



State of Ohio Environmental Protection Agency

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Columbus, OH 43216-1049

01/31/01

CERTIFIED MAIL

RE: Draft Title V Chapter 3745-77 permit

03-87-00-0259

Evergreen Recycling and Disposal Facility
Karen Dolliver
2625 East Broadway
Northwood, OH 43619

Dear Karen Dolliver:

You are hereby notified that the Ohio Environmental Protection Agency has prepared the enclosed draft of the Title V permit for the facility referenced above. The purpose of this draft is to solicit public comments. A public notice concerning the draft will appear in the Ohio EPA Weekly Review and the major newspaper in the county where the facility is located. Comments and/or a request for a public hearing from the public and any affected parties will be accepted by Northwest District Office within 30 days of the date of publication in the newspaper. You will be notified in writing if a public hearing is scheduled.

A decision on processing the Title V permit will be made after consideration of written public comments and oral testimony (if a public hearing is conducted). After the comment period, you will be provided with a Preliminary Proposed Title V permit and an opportunity to comment prior to the Proposed Title V permit submittal to USEPA.

If you have any questions or comments concerning this draft Title V permit, please contact Northwest District Office.

Very truly yours,

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

cc: USEPA

Jim Orlemann, DAPC Engineering
Michael Ahern, DAPC PMU

Northwest District Office
Indiana
Michigan



Ohio EPA

State of Ohio Environmental Protection Agency

TITLE V PERMIT

Issue Date: 01/31/01

DRAFT

Effective Date:

Expiration Date:

This document constitutes issuance to:

Evergreen Recycling and Disposal Facility
2625 East Broadway
Northwood, OH 43619

of a Title V permit for Facility ID: 03-87-00-0259

Emissions Unit ID (Company ID)/

Emissions Unit Activity Description:

F003 (Storage Piles)

Storage piles for solidification operations

F005 (Facility Roadways)

Vehicle traffic on facility roadways

P002 (Caterpillar Generator)

200 Hp emergency back-up generator

P901 (Landfill operations)

Operation of solid waste landfill

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-04(A) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

Described below is the current Ohio EPA District Office or local air agency that is responsible for processing and administering your Title V permit:

Northwest District Office
347 North Dunbridge Road
Bowling Green, OH 43402
(419) 352-8461

OHIO ENVIRONMENTAL PROTECTION AGENCY

Christopher Jones
Director

PART I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Section

1. Monitoring and Related Recordkeeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - i. The date, place (as defined in the permit), and time of sampling or measurements.
 - ii. The date(s) analyses were performed.
 - iii. The company or entity that performed the analyses.
 - iv. The analytical techniques or methods used.
 - v. The results of such analyses.
 - vi. The operating conditions existing at the time of sampling or measurement.
- b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - i. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
 - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. These quarterly written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six months and OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations except malfunctions, which shall be reported in accordance with OAC rule 3745-15-06. The written reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.) See B.8 below if no deviations occurred during the quarter.
 - iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. These semi-annual written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the reporting of

any deviations related to the monitoring, recordkeeping, and reporting requirements. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.

- iv. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

2. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports submitted pursuant to OAC rule 3745-15-06 shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of deviations caused by malfunctions or upsets.

Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

3. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

4. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

5. Severability Clause

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

6. General Requirements

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.

- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

7. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78.

8. Marketable Permit Programs

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

9. Reasonably Anticipated Operating Scenarios

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these general terms and conditions shall apply to all operating scenarios authorized in this permit.

10. Reopening for Cause

This Title V permit will be reopened prior to its expiration date under the following conditions:

- a. Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the

permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.

- b. This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.
- c. The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.
- d. The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

11. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

12. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.
 - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress

reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:

- i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.
- d. Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the appropriate Ohio EPA District Office or local air agency in the following manner and with the following content:
- i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.
 - ii. Compliance certifications shall include the following:
 - (a) An identification of each term or condition of this permit that is the basis of the certification.
 - (b) The permittee's current compliance status.
 - (c) Whether compliance was continuous or intermittent.
 - (d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.
 - (e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.
 - iii. Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

13. Permit Shield

- a. Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.
- b. This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

14. Operational Flexibility

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA

and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

15. Emergencies

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

16. Off Permit Changes

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

- a. The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition;
- b. The permittee provides contemporaneous written notice of the change to the director and the administrator, except that no such notice shall be required for changes that qualify as insignificant emission levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change;
- c. The change shall not qualify for the permit shield under OAC rule 3745-77-07(F);
- d. The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes; and
- e. The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit to install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

(For further clarification, the permittee can refer to Engineering Guide #63 that is available in their STARSHIP software package.)

17. Compliance Method Requirements

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Fed. Reg. 8314, Feb. 24, 1997), in the context of any future proceeding.

18. Insignificant Activity

Each insignificant activity that has one or more applicable requirements shall comply with those applicable requirements.

B. State Only Enforceable Section

1. Permit to Install Requirement

Prior to the “installation” or “modification” of any “air contaminant source,” as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

Part II - Specific Facility Terms and Conditions

A. State and Federally Enforcable Section

1. The only storage piles authorized by this permit are those identified in the terms and conditions for emissions unit F003.

B. State Only Enforceable Section

1. The following insignificant emissions units are located at this facility:

P004 - solidification basin #2
Z001 - 12,000-gallon UST for leachate
Z002 - 15,000-gallon UST for diesel fuel
Z003 - solvent degreaser (cold cleaner)
Z004 - 9 Hp gasoline generator
Z005 - soil bioremediation operation

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within a Permit to Install for the emissions unit.

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Storage Piles (F003)
Activity Description: Storage piles for solidification operations

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
solidification basin 1, with material storage piles	OAC rule 3745-31-05 (PTI 03-9543)	Visible fugitive particulate emissions shall not exceed 10% opacity at any time. best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see sections A.2.b through A.2.d)
	OAC rule 3745-21-07(G)	None (see condition A.II.1)
	OAC rule 3745-17-07(B)(1)	None (see A.I.2.e)
	OAC rule 3745-17-08(B)	None (see A.I.2.f)

2. Additional Terms and Conditions

- 2.a The storage piles that are covered by this permit and subject to the above-mentioned requirements are listed below:

solidification basin storage piles
- 2.b The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to minimizing the drop height to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.c The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to keep the storage piles covered to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.d Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.
- 2.e This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

2. Additional Terms and Conditions (continued)

- 2.f** This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).

II. Operational Restrictions

1. The permittee shall not employ any liquid organic material in this emissions unit that is a photochemically reactive material. "Photochemically reactive material" is defined in OAC rule 3745-21-01(C)(5).

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain the following information each day for this emissions unit:
 - a. The company identification for each liquid organic material employed in this emissions unit.
 - b. Documentation on whether or not each liquid organic material employed is a photochemically reactive material.
2. The permittee shall keep a daily log that identifies all periods of time during which the storage piles were not covered.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify each day during which a photochemically reactive material was employed.
2. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the storage piles were not covered.
3. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit (paragraph A.1.c).

V. Testing Requirements

1. Compliance with the emissions limitaton(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation:

Visible fugitive particulate emissions shall not exceed 10% opacity at any time.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with test Method 9 as set forth in "Appendix A on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(b) and (B)(3)(c) of OAC rule 3745-17-03.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Facility Roadways (F005)
Activity Description: Vehicle traffic on facility roadways

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
paved roadways and parking areas (see Section A.1.2.a)	OAC rule 3745-31-05 (PTI 03-13300)	no visible particulate emissions except for one minute during any 60-minute period best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.1.2.c, and A.1.2.e through A.1.2.i)
unpaved roadways and parking areas (see Section A.1.2.b)	OAC rule 3745-31-05 (PTI 03-13300)	no visible particulate emissions except for 3 minutes during any 60-minute period best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see sections A.1.2.d through A.1.2.i)
	OAC rule 3745-17-07(B)(1)	None (see section A.1.2.j)
	OAC rule 3745-17-08(B)	None (see section A.1.2.k)
	OAC rule 3745-31-05 (PTI 03-13300)	57.3 tons/year (TPY) of particulate emissions (PE), 12.5 TPY of particulate matter (PM) emissions less than 10 microns (PM-10) (all roadways and parking areas)

2. Additional Terms and Conditions

- 2.a** The paved roadways and parking areas that are subject to the terms and conditions of this permit are listed below:

paved roadways:

1.0 mile paved road segment

paved parking areas:

main parking lot

- 2.b** The unpaved roadways and parking areas that are subject to the terms and conditions of this permit are listed below:

unpaved roadways:

0.8 mile unpaved road segment

unpaved parking areas:

none

- 2.c** The permittee shall employ best available control measures on all paved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the paved roadways and parking areas by using a self-propelled sweeper and mobile water tank with spray bar, at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.d** The permittee shall employ best available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved roadways and parking areas with water using a mobile water tank with spray bars, at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.e** The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved or unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- 2.f** Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measures specified above for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.
- 2.g** The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- 2.h** Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.

2. Additional Terms and Conditions (continued)

- 2.i** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.
- 2.j** This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
- 2.k** This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

- 1.** Except as otherwise provided in this section, the permittee shall perform inspections of each of the roadway segments and each parking area in accordance with the following frequencies:
 - paved roadways and parking areas minimum inspection frequency
All Twice daily during operation
 - unpaved roadways and parking areas minimum inspection frequency
All Twice daily during operation
- 2.** The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
- 3.** The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
- 4.** The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in 'd' shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

IV. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

V. Testing Requirements

1. Compliance with the emissions limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

- 1.a Visible Emissions Restrictions:
no visible particulate emissions except for one minute during any 60-minute period (paved)
no visible particulate emissions except for 3 minutes during any 60-minute period (unpaved)

Applicable Compliance Method:

Compliance with the emission limitations identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

- 1.b Emissions Limitation:
57.3 TPY of PE,
12.5 TPY of PM-10 emissions
(all roadways and parking areas)

Applicable Compliance Method:

Compliance with these emission limitations shall be determined using emission factors from the USEPA, AP-42 document, equations for paved roadways [Section 13.2.1 (revised 10/97)] and unpaved roadways [Section 13.2.2 (revised 09/98)].

emission factors for paved roadways:

1.76 lbs of PE/VMT, 0.34 lb of PM10/VMT

Control efficiency: 40 percent

* maximum annual VMT = 108,000 VMT/yr

emission factors for unpaved roadways:

8.05 lbs of PE/VMT, 1.80 lbs of PM10/VMT

Control efficiency: 90 percent

** maximum annual VMT = 89,000 VMT/yr

where:

VMT = vehicle mile traveled

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Caterpillar Generator (P002)
Activity Description: 200 Hp emergency back-up generator

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
electrical generator (No. 2 oil, 200 HP, 0.4 mmBtu/hr)	OAC rule 3745-17-11(B)(5)(a)	Particulate emissions (PE) shall not exceed 0.25 lb/mmBtu of actual heat input (see section A.I.2.a below).
	OAC rule 3745-17-07(A)	PE shall not exceed 0.310 lb/mmBtu of actual heat input (see section A.I.2.b below). Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-18-06	Exempt, pursuant to OAC rule 3745-18-06(B).

2. Additional Terms and Conditions

- 2.a The requirement to comply with this PE limitation shall terminate on the date the U.S. EPA approves the 0.310 lb of PE/mmBtu of actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.b This PE limitation shall be effective and federally enforceable on the date the U.S. EPA approves this PE limitation as a revision to the Ohio SIP for particulate matter.

II. Operational Restrictions

1. The permittee shall burn only No.2 fuel oil in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than No. 2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than No. 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I shall be determined in accordance with the following methods:

- 1.a Emission Limitation:
PE shall not exceed 0.25 lb/mmBtu of actual heat input.

Applicable Compliance Method:

The permittee cannot demonstrate compliance with this emission limitation based upon the current emission factor contained in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 (10/96). The Ohio EPA revised the emission limitation specified in this rule citation based upon the currently applicable emission factor. The revised rule was adopted by the Director of Ohio EPA in December of 1997, and it will be submitted to the U.S. EPA as a proposed revision to the Ohio SIP for particulate matter. When the SIP revision is approved by the U.S. EPA, the 0.25 lb of PE/mmBtu of actual heat input emission limitation will no longer be applicable, and the permittee will be able to demonstrate compliance with the new emission limitation (0.310 lb/mmBtu of actual heat input) using the current emission factor.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

- 1.b Emission Limitation:
visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule

Applicable Compliance Method:

If required, compliance shall be determined based on test Method 9 as set forth in "Appendix A on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03(B)(1).

- 1.c Emission Limitation:
PE shall not exceed 0.310 lb of PE/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.31 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

VI. Miscellaneous Requirements

1. The permittee installed this emissions unit in 1990 without first applying for and obtaining a permit to install, in violation of OAC Chapter 3745-31. Therefore, the permittee shall perform the following in order to bring this emissions unit into compliance:
 - a. submit a complete PTI application within 2 months following the issuance of this permit; and
 - b. obtain a PTI within 8 months following the issuance of this permit.

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Landfill operations (P901)
Activity Description: Operation of solid waste landfill

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
MSW landfill (with asbestos disposal, and with flare)	OAC rule 3745-76-07	See sections A.I.2.a. through A.I.2.c below.
	OAC rule 3745-17-07(B)(1)	None (see section A.I.2.q)
	OAC rule 3745-17-08(B)	None (see section A.I.2.r)
	OAC rule 3745-20-06 40 CFR 61.154	See sections A.I.2.j through A.I.2.p below
	OAC rule 3745-31-05 (PTI 03-13300)	Visible fugitive particulate emissions (PE) shall not exceed 20% opacity, as a 3-minute average. See sections A.I.2.d through A.I.2.i below. 6240 tons of methane/yr (fugitive emissions not routed to control device) 148 tons of non methane organic compounds (NMOC)/yr (fugitive emissions not routed to control device) 86 lbs of methane/hr, 375 tons of methane/yr (emissions from the control device) 2.0 lbs of NMOC/hr, 8.9 tons of NMOC/yr (emissions from the control device) 80 lbs of carbon monoxide (CO)/hr, 349 tons of CO/yr (emissions from the control device) 4.3 lbs of nitrogen oxides (NOx)/hr, 18.6 tons of NOx/yr (emissions from the control device)

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
		1.6 lbs of sulfur dioxide (SO ₂)/hr, 6.8 tons of SO ₂ /yr (emissions from the control device) 1.8 lbs of PE/hr, 7.9 tons of PE/yr (emissions from the control device) 2.3 lbs of hydrogen chloride (HCl)/hr 10.0 tons of HCl/yr (emissions from the control device) 2.9 tons of PE/yr (fugitive landfill emissions)

2. Additional Terms and Conditions

2.a The active collection system shall satisfy the following requirements:

- i. The system shall be designed to handle the maximum expected gas flow rate from the entire area of the landfill that warrants control over the intended use period of the gas control or treatment system equipment.
- ii. The system shall collect gas from each area, cell, or group of cells in the landfill in which the initial solid waste has been placed for a period of 5 years or more if active, or 2 years or more if closed or at final grade.
- iii. The system shall collect gas at a sufficient extraction rate.
- iv. The system shall be designed to minimize off-site migration of subsurface gas.

2. Additional Terms and Conditions (continued)

2.b The collected gas shall be vented to an open flare designed and operated as follows:

i. The flare shall be designed for and operated with no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.

ii. The flare shall be operated with a flame present at all times.

iii. The permittee shall comply with either the requirements in paragraph (a) and (b) or the requirements in paragraph (c):

(a) Flares shall be used only with the net heating value of the gas being combusted being 11.2 MJ/scm (300 Btu/scf) or greater if the flare is steam-assisted or air-assisted; or with the net heating value of the gas being combusted being 7.45 MJ/scm (200 Btu/scf) or greater if the flare is non-assisted. The net heating value of the gas being combusted shall be determined as follows:

$$H_t = k \times (\text{the summation of } C_i H_i), \text{ for } i = 1 \text{ to } n$$

where,

H_t = net heating value of the sample, MJ/scm; where the net enthalpy per mole of off gas is based on combustion at 25 degree centigrade (C) and 760 mm Hg, but the standard temperature for determining the volume corresponding to one mole is 20 degree C;

k = constant, 1.740×10^{-7} (1/ppm) (g mole/scm) (MJ/kcal),
where the standard temperature for (g mole/scm) is 20 degree C.

C_i = concentration of sample component i (in ppm) on a wet basis, as measured for organics by Reference Method 18 and measured for hydrogen and carbon monoxide by ASTM D1946-77; and

H_i = net heat of combustion of sample component i , kcal/g.mole at 25 degree C and 760 mm Hg. The heats of combustion may be determined using ASTM D2382-76 (incorporated by reference as specified in 40 CFR 60.17) if published values are not available or cannot be calculated.

(b) A steam-assisted and non-assisted flare shall be designed for and operated with an exit velocity of less than 18.3 m/sec (60 ft/sec), except:

(i) steam-assisted and non-assisted flare shall be designed for and operated with an exit velocity of equal to or greater than 18.3 m/sec (60 ft/sec), but less than 122 m/sec (400 ft/sec) are allowed if the net heating value of the gas being combusted is greater than 37.3 MJ/scm (1,000 Btu/scf); and

(ii) steam-assisted and non-assisted flare shall be designed for and operated with an exit velocity of less than the velocity, V_{max} , and less than 122 m/sec (400 ft/sec) are allowed; as determined by

$$\text{Log}_{10}(V_{max}) = (H_t + 28.8)/31.7$$

where:

V_{max} = maximum permitted velocity, M/sec

28.8 = constant

31.7 = constant

H_t = the net heating value as determined in section A.I.2.b.iii(a) above

2. Additional Terms and Conditions (continued)

(c) Flares shall be used that have a diameter of 3 inches or greater, are non-assisted, have a hydrogen content of 8.0 percent (by volume) or greater, and are designed for and operated with an exit velocity less than 37.2 m/sec (122 ft/sec) and less than the velocity, V_{max} , as determined by the following equation:

$$V_{max} = (X_{h2} - K1) \times K2$$

where:

V_{max} = maximum permitted velocity, m/sec

$K1$ = constant, 6.0 volume-percent hydrogen

$K2$ = constant, 3.9(m/sec)/volume-percent hydrogen

X_{h2} = the volume-percent of hydrogen, on a wet basis, as calculated by using the American Society for Testing and Materials (ASTM) Method D1946-77

iv. Air-assisted flare shall be designed for and operated with an exit velocity of less than the velocity, V_{max} , as determined by the following equation:

$$V_{max} = 8.706 + 0.7084 \times (H_t)$$

where:

V_{max} = maximum permitted velocity, m/sec

8.706 = constant

0.7084 = constant

H_t = the net heating value as determined in section A.I.2.b.iii(a) above

2.c The collection and control system may be capped or removed provided that all of the following conditions, as specified in paragraphs (B)(2)(e)(i), (B)(2)(e)(ii), and (B)(2)(e)(iii) of OAC rule 3745-76-07 are met:

i. The landfill shall no longer be accepting solid waste and shall be permanently closed under the requirements of OAC rule 3745-27-11. A closure report shall be submitted to the Director as provided in paragraph (D) of OAC rule 3745-76-12.

ii. The collection and control system shall have been in operation a minimum of fifteen years from when the first well was installed and put into operation.

iii. Following the procedures specified in paragraph (B) of OAC rule 3745-76-09, the calculated NMOC gas produced by the landfill shall be less than 50 Mg/yr on three successive test dates. The test dates shall be no less than 90 days apart, and no more than 180 days apart.

2.d All landfill areas where solid waste is deposited are covered by this permit and subject to the requirements of OAC rule 3745-31-05.

2. Additional Terms and Conditions (continued)

- 2.e** The permittee shall employ control measures for all landfill operations associated with the load-in of MSW for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to ensure that solid wastes are deposited, spread and compacted in such a manner as to minimize or prevent visible emissions of dust. All truckloads of solid waste shall be unloaded in a manner which will minimize the drop height of the solid wastes. Any dusty materials or wastes likely to become airborne shall be watered as necessary prior to or during dumping operations in order to minimize or eliminate visible emissions of fugitive dust. Watering shall be conducted in such a manner as to avoid the pooling of liquids and runoff. No dusty material shall be dumped during periods of high wind speed, unless the material has been treated to prevent fugitive dust emissions from becoming airborne. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.f** The above-mentioned control measures shall be employed for each MSW landfill cell if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during any such operation until further observation confirms that use of the measures is unnecessary.
- 2.g** The permittee shall employ reasonably available control measures for wind erosion from the surface of the landfill for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to watering dusty loads prior to dumping during periods of high wind speed to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.h** The above-mentioned control measures shall be employed for wind erosion from the landfill if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measures shall not be necessary for the landfill cell that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.
- 2.i** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.
- 2.j** There shall be no visible emissions from asbestos-containing waste materials during the on-site transportation, transfer, unloading, deposition or compacting operations.
- 2.k** The permittee shall inspect each load of asbestos-containing waste material delivered to the facility. The inspection shall consist of a visual examination to ensure that each shipment of asbestos-containing waste material is received in intact, leak-tight containers labeled with appropriate hazard warning labels, the name of the waste generator, and the location of waste generation. The inspection also shall determine whether the waste shipment records accompany the consignment and accurately describe the waste material and quantity.
- If on the basis of the inspection, the waste material is found to be improperly received, the load shall be disposed of in accordance with the procedures in the "Asbestos Spill Contingency Plan," and the discrepancy shall be noted on the waste shipment record.
- 2.l** Deposition and burial operations shall be conducted in a careful manner that prevents asbestos-containing waste materials from being broken up or dispersed before the materials are buried.

2. Additional Terms and Conditions (continued)

- 2.m** The permittee shall establish restricted access, adequate to deter the unauthorized entry of the general public and any unauthorized personnel, within 100 feet of the unloading, deposition, and burial areas for the asbestos-containing waste materials. A hazard warning shall be displayed on signs not less than 20 x 14 inches in size, posted so they are visible before entering an area with asbestos waste disposal operations in progress; or, alternatively, mark vehicles used to transport asbestos-containing waste materials with 21 x 14 inch signs so that the signs are displayed in such a manner and location that a person can easily read the legend. Display the following legend in the lower panel with letter sizes and styles of a visibility at least equal to those specified in this paragraph.

Legend:

DANGER
ASBESTOS DUST HAZARD
CANCER AND LUNG DISEASE HAZARD
Authorized Personnel Only

Notation

2.5 cm (1 inch) Sans Serif, Gothic or Block

2.5 cm (1 inch) Sans Serif, Gothic or Block

1.9 cm (3/4 inch) Sans Serif, Gothic or Block

14 Point Gothic

Spacing between any two lines must be at least equal to the height of the upper of the two lines.

- 2.n** The permittee shall cover and compact asbestos wastes in accordance with the following:
- i. As soon as practicable after the placement of friable asbestos, but no later than the end of each working day, the asbestos-containing waste materials deposited at the site during the operating day shall be covered with at least 12 inches of non-asbestos-containing materials. Once the ACMs are covered, the area may be compacted.
 - ii. Care shall be taken to ensure that disposed asbestos shall not be re-excavated in subsequent operations. Any accidentally exposed material shall be immediately recovered in accordance with the provisions of condition i above.
 - iii. Asbestos-containing waste materials shall be separated from the landfill final grade by no less than 24 inches of compacted non-asbestos-containing materials and a permanent cover of vegetation, or in accordance with current requirements for closure, whichever is more stringent.
- 2.o** The permittee shall implement and maintain an "Asbestos Disposal Operating Procedure and Spill Contingency Plan" ("Plan") consisting of: authorized personnel training, inspection and disposal operating procedures, non-conforming load response procedures, inventory and maintenance procedures for safety and emissions control equipment, record keeping procedures, and emergency notification procedures. Authorized personnel shall be knowledgeable in the procedures, and the Plan shall be available for inspection at this facility at all times.
- 2.p** Emissions control equipment shall be available for wetting and containing asbestos in the event of a release or non-conforming load disposal. All equipment required to implement the Plan shall be maintained in accordance with good engineering practices to ensure that the equipment is in a ready-to-use condition and in an appropriate location for use.
- 2.q** This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
- 2.r** This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).

II. Operational Restrictions

1. The permittee shall operate the collection system such that gas is collected from each area, cell, or group of cells in the MSW landfill in which municipal solid waste has been in place for 5 years or more if active, or acceptance of municipal solid waste has ceased for at least two years.
2. The permittee shall operate the collection system with negative pressure at each wellhead except under the following conditions:
 - a. A fire or increased well temperature. The permittee shall record instances when positive pressure occurs in efforts to avoid a fire. These records shall be submitted with the annual reports as provided in paragraph (F)(1) of OAC rule 3745-76-12.
 - b. Use of a geomembrane or synthetic cover. (The permittee shall develop acceptable pressure limits in the design plan.)
 - c. A decommissioned well. (A well may experience a static positive pressure after shutdown to accommodate for declining flows. All design changes shall be approved by the Director.)
3. The permittee shall operate each interior wellhead in the collection system with a landfill gas temperature less than 55 degrees Celsius and with either a nitrogen level less than 20% or an oxygen level less than 5%. The permittee may establish a higher operating temperature, nitrogen, or oxygen value at a particular well. A higher operating value demonstration shall show supporting data that the elevated parameter does not cause fires or significantly inhibit anaerobic decomposition by killing methanogens (see also A.VI.1 below).
4. The permittee shall operate the collection system so that the methane concentration is less than 500 parts per million above background at the surface of the landfill.
5. The permittee shall operate the collection system such that all collected gases are vented to a control system designed and operated in compliance with A.I.2.b. In the event, the collection or control system is inoperable, the gas mover system shall be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere shall be closed within one hour.
6. The permittee shall operate the flare at all times when the collected gas is routed to the system.
7. A pilot flame shall be maintained at all times in the flare's pilot light burner.

III. Monitoring and/or Record Keeping Requirements

1. For the active gas collection system, the permittee shall install a sampling port and a thermometer or other temperature measuring device at each wellhead and record the following information on a monthly basis:
 - a. the gauge pressure (in psia) in the gas collection header at each individual well;
 - b. the nitrogen or oxygen concentration (in ppm) in the landfill gas; and
 - c. the temperature of the landfill gas, in degrees C.
2. The permittee shall monitor surface concentrations of methane on a quarterly basis as follows:
 - a. Monitor surface concentrations of methane along the entire perimeter of the collection area and along a pattern that traverses the landfill at 30 meter intervals (or a site-specific established spacing) for each collection area.
 - b. The background concentration shall be determined by moving the probe inlet upwind and downwind outside the boundary of the landfill at a distance of at least 30 meters from the perimeter wells.
 - c. Surface emission monitoring shall be performed in accordance with section 4.3.1 of Method 21 of Appendix A of 40 CFR, Part 60, except that the probe inlet shall be placed within 5 to 10 centimeters of the ground. Monitoring shall be performed during favorable meteorological conditions.

III. Monitoring and/or Record Keeping Requirements (continued)

- d. Any reading of 500 parts per million or more above background at any location shall be recorded as a monitored exceedance and the actions specified below shall be taken. As long as the specified actions are taken, the exceedance is not a violation of the operational requirements listed in A.II.4.:
 - i. The location of each monitored exceedance shall be marked and the location recorded.
 - ii. Cover maintenance or adjustments to the vacuum of the adjacent wells to increase the gas collection in the vicinity of each exceedance shall be made and the location shall be remonitored within 10 calendar days of detecting the exceedance.
 - iii. If the remonitoring of the location shows a second exceedance, additional corrective action shall be taken and the location shall be monitored again within 10 days of the second exceedance. If the remonitoring shows a third exceedance for the same location, a new well or other collection device shall be installed within 120 calendar days of the initial exceedance. An alternative remedy to the exceedance, such as upgrading the blower, header pipes or control device, and a corresponding timeline for installation may be submitted to the Ohio EPA for approval. No further monitoring of that location is required until the action specified has been taken.
 - iv. Any location that initially showed an exceedance but has a methane concentration less than 500 ppm methane above background at the 10-day remonitoring specified above shall be remonitored 1-month from the initial exceedance. If the 1-month remonitoring shows a concentration less than 500 parts per million above background, no further monitoring of that location is required until the next quarterly monitoring period. If the 1-month remonitoring shows an exceedance, the actions specified above shall be taken.
3. The permittee shall install, calibrate, maintain, and operate according to the manufacturer's specifications the following equipment:
 - a. a heat sensing device, such as an ultraviolet beam sensor or thermocouple, at the pilot light or the flame itself to indicate the continuous presence of a flame; and
 - b. a gas flow rate measuring device that shall record the flow to the control device at least every 15 minutes.
 4. If a gas flow rate measuring device is not installed then the permittee shall secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line.

III. Monitoring and/or Record Keeping Requirements (continued)

5. The permittee shall maintain the following information for the life of the control equipment as measured during the initial performance test or compliance demonstration:

a. The maximum expected gas generation flow rate as calculated based on the following:

i. For sites with unknown year-to-year solid waste acceptance rate:

$$Q_m = 2L_o \times R \times \{(e \text{ to the power } -kc) - (e \text{ to the power } -kt)\}$$

where:

Q_m = maximum expected gas generation flow rate, cubic meters per year

L_o = methane generation potential, cubic meters per megagram solid waste

R = average annual acceptance rate, megagrams per year

k = methane generation rate constant per year

t = age of the landfill at equipment installation plus the time the owner or operator intends to use the gas mover equipment or active life of the landfill, whichever is less (If the equipment is installed after closure, t is the age of the landfill at installation), years

c = time since closure, years (for an active landfill $c = 0$ and $(e \text{ to the power } -kc) = 1$)

ii. For sites with known year-to-year solid waste acceptance rate:

$$Q_m = \text{Summation of } 2kL_oM_i \times (e \text{ to the power } -kt_i \text{ for } i=1 \text{ through } i=n)$$

where:

Q_m = maximum expected gas generation flow rate, cubic meters per year

k = methane generation rate constant per year

L_o = methane generation potential, cubic meters per megagram solid waste

M_i = mass of solid waste in the i th section, megagrams

t_i = age of the i th section, years

III. Monitoring and/or Record Keeping Requirements (continued)

- iii. If a collection and control system has been installed, actual flow data may be used to project the maximum expected gas generation flow rate instead of, or in conjunction with, the equations in paragraphs A.III.5.i. and ii. If the landfill is still accepting waste, the actual measured flow data will not equal the maximum expected gas generation rate, so calculations using the equations in paragraphs A.III.i. or ii or other methods shall be used to predict the maximum expected gas generation rate over the intended period of use of the gas control system equipment. (The permittee may use another method to determine the maximum gas generation flow rate, if the method has been approved by the Ohio EPA.)
 - b. The density of wells, horizontal collectors, surface collectors, or other gas extraction devices determined using the procedures specified in paragraph (A)(1) of OAC rule 3745-76-14.
 - c. The flare type (i.e., steam-assisted, air-assisted, or non-assisted).
 - d. All visible emission readings.
 - e. Heat content determinations of the gas.
 - f. Flow rate or bypass flow rate measurements.
 - g. Exit velocity determinations made during the performance test as specified in 40 CFR Part 60.18.
 - h. Continuous records of the flare pilot flame or flare flame monitoring and records of all periods of operations during which the flare pilot flame or flare flame is absent.
6. The permittee shall properly operate and maintain a device to continuously monitor the flare pilot flame when the emissions unit is in operation. The monitoring device and any recorder shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall record the following information each day:

- a. all periods during which there was no pilot flame;
- b. the downtime for the flare and monitoring equipment when the collection and control system is in operation.

(See also A.VI.2 below.)

- 7. Except as provided in paragraph (B)(2)(a)(ii) of OAC rule 3745-76-07, the permittee shall maintain, for the life of the collection system, an up-to-date, readily accessible plot map showing each existing and planned collector in the system and providing a unique identification location label for each collector.
- 8. The permittee shall keep for at least 5 years up-to-date, readily accessible, on-site records of the maximum design capacity of the landfill, the current amount of solid waste in-place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within 4 hours. Either hardcopy or electronic formats are acceptable. These records may be also required by the OEPA, Division of Solid and Infectious Waste Management, and shall satisfy this permit condition.
- 9. The permittee shall conduct surface testing around the perimeter of the collection area along a pattern that traverses the landfill at 30-meter intervals and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover.
- 10. The permittee shall maintain records of the following information:
 - a. The waste shipment record form for each shipment of asbestos-containing materials.
 - b. The location, depth and area, and quantity in cubic yards of all asbestos-containing materials within the disposal site, on a map or diagram of the disposal area.

III. Monitoring and/or Record Keeping Requirements (continued)

11. The permittee shall require that all asbestos waste shipments received be accompanied by a waste shipment record. The waste shipment records shall include the following information:
- i. The name of the work site or facility where the asbestos- containing waste was generated and the mailing address and telephone number of the facility owner.
 - ii. The name, mailing address and telephone number of the owner or operator (waste generator) responsible for handling, packing, marking, and labeling the asbestos-containing waste material.
 - iii. The name, mailing address, telephone number and site location of the active waste disposal site designated by the generator to receive the asbestos-containing waste material for disposal.
 - iv. The name and address of the local, state or USEPA regional agency responsible for administering the asbestos NESHAP program.
 - v. A description of the asbestos-containing waste materials included in the waste shipment.
 - vi. The number and type of containers included in the waste shipment.
 - vii. The approximate volume of asbestos-containing waste material included in the waste shipment in cubic yards.
 - viii. Special handling instructions or additional information relative to the waste shipment the waste generator may specify.
 - ix. A certification that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.
 - x. The name, address and phone number of the transporter.
 - xi. A signature by the transporter to acknowledge receipt of the asbestos-containing waste shipment described by the waste generator in Condition i through ix.
 - xii. A discrepancy indication space to be completed by the transporter or waste shipment owner or operator if any improperly contained asbestos waste is observed or if there is any discrepancy in the quantity of asbestos shipped and the quantity of asbestos waste received at the asbestos waste disposal site. Significant amounts of improperly contained waste shall be reported in writing to the Ohio EPA by the following working day. The report shall include a copy of the waste shipment.
 - xiii. The name and telephone number of the disposal site operator.
 - xiv. A signature by the waste disposal site operator to acknowledge receipt of the asbestos-containing waste shipment described by the waste generator in Condition C.1.c(i) through (ix), except as noted in the discrepancy indication space.
 - xv. The date of receipt.

The waste shipment record forms shall be retained at the facility for at least two years, and shall be made available for inspection upon request.

12. Except as otherwise provided in this section, the permittee shall perform inspections of the landfill operation areas in accordance with the following frequencies:

landfill areas	minimum inspection frequency
all landfill areas	daily

III. Monitoring and/or Record Keeping Requirements (continued)

13. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures for fugitive particulate emissions. The inspections shall be performed during representative, normal operating conditions. No inspection shall be necessary for a landfill operating area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
14. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements. Such modified inspection frequencies would not be considered a minor or significant modification that would be subject to the Title V permit modification requirements in paragraphs (C)(1) and (C)(3) of OAC rule 3745-77-08.
15. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in 'd' above shall be kept separately for (i) the solid waste load-in operations, (ii) the surface working operations, and (iii) the cell surface (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

IV. Reporting Requirements

1. Any breakdown or malfunction of the landfill gas collection and control system resulting in the emission of raw landfill gas emissions to the atmosphere shall be reported to the appropriate Ohio EPA District Office or local air agency within one hour after the occurrence, or as soon as reasonably possible, and immediate remedial measures shall be undertaken to correct the problem and prevent further emissions to the atmosphere.
2. The permittee shall submit an NMOC annual emission rate report to the appropriate Ohio EPA District Office or local air agency. The report shall include all the data, calculations, sample reports and measurements used to estimate the annual emissions.
3. The permittee shall submit a closure report to the appropriate Ohio EPA District Office or local air agency within 30 days of waste acceptance cessation. The Ohio EPA may request additional information as may be necessary to verify that permanent closure has taken place in accordance with the requirements of 40 CFR Part 258.60. If a closure report has been submitted to the Ohio EPA, no additional wastes may be placed into the landfill without filing a notification of modification as described in 40 CFR Part 60.7(a)(4).

The permittee shall submit written notification of the date on which the landfill ceased to accept solid waste in accordance with paragraph (E) of OAC rule 3745-27-11.

IV. Reporting Requirements (continued)

4. The permittee shall submit an equipment removal report to the appropriate Ohio EPA District Office or local air agency 30 days prior to removal or cessation of operation of the control equipment.

The equipment removal report shall contain all of the following items:

- a. a copy of the closure report submitted in accordance with A.III.3;
- b. a copy of the initial performance test report demonstrating that the fifteen year minimum control period has expired; and
- c. dated copies of three successive NMOC emission rate reports demonstrating that the landfill is no longer producing fifty megagrams or greater of NMOC per year.

The Director may request such additional information as may be necessary to verify that all of the conditions for removal in paragraph (B)(2)(e) of OAC rule 3745-76-07 have been met.

5. The permittee shall submit annual reports which include the following:

- a. all periods when the collection system was not operating in excess of 5 days; and
- b. any record indicating the date of installation and the location of each well or collection system expansion added pursuant to paragraphs (A)(3), (B), and (C)(4) of OAC rule 3745-76-10.

These reports shall be submitted by January 31 of each year.

6. The permittee shall submit the following information with the initial performance test report as specified in paragraph (B)(2)(c)(ii) of OAC rule 3745-76-07:

- a. a diagram of the collection system showing collection system positioning including all wells, horizontal collectors, surface collectors, or other gas extraction devices, including the locations of any areas excluded from collection and the proposed sites for the future collection system expansion;
- b. the data upon which the sufficient density of wells, horizontal collectors, surface collectors, or other gas extraction devices and the gas mover equipment sizing are based;
- c. the documentation of the presence of asbestos or nondegradable material for each area from which collection wells have been excluded based on the presence of asbestos or nondegradable material;
- d. the sum of the gas generation flow rate for all areas from which collection wells have been excluded based on nonproductivity and the calculations of gas generation flow rate for each excluded area;
- e. the provisions for increasing gas mover equipment capacity with increased gas generation flow rate, if the present gas mover equipment is inadequate to move the maximum flow rate expected over the life of the landfill; and
- f. the provisions for the control of off-site migration.

7. The permittee shall submit quarterly reports summarizing the asbestos disposal activities. The reports shall contain the following information:

- a. The name, address and location of the facility; the calendar period covered by the report; and any changes in the methods of storage or the disposal operations.
- b. A list of all asbestos-containing waste consignments received including: the date received, the name of the waste generator, the name and location of the facility where the load originated, the quantity of asbestos, and any discrepancy or non-conformity discovered.

These quarterly reports shall be submitted no later than January 31, April 30, July 31 and October 31 and shall cover the previous calendar quarters.

IV. Reporting Requirements (continued)

8. As soon as possible and no longer than 30 days after receipt of the asbestos waste, the permittee shall send a copy of the signed waste shipment record to the waste generator.
9. Upon discovering a discrepancy between the quantity of waste designated on a waste shipment record and the quantity actually received, the permittee shall attempt to reconcile the discrepancy with the waste generator. If the discrepancy is not resolved within 15 days after receiving the waste, immediately report in writing to the State, local, district, or USEPA regional office responsible for administering the asbestos NESHAP program for the waste generator (identified in the waste shipment record), and, if different, the appropriate Ohio EPA District Office or local air agency. Describe the discrepancy and attempts to reconcile it, and submit a copy of the waste shipment record along with the report.
10. The permittee shall submit, upon closure of the facility, a copy of the records of the asbestos waste disposal locations and quantities.
11. The permittee shall notify the appropriate Ohio EPA District Office or local air agency in writing at least 45 days prior to excavating or otherwise disturbing any asbestos-containing waste material that has been deposited at a waste disposal site and is covered. If the excavation will begin on a date other than the one contained in the original notice, notice of the new start date must be provided at least 10 working days before excavation begins and in no event shall excavation begin earlier than the date specified in the original notification. The following information shall be included in the notice:
 - a. Scheduled starting and completion dates.
 - b. Reason for disturbing the waste.
 - c. Procedures to be used to control emissions during the excavation, storage, transport, and ultimate disposal of the excavated asbestos-containing waste material. (If deemed necessary, the Director may require changes in the proposed emission control procedures).
 - d. Location of any temporary storage site and the final disposal site.
12. The permittee shall notify the appropriate Ohio EPA District Office or local air agency of any load of asbestos-containing material which is rejected, or any non-conforming load disposed of in accordance with the "Asbestos Spill Contingency Plan." Notification shall be provided as soon as possible by a phone contact, followed in writing by the next working day. The written notification shall provide a copy of the waste shipment record ("WSR"), if available, or when waste is not shipped with a WSR, provide available information concerning vehicle identification, source of the load, a description of the load, nature of discrepancy, and the location of disposal. If possible, non-conforming loads of suspect friable material shall be detained, or the location of disposal protected from damage, until the Ohio EPA is informed and provided the opportunity to inspect.

V. Testing Requirements

1. Compliance with the emissions limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a Emission Limitation:
No visible emissions from the flare, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.

Applicable Compliance Method:

Compliance shall be demonstrated through visible emission observations performed in accordance with 40 CFR, Part 60, Appendix A, Method 22, and procedures specified in 40 CFR, Part 60.18.

V. Testing Requirements (continued)

1.b Emission Limitation:
Visible fugitive particulate emissions shall not exceed 20% opacity, as a 3-minute average (cell load-in and wind erosion).

Applicable Compliance Method:
Compliance shall be demonstrated in accordance with test Method 9 as set forth in "Appendix A on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

1.c Emission Limitations:
(fugitive emissions not routed to control device)
6240 tons of methane/yr
148 tons of NMOC/yr

Applicable Compliance Method:
Compliance with the emission limitations above shall be determined by using USEPA's Landfill Air Emission Estimate Model version 1.0 and AP-42 emission factors and equations, from Section 2.4 and maximum amount of refuse in place after 21 years of 1.5×10^7 Mg. The following equation shall be used to calculate fugitive emissions:

$$CMxFug = (1 - ycol/100) \times CMx$$

$$CMxFug = \text{mass of fugitive uncollected emissions (tons/yr)}$$

$$ycol = \text{collection efficiency (75\%)}$$

$$CMx = \text{total mass of pollutant (x) generated (tons/yr)}$$

1.d Emission Limitations:
(emissions from the control device)
86 lbs of methane/hr, 374 tons of methane/yr
2.0 lbs of NMOC/hr, 8.9 tons of NMOC/yr
2.3 lbs of HCl/hr, 10.0 tons of HCl/yr

Applicable Compliance Method:
Compliance with the emission limitations above shall be determined by using USEPA's Landfill Air Emission Estimate Model version 1.0 and AP-42 emission factors and equations, from Section 2.4, maximum amount of refuse in place after 21 years of 1.5×10^7 Mg, and 8,760 hours per year. The following equation shall be used to calculate emissions:

$$CMxc = ycol/100 \times (1 - ycnc/100) \times CMx$$

$$CMxc = \text{mass of pollutant passing through control (tons/yr)}$$

$$ycol = \text{collection efficiency (75\%)}$$

$$ycnc = \text{control efficiency (98\%)}$$

$$CMx = \text{total mass of pollutant (x) generated (ton/yr)}$$

If required, compliance with the hourly limitations above shall be demonstrated based on the following::

- (i) methane : Method 18 of 40 CFR, Part 60, Appendix A;
- (ii) NMOC : Method 25C of 40 CFR, Part 60, Appendix A; and
- (iii) HCl : Method 26 of 40 CFR, Part 60, Appendix A.

V. Testing Requirements (continued)

- 1.e** Emission Limitations:
(emissions from the control device)
80 lbs of CO/hr, 349 tons of CO/yr

Applicable Compliance Method:

Compliance with the hourly emission limitation above shall be based on a flare emission factor of 0.045 lb CO/hr/dscfm methane (AP-42, Chapter 2.4, Municipal Solid Waste Landfills [revised 8/98] and a maximum flow rate of 1,770 dscfm methane.

Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760, and then dividing by 2000).

If required, compliance with the hourly limitation above shall be demonstrated based upon Method 10 of 40 CFR, Part 60, Appendix A.

- 1.f** Emission Limitations:
(emissions from the control device)
4.3 lbs of NO_x/hr, 18.6 tons of NO_x/yr

Applicable Compliance Method:

Compliance with the hourly emission limitation above shall be based on a flare emission factor of 2.4E-03 lb NO_x/hr/dscfm methane (AP-42, Chapter 2.4, Municipal Solid Waste Landfills [revised 8/98] and a maximum flow rate of 1,770 dscfm methane.

Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760, and then dividing by 2000).

If required, compliance with the hourly limitation above shall be demonstrated based upon Method 7 of 40 CFR, Part 60, Appendix A.

- 1.g** Emission Limitations:
(emissions from the control device)
1.6 lbs of SO₂/hr, 6.8 tons of SO₂/yr

Applicable Compliance Method:

Compliance with the hourly emission limitation above shall be based on a value of 35.5 ppmv for reduced sulfur and equations (3), (4), and (7) from AP-42, Chapter 2.4, Municipal Solid Waste Landfills [revised 8/98].

Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760, and then dividing by 2000).

If required, compliance with the hourly limitation above shall be demonstrated based upon Method 6 of 40 CFR, Part 60, Appendix A.

V. Testing Requirements (continued)

- 1.h** Emission Limitations:
(emissions from the control device)
1.8 lbs of PE/hr, 7.9 tons of PE/yr

Applicable Compliance Method:

Compliance with the hourly emission limitation above shall be based on a flare emission factor of 0.001 lb PM/hr/dscfm methane (AP-42, Chapter 2.4, Municipal Solid Waste Landfills [revised 8/98] and a maximum flow rate of 1770 dscfm methane.

Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760, and then dividing by 2000).

If required, compliance with the hourly limitation above shall be demonstrated based upon Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

- 1.i** Emission Limitation:
2.86 tons of PE/yr fugitive landfill emissions

Applicable Compliance Method:

The above emission limitation was based on emission factors from AP-42, Chapter 11.9, Western Surface Coal Mining (revised 10/98), and a control efficiency of 90%.

- 2.** The nitrogen level of A.II.3 shall be determined using Method 3C of 40 CFR, Part 60, Appendix A, unless an alternative test method is established as allowed by 40 CFR Part 60.752(b)(2)(i).
- 3.** The oxygen level of A.II.3 shall be determined by an oxygen meter using Method 3A of 40 CFR, Part 60, Appendix A, unless an alternative test method is established as allowed by 40 CFR, Part 60.752(b)(2)(i), except that:
- a. the span shall be set so that the regulatory limit is between 20 and 50% of the span;
 - b. a data recorder is not required;
 - c. only two calibration gases are required, a zero and span, and ambient air may be used as the span;
 - d. a calibration error check is not required; and
 - e. the allowable sample bias, zero drift, and calibration drift are plus or minus 10%.
- 4.** The permittee shall conduct or have conducted, within 90 days after the installation of the collection and control system, an initial performance test to demonstrate that the flare can operate in conformance with the requirements specified in 40 CFR, Part 60.18. The net heating value of the gas being combusted in the flare and the actual exit velocity of the flare shall be determined in accordance with the procedures and methods specified in 40 CFR, Part 60.18. The visible emission evaluations shall be conducted in accordance with the procedures specified in Method 22 of 40 CFR, Part 60, Appendix A.
- 5.** After the installation of a collection and control system in compliance with OAC rule 3745-76-10, the permittee shall calculate the NMOC emission rate for the purposes of determining when the system can be removed as provided in paragraph (B)(2)(e) of OAC rule 3745-76-07 in accordance with the equation and procedures specified in paragraphs (B), (B)(1), and (B)(2) of OAC rule 3745-76-09. The permittee may use another method to determine landfill gas flow rate and NMOC concentration if the method has been approved by the Director as provided in paragraph (B)(2)(a)(ii) of OAC rule 3745-76-07.

VI. Miscellaneous Requirements

- 1.** OAC rule 3745-76-08(C) requires that maximum nitrogen or oxygen levels not be exceeded at interior wellheads. Considering the permittee's representation of the leachate cleanout risers as being located outside the landfill waste, the Ohio EPA has determined that they are not 'interior wells' as defined in OAC rule 3745-76-01(B)(11), and are therefore not subject to the nitrogen or oxygen level requirements.

VI. Miscellaneous Requirements (continued)

2. OAC rule 3745-76-13(B)(4) requires the tracking of periods of flame absence, apparently for the purpose of recording 'exceedances' of raw landfill gas releases from the flare. Considering that the permittee's flare system has an interlock mechanism that shuts off landfill gas flow at times when a flame is absent (and should therefore not be expected to have any such releases), the permittee proposes the use of 'zero' readings from the landfill gas continuous flow monitor in place of readings for flame absence. The Ohio EPA approves this, under OAC rule 76-07(B)(2)(a)(iv).

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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