shenandoah National Park and James River Face Wilderness Area in Virginia.		

13. Contact Information		
Responsible Official: Douglas R. Hall, II		Title: Senior District Manager
Street or P.O. Box: 510 East Dry Run Road		
City: Parkersburg	State: WV	Zip: 26104-
Telephone Number: (304) 428-0602	Fax Number: (304) 428-7810	
E-mail address: dhall4@wm.com		
Environmental Contact: Jeff Bonaventura		Title: Engineer
Street or P.O. Box: 1488 Dawson Drive		
City: Bridgeport	State: WV	Zip: 26330-
Telephone Number: (304) 842-7010	Fax Number: (304) 842-4613	
E-mail address: jbonaven@wm.com		
Application Preparer: Lori Steele		Title: Senior Environmental Scientist
Company: MSES Consultants, Inc.		
Street or P.O. Box: PO Drawer 190		
City: Clarksburg	State: WV	Zip: 26302-0190
Telephone Number: (304) 624-9700	Fax Number: (304) 622-0981	
E-mail address: lsteele@msesinc.com		

14. Facility Description

List all processes, products, NAICS and SIC codes for normal operation, in order of priority. Also list any process, products, NAICS and SIC codes associated with any alternative operating scenarios if different from those listed for normal operation.

Process	Products	NAICS	SIC
Sanitary Landfill	Waste Disposal	562212	4953

Provide a general description of operations.

Northwestern Landfill is a municipal solid waste landfill that began operation in 1975. Northwestern Landfill, Inc. owns 349 acres of land bordered by US Route 50 to the North and I-77 to the West. The facility has 133.21 acres permitted for the disposal of solid waste, and it receives approximately 15,000 to 25,000 tons of waste per month. Waste is brought to the landfill by truck and disposed of. The waste is spread and compacted with soil placed over the active area each day for cover.

15. Provide an **Area Map** showing plant location as **ATTACHMENT A**.

16. Provide a **Plot Plan(s)**, e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is located as **ATTACHMENT B**. For instructions, refer to "Plot Plan - Guidelines."

17. Provide a detailed **Process Flow Diagram(s)** showing each process or emissions unit as **ATTACHMENT C**. Process Flow Diagrams should show all emission units, control equipment, emission points, and their relationships.

Section 2: Applicable Requirements

18. Applicable Requirements Summary	
Instructions: Mark all applicable requirements.	
<input type="checkbox"/> SIP	<input type="checkbox"/> FIP
<input checked="" type="checkbox"/> Minor source NSR (45CSR13)	<input type="checkbox"/> PSD (45CSR14)
<input type="checkbox"/> NESHAP (45CSR34)	<input type="checkbox"/> Nonattainment NSR (45CSR19)
<input checked="" type="checkbox"/> Section 111 NSPS	<input checked="" type="checkbox"/> Section 112(d) MACT standards
<input type="checkbox"/> Section 112(g) Case-by-case MACT	<input type="checkbox"/> 112(r) RMP
<input type="checkbox"/> Section 112(i) Early reduction of HAP	<input type="checkbox"/> Consumer/commercial prod. reqts., section 183(e)
<input type="checkbox"/> Section 129 Standards/Reqts.	<input type="checkbox"/> Stratospheric ozone (Title VI)
<input type="checkbox"/> Tank vessel reqt., section 183(f)	<input type="checkbox"/> Emissions cap 45CSR§30-2.6.1
<input type="checkbox"/> NAAQS, increments or visibility (temp. sources)	<input type="checkbox"/> 45CSR27 State enforceable only rule
<input checked="" type="checkbox"/> 45CSR4 State enforceable only rule	<input type="checkbox"/> Acid Rain (Title IV, 45CSR33)
<input type="checkbox"/> Emissions Trading and Banking (45CSR28)	<input type="checkbox"/> Compliance Assurance Monitoring (40CFR64)
<input type="checkbox"/> CAIR NO _x Annual Trading Program (45CSR39)	<input type="checkbox"/> CAIR NO _x Ozone Season Trading Program (45CSR40)
<input type="checkbox"/> CAIR SO ₂ Trading Program (45CSR41)	

19. Non Applicability Determinations
<p>List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.</p> <p>40CFR60.757(a)(3). The design capacity of this facility is greater than 2.5 million megagrams and 2.5 million cubic meters. Therefore, amended design capacity reports are not required.</p> <p>40CFR64. The facility does not have a pollutant specific emissions unit with a control device to meet an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.</p> <p>40 CFR 63, Subpart AAAA—NESHAP for Municipal Solid Waste Landfills: This facility is not subject to AAAA because: This MSW landfill is not a major source of HAPs; The MSW landfill is not collocated with a major source of HAPs; The MSW landfill is an area source with a design capacity equal to or greater than 2.5 million megagrams (Mg) and 2.5 million cubic meters (m³) and has estimated uncontrolled emissions less than 50 megagrams per year (Mg/yr) NMOC; This MSW landfill does not include a bioreactor, as defined in 40 C.F.R. §63.1990.</p>
<input checked="" type="checkbox"/> Permit Shield

19. Non Applicability Determinations (Continued) - Attach additional pages as necessary.

List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.

☒ Permit Shield

20. Facility-Wide Applicable Requirements

List all facility-wide applicable requirements. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements).

45CSR6-3.1., R13-2592B, 3.1.1. Open burning prohibited.
45CSR6-3.2., R13-2592B, 3.1.2. Open burning exemptions.
40 CFR 61 and 45CSR15, R13-2592B, 3.1.3 Asbestos.
45CSR4-3.1, R13-2592B, 3.1.4., State-Enforceable only. Odors.
45CSR13-10.5., R13-2592B, 3.1.5. Permanent shutdown.
45CSR11-5.2, R13-2592B, 3.1.6. Standby plan for reducing emissions.
40 CFR 82 Subpart F. Ozone-depleting substances.
40 CFR 68. Risk management plan.
45CSR17-3.1. No fugitive particulate matter beyond the boundary lines of the property.
40 CFR 98, Subpart HH. Mandatory Reporting of Greenhouse Gases.

☒ Permit Shield

For all facility-wide applicable requirements listed above, provide monitoring/testing / recordkeeping / reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

WV Code 22-5-4(a)(15) and R13-2592B, 3.3.1. Testing requirements.
45CSR30-5.1.c.2.A., R13-2592B, 4.4.1. Keep records of monitoring information.
45CSR30-5.1.c.2.B., R13-2592B, 3.4.1. Keep records of all required monitoring data and support information for at least five (5) years.
45CSR30-5.1.c., R13-2592B, 3.4.2., 45CSR4. State-enforceable only. Maintain a record of all odor complaints received.
45CSR30-5.1.c. Maintain records of the use of any dust suppressants or other suitable dust control measures applied.
45CSR30-4.4 and 5.1.c.3.D., R13-2592B, 3.5.1. Responsible official shall certify any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA.
45CSR30-5.1.c.3.E., R13-2592B, 3.5.2. A permittee may request confidential treatment for the submission of reporting required under 45CSR30-5.1.c.3. pursuant to the limitations and procedures of W.Va. Code 22-5-10 and 45CSR31.
W.Va. Code 22-5-4(a)(14), R13-2592B, 3.5.5. Emission inventory.
45CSR30-8., R13-2666A, 3.5.4.1. Certified emissions statement.
45CSR30-5.3.e. Submit compliance certification to the DAQ and USEPA on or before March 15 of each year for the period ending December 31.
45CSR30-5.1.c.3.A. Submit semi-annual monitoring reports March 15 for period of July 1 through December 31 and September 15 for period of January 1 through June 30.
45CSR30-5.1.c.3.C. Promptly report deviations resulting from an emergency or upset condition.
45CSR30-5.1.c.3.B. Include probable cause, corrective

Are you in compliance with all facility-wide applicable requirements? ☒ Yes ☐ No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

20. Facility-Wide Applicable Requirements (Continued) - Attach additional pages as necessary.

List all facility-wide applicable requirements. For each applicable requirement, include the rule citation and/or permit with the condition number.

☒ Permit Shield

For all facility-wide applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

40CFR98.343 Calculating GHG emissions.

40CFR98.344 Monitoring and QA/QC requirements.

40CFR98.346 Data reporting requirements.

40CFR98.347 Records that must be retained.

Are you in compliance with all facility-wide applicable requirements? ☐ Yes ☐ No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

21. Active Permits/Consent Orders

[illegible]

22. Inactive Permits/Obsolete Permit Conditions

[illegible]

Section 3: Facility-Wide Emissions

23. Facility-Wide Emissions Summary [Tons per Year]	
Criteria Pollutants	Potential Emissions
Carbon Monoxide (CO)	153.53
Nitrogen Oxides (NO _x)	27.51
Lead (Pb)	
Particulate Matter (PM _{2.5}) ¹	22.94
Particulate Matter (PM ₁₀) ¹	37.55
Total Particulate Matter (TSP)	199.03
Sulfur Dioxide (SO ₂)	6.96
Volatile Organic Compounds (VOC)	25.54
Hazardous Air Pollutants ²	Potential Emissions
Total	14.43
Regulated Pollutants other than Criteria and HAP	Potential Emissions
Carbon Dioxide	32,054
Methane	11,558
NMOC	496.78 Mg
¹ PM _{2.5} and PM ₁₀ are components of TSP. ² For HAPs that are also considered PM or VOCs, emissions should be included in both the HAPs section and the Criteria Pollutants section.	

Section 4: Insignificant Activities

24. Insignificant Activities (Check all that apply)	
<input checked="" type="checkbox"/>	1. Air compressors and pneumatically operated equipment, including hand tools.
<input checked="" type="checkbox"/>	2. Air contaminant detectors or recorders, combustion controllers or shutoffs.
<input checked="" type="checkbox"/>	3. Any consumer product used in the same manner as in normal consumer use, provided the use results in a duration and frequency of exposure which are not greater than those experienced by consumer, and which may include, but not be limited to, personal use items; janitorial cleaning supplies, office supplies and supplies to maintain copying equipment.
<input checked="" type="checkbox"/>	4. Bathroom/toilet vent emissions.
<input checked="" type="checkbox"/>	5. Batteries and battery charging stations, except at battery manufacturing plants.
<input checked="" type="checkbox"/>	6. Bench-scale laboratory equipment used for physical or chemical analysis, but not lab fume hoods or vents. Many lab fume hoods or vents might qualify for treatment as insignificant (depending on the applicable SIP) or be grouped together for purposes of description.
<input checked="" type="checkbox"/>	7. Blacksmith forges.
<input checked="" type="checkbox"/>	8. Boiler water treatment operations, not including cooling towers.
<input checked="" type="checkbox"/>	9. Brazing, soldering or welding equipment used as an auxiliary to the principal equipment at the source.
<input checked="" type="checkbox"/>	10. CO ₂ lasers, used only on metals and other materials which do not emit HAP in the process.
<input checked="" type="checkbox"/>	11. Combustion emissions from propulsion of mobile sources, except for vessel emissions from Outer Continental Shelf sources.
<input checked="" type="checkbox"/>	12. Combustion units designed and used exclusively for comfort heating that use liquid petroleum gas or natural gas as fuel.
<input checked="" type="checkbox"/>	13. Comfort air conditioning or ventilation systems not used to remove air contaminants generated by or released from specific units of equipment.
<input checked="" type="checkbox"/>	14. Demineralized water tanks and demineralizer vents.
<input type="checkbox"/>	15. Drop hammers or hydraulic presses for forging or metalworking.
<input checked="" type="checkbox"/>	16. Electric or steam-heated drying ovens and autoclaves, but not the emissions from the articles or substances being processed in the ovens or autoclaves or the boilers delivering the steam.
<input type="checkbox"/>	17. Emergency (backup) electrical generators at residential locations.
<input checked="" type="checkbox"/>	18. Emergency road flares.
<input type="checkbox"/>	<p>19. Emission units which do not have any applicable requirements and which emit criteria pollutants (CO, NO_x, SO₂, VOC and PM) into the atmosphere at a rate of less than 1 pound per hour and less than 10,000 pounds per year aggregate total for each criteria pollutant from all emission units.</p> <p>Please specify all emission units for which this exemption applies along with the quantity of criteria pollutants emitted on an hourly and annual basis:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>

24. Insignificant Activities (Check all that apply)

<input type="checkbox"/>	20. Emission units which do not have any applicable requirements and which emit hazardous air pollutants into the atmosphere at a rate of less than 0.1 pounds per hour and less than 1,000 pounds per year aggregate total for all HAPs from all emission sources. This limitation cannot be used for any source which emits dioxin/furans nor for toxic air pollutants as per 45CSR27. Please specify all emission units for which this exemption applies along with the quantity of hazardous air pollutants emitted on an hourly and annual basis: _____ _____ _____ _____ _____
<input checked="" type="checkbox"/>	21. Environmental chambers not using hazardous air pollutant (HAP) gases.
<input checked="" type="checkbox"/>	22. Equipment on the premises of industrial and manufacturing operations used solely for the purpose of preparing food for human consumption.
<input checked="" type="checkbox"/>	23. Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment.
<input checked="" type="checkbox"/>	24. Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.
<input checked="" type="checkbox"/>	25. Equipment used for surface coating, painting, dipping or spray operations, except those that will emit VOC or HAP.
<input checked="" type="checkbox"/>	26. Fire suppression systems.
<input checked="" type="checkbox"/>	27. Firefighting equipment and the equipment used to train firefighters.
<input checked="" type="checkbox"/>	28. Flares used solely to indicate danger to the public.
<input checked="" type="checkbox"/>	29. Fugitive emission related to movement of passenger vehicle provided the emissions are not counted for applicability purposes and any required fugitive dust control plan or its equivalent is submitted.
<input checked="" type="checkbox"/>	30. Hand-held applicator equipment for hot melt adhesives with no VOC in the adhesive formulation.
<input checked="" type="checkbox"/>	31. Hand-held equipment for buffing, polishing, cutting, drilling, sawing, grinding, turning or machining wood, metal or plastic.
<input type="checkbox"/>	32. Humidity chambers.
<input checked="" type="checkbox"/>	33. Hydraulic and hydrostatic testing equipment.
<input checked="" type="checkbox"/>	34. Indoor or outdoor kerosene heaters.
<input checked="" type="checkbox"/>	35. Internal combustion engines used for landscaping purposes.
<input checked="" type="checkbox"/>	36. Laser trimmers using dust collection to prevent fugitive emissions.
<input checked="" type="checkbox"/>	37. Laundry activities, except for dry-cleaning and steam boilers.
<input checked="" type="checkbox"/>	38. Natural gas pressure regulator vents, excluding venting at oil and gas production facilities.
<input checked="" type="checkbox"/>	39. Oxygen scavenging (de-aeration) of water.
<input checked="" type="checkbox"/>	40. Ozone generators.

24. Insignificant Activities (Check all that apply)	
<input checked="" type="checkbox"/>	41. Plant maintenance and upkeep activities (e.g., grounds-keeping, general repairs, cleaning, painting, welding, plumbing, re-tarring roofs, installing insulation, and paving parking lots) provided these activities are not conducted as part of a manufacturing process, are not related to the source's primary business activity, and not otherwise triggering a permit modification. (Cleaning and painting activities qualify if they are not subject to VOC or HAP control requirements. Asphalt batch plant owners/operators must still get a permit if otherwise requested.)
<input checked="" type="checkbox"/>	42. Portable electrical generators that can be moved by hand from one location to another. "Moved by Hand" means that it can be moved without the assistance of any motorized or non-motorized vehicle, conveyance, or device.
<input checked="" type="checkbox"/>	43. Process water filtration systems and demineralizers.
<input checked="" type="checkbox"/>	44. Repair or maintenance shop activities not related to the source's primary business activity, not including emissions from surface coating or de-greasing (solvent metal cleaning) activities, and not otherwise triggering a permit modification.
<input checked="" type="checkbox"/>	45. Repairs or maintenance where no structural repairs are made and where no new air pollutant emitting facilities are installed or modified.
<input checked="" type="checkbox"/>	46. Routing calibration and maintenance of laboratory equipment or other analytical instruments.
<input type="checkbox"/>	47. Salt baths using nonvolatile salts that do not result in emissions of any regulated air pollutants. Shock chambers.
<input type="checkbox"/>	48. Shock chambers.
<input type="checkbox"/>	49. Solar simulators.
<input checked="" type="checkbox"/>	50. Space heaters operating by direct heat transfer.
<input checked="" type="checkbox"/>	51. Steam cleaning operations.
<input checked="" type="checkbox"/>	52. Steam leaks.
<input checked="" type="checkbox"/>	53. Steam sterilizers.
<input checked="" type="checkbox"/>	54. Steam vents and safety relief valves.
<input checked="" type="checkbox"/>	55. Storage tanks, reservoirs, and pumping and handling equipment of any size containing soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized.
<input checked="" type="checkbox"/>	56. Storage tanks, vessels, and containers holding or storing liquid substances that will not emit any VOC or HAP. Exemptions for storage tanks containing petroleum liquids or other volatile organic liquids should be based on size limits such as storage tank capacity and vapor pressure of liquids stored and are not appropriate for this list.
<input type="checkbox"/>	57. Such other sources or activities as the Director may determine.
<input checked="" type="checkbox"/>	58. Tobacco smoking rooms and areas.
<input checked="" type="checkbox"/>	59. Vents from continuous emissions monitors and other analyzers.

Section 5: Emission Units, Control Devices, and Emission Points

25. Equipment Table

Fill out the **Title V Equipment Table** and provide it as **ATTACHMENT D**.

26. Emission Units

For each emission unit listed in the **Title V Equipment Table**, fill out and provide an **Emission Unit Form** as **ATTACHMENT E**.

For each emission unit not in compliance with an applicable requirement, fill out a **Schedule of Compliance Form** as **ATTACHMENT F**.

27. Control Devices

For each control device listed in the **Title V Equipment Table**, fill out and provide an **Air Pollution Control Device Form** as **ATTACHMENT G**.

For any control device that is required on an emission unit in order to meet a standard or limitation for which the potential pre-control device emissions of an applicable regulated air pollutant is greater than or equal to the Title V Major Source Threshold Level, refer to the **Compliance Assurance Monitoring (CAM) Form(s)** for CAM applicability. Fill out and provide these forms, if applicable, for each Pollutant Specific Emission Unit (PSEU) as **ATTACHMENT H**.

Section 6: Certification of Information**28. Certification of Truth, Accuracy and Completeness and Certification of Compliance**

*Note: This Certification must be signed by a responsible official. The **original**, signed in **blue ink**, must be submitted with the application. Applications without an **original** signed certification will be considered as incomplete.*

a. Certification of Truth, Accuracy and Completeness

I certify that I am a responsible official (as defined at 45CSR§30-2.38) and am accordingly authorized to make this submission on behalf of the owners or operators of the source described in this document and its attachments. I certify under penalty of law that I have personally examined and am familiar with the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine and/or imprisonment.

b. Compliance Certification

Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.

Responsible official (type or print)

Name: Douglas R. Hall, II

Title: Senior District Manager

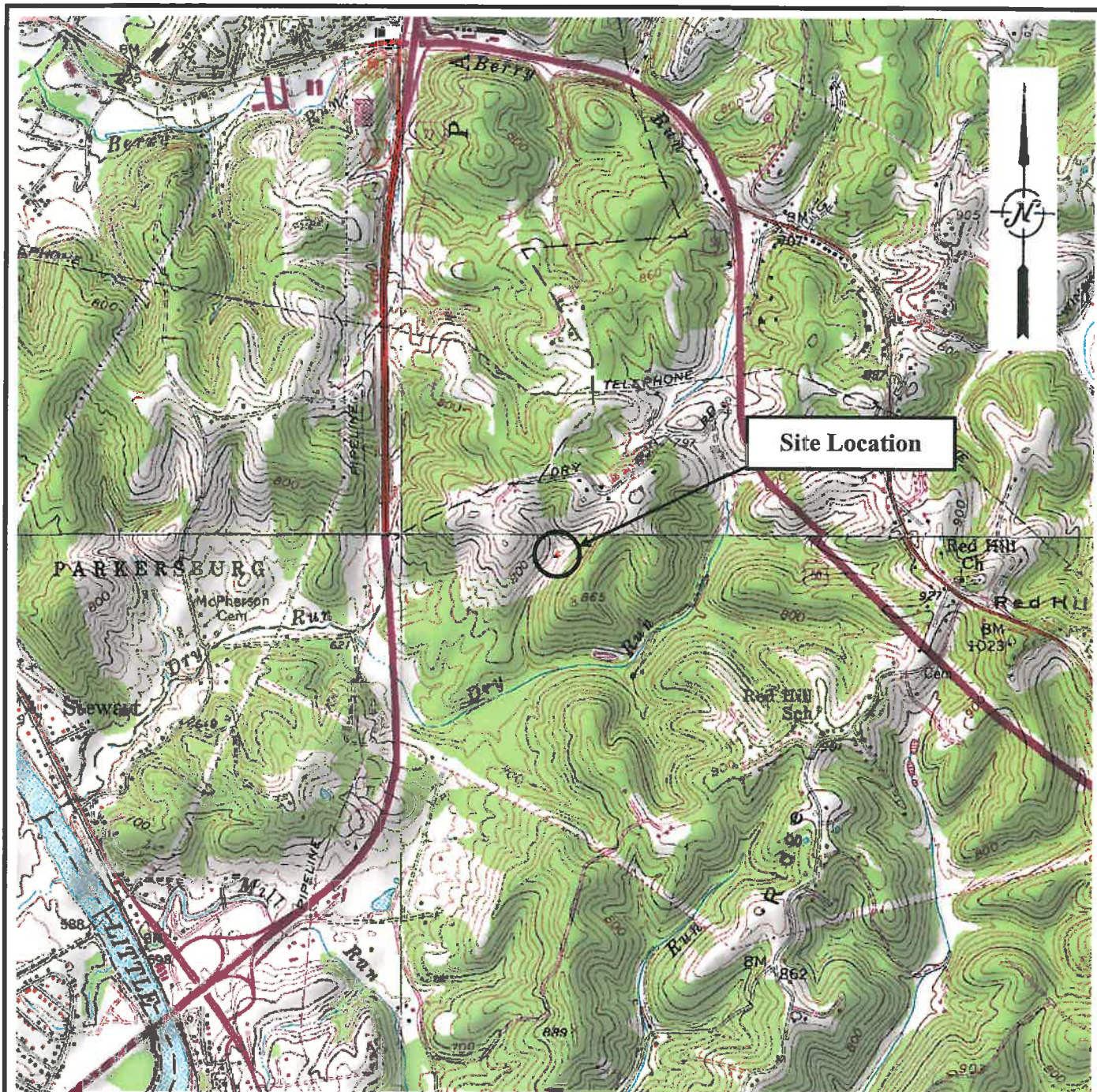
Responsible official's signature:

Signature: _____ Signature Date: _____
(Must be signed and dated in blue ink)

Note: Please check all applicable attachments included with this permit application:☒ ATTACHMENT A: Area Map☒ ATTACHMENT B: Plot Plan(s)☒ ATTACHMENT C: Process Flow Diagram(s)☒ ATTACHMENT D: Equipment Table☒ ATTACHMENT E: Emission Unit Form(s)☐ ATTACHMENT F: Schedule of Compliance Form(s)☒ ATTACHMENT G: Air Pollution Control Device Form(s)☐ ATTACHMENT H: Compliance Assurance Monitoring (CAM) Form(s)

All of the required forms and additional information can be found and downloaded from, the DEP website at www.dep.wv.gov/dag, requested by phone (304) 926-0475, and/or obtained through the mail.

ATTACHMENT A
Area Map



Reference:
 3-D TopoQuads © DeLorme,
 Yarmouth, Me 04096
 Source Data:
 7.5 Minute USGS
 Topographic Quadrangles
 Kanawha, WV
 Valley Mills, WV
 Parkersburg, WV
 South Parkersburg, WV

Vicinity Map

Scale 1" = 2000'

MSES Consultants, Inc.
 Clarksburg, West Virginia

**NORTHWESTERN
 LANDFILL, INC.
 PLANT ID # 107-00121
 PARKERSBURG, WV**

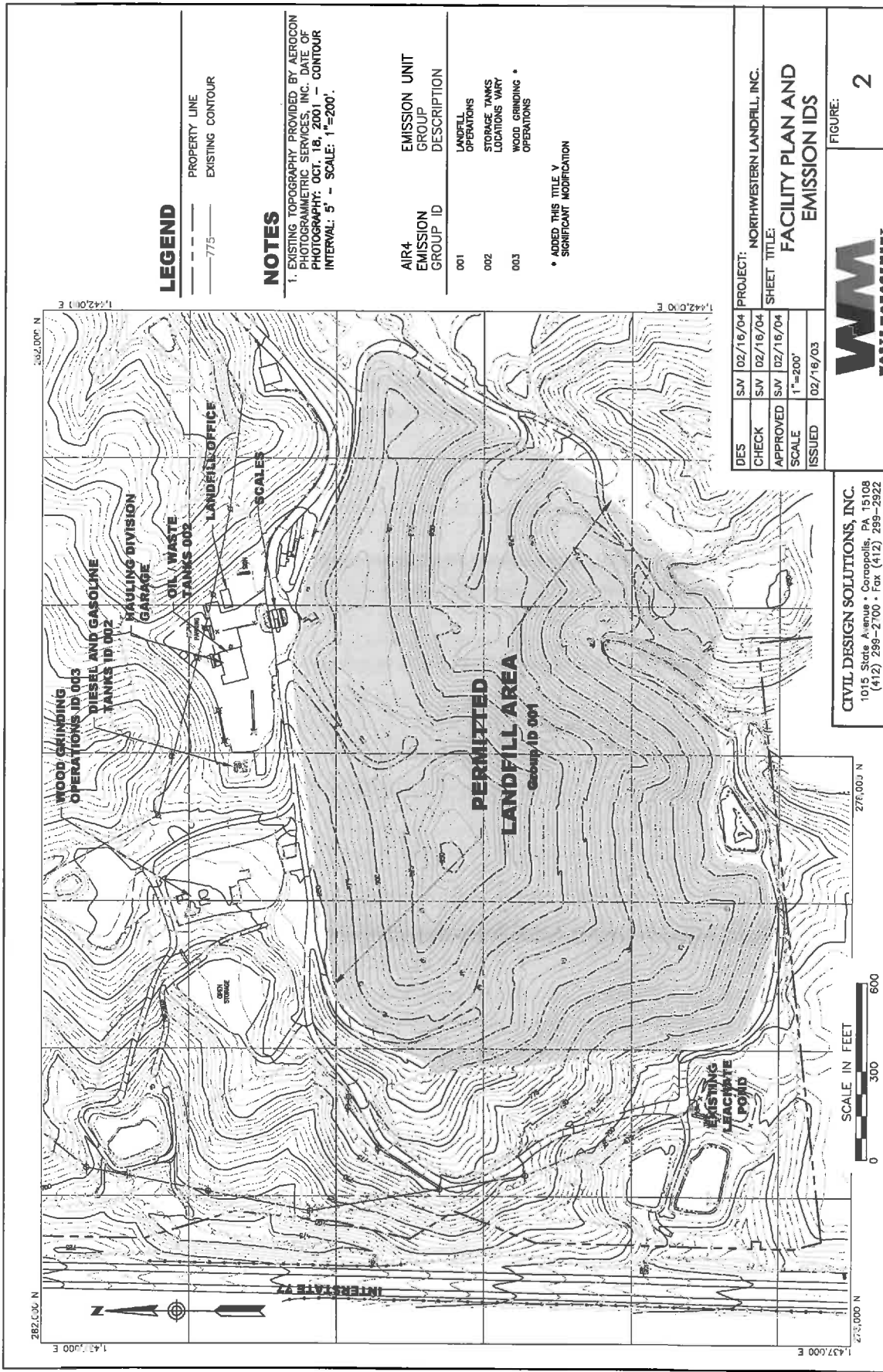
**REGULATION 30 PERMIT
 RENEWAL**

Project No. 15-033

Figure 1

ATTACHMENT B

Plot Plan(s)



LEGEND

- PROPERTY LINE
- 775--- EXISTING CONTOUR

NOTES

1. EXISTING TOPOGRAPHY PROVIDED BY AEROGON PHOTOGRAMMETRIC SERVICES, INC. DATE OF PHOTOGRAPHY: OCT. 18, 2001 -- CONTOUR INTERVAL: 5' -- SCALE: 1"=200'

AIR4 EMISSION GROUP ID	EMISSION UNIT GROUP DESCRIPTION
001	LANDFILL OPERATIONS
002	STORAGE TANKS LOCATIONS VARY
003	WOOD GRINDING • OPERATIONS

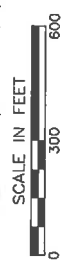
• ADDED THIS TITLE V
SIGNIFICANT MODIFICATION

DES	SJV	02/16/04	PROJECT:	NORTHWESTERN LANDFILL, INC.
CHECK	SJV	02/16/04	SHEET TITLE:	
APPROVED	SJV	02/16/04	FACILITY PLAN AND EMISSION IDS	
SCALE	1"=200'			
ISSUED	02/16/03			



CIVIL DESIGN SOLUTIONS, INC.
1015 State Avenue • Coraopolis, PA 15108
(412) 299-2700 • Fax (412) 299-2922



FIGURE: 2

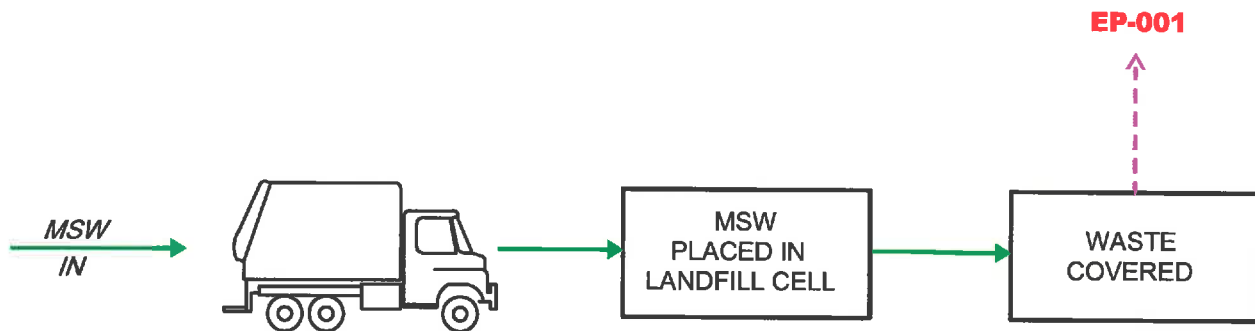


ATTACHMENT C

Process Flow Diagram(s)

LEGEND

-  PROCESS FLOW
-  FUGITIVE EMISSIONS
- EP-001** EMISSION POINT



NORTHWESTERN LANDFILL, INC.

Regulation 30 Permit Application Facility Process Flow Diagram

Drawn by	RLR / SARC	10/10
Engineer	JJK / LLS	10/10
Checked by	JJK / LLS	10/10
		Date

Scale
NONE

**Attachment C
FIGURE 3**

Prepared by **MSES consultants, inc.**

ATTACHMENT D

Emission Units Table

ATTACHMENT D - Emission Units Table
(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Unit ID ¹	Emission Point ID ¹	Emission Unit Description	Year Installed/Modified	Design Capacity	Control Device ¹
01-C1	E001	Phase I Area – Inactive	1991	931,000 Mg	None
01-C2	E001	North Slope Area – Closed and Capped	1975	185,250 Mg	None
01-C3	E001	Central Area – Closed and Capped	1975	775,730 Mg	None
01-C4	E001	West Slope Area – Closed and Capped	1975	354,880 Mg	None
01-A1	E001	Phase 2 Area - Active	1996	50,000 Mg	None
01-F1	E001	Phase 2 (Remaining) – Future Area	Proposed	1,620,000 Mg	None
1-A	1-A	Diesel fuel storage tank		10,000 gal	None
1-B	1-B	Diesel fuel storage tank		6,000 gal	None
3a & 3b	3a & 3b	Oil/water storage tank	1993 & 2003	1,000 gal each	None
4-A	4-A	Waste oil storage tank	1993	2,000 gal	None
4-B1	4-B1	Lubricant tank	1993	500 gal	None
4-B2	4-B2	Lubricant tank	1993	275 gal	None
4-B3	4-B3	Lubricant tank	1993	275 gal	None
4-B4	4-B4	Lubricant tank	1993	275 gal	None
6	6	Leachate	1995	2,250 gal	None
7	7	Leachate	1995	2,250 gal	None
8	8	Leachate	1995	2,250 gal	None
9	9	Waste oil	1992	1,200 gal	None
14A1 – 14A4	14A1 - 14A4	Lube Oil (4-300 gal tanks on mobile fuel truck)	1992	300 gal each	None
14B	14B	Diesel fuel	1992	800 gal	None
12A, B, C	12A, B, C	Water from tire wash	1996	3,700 gal	None
LFG-1	LFG-1	Landfill Gas Flare	2010	3,000 scfm	Flare
004	E004	Used Oil Burner		0.5 mmbtu/hr	None

¹For 45CSR13 permitted sources, the numbering system used for the emission points, control devices, and emission units should be consistent with the numbering system used in the 45CSR13 permit. For grandfathered sources, the numbering system should be consistent with registrations or emissions inventory previously submitted to DAQ. For emission points, control devices, and emissions units which have not been previously labeled, use the following 45CSR13 numbering system: 1S, 2S, 3S,... or other appropriate description for emission units; 1C, 2C, 3C,... or other appropriate designation for control devices; 1E, 2E, 3E, ... or other appropriate designation for emission points.

ATTACHMENT E

Emission Unit Form(s)

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: 01-C1, 01-C2, 01-C3, 01-C4, 01-A1, 01-F1	Emission unit name: Landfill Operations	List any control devices associated with this emission unit: None
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Phase 1, Central Area, North and West Slope areas closed and capped, Active Phase 2 Area, and remaining Phase 2 Area

Manufacturer: NA	Model number: NA	Serial number: NA
Construction date: 1975	Installation date: MM/DD/YYYY	Modification date(s): MM/DD/YYYY

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): approximately 4,366,860 Mg

Maximum Hourly Throughput:	Maximum Annual Throughput: 300,000 tons of waste disposed	Maximum Operating Schedule: 24 hr/day, 365 days/year
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input type="checkbox"/> Direct Fired
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Maximum design heat input and/or maximum horsepower rating: NA	Type and Btu/hr rating of burners: NA
--	---

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

NA

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
NA			

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		5.65
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		16.12
Particulate Matter (PM ₁₀)		30.72
Total Particulate Matter (TSP)		192.20
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		22.88
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Total		14.43
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Carbon Dioxide		31,712
Methane		11,558
Hydrogen Sulfide		1.77
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>USEPA LandGEM 3.02 software with regulatory default values, and AP-42 Chapters 11.9.1, 13.2.1, 11.2.2, and 11.2.4.</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

45CSR23, 40CFR60.757, and 40CFR60.754(a)(3). Requirements When Reported NMOC Emission Rate is \geq 50 Mg/yr.

45CSR23, 40CFR60.757, and 40CFR60.754(a)(4). Requirements When Reported NMOC Emission Rate is \geq 50 Mg/yr. (when using site specific C_{NMOC})

45CSR23, 40CFR60.752, and 40CFR60.753. Design parameters for a landfill gas collection and control system which conforms to 40CFR60.759.

45CSR23, 40CFR60.757(c). LFG Collection and Control System Design Plan.

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For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

45CSR23, 40CFR60.758. Maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit.

45CSR23, 40CFR60.757(b). Annual NMOC Emission Report.

45CSR23, 40CFR60.757(b)(1)(ii). 5-year NMOC Report and Revision of 5-year NMOC Report.

45CSR23, 40CFR60.757(d) and 40CFR60.758. Closure Report

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:

1-A, 1-B, 2, 3a, 3b, 4-A, 4-B1, 4-B2,
4-B3, 4-B4, 14A1-14A4, 14B, 12A-C

Emission unit name:

Storage Tanks

List any control devices associated with this emission unit:

NA

Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Storage vessels containing diesel fuel, waste oil, lube oil and lubricants, unleaded gasoline, oil/water, and water

Manufacturer:

Model number:

Serial number:

Construction date:

MM/DD/YYYY

Installation date:

1992 - 2003

Modification date(s):

MM/DD/YYYY

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 300 to 10,000 gallons

Maximum Hourly Throughput:

Maximum Annual Throughput:

Maximum Operating Schedule:
24 hrs/day, 365 days/year

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes X No

If yes, is it?

___ Indirect Fired ___ Direct Fired

Maximum design heat input and/or maximum horsepower rating:

NA

Type and Btu/hr rating of burners:

NA

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

NA

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
NA			

Emissions Data

Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		0.55
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

USEPA TANKS 4.09

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

 X Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

None

Are you in compliance with all applicable requirements for this emission unit? X Yes No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:

6, 7, and 8

Emission unit name:

Leachate Tanks

List any control devices associated with this emission unit:

NA

Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Storage vessels containing leachate

Manufacturer:

Model number:

Serial number:

Construction date:

1995

Installation date:

MM/DD/YYYY

Modification date(s):

MM/DD/YYYY

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 2,250 gallons each

Maximum Hourly Throughput:

Maximum Annual Throughput:

Maximum Operating Schedule:

24 hrs/day, 365 days/year

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ___ Yes X No

If yes, is it?

___ Indirect Fired ___ Direct Fired

Maximum design heat input and/or maximum horsepower rating:

NA

Type and Btu/hr rating of burners:

NA

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

NA

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
NA			

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Lead (Pb)		
Particulate Matter (PM _{2.5})		
Particulate Matter (PM ₁₀)		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		1.0
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

USEPA TANKS 4.0

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

None

 X Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

None

Are you in compliance with all applicable requirements for this emission unit? X Yes No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:

LFG-1

Emission unit name:

Landfill Gas Flare

List any control devices associated with this emission unit:

Flare LFG-1

Provide a description of the emission unit (type, method of operation, design parameters, etc.):

The flares are mounted to a landfill gas vent. The purpose of the flares is to provide improved odor control at the facility. The flare is equipped with a solar panel and battery. A charge is stored in the battery that is connected to a spark plug. The spark ignites the combustible gas.

Manufacturer:

Parnel Biogas, Inc.

Model number:

None

Serial number:

Construction date:

2010

Installation date:

2010

Modification date(s):

MM/DD/YYYY

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 3000 scfm of landfill gas

Maximum Hourly Throughput:

180,000 cubic feet per hour

Maximum Annual Throughput:

1,576.8 mmscf/yr each

Maximum Operating Schedule:

8760 hours/year

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ☒ Yes ☐ No

If yes, is it?

☐ Indirect Fired ☒ Direct Fired

Maximum design heat input and/or maximum horsepower rating:

Type and Btu/hr rating of burners:

NA

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

180,000 cubic feet per hour of landfill gas.

1,576.8 mmscf per year of landfill gas.

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Landfill Gas	NA	NA	507

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	33.73	147.8
Nitrogen Oxides (NO _x)	6.2	27.2
Lead (Pb)		
Particulate Matter (PM _{2.5})	1.53	6.7
Particulate Matter (PM ₁₀)	1.53	6.7
Total Particulate Matter (TSP)	1.53	6.7
Sulfur Dioxide (SO ₂)	1.49	6.5
Volatile Organic Compounds (VOC)	0.48	2.1
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Hydrogen Chloride	1.26	5.5
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Manufacturer's emissions data and AP-42 Chapter 2.4

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

R13-2592B, 4.1.1. Flare emissions shall not exceed the following limits: 6.20 lb/hr and 27.2 tpy of nitrogen oxides, 33.73 lb/hr and 147.8 tpy of carbon monoxide, 1.53 lb/hr and 6.7 tpy of PM/PM₁₀/PM_{2.5}, 1.49 lb/hr and 6.5 tpy of sulfur dioxide, 0.48 lb/hr and 2.1 tpy of volatile organic compounds, and 1.26 lb/hr and 5.5 tpy of hydrogen chloride. The annual amount of landfill gas flared shall not exceed 1,576.8 MMscf per year. Install and maintain a system/device that continually measures and records the total amount of landfill gas routed to the flare at all times. Operate the flare with a flame present at all times while landfill gas is routed to the flare. Monitor the presence of a pilot light or flame. Design and install the gas collection system and flare in accordance with "Good Engineering Practices." No visible emissions except for a total of five (5) minutes during any two (2) consecutive hours.

45CSR13-5.11., R13-2592B, 4.1.2. Install, maintain, and operate all pollution control equipment and associated monitoring equipment in a manner consistent with safety and good air pollution control practices.

 X Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

R13-2592B, 4.2.1. Monthly Method 22 visible emission checks shall be conducted to determine compliance with opacity limits with a maximum of forty-five (45) days between consecutive readings.

R13-2592B, 4.2.2. The permittee shall monitor the presence or absence of a flame using a thermocouple or any other equivalent device.

R13-2592B, 4.2.3. The permittee shall record the total amount of landfill gas routed to LFG-1 on a monthly basis and determine the 12-month rolling total to demonstrate compliance with the air emission limits and to determine actual emissions. Records of such monitoring shall be maintained in accordance with the facility-wide requirements of this permit.

R13-2592B, 4.4.1. The permittee shall keep records of monitoring information including the date, place and time of each measurement; the date(s) analyses were performed; the company or entity that performed the analyses; the analytical techniques or methods used; the results of the analyses; and the operating conditions existing at the time of sampling or measurement.

R13-2592B, 4.4.2. The permittee shall maintain accurate records of all required pollution control equipment inspection and/or preventative maintenance procedures.

R13-2592B, 4.4.3. The permittee shall maintain records of the occurrence and duration of any malfunction or operational shutdown of the air pollution control equipment during which excess emissions occur. The records shall include the equipment involved; steps taken to minimize emissions during the event; duration of the event; estimated increase in emissions during the event; cause of the malfunction; steps taken to correct the malfunction; and any changes or modifications to equipment or procedures that would prevent future recurrences of the malfunction.

R13-2592B, 4.4.4. The permittee shall maintain records of all monitoring data required, documenting the time of each visible emission check, the emission point or equipment/source identification number, the name or means of identification of the observer, the results of the check(s), whether the visible emissions are normal for the process, and, if applicable, all corrective measures taken or planned.

R13-2592B, 4.4.5. The permittee shall maintain records of the times and duration of all periods which the flame was absent.

R13-2592B, 4.4.6. The permittee shall maintain records of the visible emission opacity tests conducted. The records shall be maintained on-site or in a readily accessible off-site location.

R13-2592B, 4.4.7. The permittee shall keep records of the date when any flare(s) is placed in operation, taken out of operation and the identification of the specific flare.

R13-2592B, 4.5.1. Any exceedances of the allowable visible emission requirement for any emission source discovered during observations using 40CFR60, Appendix A, Method 22 must be reported in writing to the Director of the Division of Air Quality as soon as practicable, but within ten (10) calendar days, of the occurrence and shall include, at a minimum, the cause, suspected cause of the exceedances and any corrective measures taken or planned.

R13-2592B, 4.5.2. The permittee shall submit the results of any testing/assessment conducted as a requirement of this permit to the Director within 60 days after completing such testing.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:

004

Emission unit name:

Used Oil Burner

List any control devices associated with this emission unit:

None

Provide a description of the emission unit (type, method of operation, design parameters, etc.):

500,000 Btu/hr used oil burner.

Manufacturer:

Unknown

Model number:

NA

Serial number:

NA

Construction date:

MM/DD/YYYY

Installation date:

MM/DD/YYYY

Modification date(s):

MM/DD/YYYY

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 3.5 gallons per hour

Maximum Hourly Throughput:

3.5 gal/hr

Maximum Annual Throughput:

30,660 gal/year

Maximum Operating Schedule:

24 hrs/day, 365 days/year

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? ☒ Yes ☐ No

If yes, is it?

☐ Indirect Fired ☒ Direct Fired

Maximum design heat input and/or maximum horsepower rating:

500,000 Btu/hr

Type and Btu/hr rating of burners:

500,000 Btu/hr

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

Used oil

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Used Oil	0.2%	NA	140,000

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.018	0.077
Nitrogen Oxides (NO _x)	0.070	0.31
Lead (Pb)		
Particulate Matter (PM _{2.5})	0.029	0.127
Particulate Matter (PM ₁₀)	0.029	0.127
Total Particulate Matter (TSP)	0.029	0.127
Sulfur Dioxide (SO ₂)	0.11	0.46
Volatile Organic Compounds (VOC)	0.0012	0.0052
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Carbon Dioxide	78.05	342
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>AP-42 Chapter 1.3 Tables 1.3-1, 1.3-2, 1.3-3, 1.3-11. (09/98)</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

45CSR7-3.1. No smoke and/or particulate matter emissions greater than twenty (20) percent opacity, except as noted in subsections 45CSR7-3.2, 3.3, 3.4, 3.5, 3.6, and 3.7.

45CSR7-3.2. The provisions of 45CSR7-3.1. shall not apply to smoke and/or particulate matter emitted from any process source operation which is less than forty (40) percent opacity for any period or periods aggregating no more than five (5) minutes in any sixty (60) minute period.

45CSR7-4.1. No particulate matter vented to the open air from any source operation in excess of the quantity specified in Table 45-7A of 45CSR7. Allowable stack emission rate = 0.036 lb PM/hr.

45CSR7-4.12. Any stack serving any process source operation or air pollution control equipment on any process source operation shall contain flow straightening devices or a vertical run of sufficient length to establish flow patterns consistent with acceptable stack sampling procedures.

45CSR7-9.1. Due to unavoidable malfunction of equipment, emissions exceeding those set forth in 45CSR7 may be permitted by the Director for periods not to exceed ten (10) days upon specific application to the Director. Such application shall be made within twenty-four (24) hours of the malfunction. In cases of major equipment failure, additional time periods may be granted by the Director provided a corrective program has been submitted by the owner or operator and approved by the Director.

45CSR7-10.3. Maintenance operations shall be exempt from the provisions for 45CSR7-4 provided that at all times the owner or operator shall conduct maintenance operations in a manner consistent with good air pollution control practice for minimizing emissions.

☒ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

45CSR7-8.1. At such reasonable times as the Director may designate, the operator of any source operation may be required to conduct or have conducted stack tests to determine the particulate matter loading in exhaust gases. Such tests shall be conducted in such manner as the Director may specify and be filed on forms and in a manner acceptable to the Director. The Director, or his duly authorized representative, may at his option witness or conduct such stack tests. Should the Director exercise his option to conduct such tests, the operator will provide all the necessary sampling connections and sampling ports to be located in such manner as the Director may require, power for test equipment and the required safety equipment such as scaffolding, railings and ladders to comply with generally accepted good safety practices.

45CSR7-8.2. The Director, or his duly authorized representative, may conduct such other tests as he or she may deem necessary to evaluate air pollution emissions.

Are you in compliance with all applicable requirements for this emission unit? ☒ Yes ☐ No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT G

Air Pollution Control Device Form

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: LFG-1	List all emission units associated with this control device. LFG-1
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Manufacturer: Parnel Biogas, Inc.	Model number: None	Installation date: 2010
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Type of Air Pollution Control Device:

<input type="checkbox"/> Baghouse/Fabric Filter	<input type="checkbox"/> Venturi Scrubber	<input type="checkbox"/> Multiclone
<input type="checkbox"/> Carbon Bed Adsorber	<input type="checkbox"/> Packed Tower Scrubber	<input type="checkbox"/> Single Cyclone
<input type="checkbox"/> Carbon Drum(s)	<input type="checkbox"/> Other Wet Scrubber	<input type="checkbox"/> Cyclone Bank
<input type="checkbox"/> Catalytic Incinerator	<input type="checkbox"/> Condenser	<input type="checkbox"/> Settling Chamber
<input type="checkbox"/> Thermal Incinerator	<input checked="" type="checkbox"/> Flare	<input type="checkbox"/> Other (describe) _____
<input type="checkbox"/> Wet Plate Electrostatic Precipitator	<input type="checkbox"/> Dry Plate Electrostatic Precipitator	

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
VOC	50%	98%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Maximum 3,000 cfm of landfill gas. Minimum Btu value is 507.

Is this device subject to the CAM requirements of 40 C.F.R. 64? ☐ Yes ☒ No

If Yes, **Complete ATTACHMENT H**

If No, **Provide justification.** No pollutant specific limit.

Describe the parameters monitored and/or methods used to indicate performance of this control device.

Monthly Method 22-like visible emission checks. Presence of a pilot light or flame. Monitor volume of landfill gas routed to the flare.