



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL  
LICKING 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: 01-08756**

**DATE:** 8/14/2003

The Compost Farm  
David Lees  
7633 Jersey Mill Road  
Alexandria, OH 43001

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, Supervisor  
Field Operations and Permit Section  
Division of Air Pollution Control

cc: USEPA

CDO



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**Permit To Install  
Terms and Conditions**

**Issue Date: 8/14/2003  
Effective Date: 8/14/2003**

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**FINAL PERMIT TO INSTALL 01-08756**

Application Number: 01-08756  
APS Premise Number: 0145000401  
Permit Fee: **\$800**  
Name of Facility: The Compost Farm  
Person to Contact: David Lees  
Address: 7633 Jersey Mill Road  
Alexandria, OH 43001

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**7795 Jersey Mill Road  
Alexandria, Ohio**

Description of proposed emissions unit(s):  
**Composting facility.**

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 record keeping 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 record keeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### 3. Records Retention Requirements

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

#### 4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized

representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

**5. Scheduled Maintenance/Malfunction Reporting**

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

**6. Permit Transfers**

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

**7. Air Pollution Nuisance**

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

**8. 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

**The Compost Farm**  
**PTI Application: 01-08756**  
**Issued: 8/14/2003**

**Facility ID: 0145000401**

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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**Issued: 8/14/2003**

**Facility ID: 0145000401**

**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	1.7
NO <sub>x</sub>	18.6
CO	4.7
SO <sub>2</sub>	6.2
OC	0.5

**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>	<u>Applicable Emissions Limitations/Control Measures</u>
F001 - Unpaved roadways and parking areas	OAC rule 3745-31-05(A)(3)	Particulate emissions shall not exceed 0.03 ton/yr.  No visible particulate emissions except for 3 minutes during any 60-minute period  Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust.  See A.2.a-g below.

**2. Additional Terms and Conditions**

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

unpaved roadways:

Access and internal roads

- 2.b The permittee shall employ best available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved roadways and parking areas with wet suppression at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.c The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit.

Implementation of the control measures shall not be necessary for a paved or unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.

- 2.d 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.e 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.f 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.g 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.

**B. Operational Restrictions**

None

**C. Monitoring and/or Record keeping Requirements**

- 1. Except as otherwise provided in this section, the permittee shall perform inspections of the roadways and parking areas in accordance with the following frequencies:

<u>unpaved roadways and parking areas</u>	<u>minimum inspection frequency</u>
Access and internal roads	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 the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
4. The permittee shall maintain records of the following information:
  - a. The date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
  - b. The date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
  - c. The dates the control measures were implemented; and
  - d. On a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in 4.d. shall be kept separately for and 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.

#### **D. Reporting Requirements**

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

General Terms and Conditions of this permit.

**E. Testing Requirements**

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

- a. Emission Limitation:  
Particulate emissions shall not exceed 0.03 ton/yr.

Applicable Compliance Method:

Compliance shall be determined by using the emission factor equation (AP-42, 13.2.2-4, 1/95) and multiplying by the vehicle miles traveled per year and dividing by 2,000 pounds per ton.

$$E = [k (s/12)^a (W/3)^b / (M/0.2)^c]$$

$$\text{TSP} - k = 10 \quad s = 6.4 \quad a = 0.8 \quad W = 12 \quad b = 0.5 \quad M = 4.0 \quad c = 0.4$$

$$10 * (6.4/12)^{0.8} * (12/3)^{0.5} / (1.0/0.2)^{0.4} = 0.64 \text{ lbs/VMT}$$

$$0.64 \text{ lbs/VMT} * 200 \text{ VMT/yr} / 2,000 \text{ lbs/ton} * [(100-50)/100] = 0.03 \text{ ton/yr}$$

- b. Emission Limitation:  
No visible particulate emissions except for 3 minutes during any 60-minute period

Applicable Compliance Method:

When necessary, compliance shall be demonstrated by visible emission evaluations using the methods and procedures specified in USEPA Reference Method 22.

**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>	<u>Applicable Emissions Limitations/Control Measures</u>
F002 - Material handling for the composting site that includes yard waste, compost, mulch, and soil	OAC rule 3745-31-05(A)(3)	Particulate emissions shall not exceed 0.005 ton/yr.
	OAC rule 3745-17-07 (B)(1)	Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08 (B)	Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust.
		See A.2.b-d below.

**2. Additional Terms and Conditions**

- 2.a The material handling operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:

Yard waste, compost, mulch, and soil.

- 2.b The permittee shall employ best available control measures for the above-identified material handling operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to perform the following control measure(s) to ensure compliance:

material handling operation(s)

control measure(s)

All Wet suppression

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.c For each material handling operation that is not adequately enclosed, the above-identified control measure(s) 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 measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.
- 2.d Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

**B. Operational Restrictions**

None

**C. Monitoring and/or Record keeping Requirements**

- 1. Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>material handling operation(s)</u>	<u>minimum inspection frequency</u>
All	Daily

- 2. The above-mentioned inspections shall be performed during representative, normal operating conditions.
- 3. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
- 4. The permittee shall maintain records of the following information:

- a. The date and reason any required inspection was not performed;
- b. The date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
- c. The dates the control measure(s) was (were) implemented; and
- d. On a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in 4.d. shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

5. The permittee shall maintain monthly records of the following information:
  - a. The quantity (tons) of yard waste unloaded;
  - b. The quantity (tons) of soil unloaded and loaded;
  - c. The quantity (tons) of wood mulch unloaded and loaded; and
  - d. The quantity (tons) of compost loaded.

#### **D. Reporting Requirements**

1. The permittee shall submit semi-annual deviation reports that identify any of the following occurrences:
  - a. Each day during which an inspection was not performed by the required frequency; and
  - b. Each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

#### **E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be

determined in accordance with the following method(s):

- a. Emission Limitation:  
Particulate emissions shall not exceed 0.005 ton/yr.

Applicable Compliance Method:

Material handling compliance shall be determined by using the emission factor equation (AP-42, 13.2.4, 1/95) and multiplying by the maximum annual production and dividing by 2,000 pounds per ton.

Yard waste: 95,000 tons/yr (unloading activities)

$$E = 0.35 (0.0032) [(8.7/5)^{1.3} / (40/2^{1.4})]$$

$$E = 0.000035 \text{ lb/ton}$$

$$0.000035 \text{ lb/ton} * 95,000 \text{ tons/yr} / 2,000 \text{ lbs/ton} = 0.0017 \text{ ton/yr}$$

Soil: 20,000 tons/yr (unloading and loading activities)

$$E = 0.35 (0.0032) [(8.7/5)^{1.3} / (20/2^{1.4})]$$

$$E = 0.000092 \text{ lb/ton}$$

$$0.000092 \text{ lb/ton} * 240,000 \text{ tons/yr} / 2,000 \text{ lbs/ton} = 0.00092 \text{ ton/yr}$$

Wood mulch: 77,000 tons/yr (unloading and loading activities)

$$E = 0.35 (0.0032) [(8.7/5)^{1.3} / (40/2^{1.4})]$$

$$E = 0.000035 \text{ lb/ton}$$

$$0.000035 \text{ lb/ton} * 77,000 \text{ tons/yr} / 2,000 \text{ lbs/ton} = 0.0013 \text{ ton/yr}$$

Compost: 75,000 tons/yr (loading activities)

$$E = 0.35 (0.0032) [(8.7/5)^{1.3} / (40/2^{1.4})]$$

$$E = 0.000035 \text{ lb/ton}$$

$$0.000035 \text{ lb/ton} * 75,000 \text{ tons/yr} / 2,000 \text{ lbs/ton} = 0.0013 \text{ ton/yr}$$

Total material handling emissions:

$$0.0017 \text{ ton/yr} + 0.00092 \text{ ton/yr} + 0.0013 \text{ ton/yr} + 0.0013 \text{ ton/yr} = 0.005 \text{ ton/yr}$$

- b. Emission Limitation:  
Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

When necessary, compliance shall be demonstrated by visible emission evaluations using the methods and procedures specified in USEPA Reference Method 22.

## F. Miscellaneous Requirements

None

**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 - Load-in and load-out of storage piles	OAC rule 3745-31-05(A)(3)	Particulate emissions shall not exceed 1.2 tons/yr.  Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust and odors.
	OAC rule 3745-17-07(B)(1)	See A.2.b, A.2.c, and A.2.f below.  Visible PE from any fugitive dust source shall not exceed 20% opacity, as a 3-minute average during any 60-minute observation period.
	OAC rule 3745-17-08(C)	Best available control measures shall be sufficient to minimize or eliminate visible emissions of fugitive dust.  See A.2.a-c below.
Wind erosion from storage piles (see Section A.2.a for identification of storage piles)	OAC rule 3745-31-05(A)(3)	There shall be no visible PE except for a period of time not to exceed 1-minute during any 60-minute observation period from storage piles.  Best available control measures that are sufficient to minimize or eliminate visible

emissions of fugitive dust  
and odor.

See A.2.d-f below.

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

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

Mulch, soil, compost, and yard waste piles

- 2.b** The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to employ inherent moisture and adequate aeration to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.c** The above-mentioned control measure shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure shall continue during any such operation until further observation confirms that use of the measure is unnecessary.

- 2.d** The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to employ inherent moisture to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.e** The above-mentioned control measure shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with

the above-mentioned applicable requirements.

- 2.f 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.

**B. Operational Restrictions**

None

**C. Monitoring and/or Record keeping Requirements**

- 1. Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile in accordance with the following frequencies:

<u>storage pile identification</u>	<u>minimum load-in inspection frequency</u>
All	Daily

- 2. Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:

<u>storage pile identification</u>	<u>minimum load-out inspection frequency</u>
All	Daily

- 3. Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:

<u>storage pile identification</u>	<u>minimum wind erosion inspection frequency</u>
All	Daily

- 4. No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity 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.

5. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.
6. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
7. 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, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in 7.d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

8. The permittee shall maintain monthly records of the following information:
  - a. The quantity (tons) of yard waste unloaded;
  - b. The quantity (tons) of soil unloaded and loaded;
  - c. The quantity (tons) of wood mulch unloaded and loaded; and

- d. The quantity (tons) of compost loaded.

#### **D. Reporting Requirements**

1. The permittee shall submit a semi-annual 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. The deviation reports shall be submitted in accordance with the reporting requirements of the General terms and conditions of this permit.

#### **E. Testing Requirements**

1. Compliance with the emission limitations in this permit shall be determined in accordance with the following methods:
  - a. Emission Limitation:  
No visible emissions except for one minute in any hour.

**Applicable Compliance Method:**

If required, compliance with the visible emission limitations for the storage piles 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.

The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in §60.672, including reports of opacity observations made using Method 22.

- b. Emission Limitation:  
Particulate emissions shall not exceed 1.2 tons/yr

Applicable Compliance Method:

Storage piles compliance shall be determined by using the emission factor equation (AP-42, 13.2.4, 1/95) and multiplying by the maximum annual production and dividing by 2,000 pounds per ton.

Wind erosion emissions compliance shall be determined by utilizing the emission factor equation (AP-42, 13.2.4, 1/95) and by multiplying by the surface area acres (application, 1/23/01) and the total number of days in a year and dividing by 2,000 pounds per ton.

Yard waste: 95,000 tons/yr (unloading activities)

$$E = 0.35 (0.0032) [(8.7/5)^{1.3} / (40/2^{1.4})]$$

$$E = 0.000035 \text{ lb/ton}$$

$$0.000035 \text{ lb/ton} * 95,000 \text{ tons/yr} / 2,000 \text{ lbs/ton} = 0.0017 \text{ ton/yr}$$

Soil: 20,000 tons/yr (unloading and loading activities)

$$E = 0.35 (0.0032) [(8.7/5)^{1.3} / (20/2^{1.4})]$$

$$E = 0.000092 \text{ lb/ton}$$

$$0.000092 \text{ lb/ton} * 20,000 \text{ tons/yr} / 2,000 \text{ lbs/ton} = 0.00092 \text{ ton/yr}$$

Wood mulch: 55,000 tons/yr (unloading and loading activities)

$$E = 0.35 (0.0032) [(8.7/5)^{1.3} / (40/2^{1.4})]$$

$$E = 0.000035 \text{ lb/ton}$$

$$0.000035 \text{ lb/ton} * 55,000 \text{ tons/yr} / 2,000 \text{ lbs/ton} = 0.00096 \text{ ton/yr}$$

Compost: 75,000 tons/yr (loading activities)

$$E = 0.35 (0.0032) [(8.7/5)^{1.3} / (40/2^{1.4})]$$

$$E = 0.000035 \text{ lb/ton}$$

$$0.000035 \text{ lb/ton} * 75,000 \text{ tons/yr} / 2,000 \text{ lbs/ton} = 0.0013 \text{ ton/yr}$$

Total emissions:

$$0.0017 \text{ ton/yr} + 0.00092 \text{ ton/yr} + 0.00096 \text{ ton/yr} + 0.0013 \text{ ton/yr} = 0.005 \text{ ton/yr}$$

$$\text{Wind erosion: } 1.79 * S/1.5 * (365-P) / 235 * 30/15 = \text{lb/day acre (AP 42, 13.2.4, 1/95)}$$

$$1.79 * 9.2/1.5 * (365-130) / 235 * 30/15 = 21.0 \text{ lbs/day/acre}$$

$$21.0 \text{ lbs/day acre} * 1.0 \text{ acre} * 365 \text{ days/yr} * 1/2,000 \text{ lbs/ton} = 3.8 \text{ tons/yr}$$

Total particulate emissions for storage piles and wind erosion (controlled):

$$(0.005 \text{ ton/yr} + 3.8 \text{ tons/yr}) * 0.3 (70 \% \text{ control}) = 1.2 \text{ ton/yr}$$

## F. Miscellaneous Requirements

None

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**The Compost Farm**  
**PTI Application: 01 09756**  
**Issued**

**Facility ID: 0145000401**

**Emissions Unit ID: F003**

**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>
F004 - Portable Grinder - 22 tons/hr	OAC rule 3745-31-05(A)(3)
w/177 hp diesel engine (0.45 MMBtu/hr)	OAC rule 3745-17-07(B)(1)  OAC rule 3745-17-08(B)  OAC rule 3745-35-07(D)

	<u>Applicable Emissions Limitations/Control Measures</u>	
	Particulate emissions (PE) shall not exceed 1.5 lbs/hr and 2.9 tons/yr.	OC emissions shall not exceed 0.124 lb/hr and 0.50 ton per rolling, 12-month period.
	Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust.	PE shall not exceed 0.124 lb/hr and 0.50 ton per rolling 12-month period.
	See A.2.b-d.	See A.2.e, B.1 and B.2.
	Compliance with this rule also includes compliance with OAC rules 3745-17-07(B)(1) and 3745-17-08(B).	Compliance with this rule also includes compliance with OAC rules 3745-17-11(B)(5)(b), 3745-17-07(A), 3745-18-06(G), and 3745-31-05(D).
OAC rule 3745-17-11(B)(5)(b)	Visible PE from any fugitive dust source shall not exceed 20% opacity, as a 3-minute average during any 60-minute observation period.	PE from a large bore diesel engine exhaust stack shall not exceed 0.062 lb per MMBTU of actual heat input.
OAC rule 3745-17-07 (A)(1)	The emission limitation specified in this rule is less stringent than, or equal in stringency to, the emissions limitation established pursuant to 3745-31-05(A)(3).	Visible PE from the diesel engine exhaust stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
OAC rule 3745-18-06(G)	NO <sub>x</sub> emissions shall not exceed 4.25 lbs/hr and 18.6 tons per rolling, 12-month period.	SO <sub>x</sub> emissions from the diesel engine exhaust stack shall not exceed 0.5 lb per MMBTU of actual heat input.
	CO emissions shall not exceed 1.062 lbs/hr and 4.7 tons per rolling, 12-month period.	
	SO <sub>2</sub> emissions shall not exceed 1.416 lbs/hr and 6.2 tons per rolling, 12-month period.	

**2. Additional Terms and Conditions**

- 2.a** The material handling operation that is covered by this permit and subject to the above-mentioned requirements are listed below:

Portable grinder

- 2.b** The permittee shall employ best available control measures for the above-identified material handling operation for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to perform the following control measure to ensure compliance:

<u>material handling operation</u>	<u>control measure</u>
Portable grinder	wet suppression

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.c** For each material handling operation that is not adequately enclosed, 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 measure is 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 measure 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 rules 3745-17-08 and 3745-31-05.
- 2.e** The hourly and annual combustion emissions of NO<sub>x</sub>, SO<sub>2</sub>, CO, OC and PE reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop additional monitoring record keeping and/or reporting requirements to ensure compliance with these limits.

**B. Operational Restrictions**

- 1.** The diesel engine shall be operated with diesel fuel with a sulfur content less than 0.5% by weight.

**C. Monitoring and/or Record keeping Requirements**

- 1. Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>material handling operation</u>	<u>minimum inspection frequency</u>
Portable grinder	Daily, when operating

- 2. The above-mentioned inspections shall be performed during representative, normal operating conditions.
- 3. The permittee may, upon receipt of written approval from the 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 records of the following information:
  - a. The date and reason any required inspection was not performed;
  - 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 measure was implemented;
  - d. On a calendar quarter basis, the total number of days the control measure was implemented; and
  - e. The name of the person reporting each observation.

The information in 4.d. shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

- 5. The permittee shall maintain a record of the sulfur content of each shipment of diesel fuel received for burning in this emissions unit.

**D. Reporting Requirements**

- 1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the

following occurrences:

- a. Each day when visible emissions were observed, and at which location;
  - b. Each day during which an inspection was not performed by the required frequency; and
  - c. Each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.
2. The quarterly deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.
  3. The permittee shall submit a deviation report for each day when a fuel other than 0.5% sulfur diesel fuel was burned in this emissions unit. This report shall be submitted within 30 days after the deviation occurred.

#### **E. Testing Requirements**

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emissions Limitation-  
Visible PE from any fugitive dust source shall not exceed 20% opacity, as a 3-minute average.

##### **Applicable Compliance Method-**

If required, compliance shall be determined through visible emission observations performed 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, 1996.

- b. Emissions Limitation-  
NO<sub>x</sub> emissions shall not exceed 4.25 lbs/hr and 18.6 tons per year; CO emissions shall not exceed 1.062 lbs/hr and 4.7 tons per year; SO<sub>2</sub> emissions shall not exceed 1.416 lbs/hr and 6.2 tons per year; OC emissions shall not exceed 0.124 lb/hr and 0.50 ton per year; and PE shall not exceed 0.124 lb/hr and 0.50 ton per year in combustion gases from the diesel engine.

Applicable Compliance Method-

Compliance with the emission limitations identified above for the diesel engine shall be determined by using the emission factors from AP-42, 5th Edition (October 1996), Table 3.4-1, "Emission Factors for Large Stationary Diesel and All Stationary Dual-Fuel Engines" and the rated capacity of the diesel engine (177 hp/0.45 MMBTU/hr). The hourly emission rates are multiplied by 8,760 hours and converted to tons to obtain the yearly emission rates.

AP-42 Table 3.3-1 for combustion emissions from diesel engines

$0.024 \text{ lb NO}_x/\text{hp-hr} * 177 \text{ hp} = 4.25 \text{ lbs NO}_x/\text{hr} * 8,760 \text{ hrs/yr} * 1 \text{ ton}/2000 \text{ lb} = 18.6 \text{ tons NO}_x/\text{yr}$

$0.006 \text{ lb CO}/\text{hp-hr} * 177 \text{ hp} = 1.062 \text{ lbs CO}/\text{hr} * 8,760 \text{ hrs/yr} * 1 \text{ ton}/2000 \text{ lb} = 4.7 \text{ tons CO}/\text{yr}$

$0.008 \text{ lb SO}_2/\text{hp-hr} * 177 \text{ hp} = 1.416 \text{ lbs SO}_2/\text{hr} * 8,760 \text{ hrs/yr} * 1 \text{ ton}/2000 \text{ lb} = 6.2 \text{ tons SO}_2/\text{yr}$

$0.0007 \text{ lb OC}/\text{hp-hr} * 177 \text{ hp} = 0.124 \text{ lb OC}/\text{hr} * 8,760 \text{ hrs/yr} * 1 \text{ ton}/2000 \text{ lb} = 0.50 \text{ ton OC}/\text{yr}$

$0.0007 \text{ lb PE}/\text{hp-hr} * 177 \text{ hp} = 0.124 \text{ lb PE}/\text{hr} * 8,760 \text{ hrs/yr} * 1 \text{ ton}/2000 \text{ lb} = 0.50 \text{ ton PE}/\text{yr}$

c. Emissions Limitation-

Visible PE from the diesel engine exhaust stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method-

If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Test Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

d. Emissions Limitation-

PE shall not exceed 1.5 lbs/hr. and 2.9 tons per year for a 177 hp grinder.

Applicable Compliance Method-

Compliance with the emission limitations identified above for the 177 hp grinder shall be determined by using the emissions factor from RACM (Reasonably Available Control Methods), Table 2.17-1, "Fugitive Dust Emission Factors for Woodworking Operations." The hourly emission rate is multiplied by 3,800 hours and converted to tons to obtain the yearly emissions rate.

RACM Table 2.17-1 Fugitive dust emission factors for woodworking operations

Yard waste: 0.35 lb PM/ton processed \* 22 tons \* (1-.80) = 1.5 lbs PM/hr

2.1 lbs/hr \* 3,800 hrs/yr \* 1 ton/2000 lbs = 2.9 tons/yr PM

**F. Miscellaneous Requirements**

1. Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:
  - a. The portable emissions unit is equipped with the best available technology for such portable emissions unit;
  - b. The portable emissions unit is operating pursuant to a currently effective PTI, permit to operate (PTO) or registration;
  - c. The applicant has provided proper notice of intent to relocate the portable emissions unit to the CDO having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and
  - d. In the CDO judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.
2. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:
  - a. The portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
  - b. The portable emissions unit is equipped with best available technology;
  - c. The portable emission unit owner has identified the proposed site to Ohio EPA;
  - d. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
  - e. A public notice, consistent with Chapter 3745-47 of the Administrative Code, is published in the county where the proposed site is located;

- f. The owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to the proposed site; and
  - g. The portable emissions unit owner has provided the Ohio EPA with fifteen days written notice of the relocation.
3. Any site approvals issued by the Ohio EPA, pursuant to 3. above, shall be valid for no longer than three years and are subject to renewal.

In order for CDO and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with CDO having jurisdiction over the new site. Upon receipt of the notice, CDO having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive Ohio EPA approval prior to relocation of the emissions unit may result in fines and civil penalties.

4. Terms in section A, B, C, D, and E of this permit are federally enforceable.

**NEW SOURCE REVIEW FORM B**

PTI Number: 01-08756 Facility ID: 0145000401

FACILITY NAME The Compost Farm

FACILITY DESCRIPTION Composting facility CITY/TWP Alexandria

SIC CODE 3113 SCC CODE 30501090 EMISSIONS UNIT ID F001

EMISSIONS UNIT DESCRIPTION Unpaved roadways and parking areas

DATE INSTALLED 060103

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	Attainment				0.03
PM <sub>10</sub>					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Emission limitation and wet suppression.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*? YES x NO

IDENTIFY THE AIR CONTAMINANTS:

**NEW SOURCE REVIEW FORM B**

PTI Number: 01-08756 Facility ID: 0145000401

FACILITY NAME The Compost Farm

FACILITY DESCRIPTION Composting facility

CITY/TWP Alexandria

Emissions Unit ID: F004

SIC CODE 3113 SCC CODE 30501030 EMISSIONS UNIT ID F002

EMISSIONS UNIT DESCRIPTION Material handling

DATE INSTALLED 060103

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	Attainment				0.005
PM <sub>10</sub>					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

**WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?**

**Emission limitation and wet suppression.**

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no  
OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*? YES x NO

IDENTIFY THE AIR CONTAMINANTS:



33 NEW SC

PTI Num

FACILITY

Emissions Unit ID: F004

FACILITY DESCRIPTION Composting facility CITY/TWP Alexandria

SIC CODE 3113 SCC CODE 20300101 EMISSIONS UNIT ID F004

EMISSIONS UNIT DESCRIPTION Portable Grinder - 22 tons/hr w/177 hp diesel engine (0.45 MMBtu/hr)

DATE INSTALLED 060103

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	Attainment			.12	0.50
PM <sub>10</sub>				1.5	2.9
Sulfur Dioxide	Attainment			1.4	6.2
Organic Compounds	Attainment			.12	0.50
Nitrogen Oxides	Attainment			4.3	18.6
Carbon Monoxide	Attainment			1.1	4.7
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Emission limitation and wet suppression.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*? YES x NO

IDENTIFY THE AIR CONTAMINANTS: