



Environmental
Protection Agency

Ted Strickland, Governor
Lee Fisher, Lt. Governor
Chris Korleski, Director

10/19/2010

Certified Mail

Tony Furgiuele
Pine Grove Regional Facility
Pine Grove Regional Facility
5131 Drinkle Road
Amanda, OH 43102

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL
Facility ID: 0123000228
Permit Number: P0106388
Permit Type: OAC Chapter 3745-31 Modification
County: Fairfield

Yes	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
Yes	MACT/GACT
Yes	NSPS
Yes	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED

Dear Permit Holder:

Enclosed please find a final Air Pollution Permit-to-Install (PTI) which will allow you to install or modify the described emissions unit(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, we urge you to read it carefully. Please complete a survey at www.epa.ohio.gov/dapc/permitsurvey.aspx and give us feedback on your permitting experience. We value your opinion.

The issuance of this PTI is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Kevin Boyce," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. If you have any questions regarding this permit, please contact the Ohio EPA DAPC, Central District Office. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: U.S. EPA
Ohio EPA-CDO; Kentucky



FINAL

Division of Air Pollution Control
Permit-to-Install
for
Pine Grove Regional Facility

Facility ID: 0123000228
Permit Number: P0106388
Permit Type: OAC Chapter 3745-31 Modification
Issued: 10/19/2010
Effective: 10/19/2010



Division of Air Pollution Control
Permit-to-Install
for
Pine Grove Regional Facility

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Authorization

Facility ID: 0123000228

Facility Description: Refuse Systems

Application Number(s): A0039515, A0039764, A0040195

Permit Number: P0106388

Permit Description: This permit is a chapter 31 modification that includes an increase in the design capacity of the landfill to approximately 31,572,969 cubic yards and allows the facility to install a voluntary control device (open flare) prior to being required to install controls per 40 CFR 60.752(b)(2).

Permit Type: OAC Chapter 3745-31 Modification

Permit Fee: \$1,450.00

Issue Date: 10/19/2010

Effective Date: 10/19/2010

This document constitutes issuance to:

Pine Grove Regional Facility
5131 Drinkle Road
Amanda, OH 43102

of a Permit-to-Install for the emissions unit(s) identified on the following page.

Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Central District Office
50 West Town Street, 6th Floor
P.O. Box 1049
Columbus, OH 43216-1049
(614)728-3778

The above named entity is hereby granted a Permit-to-Install for the emissions unit(s) listed in this section pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency


Chris Korleski
Director



Authorization (continued)

Permit Number: P0106388
Permit Description: This permit is a chapter 31 modification that includes an increase in the design capacity of the landfill to approximately 31,572,969 cubic yards and allows the facility to install a voluntary control device (open flare) prior to being required to install controls per 40 CFR 60.752(b)(2).

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

Emissions Unit ID:	F002
Company Equipment ID:	Road/Operations
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P901
Company Equipment ID:	MSW Landfill
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable

A. Standard Terms and Conditions



1. Federally Enforceable Standard Terms and Conditions

- a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:
 - (1) Standard Term and Condition A.2.a), Severability Clause
 - (2) Standard Term and Condition A.3.c) through A. 3.e) General Requirements
 - (3) Standard Term and Condition A.6.c) and A. 6.d), Compliance Requirements
 - (4) Standard Term and Condition A.9., Reporting Requirements
 - (5) Standard Term and Condition A.10., Applicability
 - (6) Standard Term and Condition A.11.b) through A.11.e), Construction of New Source(s) and Authorization to Install
 - (7) Standard Term and Condition A.14., Public Disclosure
 - (8) Standard Term and Condition A.15., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations
 - (9) Standard Term and Condition A.16., Fees
 - (10) Standard Term and Condition A.17., Permit Transfers

2. Severability Clause

- a) 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.
- b) All terms and conditions designated in parts B and C of this permit are federally enforceable as a practical matter, if they 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 and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. Terms and conditions in parts B and C of this permit shall not be federally enforceable and shall be enforceable under State law only, only if specifically identified in this permit as such.

3. 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 re-issuance, or modification.

- 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, 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 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.

4. Monitoring and Related Record Keeping 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:
 - (1) The date, place (as defined in the permit), and time of sampling or measurements.
 - (2) The date(s) analyses were performed.
 - (3) The company or entity that performed the analyses.
 - (4) The analytical techniques or methods used.
 - (5) The results of such analyses.
 - (6) 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, 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.
- 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:
 - (1) Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the Ohio EPA DAPC, Central District Office.

- (2) 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 made to the Ohio EPA DAPC, Central District Office. The written reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See A.15. below if no deviations occurred during the quarter.
 - (3) Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted (i.e., postmarked) to the Ohio EPA DAPC, Central District Office every six months, by January 31 and July 31 of each year for the previous six calendar months. 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.
 - (4) This permit is for an emissions unit located at a Title V facility. 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.
- d) The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

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, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the Ohio EPA DAPC, Central District Office 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 shall be submitted pursuant to 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 emission unit(s) that is (are) served by such control system(s).

6. Compliance Requirements

- a) The emissions unit(s) identified in this Permit shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.
- b) Any document (including reports) required to be submitted and required by a federally applicable requirement in this 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.
- c) 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:

- (1) 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.
 - (2) 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 ORC section 3704.08.
 - (3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - (4) 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.
- d) The permittee shall submit progress reports to the Ohio EPA DAPC, Central District Office 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:
- (1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - (2) 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.

7. Best Available Technology

As specified in OAC Rule 3745-31-05, new sources that must employ Best Available Technology (BAT) shall comply with the Applicable Emission Limitations/Control Measures identified as BAT for each subject emissions unit.

8. 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.

9. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a) Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the Ohio EPA DAPC, Central District Office.

- 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 state-only required 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 Ohio EPA DAPC, Central District Office. 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 (i.e., postmarked) quarterly, 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.)

10. Applicability

This Permit-to-Install is applicable only to the emissions unit(s) identified in the Permit-to-Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

11. Construction of New Sources(s) and Authorization to Install

- a) This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.
- b) If applicable, authorization to install any new emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit if the owner or operator has not undertaken a continuing program of installation or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

- c) The permittee may notify Ohio EPA of any emissions unit that is permanently shut down (i.e., the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31) by submitting a certification from the authorized official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the authorized official that the emissions unit was permanently shut down. At a minimum, notification of permanent shut down shall be made or confirmed by marking the affected emissions unit(s) as "permanently shut down" in Ohio EPA's "Air Services" along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).
- d) The provisions of this permit shall cease to be enforceable for each affected emissions unit after the date on which an emissions unit is permanently shut down (i.e., emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31). All records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law. All reports required by this permit must be submitted for any period an affected emissions unit operated prior to permanent shut down. At a minimum, the permit requirements must be evaluated as part of the reporting requirements identified in this permit covering the last period the emissions unit operated.

No emissions unit certified by the authorized official as being permanently shut down may resume operation without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

- e) The permittee shall comply with any residual requirements related to this permit, such as the requirement to submit a deviation report, air fee emission report, or other any reporting required by this permit for the period the operating provisions of this permit were enforceable, or as required by regulation or law. All reports shall be submitted in a form and manner prescribed by the Director. All records relating to this permit must be maintained in accordance with law.

12. Permit-To-Operate Application

The permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77. The permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).

13. Construction Compliance Certification

The applicant shall identify the following dates in the online facility profile for each new emissions unit identified in this permit.

- a) Completion of initial installation date shall be entered upon completion of construction and prior to start-up.

- b) Commence operation after installation or latest modification date shall be entered within 90 days after commencing operation of the applicable emissions unit.

14. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

15. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

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., postmarked), by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

16. 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. The permittee shall pay all applicable permit-to-install fees within 30 days after the issuance of any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

17. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The new owner must update and submit the ownership information via the "Owner/Contact Change" functionality in Air Services once the transfer is legally completed. The change must be submitted through Air Services within thirty days of the ownership transfer date.

18. 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.

19. 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.

B. Facility-Wide Terms and Conditions

1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:
 - a) None.
2. The following emission units contained in this permit are subject to 40 CFR Part 60, Subparts WWW and 40 CFR Part 63, Subpart AAAA: P901. The complete NSPS and MACT requirements, including the NSPS and MACT General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website <http://ecfr.gpoaccess.gov> or by contacting the appropriate Ohio EPA District office or local air agency.

C. Emissions Unit Terms and Conditions



1. F002, Road/Operations

Operations, Property and/or Equipment Description:

Unpaved Roads and Parking Areas

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Table with 3 columns: Label, Applicable Rules/Requirements, and Applicable Emissions Limitations/Control Measures. Rows include OAC rule 3745-31-05(A)(3), OAC rule 3745-17-07 (B), and OAC rule 3745-17-08 (B).

(2) Additional Terms and Conditions

a. The permittee shall employ best available control measures on unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to treat the unpaved roadways and parking areas by application of chemical stabilization/dust suppressants and/or watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

b. 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 the unpaved roadways and parking areas that are 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.

- c. 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.
- d. 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.
- e. 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.
- f. The permittee shall set the speed limit on all unpaved roads within the facility to 15 mph to ensure compliance with the above regulations.
- g. 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).
- h. 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).

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) Except as otherwise provided in this section, the permittee shall perform inspections of each of the roadway segments and parking areas in accordance with the following frequencies:

<u>unpaved roadways and parking areas</u>	<u>minimum inspection frequency</u>
all roads and parking areas	daily

- (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) as (have) ended, except if the next required inspection is within one week.

- (3) The permittee may, upon receipt of written approval from the Ohio EPA, Central District Office (CDO), 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.
- (5) The information required in d)(4)d. shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

e) Reporting Requirements

- (1) The permittee shall submit quarterly 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.

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

f) Testing Requirements

- (1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following methods:
 - a. Emissions Limitation: There shall be no visible PE from unpaved roadways and parking areas except for three minutes during any 60-minute period.



Applicable Compliance Method: Compliance with the visible emission limitation listed 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, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03..

- g) Miscellaneous Requirements
 - (1) None.



2. P901, MSW Landfill

Operations, Property and/or Equipment Description:

MSW Landfill

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) d)(10) thru d)(13), and e)(4)
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	ORC 3704.03(T)	<p>Prior to installing the 4250 standard cubic feet per minute (scfm) open flare, emissions from the landfill shall be limited as follows:</p> <p>Fugitive non-methane organic compounds (NMOC) shall not exceed 307.8 tons per year as a rolling, 12-month summation.</p> <p>Fugitive methane organic compound emissions shall not exceed 48,140 tons per year as a rolling, 12-month summation.</p> <p>Fugitive total hazardous air pollutant (HAP) emissions shall not exceed 65.1 tons per year as a rolling, 12-month summation.</p> <p>Fugitive individual HAP emissions shall not exceed 22.1 tons per year as a rolling, 12-month summation.</p> <p>Fugitive volatile organic compound (VOC) emissions shall not exceed 120 tons per year as a rolling, 12-month summation.</p> <p>Visible fugitive particulate matter (PM) shall not exceed 20% opacity as a 3-</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>minute average.</p> <p>Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)e. through b)(2)i.].</p> <p>After the facility installs the open flare (4250 scfm), emissions from the landfill should be limited as follows:</p> <p>Fugitive NMOC emissions shall not exceed 49.5 tons per year as a rolling, 12-month summation.</p> <p>Fugitive VOC emissions shall not exceed 19.3 tons per year as a rolling, 12-month summation.</p> <p>Fugitive methane (CH₄) emissions shall not exceed 7,750 tons per year as a rolling, 12-month summation.</p> <p>Total HAP emissions shall not exceed 15.1 tons per year as a rolling, 12-month summation.</p> <p>Individual HAP emissions shall not exceed 4.5 tons per year as a rolling, 12-month summation.</p> <p>Emissions from the open flare (4250 scfm) shall be limited as follows:</p> <p>Nitrogen Oxide (NO_x) emissions shall not exceed 41.8 tons per year as a rolling, 12-month summation.</p> <p>Carbon monoxide (CO) emissions shall not exceed 227.3 tons per year as a rolling, 12-month summation.</p> <p>No visible emissions from the open flare, except for periods not to exceed a total of five minutes during any two consecutive hours.</p> <p>The requirements of this rule also include</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>compliance with the applicable requirements contained in 40 CFR, Part 60, Subpart WWW, 40 CFR Part 60.18, ORC 3704.03F(4)(c), OAC rule 3745-114, and 3745-20, NESHAP (40 CFR Part 61, Subparts A and M) and 40 CFR Part 63, Subpart AAAA.</p> <p>See b)(2)a., b. and t.</p>
b.	OAC rule 3745-31-05(A)(3), as effective 11/30/01	<p>Fugitive particulate matter (PM) shall not exceed 1.4 tons per year.</p> <p>Emissions from the open flare (4250 scfm) shall be limited as follows:</p> <p>PM shall not exceed 2.2 pounds per hour and 9.6 tons of PE per year.</p> <p>Sulfur dioxide emissions shall not exceed 2.1 pounds per hour and 9.0 tons per year.</p> <p>VOC emissions shall not exceed 0.3 pounds per hour and 1.2 tons of VOC per year.</p> <p>NMOC emissions shall not exceed 0.7 pounds per hour and 3.0 tons per year.</p> <p>Hydrogen chloride (HCL) emissions shall not exceed 1.0 pounds per hour and 4.5 tons per year.</p> <p>See b)(2)b. and t.</p>
c.	OAC rule 3745-31-05(A)(3)(b), as effective 12/01/06	See b)(2)c.
d.	<p>40 CFR Part 60, Subpart WWW (40 CFR Part 60.750-759)</p> <p>[In accordance with 60.750(a), this emission unit is a municipal solid waste landfill that commenced construction, reconstruction or modification on or after May 30, 1991.]. 40 CFR 60.750</p>	<p>Estimated NMOC emissions greater than 50 Mg requires design plan submittal within 1 year. [40 CFR 60.752(b)(i)]</p> <p>Install collection and control system within 30 months after the first annual report in which the emission rate equals or exceeds 50 Mg of NMOC. [40 CFR 60.752(b)(ii)]</p>
e.	40 CFR Part 60 Subpart A 40 CFR 60.1-19	The provisions of this part apply to the owner or operator of any stationary

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	40 CR 60.1(a)	source which contains an affected facility subject to a standard in 40 CFR 60.
f.	40 CFR Part 63, Subpart AAAA (40 CFR Part 63.1930-1990) [In accordance with 63.1940(a) this emission unit will become an affected source when it meets the criteria in 40 CFR 63.1935(a) or (b),]	Start up, Shut down, and Malfunction Plan and Semi-annual reports in accordance with 40 CFR 60.757(f). [40 CFR 63.1930]
g.	40 CFR Part 63 Subpart A 40 CFR 63.1-15 (40 CFR 63. 1965)	Table 1 to Subpart AAAA of 40 CFR 63-Applicability of General Provisions to Subpart AAAA shows which parts of the General Provisions of 40 CFR 63.1-15 apply.
h.	40 CFR Part 61, Subpart M (40 CFR 61.140-157) [In accordance with 63.1940(a) the provisions of this subpart are applicable to those sources specified in 61.142 through 61.151, 61.154, and 61.155. As specified in 61.154, this emission unit is an active waste disposal site that receives asbestos-containing waste material from a source covered under 61.149, 61.150, or 61.155] 40 CFR 61.154	See b)(2)j. through b)(2)s.
i.	40 CFR 61 Subpart A (40 CFR 61.01-19) 40 CR 60.01(a)	The provisions of this part apply to substances that, pursuant to section 112 of the Act, have been designated as hazardous air pollutants. Asbestos (36 FR 5931; Mar. 31, 1971)
j.	OAC rule 3745-17-08(B)	Exempt, pursuant to OAC 3745-17-08(A)(1). See b(2)d.
k.	OAC rule 3745-17-07(B)(1)	Exempt, pursuant to OAC 3745-17-07(B)(11)(e). See b(2)d.
l.	ORC 3704.03(F)(4)(c) and OAC rule 3745-114	See d)(10) thru d)(13), and e)(4)
m.	OAC rule 3745-20	See b)(2)j. through b)(2)s.
n.	OAC rule 3745-19	There shall be no open burning at the facility in violation of this rule.

- (2) Additional Terms and Conditions
- a. This PTI is a Chapter 31 modification to PTI 01-7425 issued March 17, 1999. This PTI supersedes PTI 01-7425. The revisions include:
 - i. increase the design capacity of the landfill to approximately 31,572,969 cubic yards;
 - ii. establish a new PM annual allowable emissions limitation;
 - iii. establish emissions limits associated with fugitive landfill gas emissions; and
 - iv. allow the facility to install a voluntary control device (open flare) prior to being required to install controls per 40 CFR 60.752(b)(2) as the current calculated NMOC emission rate for this facility is less than 50 megagrams per year (Mg/yr).
 - b. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulations for NAAQS pollutant less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirements to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006, version of 3745-31-05, then these emission limits/control measures no longer apply.
 - c. This rule paragraph applies once U.S. EPA approves the December 1, 2006, version of OAC rule 3745-31-05 as part of the State Implementation Plan. The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the sulfur dioxide, volatile organic compounds, and particulate emissions from this air contaminant source since the uncontrolled potential to emit for sulfur dioxide, volatile organic compounds, and particulate emissions is less than 10 tons per year.
 - d. There are no applicable emission limitations/control measures from OAC rules 3745-17-08(B) and 3745-17-07(B) because the facility is not located in an Appendix A area as specified in OAC rule 3745-17-08.
 - e. The permittee shall 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 construction materials, soils 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.

- f. The material handling activities that are covered by this permit and subject to the above-mentioned annual fugitive mass PM limitation and the visible fugitive PM limitation for operations are listed below:
 - i. waste handling (depositing, spreading, and compacting)
 - ii. landfill daily and intermediate cover handling
 - iii. wind erosion from landfill surfaces/storage piles
 - iv. general earthmoving and soil handling during landfill construction
 - v. landfill aggregate handling during landfill construction.
- g. The permittee shall employ best available control measures on all activities listed in 2.f. for the purpose of ensuring compliance with the above-mentioned applicable requirements (particulate emission limitations). In accordance with the permittee's permit application, the permittee has committed to covering the active storage piles or spraying them with water or a surfactant solution as necessary to control fugitive dust. Also in accordance with the permittee's permit application, the permittee has committed to covering the inactive storage piles with vegetation or another type of cover or spraying them with water or a surfactant solution as necessary to control fugitive dust. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- h. 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 if there is snow and/or ice cover or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements (particulate emission limitations). Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- 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.
- j. There shall be no visible emissions from asbestos-containing materials during on-site transportation, transfer, unloading, deposition or compacting operations.
- k. 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.
- l. 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 of 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 two lines.

- m. The permittee shall cover and compact asbestos wastes in accordance with the following:
- i. As soon as practical 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 asbestos-containing materials 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 covered in accordance with the provisions of condition (p)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 most stringent.
- n. 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 emission 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.

- o. The permittee shall have emission control equipment 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 equipment is in a ready-to-use condition, and in an appropriate location for use.
- p. The permittee shall require that all waste shipments received from NESHAP regulated facilities as defined in 40 CFR 61.141, be accompanied by a Waste Shipment Record as described in 40 CFR 61.150(d)(1). Shipments less than one cubic yard generated by residential sources may be exempted. 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.

The waste shipment records shall include, but not be limited to, the following information:

- i. the name, address and telephone number of the waste generator;
 - ii. the name, address and telephone number of the transporter;
 - iii. the quantity of asbestos-containing waste material, in cubic meters (cubic yards);
 - iv. the name and telephone number of the disposal site operator;
 - v. the presence of improperly enclosed or uncovered waste, or any asbestos-containing waste material not sealed in leak-tight containers;
 - vi. the name and physical site location of the disposal site; and
 - vii. the date of receipt.
- q. The permittee shall cover all wastes with at least 6 inches of soil or alternative cover at the end of each day.
 - r. The permittee shall not accept any load of friable asbestos-containing waste material for disposal unless it has been labeled in accordance with the requirements below:

Each container of friable asbestos-containing waste material shall be labeled in accordance with the requirements of the NESHAP at 40 CFR Part 61, Subpart M; or the Ohio Administrative Code rule 3745-20-05; or the Occupational Safety and Health Administration; or the Department of Transportation or any subsequent revision to the preceding rule; and shall contain the following information:

DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD

R.Q. ASBESTOS, CLASS 9
NA 2212, III

Inspection of incoming loads of asbestos-containing material for compliance with proper labeling requirements may occur at the working face of the landfill.

- s. All asbestos-containing waste materials shall be received in sealed, approved, leak-tight waste disposal containers in accordance with b)(2)s.i. or in approved alternative disposal containers in accordance with b)(2)s.ii., b)(2)s.iii., or b)(2)s.iv. below:
- i. Asbestos-containing waste material shall be sealed in plastic bags having a thickness of at least 0.006 inch (six-mils). A second clean, leak tight plastic bag having a thickness of at least 0.006 inch (six-mils) shall fully contain the first bag.
 - ii. Whenever necessary to prevent any asbestos-containing waste material from penetrating a container, the material shall be sealed into a combination of 0.006 inch (six-mils) plastic bag and leak-tight steel, plastic, or fiber drums, or reinforced disposal box, leak-tight polypropylene woven fabric bag, or similar suitable and durable container. Drums shall be fitted with a matching lid and lock-rims, and boxes shall be banded and sealed with reinforced tape or in accordance with manufacturer's recommendations.
 - iii. Non-friable waste materials which have the potential to become friable during handling or disposal operations, and components coated with, covered or containing friable asbestos materials shall be wrapped in no less than 0.012 inch (twelve-mils) of leak tight plastic, or at least 0.01 inch (ten-mils) of leak tight polypropylene fabric. This facility shall not accept wrapped pipes or components for disposal, unless a system for unloading and disposing of the waste without causing emissions of asbestos can be assured.
 - iv. Alternative leak-tight containers or disposal systems for asbestos-containing materials may be approved by Ohio EPA CDO for special utility. The permittee is authorized to accept any alternative container or load approved in writing by Ohio EPA CDO. Acceptance of any alternative container or load is at the discretion of the landfill and shall be in accordance with the terms and conditions issued in the alternative container or disposal system approval as issued in writing by Ohio EPA CDO.
- t. Based on the maximum annual waste acceptance rate of 1,825,000 tons per year, this emissions unit is permitted at its potential to emit, as defined in OAC rule 3745-31-01, for all pollutants.

u. The permittee shall properly install, operate, and maintain a device to continuously monitor the pilot flame when the open flare is in operation. The monitoring device and any recorder shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals.

w. All 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, as determined by Method 22 of Appendix A of 40 CFR Part 60, 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 when gases are vented to it. The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame. The net heating value of the gas being combusted and the actual exit velocity shall be calculated as required in the Testing Section of this permit.

iii. Flares shall be steam-assisted, air-assisted, or non-assisted, and shall comply with the following requirements for the heat content in paragraph "(a)" **and** the maximum tip velocity in paragraph "(b)", **or** shall comply with the alternative requirements in paragraph "(c)" for nonassisted flares:

(a) Steam-assisted or air-assisted flares shall have a net heating value of 300 Btu/scf (11.2 MJ/scm) or greater, for the gas being combusted.

Nonassisted flares shall have a net heating value of 200 Btu/scf (7.45 MJ/scm) for the gas being combusted.

The net heating value of the gas being combusted shall be calculated as required in the Testing Section of this permit.

(b) Steam-assisted and/or nonassisted flares shall be designed for and operated with an exit velocity of less than 18.3 m/sec (60 ft/sec), with the following exceptions:

(i) steam-assisted and nonassisted flares, having a net heating value of 1,000 Btu/scf (37.3 MJ/scm) for the gas being combusted, can be designed for and operated with an exit velocity equal to or greater than 18.3 m/sec (60 ft/sec), but less than 122 m/sec (400 ft/sec); and

(ii) steam-assisted and nonassisted flares can be designed for and operated with an exit velocity of less than the velocity calculated below for V_{max} , and less than 122 m/sec (400 ft/sec):

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

where:

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

28.8 = constant;

31.7 = constant; and

H_T = the net heating value as determined in the Testing Section of this permit.

Air-assisted flares shall be designed and operated with an exit velocity less than the velocity V_{\max} , calculated as follows:

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

where:

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

8.706 = constant;

0.7084 = constant; and

H_T = the net heating value as determined in the Testing Section of this permit.

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

$$V_{\max} = (X_{H_2} - K_1) K_2$$

where:

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

K_1 = constant, 6.0 volume-percent hydrogen;

K_2 = constant, 3.9 (m/sec)/volume-percent hydrogen; and

X_{H_2} = the volume-percent of hydrogen, on a wet basis, as calculated by using the ASTM Method D1946-90.

c) Operational Restrictions

- (1) See 40 CFR Part 60, Subpart WWW (40 CFR 60.752(b)-(d), 60.753(a)-(g), 60.759(a)-(c))
- (2) See 40 CFR Part 63, Subpart AAAA (40 CFR 63.1955)
- (3) See 40 CFR Part 61, Subpart M (40 CFR 61.140-157)
- (4) A pilot flame shall be maintained at all times in the flare's pilot light burner.

d) Monitoring and/or Recordkeeping Requirements

- (1) See 40 CFR Part 60, Subpart WWW (40 CFR 60.756)
- (2) See 40 CFR Part 63, Subpart AAAA (40 CFR 63.1980)

- (3) See 40 CFR part 61, Subpart M (40 CFR 61.140-157)
- (4) The permittee shall perform daily inspections to observe the following material handling activities when the activity(ies) is (are) being conducted:
 - a. waste handling (depositing, spreading and compacting)
 - b. landfill daily and intermediate cover handling
 - c. wind erosion from landfill surfaces
 - d. general earthmoving and soil handling during landfill construction landfill aggregate handling

The inspections shall be documented and recorded as required in condition d)(7), below.

- (5) No inspection shall be necessary when the material handling activity(ies) is (are) not being conducted, when there is snow and/or ice cover, and/or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned visible fugitive PE limitation. Any required inspection that is not performed due to any of the above identified events shall be performed during the next inspection pursuant to the minimum inspection frequency.
- (6) The purpose of the material handling activity (ies) inspections is to determine the need for implementing the control measures specified in this permit to minimize and eliminate visible emissions of fugitive dust from the activities. The inspections shall be performed during representative, normal landfill operating conditions.
- (7) The permittee shall maintain a daily operations log which lists all of the above landfill activities (Note that if the records required in this Term and Condition exactly duplicate any records required under the facility's Division of Solid and Infectious Waste Management (DSIWM) permit the DSIWM record will suffice to meet this Term and Condition). The daily operations log shall clearly indicate/contain the following:
 - a. the date and whether an inspection was performed and, if not performed, the reason why the inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the activities which were in operation;
 - c. each activity where it was determined by the person conducting the inspection that it was necessary to implement the control measures to meet the above-mentioned visible fugitive PE limitation;
 - d. whether control measures were employed to minimize or eliminate visible emissions of fugitive dust; and

- e. with regards to the waste handling activities, the amount, in tons, of waste material accepted for disposal.
- (8) The permittee shall maintain an annual cumulative (calendar year) record to be updated quarterly:
- a. of days inspections were not performed by the required frequency, and;
 - b. of days in which control measures were determined to be necessary by an inspector, but were not implemented.
- (9) The permittee shall keep for at least 5 years, up-to-date, readily accessible, on-site records of the design capacity report, the current amount of solid waste in place, and the monthly waste acceptance rate and the total waste acceptance rate in tons per rolling 12-months.
- (10) The PTI application for this emissions unit was evaluated based on the actual materials and the design parameters of the emissions unit's(s') exhaust system, as specified by the permittee. The Toxic Air Contaminant Statute, ORC 3704.03(F), was applied to this/these emissions unit(s) for each toxic air contaminant listed in OAC rule 3745-114-01, using data from the permit application; and modeling was performed for each toxic air contaminant(s) emitted at over one ton per year using an air dispersion model such as SCREEN3, AERMOD, or ISCST3, or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the approved air dispersion model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as described in the Ohio EPA guidance document entitled review of New Sources of Air Toxic Emissions, Option A, as follows:
- a. the exposure limit, expressed as a time-weighted average concentration for a conventional 8-hour workday and a 40- hour workweek, for each toxic compound(s) emitted from the emissions unit(s), (as determined from the raw materials processed and/or coatings or other materials applied) has been documented from one of the following sources and in the following order of preference (TLV was and shall be used, if the chemical is listed):
 - i. threshold limit value (TLV) from the American Conference of Governmental Industrial Hygienists' (ACGIH) Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices; or
 - ii. STEL (short term exposure limit) or the ceiling value from the American Conference of Governmental Industrial Hygienists' (ACGIH) Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices; the STEL or ceiling value is multiplied by 0.737 to convert the 15-minute exposure limit to an equivalent 8-hour TLV.
 - iii. The TLV is divided by ten to adjust the standard from the working population to the general public (TLV/10).
 - iv. This standard is/was then adjusted to account for the duration of the exposure or the operating hours of the emissions unit(s), i.e., 24 hours

per day and 7 days per week, from that of 8 hours per day and 5 days per week. The resulting calculation was (and shall be) used to determine the Maximum Acceptable Ground-Level Concentration (MAGLC):

$$TLV/10 \times 8/24 \times 5/7 = 4 \text{ TLV}/8760 = \text{MAGLC}$$

- v. The following summarizes the results of dispersion modeling for the significant toxic contaminants (emitted at 1 or more tons/year) or worst case toxic contaminant(s):

For worst-case control device scenario

SCREEN3 Modeling	Hydrogen Chloride
Pollutant Emission Rate (lb/hr)	1.03
Pollutant Emission Rate (gram/sec)	0.13
Distance From Exhaust Stack to Property Line (m)	91 (300 ft)
Distance From Exhaust Stack to Maximum Concentration (m)	1011
Max 1-hr Concentration @ 1 gram/sec Emission Rate (ug/m ³)	1.74
Max 1-hr Concentration @ Above Emission Rate (ug/m ³)	0.226
TLV (ppmv)	2
MAGLIC (TLV/42) (ug/m ³)	71.1
Result	0.226 < 71.1 - OK

The permittee, has demonstrated that emissions of hydrogen chloride from the landfill operations are calculated to be less than eighty percent of the maximum acceptable ground level concentration (MAGLC); any new raw material or processing agent shall not be applied without evaluating each component toxic air contaminant in accordance with the Toxic Air Contaminant Statute, ORC 3704.03(F).

- (11) Prior to making any physical changes to or changes in the method of operation of the emissions unit(s), that could impact the parameters or values that were used in the predicted 1-hour maximum ground-level concentration, the permittee shall re-model the change(s) to demonstrate that the MAGLC has not been exceeded. Changes that can affect the parameters/values used in determining the 1-hour maximum ground-level concentration include, but are not limited to, the following:
 - a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a new toxic air contaminant with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled;

- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any toxic air contaminant listed in OAC rule 3745-114-01, that was modeled from the initial (or last) application; and
- c. physical changes to the emissions unit(s) or its/their exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.)

If the permittee determines that the Toxic Air Contaminant Statute will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to a non-restrictive change to a parameter or process operation, where compliance with the Toxic Air Contaminant Statute, ORC 3704.03(F), has been documented. If the change(s) meet(s) the definition of a "modification", the permittee shall apply for and obtain a final PTI, PTIO, or FEPTIO (as applicable) prior to the change. The Director may consider any significant departure from the operations of the emissions unit, described in the permit application, as a modification that results in greater emissions than the emissions rate modeled to determine the ground level concentration; and he/she may require the permittee to submit a permit application for the increased emissions.

- (12) The permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the Toxic Air Contaminant Statute, ORC 3704.03(F):
 - a. description of the parameters/values used in each compliance demonstration and the parameters or values changed for any re-evaluation of the toxic(s) modeled (the composition of materials, new toxic contaminants emitted, change in stack/exhaust parameters, etc.);
 - b. the Maximum Acceptable Ground-Level Concentration (MAGLC) for each significant toxic contaminant or worst-case contaminant, calculated in accordance with the Toxic Air Contaminant Statute, ORC 3704.03(F);
 - c. a copy of the computer model run(s), that established the predicted 1-hour maximum ground-level concentration that demonstrated the emissions unit(s) to be in compliance with the Toxic Air Contaminant Statute, ORC 3704.03(F), initially and for each change that requires re-evaluation of the toxic air contaminant emissions; and
 - d. the documentation of the initial evaluation of compliance with the Toxic Air Contaminant Statute, ORC 3704.03(F), and documentation of any determination that was conducted to re-evaluate compliance due to a change made to the emissions unit(s) or the materials applied.
- (13) The permittee shall maintain a record of any change made to a parameter or value used in the dispersion model, used to demonstrate compliance with the Toxic Air Contaminant Statute, ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration. The record shall include the date and reason(s) for the change and if the change would increase the ground-level concentration

- (14) The permittee shall inspect each load of asbestos containing-material delivered to this facility as follows:
- a. The inspection shall consist of visual examination to ensure that each shipment of asbestos-containing materials 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 inspector also shall determine whether the waste shipment records (WSR) accompany the consignment and accurately describe the waste material and quantity.
 - b. If on the basis of the inspection, the asbestos-containing 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 notation shall be made on the waste shipment record.
 - c. The owner or on-duty operator shall notify the CDO of any load of asbestos-containing material which is rejected, or non-conforming in accordance with the Asbestos Spill Contingency Plan. Notification shall be provided as soon as possible by a phone contact, followed in writing the next working day by providing a copy of the waste shipment record, if available, or when waste is not shipped with a WSR, by providing available information on 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 CDO is informed and provided the opportunity to inspect.
- (15) The permittee shall maintain records of the following information:
- a. the waste shipment record form for each shipment of asbestos-containing materials; and
 - 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, or a 3D grid log of the disposal area.
- (16) The permittee shall monitor the flare to ensure that it is operated and maintained in conformance with its design and the requirements contained in this permit.
- (17) The permittee shall record the following information each day for the flare and process operations:
- a. all periods during which there was no pilot flame; and
 - b. the operating times for the flare, monitoring equipment, and the associated emissions unit.
- (18) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

For [OAC rule 3745-17-07(A)(1)] or if TV [OAC rule 3745-77-07(A)(3)]

e) Reporting Requirements

- (1) See 40 CFR Part 60, Subpart WWW (40 CFR 60.757(a)-(g))
- (2) See 40 CFR Part 63, Subpart AAAA (40 CFR 63.1980)
- (3) See 40 CFR Part 61, Subpart M (40 CFR 61.140-157)
- (4) The permittee shall submit annual reports to the CDO, documenting any changes made to a parameter or value used in the dispersion model, that was used to demonstrate compliance with the Toxic Air Contaminant Statute, ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration. If no changes to the emissions unit(s) or the exhaust stack have been made, then the report shall include a statement to this effect. This report shall be postmarked or delivered no later than January 31 following the end of each calendar year.
- (5) This facility shall prepare and submit quarterly reports summarizing asbestos disposal activities. Each report shall contain the following information:
 - a. the name, address, and location of this facility; the calendar period covered by the report; and changes in methods of storage or disposal operations; and
 - b. a list of all asbestos-containing waste consignments received, including:
 - i. the date received;
 - ii. the name, address and telephone number of the waste generator;

- iii. the name and location of the facility where the load originated;
- iv. the name, address and telephone number of the transporter;
- v. the quantity of asbestos-containing waste material received; and
- vi. any discrepancy or non-conformity discovered.

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

- (6) As soon as possible and no longer than 30 days after receipt of the waste, the permittee shall send a copy of the signed waste shipment record to the waste generator.
- (7) Upon discovery of 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 Ohio EPA, CDO. Describe the discrepancy and attempts to reconcile it, and submit a copy of the waste shipment record along with the report.
- (8) The permittee shall submit, within 60 days of the facility becoming inactive and ceasing accepting waste, a copy of the records of the asbestos waste disposal locations and quantities to the Ohio EPA, CDO.
- (9) The permittee shall notify the Ohio EPA, CDO 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); and
 - d. location of any temporary storage site and the final disposal site.
- (10) The permittee shall submit quarterly deviation reports that identify all periods of time during which the pilot flame was not functioning properly or the flare was not maintained as required in this permit. The reports shall include the date, time, and duration of each such period.

- (11) The permittee shall submit semiannual written reports that identify:
- a. each day during which an inspection of the material processing and handling operations was not performed by the required frequency; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
 - c. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
 - d. any corrective actions taken to minimize or eliminate the visible particulate emissions from the stack.

These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

f) Testing Requirements

- (1) See 40 CFR part 60, Subpart WWW (40 CFR 60.755)
- (2) Compliance with the emission limitation(s) in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation: PM from the MSW landfill operations shall not exceed 1.4 tons per year.

Applicable Compliance Method: Compliance shall be demonstrated by employing the emission factors derived from the equations in AP042, Compilation of Air Pollution Emission Factors, Chapter 13.2.4 (November 2006), for all material handling and storage piles and the information provided by the permittee in the PTI Application. Note: Maximum potential uncontrolled emission rates for material handling and storage piles were calculated by using worst case calculations contained in the application based upon material handling being performed to support 5,000 tons per day (TPD) waste acceptable rate (Allowable Maximum Daily Waste Receipt).

- b. Emissions Limitation:

The following emission limitations shall become applicable the calendar year after the facility installs controls in accordance with 40 CFR 60.752(b)(2):

Fugitive non-methane organic compounds (NMOC) emission shall not exceed 307.8 tons per year as a rolling, 12-month summation.

Fugitive VOC emissions shall not exceed 120.0 tons per year as a rolling, 12-month summation.

Fugitive methane (CH₄) emissions shall not exceed 48,140 tons per year as a rolling, 12-month summation.

Total Hazardous Air Pollutant (HAP) emissions shall not exceed 65.1 tons per year as a rolling, 12-month summation.

Individual HAP emissions shall not exceed 22.1 tons per year.

The following emission limitations shall become applicable the calendar year after the facility installs controls in accordance with 40 CFR 60.752(b)(2):

Fugitive non-methane organic compounds (NMOC) emission shall not exceed 49.5 tons per year as a rolling, 12-month summation.

Fugitive VOC emissions shall not exceed 19.3 tons per year as a rolling, 12-month summation.

Fugitive methane (CH₄) emissions shall not exceed 7,750 tons per year as a rolling, 12-month summation.

Total Hazardous Air Pollutant (HAP) emissions shall not exceed 15.1 tons per year as a rolling, 12-month summation.

Individual HAP emissions shall not exceed 4.5 tons per year.

Applicable Compliance Method: Fugitive landfill emissions resulting from the biological breakdown of organic wastes shall not exceed the values shown in Section 2.b)1. which are based on calculations performed with the use of USEPA's Landfill estimation program (LANDGEM) as found in AP-42. These calculations represent the highest emission rates which could occur based on landfill gas emission rates predicted by a maximum annual rate of waste material accepted for disposal of 1,825,000 tons, USEPA's Landfill estimation program (LANDGEM), AP-42 and other emission factors, a capture efficiency of 75% for the gas collection and control system, an assumption that 25% of the wastes disposed are inert and are not broken down to create landfill gas, and other assumptions contained in the application.

- c. Emission Limitation: Visible fugitive particulate emissions from landfill operations shall not exceed 20 percent opacity as a three-minute average.

Applicable Compliance Method: Compliance with the visible emission limitation identified above shall be determined in accordance with Test Method 9 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, 2002, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

- d. Emission Limitations: Hourly emissions limitations from the open flare controlling emissions from this emissions unit shall be limited as follows:

PM shall not exceed 2.2 pounds per hour;

SO₂ emissions shall not exceed 2.1 pounds per hour;

NMOC emissions shall not exceed 0.7 pounds per hour;

VOC emissions shall not exceed 0.3 pounds per hour;

HCl emissions shall not exceed 1.0 pounds per hour;

- i. Applicable Compliance Method for PM: Compliance with the above hourly emission limitation shall be determined using the following calculation:

$$\frac{\text{Flow Rate ft}^3}{\text{minute}} \times \frac{0.XX \text{ ft}^3 \text{ CH}_4}{\text{ft}^3 \text{ LFG}} \times \frac{10^3 \text{ BTU}}{\text{ft}^3 \text{ CH}_4} \times \frac{\text{EF } 17 \text{ lbs PM}^*}{10^6 \text{ BTU}} \times \frac{60 \text{ minutes}}{\text{hour}} = 2.2 \text{ lbs/hr}$$

*AP-42, Section 2.4, Municipal Solid Waste Landfills [11/98]

Initial compliance was determined using the following values: Flow Rate = 3,910 dscfm (dry standard cubic feet) and an assumption of .55 ft³ of methane per cubic foot of landfill gas. Flow rate is based upon highest potential collected volume of landfill gas as provided in the PTI application.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 5.

- ii. Applicable Compliance Method for CO: Compliance with the above hourly emission limitation shall be determined using the record keeping required in section d above and the following calculation:

$$\frac{\text{Flow Rate ft}^3}{\text{minute}} \times \frac{0.XX \text{ ft}^3 \text{ CH}_4}{\text{ft}^3 \text{ LFG}} \times \frac{10^3 \text{ BTU}}{\text{ft}^3 \text{ CH}_4} \times \frac{0.37 \text{ lbs CO}^*}{10^6 \text{ BTU}} \times \frac{60 \text{ minutes}}{\text{hour}} = 51.9 \text{ lbs/hr}$$

*This value has been established based upon a manufacturer's performance guarantee.

Initial compliance was determined using the following values: Flow Rate = 4,250 scfm (standard cubic feet) and an assumption of .55 ft³ of methane per cubic foot of landfill gas. Flow rate is based upon highest potential collected volume of landfill gas as provided in the PTI application.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 10.

- iii. Applicable Compliance Method for NOx: Compliance with the above hourly emission limitation shall be determined using the record keeping required in section d above and the following calculation:

$$\frac{\text{Flow Rate ft}^3}{\text{minute}} \times \frac{0.55 \text{ ft}^3 \text{ CH}_4}{\text{ft}^3 \text{ LFG}} \times \frac{10^3 \text{ BTU}}{\text{ft}^3 \text{ CH}_4} \times \frac{0.068 \text{ lbs NOx}^*}{10^6 \text{ BTU}} \times \frac{60 \text{ minutes}}{\text{hour}} = 9.5 \text{ lbs/hr}$$

*This value has been established based upon a manufacturer's performance guarantee.

Initial compliance was determined using the following values: Flow Rate = 4,250 scfm (standard cubic feet) and an assumption of .55 ft³ of methane per cubic foot of landfill gas. Flow rate is based upon highest potential collected volume of landfill gas as provided in the PTI application.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 7E.

- iv. Applicable Compliance Method for SO₂: Compliance with the above hourly emission limitation shall be determined using the following calculation:

$$\frac{\text{Flow Rate ft}^3}{\text{minute}} \times \frac{49.6 \text{ ppmv}^*}{10^6 \text{ MMscf/scf}} \times \frac{0.066^1}{(0.7302^2 \times 520^3)} \times \frac{60 \text{ minutes}}{\text{hour}} = 2.1 \text{ lbs/hr}$$

*Sulfur concentration in the exhaust gas from AP-42 = 49.6 ppmv based upon 99.7% landfill gas control efficiency (represents worst-case emissions for SO₂)

¹ molecular wt of SO₂
² universal gas constant
³ temperature

Initial compliance was determined using the following values: Flow Rate = 4,250 scfm of landfill gas. Flow rate is based upon highest potential collected volume of landfill gas as provided in the PTI application.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 6C.

- v. Applicable Compliance Method for NMOC: Compliance with the above hourly emission limitation shall be determined using the following calculation:

$$\frac{\text{Flow Rate ft}^3}{\text{Minute}} \left| \frac{595 \text{ ppmv}^*}{10^6 \text{ MMscf/scf}} \right| \left| \frac{86.18^1}{(0.7302^3 \times 520^4)} \right| \left| \frac{60 \text{ minutes}}{\text{hour}} \right| \times (1-0.98)^2 = 1.2 \text{ lbs/hr}$$

- * NMOC concentration in inlet gas based on AP-42 = 595 ppmv.
- ¹ molecular wt of NMOC as hexane
- ² control efficiency of the control device(s)
- ³ universal gas constant
- ⁴ temperature

Initial compliance was determined using the following values: Flow Rate = 4,250 scfm of landfill gas. Flow rate is based upon highest potential collected volume of landfill gas a provided in the PTI application.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1-4 and 18 of 40 CFR Part 60, Appendix A.

- vi. Applicable Compliance Method for VOC: Compliance with the above hourly emission limitation shall be determined using the following calculation:

$$\frac{\text{Flow Rate ft}^3}{\text{Minute}} \left| \frac{595 \text{ ppmv}^*}{10^6 \text{ MMscf/scf}} \right| \left| \frac{86.18^1}{(0.7302^3 \times 520^4)} \right| \left| \frac{60 \text{ minutes}}{\text{hour}} \right| \left| \frac{(1-0.98)^2}{0.39^5} \right| = 0.3 \text{ lbs/hr}$$

- * NMOC concentration in inlet gas based on AP-42 = 595 ppmv
- ¹ molecular wt of NMOC as hexane
- ² control efficiency of the control device(s)
- ³ universal gas constant
- ⁴ temperature
- ⁵ percentage of VOC in landfill gas

Initial compliance was determined using the following values: Flow Rate = 4,250 scfm of landfill gas. Flow rate is based upon highest potential collected volume of landfill gas a provided in the PTI application.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1-4 and 18 of 40 CFR Part 60, Appendix A.

- vii. Applicable Compliance Method for HCL: Compliance with the above hourly emission limitation shall be determined using the following calculation:

$$\frac{\text{Flow Rate ft}^3}{\text{Minute}} \left| \frac{42 \text{ ppmv}^*}{10^6 \text{ MMscf/scf}} \right| \left| \frac{36.5^1}{(0.7302^2 \times 520^3)} \right| \left| \frac{60 \text{ minutes}}{\text{hour}} \right| = 1.0 \text{ lb/hr}$$

*HCl concentration in the exhaust gas from AP-42 = 42.0 ppmv based upon 99.7% landfill gas control efficiency (represents worst-case emissions for HCl)

¹ molecular wt of HCl

² universal gas constant

³ temperature

Initial compliance was determined using the following values: Flow Rate = 4,250 scfm of landfill gas. Flow rate is based upon highest potential collected volume of landfill gas as provided in the PTI application.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1-4 and 265 or 26A of 40 CFR Part 60, Appendix A.

- e. Emission Limitations: Annual emissions limitations from the open flare controlling emissions from this emissions unit shall be limited as follows:

PM shall not exceed 9.6 tons of PE per year.

NO_x emissions shall not exceed 41.8 tons of NO_x per year as a rolling, 12-month summation.

CO emissions shall not exceed 227.3 tons of CO per year as a rolling, 12-month summation.

SO₂ emissions shall not exceed 9.0 tons of SO₂ per year.

NMOC emissions shall not exceed 3.0 tons of NMOC per year.

VOC emissions shall not exceed 1.2 tons of VOC per year.

HCl emissions shall not exceed 4.5 tons of HCl per year.

Applicable Compliance Method: Compliance with the annual allowable emissions limitations shall be assumed as long as compliance with the allowable hourly emissions limit is maintained (each annual limitation was calculated by multiplying the hourly allowable emissions limit by 8760, and then dividing by 2000).

- f. Emission Limitation: There shall be no visible emissions from asbestos-containing materials during on-site transportation, transfer, unloading, deposition or compacting operations.

Applicable Compliance Method: Compliance shall be demonstrated by satisfying the requirements specified in b)(1) and b)(2). If required, compliance shall be determined through visible emission observations performed in accordance with U.S. EPA Method 22 and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

- g. Emission Limitation: No visible emissions from the open flare, except for periods not to exceed a total of five minutes during any two consecutive hours.

Applicable Compliance Method: If required, compliance shall be determined through visible emission observations performed in accordance with U.S. EPA Method 22.

g) **Miscellaneous Requirements**

This PTI will allow the Pine Grove landfill to install a voluntary control device (open flare, OR other control device allowed in accordance with NSPS WWW and meeting the emission limitations in this PTI) prior to being required to install controls per 40 CFR 60.752(b)(2) as the current calculated NMOC emission rate for this facility is less than 50 megagrams per year (Mg/yr).