



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL  
FRANKLIN COUNTY**

**CERTIFIED MAIL**

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049

**Application No: 01-08891**

**Fac ID: 0125002349**

**DATE: 3/17/2005**

Frank Road C and D  
Mark Ruof  
255 South Liberty Street  
Powell, OH 43065

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging 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 Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 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. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. 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, Ohio 43215

Sincerely,

Michael W. Ahern, Manager  
Permit Issuance and Data Management Section  
Division of Air Pollution Control

CC: USEPA

CDO



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**Permit To Install  
Terms and Conditions**

**Issue Date: 3/17/2005  
Effective Date: 3/17/2005**

**FINAL PERMIT TO INSTALL 01-08891**

Application Number: 01-08891  
Facility ID: 0125002349  
Permit Fee: **\$2400**  
Name of Facility: Frank Road C and D  
Person to Contact: Mark Ruof  
Address: 255 South Liberty Street  
Powell, OH 43065

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**2300 Brown Road  
Columbus, Ohio**

Description of proposed emissions unit(s):  
**Material handling and vehicular traffic.**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) 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 above described 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

Director

## Part I - GENERAL TERMS AND CONDITIONS

### A. Permit to Install General Terms and Conditions

#### 1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

#### 2. Reporting 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

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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. Termination of Permit to Install**

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. 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.

**9. Construction of New Sources(s)**

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio

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Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. 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 the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install 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.

**10. 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.

**11. Applicability**

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

**12. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

**13. Source Operation and Operating Permit Requirements After Completion of Construction**

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

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**14. Construction Compliance Certification**

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

**15. 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 this Permit to Install.

**B. Permit to Install Summary of Allowable Emissions**

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)  
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	37.9

## PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

### A. Applicable Emissions Limitations and/or Control Requirements

- The specific operations(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 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>
F003 - Paved roadways and parking areas (Terms in this permit supercede those identified in PTI 01-6787 issued 6/7/00).	OAC rule 3745-31-05(A)(3)	<p>Particulate emissions (PE) shall not exceed 21.7 tons per year.</p> <p>There shall be no visible PE from any paved roadway or parking area, except for a period of time not to exceed 1 minute during any 60-minute observation period.</p>
Unpaved roadways and parking areas	OAC rules 3745-17-08 (B)	<p>Employ best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See A.I.2.c, A.I.2f, A.I.2h, A.I.2i, A.I.2j, and A.I.2k.).</p>
Unpaved roadways and parking areas	OAC rule 3745-31-05(A)(3)	<p>Particulate emissions (PE) shall not exceed 12.0 tons per year.</p> <p>There shall be no visible PE from any unpaved roadway or parking area, except for a period of time not to exceed 3 minutes during any 60-minute observation period.</p>
Unpaved roadways and parking areas	OAC rules 3745-17-08 (B)	<p>Employ best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See A.I.2.d, A.I.2e, A.I.2f, A.I.2g, A.I.2i, A.I.2.j, and A.I.2k).</p>

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**Frank**

**PTI A**

**Issued: 3/17/2005**

Emissions Unit ID: **F003**

## **2. Additional Terms and Conditions**

- 2.a** The paved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:

paved roadway and parking areas

- 2.b** The unpaved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:

unpaved roadway and parking areas

- 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. The permittee shall employ water flushing and mechanical sweeping for the paved roadways and parking areas at sufficient 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 the unpaved shoulders of all paved roadways for the purpose of ensuring compliance with the above-mentioned applicable requirements. The permittee will improve the surface of any unpaved shoulders as necessary to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.e** 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. The permittee shall employ water as well as improve the surface of any unpaved roadway and parking area as necessary to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.f** 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.

**Emissions Unit ID: F003**

- 2.g** 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 measure(s) 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.h** 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.i** 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.j** 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.k** This emissions unit is located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is subject to the RACM requirements established in OAC rule 3745-17-08(B).

**B. Operational Restrictions**

None

**C. Monitoring and/or Recordkeeping Requirements**

1. Except as otherwise provided in this section, the permittee shall perform inspections of the paved and unpaved roadways 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) has (have)

ended, except if the next required inspection is within one week.

3. The permittee may, upon receipt of written approval from Ohio EPA, Central District Office, 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 daily 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 4.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.

5. Reconfiguration of the roadways and parking areas and variations in traffic patterns at this facility may not be a modification under OAC rule 3745-31-01 as long as emissions are equal to or less than the established PTI limitations. If the change is determined to be a modification then the permittee must apply for and obtain a permit to install prior to the installation of the change

#### **D. 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.
2. These reports are due by the dates as specified in Part I - General Terms and Condition A. of this permit.

**E. Testing Requirements**

1. Emission Limitation:

There shall be no visible PE from any paved roadway or parking area, except for a period of time not to exceed 1 minute during any 60-minute observation period.

There shall be no visible PE from any unpaved roadway or parking area, except for a period of time not to exceed 3 minutes during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the emission limitations for the paved and unpaved roadways and parking areas 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.

2. Emission Limitation:

Particulate emissions (PE) shall not exceed 21.7 tons per year from paved and unpaved roadways.

Applicable Compliance Method:

Compliance may be determined by summing each of the paved and unpaved roadway and parking segments using the following procedure for each segment: multiply the emission factor, Eext, by the total annual vehicle miles traveled. The emission factor, Eext, shall be determined by the following equation found in AP-42 section 13.2.1 (equation 2) for Paved Roads (dated December 2003), and 13.2.2 (equations 1a and 2) for Unpaved Roads (November 2001).

$$\text{Paved Roads: } E = k(sL/2)^{0.65} (W/3)^{1.5}$$

$$\begin{aligned} E_{ext} &= E(1-P/4N) \\ \text{where, } E_{ext} &= (1.92)(25.1)(0.1) = 4.82 \text{ Lb/VMT} \end{aligned}$$

$$4.82 (90,000 \text{ VM/Yr})(\text{control efficiency-watering, surface improvement, and speed reduction} = 0.1)/2000 = 21.7 \text{ TPY PE from paved roadways and parking areas.}$$

$$\begin{aligned} E &= \text{particulate emission factor (lb/VMT)} \\ E_{ext} &= \text{particulate emission factor (lb/VMT) extrapolated for rainfall mitigation} \end{aligned}$$

k	=	constant - 0.082 for PE (particle size multiplier for lb/VMT)
sL	=	road surface silt loading lb/mi (7.4)
W	=	mean vehicle weight in tons (25.7)
Eext	=	annual average emission factor, lb/VMT
P	=	number of days with at least 0.01 inches of precipitation per year = 140 days for central Ohio, Figure 13.2.1-2, AP-42, section 13.2.1)
N	=	number of days in the averaging period = 365 days/year
Total PE emissions = 21.7		

Unpaved Roadways:  $E = k(s/12)a(W/3)b$

$$E_{ext} = E[(365 - p)/365]$$

where,  $E_{ext} = (3.2)(1.6)(0.62) = 3.2 \text{ Lb/VMT}$

3.2 (30,000 VMT/Yr)(control efficiency-watering, surface improvement, and speed reduction = 0.25)/2000 = 12.0 TPY PE from paved roadways and parking areas.

E	=	size-specific particulate emission factor (lb/VMT)
k	=	constant - 4.9 for PE (particle size multiplier for pounds/VMT)
s	=	6.4 percent - surface material silt content
W	=	mean vehicle weight in tons
a	=	constant - 0.7 for PE
b	=	constant - 0.45 for PE
Eext	=	emission factor extrapolated for natural mitigation, lb/VMT
p	=	number of days with at least 0.01 inches of precipitation per year = 140 days for central Ohio, Figure 13.2.2-1, AP-42, section 13.2.2

Control efficiency (watering, surface improvement, and speed control) = 85 percent

Total PE emissions = 12 TPY PE from unpaved roadways and parking areas.

21.7 TPY PE from paved roadways and parking areas.

## F. Miscellaneous Requirements

None

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operations(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 specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	OAC rule 3745-17-07(B)
F004 - Material handling includes reception of asbestos and non-asbestos construction and demolition materials as well as application of soil cover (Terms in this permit supercede those identified in PTI 01-6787 issued 6/7/00).	OAC rule 3745-31-05(A)(3)	40 CFR Part 61, Subparts A and M and OAC rule 3745-20.
	OAC rule 3745-17-08(B)	

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**Facility ID: 0125002349**

**Emissions Unit ID: F004**

Applicable Emissions  
Limitations/Control  
Measures

Particulate emissions (PE) shall not exceed 4.19 tons per year.

Visible emissions of fugitive dust from any construction and demolition material handling operation shall not exceed 10 percent opacity, as a three-minute average.

There shall be no visible PE of fugitive dust from any asbestos material handling operation.

Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see A.2.b through d.)

The requirements of this rule also include compliance with the requirements of OAC Chapter 3745-20 and 40 CFR Part 61, Subpart A and M.

Employ best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See A.I.2.e)

The emissions limitation

specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05 (A)(3).

See Sections A.2.f thru A.2.p, C.5 thru C.6, and D.2 thru 6.

## **2. Additional Terms and Conditions**

- 2.a** The material handling operations that are covered by this permit and subject to the above-mentioned requirements include all operations associated with the handling of the following materials: final and intermediate cover soils, and aggregates. In accordance with the permittee's permit application, the permittee has committed to minimize drop heights and employ water to suppress dust as needed. The permittee shall ensure that wastes are deposited, spread, and compacted in such a manner as to minimize or prevent visible emissions of dust. All truckloads of waste shall be unloaded in a manner which will minimize the drop height of the 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.
- 2.b** The permittee shall employ best available control measures for the above-identified material handling operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.c** For each material handling operation the above-identified control measures shall be implemented 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 the operation of the material handling operations until further observation confirms that use of the control measures is unnecessary.
- 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 located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is subject to the RACM requirements established in OAC rule 3745-17-08(B).
- 2.f** There shall be no visible emissions from asbestos-containing materials during on-site transportation, transfer, unloading, deposition or compacting operations.

- 2.g** The permittee shall inspect each load of asbestos-containing material delivered to the facility. The inspection shall consist of a 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 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.h** 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.i** 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.

- 2.j** 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 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.
- 2.k** 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.
- 2.l** 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.
- 2.m** 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.

- 2.n** 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 OAC 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.

- 2.o** All asbestos-containing waste materials shall be received in sealed, approved, leak-tight waste disposal containers in accordance with condition i or in approved alternative disposal containers in accordance with conditions ii, iii, or 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 for special utility. The permittee is authorized to accept any alternative container or load approved in writing by Ohio EPA. 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.
- 2.p** The application and enforcement of the provisions of the National Emission Standards for Hazardous Air Pollutants (NESHAP), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 61, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 61 are also federally enforceable.
- 2.q** There shall be no open burning, in violation of OAC Chapter 3745-19, at this facility.

## **B. Operational Restrictions**

1. Annual receipt of any type of construction and demolition debris shall not exceed 750,000 tons a year.
2. Annual receipt of any type of asbestos containing construction and demolition debris shall not exceed 20,000 tons a year.

## **C. Monitoring and/or Recordkeeping Requirements**

1. Except as otherwise provided in this section, the permittee shall perform daily inspections of all the landfill operating areas. The purpose of the inspections is to determine the need for implementing the above-mentioned best available control measures. 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.
2. The permittee may, upon receipt of written approval from Ohio EPA, Central District Office, 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.
3. The permittee shall maintain records of the following information:
  - a. the date and reason that 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.

This information shall be kept for (i) the waste unloading operations, (ii) the landfill access roads, and (iii) active landfill working face surface (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

4. The permittee shall keep for at least 5 years up-to-date, readily accessible, on-site records of the design capacity report which includes: the current amount of 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 paper copy 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.

5. 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 Ohio EPA 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 Ohio EPA informed and provided the opportunity to inspect.

6. 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 tons of all asbestos-containing materials within the disposal site, on a map or diagram, or a 3D grid log of the disposal area.
  - c. The total amount (tons) of construction and demolition materials received on a monthly and yearly basis.

**D. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following:
  - a. each day of operation during which an inspection was not performed, as required in Section C.1., by the required frequency, excluding an inspection which was not performed during 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 reports are due by the dates as specified in Part I - General Terms and Condition A. of this permit.

2. 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 are due by the dates as specified in Part I - General Terms and Condition A.1. of this permit.

- 3. As soon as possible and no longer than 30 days after receipt of the asbestos-containing waste material received, the permittee shall send a copy of the signed asbestos-containing waste material received shipment record to the asbestos-containing waste material received generator.
- 4. Upon discovery of a discrepancy between the quantity of asbestos-containing waste material received designated on a asbestos-containing waste material received shipment record and the quantity actually received, the permittee shall attempt to reconcile the discrepancy with the asbestos-containing waste material received generator. If the discrepancy is not resolved within 15 days after receiving the asbestos-containing waste material received, immediately report in writing to the Ohio EPA. Describe the discrepancy and attempts to reconcile it, and submit a copy of the asbestos-containing waste material received shipment record along with the report.
- 5. 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.
- 6. The permittee shall notify the Ohio EPA 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.

7. The permittee shall submit written notification to the Director and to the board of health having jurisdiction, and place a copy of the notification in the operating record, as to the actual date that the unit(s) of the sanitary landfill facility ceased to accept solid waste, in accordance with paragraph (E) of rule OAC rule 3745-27-11. Written notification shall be received by the Director by no later than 7 days after the date specified in the notification.
  
8. The permittee shall also submit annual reports that specify the total amount of construction and demolition debris received at the facility. The reports shall be submitted by April 15 of each year.

### E. Testing Requirements

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

1. Emissions Limitation:  
PE shall not exceed 4.19 tons per year.

Applicable Compliance Method:

Compliance may be determined by calculating emissions from each type of material handled and then summing each of the calculated emissions as follows:

Material Handling

AP-42 (01/1995. Section 13.2.4, Aggregate Handling and Storage Piles. Compilation of Air Pollution Emission Factors, Volume 1: Stationary Point and Area Sources, Fifth Edition.)

$$E = k (0.0032) [(U/5)^{1.3} / (M/2)^{1.4}]$$

$$(0.74)(.0032) [(11/5)^{1.3} / (11/2)^{1.4}]$$

$$(.0024) (2.79 / 10.88)$$

$$(.0024)(0.26) = 0.0006 \text{ Lb/ton}$$

E = emission factor expressed in pounds (lbs) / ton  
k = particle size multiplier (dimension less) = 0.74  
U = mean wind speed expressed in miles per hour (MPH) = 11\*  
M = material moisture content (%) = 11.0\*\*

$$E = 0.0006 \text{ pound/ton}$$

Number of Transfer Points - 3 (load out from trucks, compaction of waste, and placement of cover material);

Tons per year throughput - 750,000 ( PTI application received 8/5/04)

Total tons particulate emissions per year emitted is calculated as follows:

$$(E) \times (\text{No. Transfer Points}) \times (\text{Tons Per year Throughput}) \times (1 \text{ ton}/2000\text{lbs})$$

$$(0.0006 \text{ pound/ton}) \times (3) \times (750,000 \text{ tons / year}) \times (1 \text{ ton}/2000\text{lbs}) = 0.69 \text{ tons per year}$$

\* The highest average wind speed in the State Of Ohio. 11 miles per hour is worst case

scenario from Mansfield, Ohio.

- \*\* The material moisture content of 11% for municipal solid waste operations, miscellaneous fill materials from Table 13.2.4-1, AP-42, January 1995.
- \*\*\* average tons of waste received 750,000 tons/year. 200,000 tons of cover material handled per year.

#### Cover Material

0.058 Lb/ton topsoil removed \* 100,000 tons (application submitted 8/5/04) + 0.012 Lb/ton replaced \* 100,000 (application submitted 8/5/04) / 2000 = 3.5 TPY PE. Emission factors from Table 11.9-4, AP-42, July 1998.

2. Compliance with the emission limitations in Section A.1. of these terms and conditions shall be determined in accordance with the following method:

- a. Emission Limitation:  
No visible PE, from asbestos containing materials.

#### Applicable Compliance Method:

Compliance shall be demonstrated by satisfying the requirements specified in Section A.1. and A.2. Compliance shall also be determined by visible emission evaluations performed in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60, as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

- b. Emission Limitation:  
Visible emissions of fugitive dust from any construction and demolition material handling operation shall not exceed 10 percent opacity, as a three-minute average.

#### Applicable Compliance Method:

Compliance shall be demonstrated by satisfying the requirements specified in Section A.1. and A.2. Compliance shall also be determined by visible emission evaluations performed in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60, as such Appendix existed on July 1, 1996, and the modifications listed in paragraph (B) of OAC rule 3745-17-03.

## **F. Miscellaneous Requirements**

Authority to Enter:

Pursuant to the authority in OAC rule 3745-77-07(C)(2) or ORC section 3704.03(L), any representative of the Director may, upon presentation of proper identification, enter at any reasonable time upon any

portion of the property where this landfill is located, including any improvements thereon, to make inspections, take samples, conduct tests and examine records or reports pertaining to any emissions of air contaminants and any monitoring equipment, emissions control equipment or methods. No operator or agent of this landfill shall act in any manner to refuse, hinder, or thwart this legal right of entry.