State of Ohio Environmental Protection Agency

RE: FINAL PERMIT TO INSTALL **CERTIFIED MAIL**
HAMILTON COUNTY

Street Address:
50 West Town Street, Suite 700
Lazarus Gov. Center **TELE:** (614) 644-3020 **FAX:** (614) 644-2329
Mailing Address:
Lazarus Gov. Center
P.O. Box 1049

Application No: 14-05884
Fac ID: 1431344222
DATE: 3/13/2007

Evans Landscaping, Inc.
Mo Patterson
3700 Round Bottom Road
Cincinnati, OH 45244

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

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

Sincerely,

Michael W. Ahern

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

CC: **USEPA** **HCDES**

FINAL PERMIT TO INSTALL 14-05884

Application Number:	14-05884
Facility ID:	1431344222
Permit Fee:	**$10800**
Name of Facility:	Evans Landscaping, Inc.
Person to Contact:	Mo Patterson
Address:	3700 Round Bottom Road Cincinnati, OH 45244

Location of proposed air contaminant source(s) [emissions unit(s)]:
3700 Round Bottom Road
Cincinnati, **Ohio**

Description of proposed emissions unit(s):
This permit to install will cover emission activities such as storage piles, material handling, grinding, fuel burning, roadways and parking areas for Evans Landscaping Inc.

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

Chris Korleski
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 (i.e., postmarked) quarterly by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

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 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.

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

Pollutant	Tons Per Year
PE	105.13
PM10	33.73
NOx	80.6
CO	29.7
SO2	3.2

VOC	4.6

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.

Operations, Property, and/or Equipment - (F001) - Mulch, Soil, and Aggregate Storage Piles

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	Fugitive particulate emissions (PE) shall not exceed 11 tons per year. Fugitive particulate matter emissions of 10 microns or less in diameter (PM10) shall not exceed 6 tons per year. No visible particulate emissions except for a total of one minute during any 60 minute observation period. Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see terms and conditions A.2.a through A.2.d)
OAC rule 3745-17-07(B)(6)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05 (A)(3).
OAC rule 3745-17-08(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05 (A)(3).

2. Additional Terms and Conditions

2.a 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 application, the permittee has committed to maintain minimal drop heights for stackers and front-loaders, and chemical stabilization/dust suppressants and/or watering/sprinkling systems at sufficient treatment

frequencies to ensure compliance. The operator shall avoid dragging any front-end loader bucket along the ground. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

2.b The above-mentioned control measure(s) 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(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.

2.c The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the application, the permittee has committed to perform one or more of the following: (chemical stabilization, watering/sprinkling systems/hoses, covering the storage piles) to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

2.d The above-mentioned control measure(s) 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(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) 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.e Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit, visible emissions limitations and compliance with specified emission limits 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 Recordkeeping Requirements

Emissions Unit ID: **F001**

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:

storage pile identification	minimum load-in inspection frequency
all	weekly

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:

storage pile identification	minimum load-out inspection frequency
all	weekly

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:

storage pile identification	minimum wind erosion inspection frequency
all	weekly

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 Hamilton County Department of Environmental Services, 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.

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. All deviation reports unless otherwise specified shall be submitted in accordance with

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 Limitations:
   Fugitive particulate emissions (PE) shall not exceed 11 tons per year.

   Fugitive particulate matter emissions of 10 microns or less in diameter (PM10) shall not exceed 6 tons per year.

   Applicable Compliance Method:
   Compliance with fugitive PE and PM10 limitations shall be determined by using the emission factor equations in Section 13.2.4 in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 1/95) for aggregate handling and storage piles and the permittee-supplied operational parameters as submitted in PTI application 14-05884, received on September 28, 2006. Should further updates in AP-42 occur, the most current equations for aggregate handling and storage piles shall be used.

   b. Emission Limitations:
   No visible PE except for a total of one minute during any 60 minute observation period.

   Applicable Compliance Method:
   If required, compliance with the visible PE limitations listed above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

F. Miscellaneous Requirements

None

Issued: 3/13/2007

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.

Operations, Property, and/or Equipment - (F002) - Roadways and Parking Areas

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	Fugitive particulate emissions (PE) shall not exceed 70 tons per year. Fugitive particulate matter emissions of 10 microns or less in diameter (PM10) shall not exceed 14 tons per year. There shall be no visible particulate emissions from any unpaved roadway or parking area except for a period of time not to exceed three minutes during any 60-minute observation period. There shall be no visible particulate emissions from any paved roadway or parking area except for a period of time not to exceed one minute during any 60-minute observation period. Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See terms and conditions A.2.a through A.2.d).
OAC rule 3745-17-07(B)(4)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-07(B)(5)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-08(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

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

2.b The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for 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.c The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.

2.d Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.

2.e Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit, compliance with specified emission limits and visible emission limitations 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 Recordkeeping Requirements

Emissions Unit ID: **F002**

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:

unpaved roadways and parking areas	minimum inspection frequency
all	once daily, during operation

paved roadways and parking areas	minimum inspection frequency
all	once daily, during operation

2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

3. The permittee may, upon receipt of written approval from the Hamilton County Department of Environmental Services, 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 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. <u>Emission Limitations:</u>
   Fugitive particulate emissions (PE) shall not exceed 70 tons per year.

   Fugitive particulate matter emissions of 10 microns or less in diameter (PM10) shall not exceed 14 tons per year.

   <u>Applicable Compliance Method:</u>
   Compliance with fugitive PE and PM10 limitations shall be determined by using the emission factor equations in Section 13.2.1 and 13.2.2, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 12/03) for paved and unpaved roadways and the permittee-supplied operational parameters as submitted in PTI application 14-05884, received September 28, 2006. Should further updates in AP-42 occur, the most current equations for paved and unpaved roads shall be used.

   b. <u>Emission Limitations:</u>
   No visible PE from any unpaved roadway or parking area except for three minutes during any 60-minute observation period.

   No visible PE from any paved roadway or parking area except for one` minute

during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the visible PE limitations listed above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

F. Miscellaneous Requirements

None

Emissions Unit ID: **P001**

Issued: 3/13/2007

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.

Operations, Property, and/or Equipment - (P001) - 1000 HP Tub Grinder and Material Handling

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures

OAC rule 3745-31-05(A)(3)	<u>Emissions from tub grinding:</u> Particulate emissions (PE) shall not exceed 1.5 pounds per hour and 6.6 tons per year. Particulate matter emissions less than 10 microns in diameter shall not exceed 0.83 pound per hour and 3.6 tons per year. <u>Emissions from material handling:</u> Particulate emissions (PE) shall not exceed 0.9 pound per hour and 3.9 tons per year. Particulate matter emissions less than10 microns in diameter shall not exceed 0.43 pound per hour and 1.9 tons per year. <u>Emissions from the diesel engine alone:</u> Particulate emissions (PE) shall not exceed 0.47 pound per hour and 2.1 tons per year. Particulate matter emissions less than10 microns in diameter shall not exceed 0.47 pound per hour and 2.1 tons per year. Sulfur dioxide (SO2) emissions shall not exceed 0.4 pound per hour and 1.8 tons per year. Nitrogen oxides (NOx) emissions shall not exceed 15.2 pounds per hour and 66.6 tons per year. Carbon monoxide (CO) emissions shall not exceed 5.5 pounds per hour and 24.1 tons per year. Volatile organic compound (VOC) emissions shall not exceed 0.7 pound per hour and 3.1 tons per year. See terms A.2.a, A.2.b, A.2.c, and A.2.e. The hourly and annual emissions limitations outlined under OAC rule 3745-31-05(A)(3) are based upon the emissions unit's potential to emit. Therefore, no records are required to demonstrate compliance with these limitations. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-11(B)(5)(b), 3745-35-07(B) and OAC rule 3745-21-08(B).

OAC rule 3745-17-07(A)	Visible particulate emissions from the diesel engine exhaust stack shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.
OAC rule 3745-17-11(B)(5)(b)	The particulate emissions from the diesel engine's exhaust shall not exceed 0.062 pound per million Btu of actual heat input.
OAC rule 3745-17-07(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-08(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-18-06(B)	Exempt.

Emissions Unit ID: **P001**

OAC rule 3745-35-07(B)	Particulate emissions (PE) from emissions units P001, P002 and P003 combined shall not exceed 13.5 tons per year, based upon a rolling, 12-month summation. This includes emissions from tub grinding, material handling, and the diesel engine. Particulate matter emissions less than10 microns in diameter from emissions units P001, P002 and P003 combined shall not exceed 8.1 tons per year, based upon a rolling, 12-month summation. This includes emissions from tub grinding, material handling, and the diesel engine. Sulfur dioxide (SO2) emissions from emissions units P001, P002 and P003 combined shall not exceed 1.9 tons per year, based upon a rolling, 12-month summation. Nitrogen oxides (NOx) emissions from emissions units P001, P002 and P003 combined shall not exceed 71.4 tons per year, based upon a rolling, 12-month summation. Carbon monoxide (CO) emissions from emissions units P001, P002 and P003 combined shall not exceed 25.8 tons per year, based upon a rolling, 12-month summation. Volatile organic compound (VOC) emissions from emissions units P001, P002 and P003 combined shall not exceed 3.3 tons per year, based upon a rolling, 12-month summation. See term and condition B.2
OAC rule 3745-21-08(B)	See term A.2.d

2. Additional Terms and Conditions

2.a The permittee shall employ best available control measures for the tub grinder, the processed mulch pile(s), conveyor transfer point(s) and the loading and unloading activities associated with the tub grinder for the purpose of ensuring compliance with the visible particulate emissions requirement. The permittee shall employ water on an 'as needed' basis to ensure compliance.

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

2.b 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 visible particulate emissions requirement. Any required implementation of the control measure(s) shall continue until further observation confirms that use of the control measure(s) is unnecessary.

2.c 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(A)(3).

2.d The permittee shall satisfy the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology (BAT) requirements established pursuant to OAC

rule 3745-31-05(A)(3) in this permit to install. The design of the emissions unit and the technology associated with the current operating practices satisfy the BAT requirements.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. This rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Until the U.S. EPA approves the revision to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.e Fugitive visible particulate emissions from the tub grinder, conveyor transfer point(s) and the loading and unloading activities associated with the tub grinder and material handling shall not exceed 20% opacity, as a three-minute average.

B. Operational Restrictions

1. The permittee shall use only number two fuel oil (0.5% sulfur by weight or less) in the diesel engine integral to this emissions unit.

2. The maximum annual operating hours for emissions units P001, P002, and P003 combined shall not exceed 9390 hours, based upon a rolling, 12 month summation of the operating hours.

   The permittee has existing records to demonstrate compliance with this annual operating hours limitation upon permit issuance.

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of the grinding and material handling operations in accordance with the following frequencies:

grinding and material handling operation	minimum inspection frequency
1000 HP tub grinder and material handling	once daily during operation

2. The purpose of the inspections is to determine the need for implementing the above-

mentioned control measures. The inspections shall be performed during representative, normal operating conditions. No inspection shall be necessary for this material handling operation if the material used in this operation 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.

3. The permittee may, upon receipt of written approval from the Hamilton County Department of Environmental Services, 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 measures were implemented; and

   d. on a calendar quarter basis, the total number of days the control measures were implemented.

   The information required in 4.d shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

5. For each day during which the permittee burns a fuel other than number two fuel oil (0.5% sulfur by weight or less), the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

6. The permittee shall maintain monthly records of the following information:

   a. the annual operating hours of this emissions unit;

   b. the rolling, 12-month summation of the operating hours for emissions units P001, P002, and P003 combined (this will include the number of hours of operation for the current month and the previous 11 calendar months); and

   c. the rolling, 12-month summation of PE, PM-10, SO2, VOC, NOx, and CO emissions for emissions units P001, P002, and P003 combined.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation/exceedance reports that identify any of the following occurrences:

   a. Each day when a fuel other than number two fuel oil (0.5% sulfur by weight or less) was burned in this emissions unit.

   b. 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.

   c. Each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

   d. Any exceedance on the annual operating hours limitation as outlined in term B.2. If no exceedances occurred, the permittee shall state so in the report.

   e. Any exceedance of the annual allowable tons per year PE, PM-10, SO2, VOC, NOx, and CO emissions on a rolling, 12 month summation for emissions units P001, P002, and P003 combined. If no exceedances occurred, the permittee shall state so in the report.

2. The permittee shall submit annual reports that specify the total emissions in tons per year for PE, PM-10, VOC, SO2, NOx and CO for this emissions unit. These reports shall be submitted by January 31 of each year.

3. All deviation reports unless otherwise specified shall be submitted in accordance with 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. For Tub-grinding operation:

      <u>Emission Limitations:</u>

1.5 pounds per hour and 6.6 tons per year of particulate emissions (PE).
0.83 pound per hour and 3.6 tons per year of PM-10 emissions.

Applicable Compliance Method:

The hourly PE and PM-10 emission limitations are based upon the emissions unit's potential to emit and were established by the following methodology:

pounds of PE = (A) x (B)

pounds of PM-10 emissions = (A) x (B);

where:

A = PM or PM-10 emission factor, lb/ton, as referred from SCC Code 3-07-008-01 in FIRE Version 6.23. See detailed emission calculations in PTI application 14-05884.

B = maximum hourly throughput of 75 tons.

The tons per year annual emissions limitations are based on maximum hourly emission rate multiplied by 8760 hours of operation and divided by 2000 pounds per ton.

b. For Material Handling:

Emission Limitations:

0.9 pound per hour and 3.9 tons per year of particulate emissions (PE).
0.43 pound per hour and 1.9 tons per year of PM-10 emissions.

Applicable Compliance Method:

The hourly PE and PM-10 emission limitations are based upon the emissions unit's potential to emit and were established by the following methodology:

lbs of PM = (A) x (B)

lbs of PM-10 emissions = (A) x (B); where:

A = PM or PM-10 emission factors, lb/ton, determined based on equation referred from AP-42, Section 13.2.4 (January 1995). See detailed emission calculations in PTI application 14-05884.

B = maximum hourly throughput for material load-in/load-out. (300 tons per hour for mulch and 200 tons per hour for sand, gravel and soil). See detailed emission calculations in PTI application 14-05884.

The tons per year annual emission limitations are based on maximum hourly emission rate multiplied by 8760 hours of operation and divided by 2000 pounds per ton.

c. For diesel engine:

Emission Limitations:

0.47 pound per hour and 2.1 tons per year of particulate emissions (PE);
0.47 pound per hour and 2.1 tons per year of PM10 emissions;
0.4 pound per hour and 1.8 tons per year of SO2 emissions;
15.2 pounds per hour and 66.6 tons per year of NOx emissions;
5.5 pounds per hour and 24.1 tons per year of CO emissions; and
0.7 pound per hour and 3.1 tons per year of VOC emissions.

Applicable Compliance Method:

The hourly emission rate for particulate emissions (PE) is based on following relationship:

pounds/hour PE = (A) * (B) * (C); where

A = Emission factor referred from OAC rule 3745-17-11(B)(5)(b), which is 0.062 pounds of PE per mm Btu of heat input;

B = Maximum hourly fuel consumption by the diesel engine = 52 gallons per hour; and

C = Heat content in diesel fuel = 0.147 mm Btu per gallon

The hourly emission rates for NOx emissions is based on following relationship:

pounds/hour NOx = (A) * (B); where

A = Emission factor (lb/hp-hr) referred from the manufacturer's data (9.2 grams per kilowatt-hour, i. e., 0.015 pounds per horsepower-hour); and

B = Power output of the diesel engine (1000 horsepower-hour/hour)

The hourly emission rates for pollutants such as SO2, CO and VOC are based on
following relationship:

pounds/hour emissions = (A) * (B); where

A = Emissions factors (lb/hp-hr) referred from AP-42 Section 3.4 for diesel fuel (SCC 2-02-004-01); and

B = Power output of the diesel engine (1000 horsepower-hour/hour)

The tons per year emission limitations for all the above-mentioned pollutants are based on maximum hourly emission rates multiplied by 8760 hours of operation and divided by 2000 pounds per ton.

2. Compliance with the emission limitation(s) outlined for OAC rule 3745-31-05(C) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitations:

Particulate emissions (PE) from emissions units P001, P002 and P003 combined shall not exceed 13.5 tons per year, based upon a rolling, 12-month summation. This includes emissions from tub grinding, material handling, and the engine.

Particulate matter emissions less than10 microns in diameter from emissions units P001, P002 and P003 combined shall not exceed 8.1 tons per year, based upon a rolling, 12-month summation. This includes emissions from tub grinding, material handling, and the engine.

Sulfur dioxide (SO2) emissions from emissions units P001, P002 and P003 combined shall not exceed 1.9 tons per year, based upon a rolling, 12-month summation.

Nitrogen oxides (NOx) emissions from emissions units P001, P002 and P003 combined shall not exceed 71.4 tons per year, based upon a rolling, 12-month summation.

Carbon monoxide (CO) emissions from emissions units P001, P002 and P003 combined shall not exceed 25.8 tons per year, based upon a rolling, 12-month summation.

Volatile organic compound (VOC) emissions from emissions units P001, P002 and P003 combined shall not exceed 3.3 tons per year, based upon a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be determined by multiplying the hourly emission limitation for each pollutant by the updated rolling, 12-month summation of the operating hours for emissions unit P001, P002, and P003, combined (see term C.6) and divided by 2000 pounds per ton.

3. Compliance with the operating hours limitation in term B.2 shall be demonstrated by the record keeping in term C.6.

4. Compliance with the term B.1 shall be demonstrated by the record keeping in term C.5.

5. Compliance with the emission limitation(s) in Sections A.1 and A.2 of these terms and

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conditions shall be determined in accordance with the following method(s):

Visible emissions of fugitive dust shall not exceed 20% opacity, as a 3-minute average.

Visible particulate emissions from the diesel engine exhaust stack shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:
If required, compliance with this emission limitation shall be determined through visible emissions observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A.

F. Miscellaneous Requirements

1. The permittee may relocate the portable source within the State of Ohio without first obtaining a permit to install (PTI) providing the appropriate exemption requirements have been met and following the approval of the director. The director may issue a "Notice of Site Approval" if the portable source meets the following criteria pursuant to OAC rule 3745-31-03(A)(1)(p)(i):

   a. the portable source has been issued a permit to install (PTI) and the permittee continues to comply with any applicable best available technology (BAT) determination and state and/or federal rules;

   b. the portable source is operating pursuant to a currently effective PTI and/or any applicable permit to operate (PTO) and continues to comply with the requirements of the permit;

   c. the permittee has provided a minimum of 30 days notice of the intent to relocate the portable source to the permitting authority (the Ohio EPA District Office or local air agency that has issued the effective current permit) prior to the scheduled relocation*;

   d. the Ohio EPA district office or local air agency having jurisdiction over the new site has determined that the permitted emissions would not cause a nuisance in violation of OAC rule 3745-15-07; and the relocation of the portable source, along with any supporting permitted emissions (e.g. roadways or storage piles), would not result in the installation of a major stationary source or a modification of an existing major stationary source at the new site; and

   e the director has issued a "Notice of Site Approval", stating that the proposed site is acceptable under OAC rule 3745-15-07 and the relocation will not result in the installation of a major stationary source or a modification of an existing major stationary source.

   Failure to submit said notification or failure to receive Ohio EPA approval prior to

relocation of the portable source may result in fines and civil penalties.

* Even if notification of the proposed relocation is submitted 30 days prior to the scheduled relocation date, the emissions unit shall not be moved prior to receiving the "Notice of Site Approval".

2. At the discretion and following the approval of the director, the permittee may relocate the portable source within the State of Ohio without first obtaining a permit to install (PTI) providing the appropriate exemption requirements have been met. Pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the director may issue a "Notice of Site Approval" for any pre-disclosed location(s) if the portable source meets the requirements of OAC rule 3745-31-05(E), as follows:

   a. the portable source is operating pursuant to a currently effective permit to install (PTI) and/or any applicable permit to operate (PTO) and continues to comply with the requirements of this permit and any applicable state and/or federal rules;

   b. the portable source has been issued a PTI and the permittee continues to comply with the requirements of the permit including any applicable best available technology (BAT) determination;

   c. the portable source owner has identified the proposed site(s) to the Ohio EPA;

   d. the Ohio EPA has determined that the portable source will have an acceptable environmental impact at the proposed site(s);

   e. a public notice, meeting the requirements OAC rule 3745-47, is published in the county where the proposed site(s) is/are located;

   f. the owner of the proposed site(s) (if not the permittee) has provided the portable source owner with approval, or an equivalent declaration, that it is acceptable to move the portable source to the proposed site(s); and

   g. the permittee has provided the Ohio EPA with a minimum of a 15-day written notice of the relocation*.

   The portable source can be relocated upon receipt of the director's "Notice of Site

Approval" for the site. Any site approvals issued by the Ohio EPA, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), shall be valid for no longer than 3 years and are subject to renewal.

Failure to submit said notification or failure to receive Ohio EPA approval prior to relocation of the portable source may result in fines and civil penalties. If the relocation of the portable source would result in the installation of a major stationary source or the modification of a major stationary source, the permittee shall submit an application and obtain a PTI for the new location prior to moving the portable source. Also, pursuant to OAC rule 3745-31-05(F), the director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.

* The "Notice of Intent to Relocate" shall be submitted to the Ohio EPA District Office or local air agency responsible for issuing the permits for the portable source. Upon receipt of the notice, the permitting office shall notify the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site.

Emissions Unit ID: **P002**

Issued: 3/13/2007

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.

Operations, Property, and/or Equipment - (P002) - 1000 HP Tub Grinder and Material Handling

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures

OAC rule 3745-31-05(A)(3)	<u>Emissions from tub grinding:</u> Particulate emissions (PE) shall not exceed 1.5 pounds per hour and 6.6 tons per year. Particulate matter emissions less than 10 microns in diameter shall not exceed 0.83 pound per hour and 3.6 tons per year. <u>Emissions from material handling:</u> Particulate emissions (PE) shall not exceed 0.9 pound per hour and 3.9 tons per year. Particulate matter emissions less than10 microns in diameter shall not exceed 0.43 pound per hour and 1.9 tons per year. <u>Emissions from the diesel engine alone:</u> Particulate emissions (PE) shall not exceed 0.47 pound per hour and 2.1 tons per year. Particulate matter emissions less than10 microns in diameter shall not exceed 0.47 pound per hour and 2.1 tons per year. Sulfur dioxide (SO2) emissions shall not exceed 0.4 pound per hour and 1.8 tons per year. Nitrogen oxides (NOx) emissions shall not exceed 15.2 pounds per hour and 66.6 tons per year. Carbon monoxide (CO) emissions shall not exceed 5.5 pounds per hour and 24.1 tons per year. Volatile organic compound (VOC) emissions shall not exceed 0.7 pound per hour and 3.1 tons per year. See terms A.2.a, A.2.b, A.2.c, and A.2.e. The hourly and annual emissions limitations outlined under OAC rule 3745-31-05(A)(3) are based upon the emissions unit's potential to emit. Therefore, no records are required to demonstrate compliance with these limitations. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-11(B)(5)(b), 3745-35-07(B) and OAC rule 3745-21-08(B).

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OAC rule 3745-17-07(A)	Visible particulate emissions from the diesel engine exhaust stack shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.
OAC rule 3745-17-11(B)(5)(b)	The particulate emissions from the diesel engine's exhaust shall not exceed 0.062 pounds per million Btu of actual heat input.
OAC rule 3745-17-07(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-08(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-18-06(B)	Exempt.

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OAC rule 3745-35-07(B)	Particulate emissions (PE) from emissions units P001, P002 and P003 combined shall not exceed 13.5 tons per year, based upon a rolling, 12-month summation. This includes emissions from tub grinding, material handling, and the diesel engine. Particulate matter emissions less than10 microns in diameter from emissions units P001, P002 and P003 combined shall not exceed 8.1 tons per year, based upon a rolling, 12-month summation. This includes emissions from tub grinding, material handling, and the diesel engine. Sulfur dioxide (SO2) emissions from emissions units P001, P002 and P003 combined shall not exceed 1.9 tons per year, based upon a rolling, 12-month summation. Nitrogen oxides (NOx) emissions from emissions units P001, P002 and P003 combined shall not exceed 71.4 tons per year, based upon a rolling, 12-month summation. Carbon monoxide (CO) emissions from emissions units P001, P002 and P003 combined shall not exceed 25.8 tons per year, based upon a rolling, 12-month summation. Volatile organic compound (VOC) emissions from emissions units P001, P002 and P003 combined shall not exceed 3.3 tons per year, based upon a rolling, 12-month summation. See term and condition B.2
OAC rule 3745-21-08(B)	See term and condition A.2.d

2. Additional Terms and Conditions

2.a The permittee shall employ best available control measures for the tub grinder, the processed mulch pile(s), conveyor transfer point(s) and the loading and unloading activities associated with the tub grinder for the purpose of ensuring compliance with the visible particulate emissions requirement. The permittee shall employ water on an 'as needed' basis to ensure compliance.

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

2.b 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 visible particulate emissions requirement. Any required implementation of the control measure(s) shall continue until further observation confirms that use of the control measure(s) is unnecessary.

2.c 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(A)(3).

2.d The permittee shall satisfy the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology (BAT) requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install. The design of the emissions unit and the technology associated with the current operating practices satisfy the BAT requirements.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. This rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Until the U.S. EPA approves the revision to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.e Fugitive visible particulate emissions from the tub grinder, conveyor transfer point(s) and the loading and unloading activities associated with the tub grinder and material handling shall not exceed 20% opacity, as a three-minute average.

B. Operational Restrictions

1. The permittee shall use only number two fuel oil (0.5% sulfur by weight or less) in the diesel engine integral to this emissions unit.

2. The maximum annual operating hours for emissions units P001, P002, and P003 combined shall not exceed 9390 hours, based upon a rolling, 12 month summation of the operating hours.

The permittee has existing records to demonstrate compliance with this annual operating hours limitation upon permit issuance.

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of the grinding and material handling operations in accordance with the following frequencies:

grinding and material handling operation	minimum inspection frequency
1000 HP tub grinder and material handling	once daily during operation

2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal operating conditions. No inspection shall be necessary for this material handling operation if the material used in this operation 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.

3. The permittee may, upon receipt of written approval from the Hamilton County Department of Environmental Services, 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 measures were implemented; and

   d. on a calendar quarter basis, the total number of days the control measures were implemented.

   The information required in 4.d shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

5. For each day during which the permittee burns a fuel other than number two fuel oil

(0.5% sulfur by weight or less), the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

6. The permittee shall maintain monthly records of the following information:

   a. the annual operating hours of this emissions unit;

   b. the rolling, 12-month summation of the operating hours for emissions units P001, P002, and P003 combined (this will include the number of hours of operation for the current month and the previous 11 calendar months); and

   c. the rolling, 12-month summation of PE, PM-10, SO2, VOC, NOx, and CO emissions for emissions units P001, P002, and P003 combined.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation/exceedance reports that identify any of the following occurrences:

   a. Each day when a fuel other than number two fuel oil (0.5% sulfur by weight or less) was burned in this emissions unit.

   b. 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.

   c. Each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

   d. Any exceedance on the annual operating hours limitation as outlined in term B.2. If no exceedances occurred, the permittee shall state so in the report.

   e. Any exceedance of the annual allowable tons per year PE, PM-10, SO2, VOC, NOx, and CO emissions on a rolling, 12 month summation for emissions units P001, P002, and P003 combined. If no exceedances occurred, the permittee shall state so in the report.

2. The permittee shall submit annual reports that specify the total emissions in tons per year for PE, PM-10, VOC, SO2, NOx and CO for this emissions unit. These reports

shall be submitted by January 31 of each year.

3. All deviation reports unless otherwise specified shall be submitted in accordance with 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. For Tub-grinding operation:

   Emission Limitations:

   1.5 pounds per hour and 6.6 tons per year of particulate emissions (PE).
   0.83 pound per hour and 3.6 tons per year of PM-10 emissions.

   Applicable Compliance Method:

   The hourly PE and PM-10 emission limitations are based upon the emissions unit's potential to emit and were established by the following methodology:

   pounds of PE = (A) x (B)

   pounds of PM-10 emissions = (A) x (B);

   where:

   A = PM or PM-10 emission factor, lb/ton, as referred from SCC Code 3-07-008-01 in FIRE Version 6.23. See detailed emission calculations in PTI application 14-05884.

   B = maximum hourly throughput of 75 tons.

   The tons per year annual emissions limitations are based on maximum hourly emission rate multiplied by 8760 hours of operation and divided by 2000 pounds per ton.

   b. For Material Handling:

Emission Limitations:

0.9 pound per hour and 3.9 tons per year of particulate emissions (PE).
0.43 pound per hour and 1.9 tons per year of PM-10 emissions.

Applicable Compliance Method:

The hourly PE and PM-10 emission limitations are based upon the emissions unit's potential to emit and were established by the following methodology:

lbs of PM = (A) x (B)

lbs of PM-10 emissions = (A) x (B); where:

A = PM or PM-10 emission factors, lb/ton, determined based on equation referred from AP-42, Section 13.2.4 (January 1995). See detailed emission calculations in PTI application 14-05884.

B = maximum hourly throughput for material load-in/load-out. (300 tons per hour for mulch and 200 tons per hour for sand, gravel and soil). See detailed emission calculations in PTI application 14-05884.

The tons per year annual emission limitations are based on maximum hourly emission rate multiplied by 8760 hours of operation and divided by 2000 pounds per ton.

c. For diesel engine:

Emission Limitations:

0.47 pound per hour and 2.1 tons per year of particulate emissions (PE);
0.47 pound per hour and 2.1 tons per year of PM10 emissions;
0.4 pound per hour and 1.8 tons per year of SO2 emissions;
15.2 pounds per hour and 66.6 tons per year of NOx emissions;
5.5 pounds per hour and 24.1 tons per year of CO emissions; and
0.7 pound per hour and 3.1 tons per year of VOC emissions.

Applicable Compliance Method:

The hourly emission rate for particulate emissions (PE) is based on following relationship:

pounds/hour PE = (A) * (B) * (C); where

A = Emission factor referred from OAC rule 3745-17-11(B)(5)(b), which is 0.062 pounds of PE per mm Btu of heat input;

B = Maximum hourly fuel consumption by the diesel engine = 52 gallons per hour; and

C = Heat content in diesel fuel = 0.147 mm Btu per gallon

The hourly emission rates for NOx emissions is based on following relationship:

pounds/hour NOx = (A) * (B); where

A = Emission factor (lb/hp-hr) referred from the manufacturer's data (9.2 grams per kilowatt-hour, i. e., 0.015 pounds per horsepower-hour); and

B = Power output of the diesel engine (1000 horsepower-hour/hour)

The hourly emission rates for pollutants such as SO2, CO and VOC are based on
following relationship:

pounds/hour emissions = (A) * (B); where

A = Emissions factors (lb/hp-hr) referred from AP-42 Section 3.4 for diesel fuel (SCC 2-02-004-01); and

B = Power output of the diesel engine (1000 horsepower-hour/hour)

The tons per year emission limitations for all the above-mentioned pollutants are based on maximum hourly emission rates multiplied by 8760 hours of operation and divided by 2000 pounds per ton.

2. Compliance with the emission limitation(s) outlined for OAC rule 3745-31-05(C) in Section A.1 of these terms and conditions shall be determined in accordance with the

following method(s):

Emission Limitations:

Particulate emissions (PE) from emissions units P001, P002 and P003 combined shall not exceed 13.5 tons per year, based upon a rolling, 12-month summation. This includes emissions from tub grinding, material handling, and the engine.

Particulate matter emissions less than10 microns in diameter from emissions units P001, P002 and P003 combined shall not exceed 8.1 tons per year, based upon a rolling, 12-month summation. This includes emissions from tub grinding, material handling, and the engine.

Sulfur dioxide (SO2) emissions from emissions units P001, P002 and P003 combined shall not exceed 1.9 tons per year, based upon a rolling, 12-month summation.

Nitrogen oxides (NOx) emissions from emissions units P001, P002 and P003 combined shall not exceed 71.4 tons per year, based upon a rolling, 12-month summation.

Carbon monoxide (CO) emissions from emissions units P001, P002 and P003 combined shall not exceed 25.8 tons per year, based upon a rolling, 12-month summation.

Volatile organic compound (VOC) emissions from emissions units P001, P002 and P003 combined shall not exceed 3.3 tons per year, based upon a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be determined by multiplying the hourly emission limitation for each pollutant by the updated rolling, 12-month summation of the operating hours for emissions unit P001, P002, and P003, combined (see term C.6) and divided by 2000 pounds per ton.

3. Compliance with the operating hours limitation in term B.2 shall be demonstrated by the record keeping in term C.6.

4. Compliance with the term B.1 shall be demonstrated by the record keeping in term C.5.

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5. Compliance with the emission limitation(s) in Sections A.1 and A.2 of these terms and conditions shall be determined in accordance with the following method(s):

   Visible emissions of fugitive dust shall not exceed 20% opacity, as a 3-minute average.

   Visible particulate emissions from the diesel engine exhaust stack shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:
If required, compliance with this emission limitation shall be determined through visible emissions observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A.

F. Miscellaneous Requirements

1. The permittee may relocate the portable source within the State of Ohio without first obtaining a permit to install (PTI) providing the appropriate exemption requirements have been met and following the approval of the director. The director may issue a "Notice of Site Approval" if the portable source meets the following criteria pursuant to OAC rule 3745-31-03(A)(1)(p)(i):

   a. the portable source has been issued a permit to install (PTI) and the permittee continues to comply with any applicable best available technology (BAT) determination and state and/or federal rules;

   b. the portable source is operating pursuant to a currently effective PTI and/or any applicable permit to operate (PTO) and continues to comply with the requirements of the permit;

   c. the permittee has provided a minimum of 30 days notice of the intent to relocate the portable source to the permitting authority (the Ohio EPA District Office or local air agency that has issued the effective current permit) prior to the scheduled relocation*;

   d. the Ohio EPA district office or local air agency having jurisdiction over the new site has determined that the permitted emissions would not cause a nuisance in violation of OAC rule 3745-15-07; and the relocation of the portable source, along with any supporting permitted emissions (e.g. roadways or storage piles), would not result in the installation of a major stationary source or a modification of an existing major stationary source at the new site; and

   e the director has issued a "Notice of Site Approval", stating that the proposed site is acceptable under OAC rule 3745-15-07 and the relocation will not result in the installation of a major stationary source or a modification of an existing major stationary source.

   Failure to submit said notification or failure to receive Ohio EPA approval prior to

relocation of the portable source may result in fines and civil penalties.

* Even if notification of the proposed relocation is submitted 30 days prior to the scheduled relocation date, the emissions unit shall not be moved prior to receiving the "Notice of Site Approval".

2. At the discretion and following the approval of the director, the permittee may relocate the portable source within the State of Ohio without first obtaining a permit to install (PTI) providing the appropriate exemption requirements have been met. Pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the director may issue a "Notice of Site Approval" for any pre-disclosed location(s) if the portable source meets the requirements of OAC rule 3745-31-05(E), as follows:

   a. the portable source is operating pursuant to a currently effective permit to install (PTI) and/or any applicable permit to operate (PTO) and continues to comply with the requirements of this permit and any applicable state and/or federal rules;

   b. the portable source has been issued a PTI and the permittee continues to comply with the requirements of the permit including any applicable best available technology (BAT) determination;

   c. the portable source owner has identified the proposed site(s) to the Ohio EPA;

   d. the Ohio EPA has determined that the portable source will have an acceptable environmental impact at the proposed site(s);

   e. a public notice, meeting the requirements OAC rule 3745-47, is published in the county where the proposed site(s) is/are located;

   f. the owner of the proposed site(s) (if not the permittee) has provided the portable source owner with approval, or an equivalent declaration, that it is acceptable to move the portable source to the proposed site(s); and

   g. the permittee has provided the Ohio EPA with a minimum of a 15-day written notice of the relocation*.

   The portable source can be relocated upon receipt of the director's "Notice of Site Approval" for the site. Any site approvals issued by the Ohio EPA, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), shall be valid for no longer than 3 years and are subject to

renewal.

Failure to submit said notification or failure to receive Ohio EPA approval prior to relocation of the portable source may result in fines and civil penalties. If the relocation of the portable source would result in the installation of a major stationary source or the modification of a major stationary source, the permittee shall submit an application and obtain a PTI for the new location prior to moving the portable source. Also, pursuant to OAC rule 3745-31-05(F), the director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.

* The "Notice of Intent to Relocate" shall be submitted to the Ohio EPA District Office or local air agency responsible for issuing the permits for the portable source. Upon receipt of the notice, the permitting office shall notify the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site.

Issued: 3/13/2007

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.

Operations, Property, and/or Equipment - (P003) - 1000 HP Tub Grinder and Material Handling

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures

OAC rule 3745-31-05(A)(3)	<u>Emissions from tub grinding:</u> Particulate emissions (PE) shall not exceed 1.5 pounds per hour and 6.6 tons per year. Particulate matter emissions less than 10 microns in diameter shall not exceed 0.83 pound per hour and 3.6 tons per year. <u>Emissions from material handling:</u> Particulate emissions (PE) shall not exceed 0.9 pound per hour and 3.9 tons per year. Particulate matter emissions less than10 microns in diameter shall not exceed 0.43 pound per hour and 1.9 tons per year. <u>Emissions from the diesel engine alone:</u> Particulate emissions (PE) shall not exceed 0.47 pound per hour and 2.1 tons per year. Particulate matter emissions less than10 microns in diameter shall not exceed 0.47 pound per hour and 2.1 tons per year. Sulfur dioxide (SO2) emissions shall not exceed 0.4 pound per hour and 1.8 tons per year. Nitrogen oxides (NOx) emissions shall not exceed 15.2 pounds per hour and 66.6 tons per year. Carbon monoxide (CO) emissions shall not exceed 5.5 pounds per hour and 24.1 tons per year. Volatile organic compound (VOC) emissions shall not exceed 0.7 pound per hour and 3.1 tons per year. See terms A.2.a, A.2.b, A.2.c, and A.2.e. The hourly and annual emissions limitations outlined under OAC rule 3745-31-05(A)(3) are based upon the emissions unit's potential to emit. Therefore, no records are required to demonstrate compliance with these limitations. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-11(B)(5)(b), 3745-35-07(B) and OAC rule 3745-21-08(B).

Emissions Unit ID: **P003**

OAC rule 3745-17-07(A)	Visible particulate emissions from the diesel engine exhaust stack shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.
OAC rule 3745-17-11(B)(5)(b)	The particulate emissions from the diesel engine's exhaust shall not exceed 0.062 pounds per million Btu of actual heat input.
OAC rule 3745-17-07(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-08(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-18-06(B)	Exempt
OAC rule 3745-35-07(B)	Particulate emissions (PE) from emissions units P001, P002 and P003 combined shall not exceed 13.5 tons per year, based upon a rolling, 12-month summation. This includes emissions from tub grinding, material handling, and the diesel engine. Particulate matter emissions less than10 microns in diameter from emissions units P001, P002 and P003 combined shall not exceed 8.1 tons per year, based upon a rolling, 12-month summation. This includes emissions from tub grinding, material handling, and the diesel engine. Sulfur dioxide (SO2) emissions from emissions units P001, P002 and P003 combined shall not exceed 1.9 tons per year, based upon a rolling, 12-month summation. Nitrogen oxides (NOx) emissions from emissions units P001, P002 and P003 combined shall not exceed 71.4 tons per year, based upon a rolling, 12-month summation. Carbon monoxide (CO) emissions from emissions units P001, P002 and P003 combined shall not exceed 25.8 tons per year, based upon a rolling, 12-month summation. Volatile organic compound (VOC) emissions from emissions units P001, P002 and P003 combined shall not exceed 3.3 tons per year, based upon a rolling, 12-month summation. See term and condition B.2

Emissions Unit ID: **P003**

OAC rule 3745-21-08(B)	See term and condition A.2.d

2. Additional Terms and Conditions

2.a The permittee shall employ best available control measures for the tub grinder, the processed mulch pile(s), conveyor transfer point(s) and the loading and unloading activities associated with the tub grinder for the purpose of ensuring compliance with the visible particulate emissions requirement. The permittee shall employ water on an 'as needed' basis to ensure compliance.

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

2.b 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 visible particulate emissions requirement. Any required implementation of the control measure(s) shall continue until further observation confirms that use of the control measure(s) is unnecessary.

2.c 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(A)(3).

2.d The permittee shall satisfy the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology (BAT) requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install. The design of the emissions unit and the technology associated with the current operating practices satisfy the BAT requirements.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. This rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Until the U.S. EPA approves the revision to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.e Fugitive visible particulate emissions from the tub grinder, conveyor transfer point(s) and the loading and unloading activities associated with the tub grinder

and material handling shall not exceed 20% opacity, as a three-minute average.

B. Operational Restrictions

1. The permittee shall use only number two fuel oil (0.5% sulfur by weight or less) in the diesel engine integral to this emissions unit.

2. The maximum annual operating hours for emissions units P001, P002, and P003 combined shall not exceed 9390 hours, based upon a rolling, 12 month summation of the operating hours.

   The permittee has existing records to demonstrate compliance with this annual operating hours limitation upon permit issuance.

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of the grinding and material handling operations in accordance with the following frequencies:

grinding and material handling operation	minimum inspection frequency
1000 HP tub grinder and material handling	once daily during operation

2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal operating conditions. No inspection shall be necessary for this material handling operation if the material used in this operation 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.

3. The permittee may, upon receipt of written approval from the Hamilton County Department of Environmental Services, 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 measures were implemented; and

d. on a calendar quarter basis, the total number of days the control measures were implemented.

The information required in 4.d shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

5. For each day during which the permittee burns a fuel other than number two fuel oil (0.5% sulfur by weight or less), the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

6. The permittee shall maintain monthly records of the following information:

a. the annual operating hours of this emissions unit;

b. the rolling, 12-month summation of the operating hours for emissions units P001, P002, and P003 combined (this will include the number of hours of operation for the current month and the previous 11 calendar months); and

c. the rolling, 12-month summation of PE, PM-10, SO2, VOC, NOx, and CO emissions for emissions units P001, P002, and P003 combined.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation/exceedance reports that identify any of the following occurrences:

a. Each day when a fuel other than number two fuel oil (0.5% sulfur by weight or less) was burned in this emissions unit.

b. 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.

c. Each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

d. Any exceedance on the annual operating hours limitation as outlined in term B.2. If no exceedances occurred, the permittee shall state so in the report.

e. Any exceedance of the annual allowable tons per year PE, PM-10, SO2, VOC, NOx, and CO emissions on a rolling, 12 month summation for emissions units P001, P002, and P003 combined. If no exceedances occurred, the permittee shall state so in the report.

2. The permittee shall submit annual reports that specify the total emissions in tons per year for PE, PM-10, VOC, SO2, NOx and CO for this emissions unit. These reports shall be submitted by January 31 of each year.

3. All deviation reports unless otherwise specified shall be submitted in accordance with 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. For Tub-grinding operation:

<u>Emission Limitations:</u>

1.5 pounds per hour and 6.6 tons per year of particulate emissions (PE).
0.83 pound per hour and 3.6 tons per year of PM-10 emissions.

<u>Applicable Compliance Method:</u>

The hourly PE and PM-10 emission limitations are based upon the emissions unit's potential to emit and were established by the following methodology:

pounds of PE = (A) x (B)

pounds of PM-10 emissions = (A) x (B);

where:

A = PM or PM-10 emission factor, lb/ton, as referred from SCC Code 3-07-008-01 in FIRE Version 6.23. See detailed emission calculations in PTI application 14-05884.

B = maximum hourly throughput of 75 tons.

The tons per year annual emission limitations are based on maximum hourly emission rate multiplied by 8760 hours of operation and divided by 2000 pounds per ton.

b. For Material Handling:

Emission Limitations:

0.9 pound per hour and 3.9 tons per year of particulate emissions (PE).
0.43 pound per hour and 1.9 tons per year of PM-10 emissions.

Applicable Compliance Method:

The hourly PE and PM-10 emission limitations are based upon the emissions unit's potential to emit and were established by the following methodology:

lbs of PM = (A) x (B)

lbs of PM-10 emissions = (A) x (B); where:

A = PM or PM-10 emission factors, lb/ton, determined based on equation referred from AP-42, Section 13.2.4 (January 1995). See detailed emission calculations in PTI application 14-05884.

B = maximum hourly throughput for material load-in/load-out. (300 tons per hour for mulch and 200 tons per hour for sand, gravel and soil). See detailed emission calculations in PTI application 14-05884.

The tons per year annual emission limitations are based on maximum hourly emission rate multiplied by 8760 hours of operation and divided by 2000 pounds per ton.

c. For diesel engine:

Emission Limitations:

0.47 pound per hour and 2.1 tons per year of particulate emissions (PE);
0.47 pound per hour and 2.1 tons per year of PM10 emissions;
0.4 pound per hour and 1.8 tons per year of SO2 emissions;
15.2 pounds per hour and 66.6 tons per year of NOx emissions;
5.5 pounds per hour and 24.1 tons per year of CO emissions; and
0.7 pound per hour and 3.1 tons per year of VOC emissions.

Applicable Compliance Method:

The hourly emission rate for particulate emissions (PE) is based on following relationship:

pounds/hour PE = (A) * (B) * (C); where

A = Emission factor referred from OAC rule 3745-17-11(B)(5)(b), which is 0.062 pounds of PE per mm Btu of heat input;

B = Maximum hourly fuel consumption by the diesel engine = 52 gallons per hour; and

C = Heat content in diesel fuel = 0.147 mm Btu per gallon

The hourly emission rates for NOx emissions is based on following relationship:

pounds/hour NOx = (A) * (B); where

A = Emission factor (lb/hp-hr) referred from the manufacturer's data (9.2 grams per kilowatt-hour, i. e., 0.015 pounds per horsepower-hour); and

B = Power output of the diesel engine (1000 horsepower-hour/hour)

The hourly emission rates for pollutants such as SO2, CO and VOC are based on
following relationship:

pounds/hour emissions = (A) * (B); where

A = Emissions factors (lb/hp-hr) referred from AP-42 Section 3.4 for diesel fuel (SCC 2-02-004-01); and

B = Power output of the diesel engine (1000 horsepower-hour/hour)

The tons per year emission limitations for all the above-mentioned pollutants are based on maximum hourly emission rates multiplied by 8760 hours of operation and divided by 2000 pounds per ton.

2. Compliance with the emission limitation(s) outlined for OAC rule 3745-31-05(C) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):

Emissions Unit ID: **P003**

Emission Limitations:

Particulate emissions (PE) from emissions units P001, P002 and P003 combined shall not exceed 13.5 tons per year, based upon a rolling, 12-month summation. This includes emissions from tub grinding, material handling, and the engine.

Particulate matter emissions less than10 microns in diameter from emissions units P001, P002 and P003 combined shall not exceed 8.1 tons per year, based upon a rolling, 12-month summation. This includes emissions from tub grinding, material handling, and the engine.

Sulfur dioxide (SO2) emissions from emissions units P001, P002 and P003 combined shall not exceed 1.9 tons per year, based upon a rolling, 12-month summation.

Nitrogen oxides (NOx) emissions from emissions units P001, P002 and P003 combined shall not exceed 71.4 tons per year, based upon a rolling, 12-month summation.

Carbon monoxide (CO) emissions from emissions units P001, P002 and P003 combined shall not exceed 25.8 tons per year, based upon a rolling, 12-month summation.

Volatile organic compound (VOC) emissions from emissions units P001, P002 and P003 combined shall not exceed 3.3 tons per year, based upon a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be determined by multiplying the hourly emission limitation for each pollutant by the updated rolling, 12-month summation of the operating hours for emissions unit P001, P002, and P003, combined (see term C.6) and divided by 2000 pounds per ton.

3. Compliance with the operating hours limitation in term B.2 shall be demonstrated by the record keeping in term C.6.

4. Compliance with the term B.1 shall be demonstrated by the record keeping in term C.5.

5. Compliance with the emission limitation(s) in Sections A.1 and A.2 of these terms and conditions shall be determined in accordance with the following method(s):

Visible emissions of fugitive dust shall not exceed 20% opacity, as a 3-minute average.

Visible particulate emissions from the diesel engine exhaust stack shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:
If required, compliance with this emission limitation shall be determined through visible emissions observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A.

F. Miscellaneous Requirements

1. The permittee may relocate the portable source within the State of Ohio without first obtaining a permit to install (PTI) providing the appropriate exemption requirements have been met and following the approval of the director. The director may issue a "Notice of Site Approval" if the portable source meets the following criteria pursuant to OAC rule 3745-31-03(A)(1)(p)(i):

   a. the portable source has been issued a permit to install (PTI) and the permittee continues to comply with any applicable best available technology (BAT) determination and state and/or federal rules;

   b. the portable source is operating pursuant to a currently effective PTI and/or any applicable permit to operate (PTO) and continues to comply with the requirements of the permit;

   c. the permittee has provided a minimum of 30 days notice of the intent to relocate the portable source to the permitting authority (the Ohio EPA District Office or local air agency that has issued the effective current permit) prior to the scheduled relocation*;

   d. the Ohio EPA district office or local air agency having jurisdiction over the new site has determined that the permitted emissions would not cause a nuisance in violation of OAC rule 3745-15-07; and the relocation of the portable source, along with any supporting permitted emissions (e.g. roadways or storage piles), would not result in the installation of a major stationary source or a modification of an existing major stationary source at the new site; and

   e the director has issued a "Notice of Site Approval", stating that the proposed site is acceptable under OAC rule 3745-15-07 and the relocation will not result in the installation of a major stationary source or a modification of an existing major stationary source.

   Failure to submit said notification or failure to receive Ohio EPA approval prior to

relocation of the portable source may result in fines and civil penalties.

* Even if notification of the proposed relocation is submitted 30 days prior to the scheduled relocation date, the emissions unit shall not be moved prior to receiving the "Notice of Site Approval".

2. At the discretion and following the approval of the director, the permittee may relocate the portable source within the State of Ohio without first obtaining a permit to install (PTI) providing the appropriate exemption requirements have been met. Pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the director may issue a "Notice of Site Approval" for any pre-disclosed location(s) if the portable source meets the requirements of OAC rule 3745-31-05(E), as follows:

   a. the portable source is operating pursuant to a currently effective permit to install (PTI) and/or any applicable permit to operate (PTO) and continues to comply with the requirements of this permit and any applicable state and/or federal rules;

   b. the portable source has been issued a PTI and the permittee continues to comply with the requirements of the permit including any applicable best available technology (BAT) determination;

   c. the portable source owner has identified the proposed site(s) to the Ohio EPA;

   d. the Ohio EPA has determined that the portable source will have an acceptable environmental impact at the proposed site(s);

   e. a public notice, meeting the requirements OAC rule 3745-47, is published in the county where the proposed site(s) is/are located;

   f. the owner of the proposed site(s) (if not the permittee) has provided the portable source owner with approval, or an equivalent declaration, that it is acceptable to move the portable source to the proposed site(s); and

   g. the permittee has provided the Ohio EPA with a minimum of a 15-day written notice of the relocation*.

   The portable source can be relocated upon receipt of the director's "Notice of Site Approval" for the site. Any site approvals issued by the Ohio EPA, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), shall be valid for no longer than 3 years and are subject to

renewal.

Failure to submit said notification or failure to receive Ohio EPA approval prior to relocation of the portable source may result in fines and civil penalties. If the relocation of the portable source would result in the installation of a major stationary source or the modification of a major stationary source, the permittee shall submit an application and obtain a PTI for the new location prior to moving the portable source. Also, pursuant to OAC rule 3745-31-05(F), the director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.

* The "Notice of Intent to Relocate" shall be submitted to the Ohio EPA District Office or local air agency responsible for issuing the permits for the portable source. Upon receipt of the notice, the permitting office shall notify the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site.

Issued: 3/13/2007

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.

Operations, Property, and/or Equipment - (P004) - 135 HP Dirt Screener and Material Handling

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures

OAC rule 3745-31-05(A)(3)	<u>Emissions from dirt screener:</u> Particulate emissions (PE) shall not exceed 1.5 pounds per hour and 6.6 tons per year. Particulate matter emissions less than 10 microns in diameter shall not exceed 0.83 pound per hour and 3.6 tons per year. <u>Emissions from material handling:</u> Particulate emissions (PE) shall not exceed 0.9 pound per hour and 3.9 tons per year. Particulate matter emissions less than10 microns in diameter shall not exceed 0.43 pound per hour and 1.9 tons per year. <u>Emissions from the diesel engine alone:</u> Particulate emissions (PE) shall not exceed 0.03 pound per hour and 0.13 tons per year. Particulate matter emissions less than10 microns in diameter shall not exceed 0.03 pound per hour and 0.13 tons per year. Sulfur dioxide (SO2) emissions shall not exceed 0.3 pound per hour and 1.3 tons per year. Nitrogen oxides (NOx) emissions shall not exceed 2.1 pounds per hour and 9.2 tons per year. Carbon monoxide (CO) emissions shall not exceed 0.9 pound per hour and 3.9 tons per year. Volatile organic compound (VOC) emissions shall not exceed 0.3 pound per hour and 1.3 tons per year. See terms A.2.a, A.2.b, A.2.c, and A.2.f. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-11(B)(5)(b), and OAC rule 3745-21-08(B).

Emissions Unit ID: **P004**

OAC rule 3745-17-07(A)	Visible particulate emissions from the diesel engine exhaust stack shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.
OAC rule 3745-17-11(B)(5)(b)	The particulate emissions from the diesel engine's exhaust shall not exceed 0.062 pound per million Btu of actual heat input.
OAC rule 3745-17-07(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-08(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-18-06(B)	Exempt.
OAC rule 3745-21-08(B)	See term A.2.e

2. Additional Terms and Conditions

2.a The permittee shall employ best available control measures for the dirt screener and the loading and unloading activities associated with the dirt screener for the purpose of ensuring compliance with the visible particulate emissions requirement. The permittee shall employ water on an 'as needed' basis to ensure compliance.

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

2.b 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 visible particulate emissions requirement. Any required implementation of the control measure(s) shall continue until further observation confirms that use of the control measure(s) is unnecessary.

2.c 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(A)(3).

2.d The pounds per hour and tons per year limit for PE and PM10 for the dirt screener and the material handling and the pounds per hour and tons per year limits for PE, PM10, NOx, CO, SO2 and VOC for the diesel engine reflect the maximum potential to emit for this emissions unit. Therefore, it is not necessary

to develop record keeping and/or reporting requirements to ensure compliance with these limits.

2.e The permittee shall satisfy the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology (BAT) requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install. The design of the emissions unit and the technology associated with the current operating practices satisfy the BAT requirements.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. This rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Until the U.S. EPA approves the revision to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.f Fugitive visible particulate emissions from the dirt screener, conveyor transfer point(s) and the loading and unloading activities associated with the dirt screener and material handling shall not exceed 20% opacity, as a three-minute average.

B. Operational Restrictions

1. The permittee shall use only number two fuel oil (0.5% sulfur by weight or less) in the diesel engine integral to this emissions unit.

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of the grinding and material handling operations in accordance with the following frequencies:

grinding and material handling operation	minimum inspection frequency
Dirt screener and material handling	once daily, during operation

2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during

representative, normal operating conditions. No inspection shall be necessary for this material handling operation if the material used in this operation 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.

3. The permittee may, upon receipt of written approval from the Hamilton County Department of Environmental Services, 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 measures were implemented; and

   d. on a calendar quarter basis, the total number of days the control measures were implemented.

   The information required in 4.d shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

5. For each day during which the permittee burns a fuel other than number two fuel oil (0.5% sulfur by weight or less), the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation reports that identify any of the following occurrences:

   a. Each day when a fuel other than number two fuel oil (0.5% sulfur by weight or less) was burned in this emissions unit.

   b. 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.

c. Each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

2. All deviation reports unless otherwise specified shall be submitted in accordance with 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. For Dirt screening operation:

Emission Limitations:

1.5 pounds per hour and 6.6 tons per year of particulate emissions (PE).
0.83 pound per hour and 3.6 tons per year of PM-10 emissions.

Applicable Compliance Method:

The hourly PE and PM-10 emission limitations are based upon the emissions unit's potential to emit and were established by the following methodology:

pounds of PE = (A) x (B)

pounds of PM-10 emissions = (A) x (B);

where:

A = PM or PM-10 emission factor, lb/ton, as referred from SCC Code 3-07-008-01 in FIRE Version 6.23. See detailed emission calculations in PTI application 14-05884.

B = maximum hourly throughput of 75 tons.

The tons per year annual emission limitations are based on maximum hourly emission rate multiplied by the maximum annual operational hours of 8760 and divided by 2000 pounds per ton.

b. For Material Handling:

Emission Limitations:

0.9 pound per hour and 3.9 tons per year of particulate emissions (PE).
0.43 pound per hour and 1.9 tons per year of PM-10 emissions.

Applicable Compliance Method:

The hourly PE and PM-10 emission limitations are based upon the emissions unit's potential to emit and were established by the following methodology:

lbs of PM = (A) x (B)

lbs of PM-10 emissions = (A) x (B); where:

A = PM or PM-10 emission factors, lb/ton, determined based on equation referred from AP-42, Section 13.2.4 (January 1995). See detailed emission calculations in PTI application 14-05884.

B = maximum hourly throughput for material load-in/load-out. (200 tons per hour for soil). See detailed emission calculations in PTI application 14-05884.

The tons per year annual emission limitations are based on maximum hourly emission rate multiplied by the maximum annual operational hours of 8760 and divided by 2000 pounds per ton.

c. For diesel engine:

Emission Limitations:

0.03 pound per hour and 0.13 tons per year of particulate emissions (PE);
0.03 pound per hour and 0.13 tons per year of PM10 emissions;
0.3 pound per hour and 1.3 tons per year of SO2 emissions;
2.1 pounds per hour and 9.2 tons per year of NOx emissions;
0.9 pound per hour and 3.9 tons per year of CO emissions; and
0.3 pound per hour and 1.3 tons per year of VOC emissions.

Applicable Compliance Method:

The hourly emission rate for particulate emissions (PE) is based on following relationship:

pounds/hour PE = (A) * (B) * (C); where

A = Emission factor referred from OAC rule 3745-17-11(B)(5)(b), which is 0.062 pounds of PE per mm Btu of heat input;

B = Maximum hourly fuel consumption by the diesel engine = 3.5 gallons per hour; and

C = Heat content in diesel fuel = 0.147 mm Btu per gallon

The hourly emission rates for NOx emissions is based on following relationship:

pounds/hour NOx = (A) * (B); where

A = Emission factor (lb/hp-hr) referred from the manufacturer's data (9.2 grams per kilowatt-hour, i. e., 0.015 pounds per horsepower-hour); and

B = Power output of the diesel engine (135 horsepower-hour/hour)

The hourly emission rates for pollutants such as SO2, CO and VOC are based on
following relationship:

pounds/hour emissions = (A) * (B); where

A = Emissions factors (lb/hp-hr) referred from AP-42 Section 3.3 for diesel fuel (SCC 2-02-001-02, 2-03-001-01); and

B = Power output of the diesel engine (135 horsepower-hour/hour)

The tons per year emission limitations for all the above-mentioned pollutants are based on maximum hourly emission rates multiplied by the maximum annual operational hours (8760 hours) and divided by 2000 pounds per ton.

2. Compliance with the emission limitation(s) in Sections A.1 and A.2 of these terms and conditions shall be determined in accordance with the following method(s):

Visible emissions of fugitive dust shall not exceed 20% opacity, as a 3-minute average.

Visible particulate emissions from the diesel engine exhaust stack shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:
If required, compliance with this emission limitation shall be determined through visible emissions observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A.

F. Miscellaneous Requirements

1. The permittee may relocate the portable source within the State of Ohio without first obtaining a permit to install (PTI) providing the appropriate exemption requirements have been met and following the approval of the director. The director may issue a "Notice of Site Approval" if the portable source meets the following criteria pursuant to OAC rule 3745-31-03(A)(1)(p)(i):

   a. the portable source has been issued a permit to install (PTI) and the permittee continues to comply with any applicable best available technology (BAT) determination and state and/or federal rules;

   b. the portable source is operating pursuant to a currently effective PTI and/or any applicable permit to operate (PTO) and continues to comply with the requirements of the permit;

   c. the permittee has provided a minimum of 30 days notice of the intent to relocate the portable source to the permitting authority (the Ohio EPA District Office or local air agency that has issued the effective current permit) prior to the scheduled relocation*;

   d. the Ohio EPA district office or local air agency having jurisdiction over the new site has determined that the permitted emissions would not cause a nuisance in violation of OAC rule 3745-15-07; and the relocation of the portable source, along with any supporting permitted emissions (e.g. roadways or storage piles), would not result in the installation of a major stationary source or a modification of an existing major stationary source at the new site; and

   e the director has issued a "Notice of Site Approval", stating that the proposed site is acceptable under OAC rule 3745-15-07 and the relocation will not result in the installation of a major stationary source or a modification of an existing major stationary source.

   Failure to submit said notification or failure to receive Ohio EPA approval prior to

relocation of the portable source may result in fines and civil penalties.

* Even if notification of the proposed relocation is submitted 30 days prior to the scheduled relocation date, the emissions unit shall not be moved prior to receiving the "Notice of Site Approval".

2. At the discretion and following the approval of the director, the permittee may relocate the portable source within the State of Ohio without first obtaining a permit to install (PTI) providing the appropriate exemption requirements have been met. Pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the director may issue a "Notice of Site Approval" for any pre-disclosed location(s) if the portable source meets the requirements of OAC rule 3745-31-05(E), as follows:

   a. the portable source is operating pursuant to a currently effective permit to install (PTI) and/or any applicable permit to operate (PTO) and continues to comply with the requirements of this permit and any applicable state and/or federal rules;

   b. the portable source has been issued a PTI and the permittee continues to comply with the requirements of the permit including any applicable best available technology (BAT) determination;

   c. the portable source owner has identified the proposed site(s) to the Ohio EPA;

   d. the Ohio EPA has determined that the portable source will have an acceptable environmental impact at the proposed site(s);

   e. a public notice, meeting the requirements OAC rule 3745-47, is published in the county where the proposed site(s) is/are located;

   f. the owner of the proposed site(s) (if not the permittee) has provided the portable source owner with approval, or an equivalent declaration, that it is acceptable to move the portable source to the proposed site(s); and

   g. the permittee has provided the Ohio EPA with a minimum of a 15-day written notice of the relocation*.

   The portable source can be relocated upon receipt of the director's "Notice of Site Approval" for the site. Any site approvals issued by the Ohio EPA, pursuant to OAC

rule 3745-31-03(A)(1)(p)(ii), shall be valid for no longer than 3 years and are subject to renewal.

Failure to submit said notification or failure to receive Ohio EPA approval prior to relocation of the portable source may result in fines and civil penalties. If the relocation of the portable source would result in the installation of a major stationary source or the modification of a major stationary source, the permittee shall submit an application and obtain a PTI for the new location prior to moving the portable source. Also, pursuant to OAC rule 3745-31-05(F), the director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.

* The "Notice of Intent to Relocate" shall be submitted to the Ohio EPA District Office or local air agency responsible for issuing the permits for the portable source. Upon receipt of the notice, the permitting office shall notify the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site.