



State of Ohio Environmental Protection Agency

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

CERTIFIED MAIL

Street Address:

122 S. Front Street

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

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 01-12040

Fac ID: 0125042476

DATE: 12/7/2006

Ohio Mulch
Mike Moeller
2140 Advance Ave
Columbus, OH 43207

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, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

CC: USEPA

CDO



**Permit To Install
Terms and Conditions**

**Issue Date: 12/7/2006
Effective Date: 12/7/2006**

FINAL PERMIT TO INSTALL 01-12040

Application Number: 01-12040
Facility ID: 0125042476
Permit Fee: **\$1200**
Name of Facility: Ohio Mulch
Person to Contact: Mike Moeller
Address: 2140 Advance Ave
Columbus, OH 43207

Location of proposed air contaminant source(s) [emissions unit(s)]:
**2140 Advance Ave
Columbus, Ohio**

Description of proposed emissions unit(s):
3 Drum screening machines.

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

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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

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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)

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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.

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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

Emissions Unit ID: P003

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

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	66.63
NOx	13.5
CO	3.0
SO2	0.9
TOC	1.05
PM-10	1.0

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

A. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment - (P003) - Doppstadt SM-720-number 1 Drum Screening Machine with Diesel Engine and Conveyor.

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Emissions from screening plant, conveyors	
OAC rule 3745-31-05(A)(3)	<p style="text-align: center;">Limit(s)</p> <p>8.75 lbs/hour and 21.88 tons/year of fugitive particulate emissions</p> <p>Visible emissions of fugitive dust shall not exceed ten percent opacity, as a six-minute average, from any transfer point or piece of screening equipment.</p> <p>There shall be no visible emissions of fugitive dust from the screening process except for a period of time not to exceed 3 minutes during any sixty-minute observation period.</p> <p>best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust (see Sections A.2.a and A.2.b) from any fugitive dust emission point listed below in Section A.2.c.</p>
OAC rule 3745-17-07(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 3745-17-08	See Sections A.2.a through A.2.d.
Emissions from diesel engine combustion	

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OAC rule 3745-31-05(A)(3)	0.13 lb/hr and 0.33 ton/year of PE/PM10 emissions 1.8 lbs/hour and 4.5 tons/year of NOx emissions 0.4 lb/hour and 1.0 ton/year of CO emissions 0.12 lb/hour and 0.3 ton/year of SO2 emissions 0.14 lb/hour and 0.35 ton/year of TOC emissions The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B)(5)(a), 3745-17-07(A), 3745-18-06(G), 3745-21-07(B) and 3745-21-08.
OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.
OAC rule 3745-17-11(B)(5)(a)	PE from this emissions unit shall not exceed 0.25 lb/mmBtu of actual heat input. See Section A.2.h. PE from this emissions unit shall not exceed 0.310 lb/mmBtu of actual heat input. See Section A.2.i.
OAC rule 3745-18-06(G)	See Section A.2.e.
OAC rule 3745-23-06(B)	See Section A.2.g.
OAC rule 3745-21-08	See Section A.2.f.

2. Additional Terms and Conditions

- 2.a** The permittee shall employ best available control measures for the mulch screening operation for the purpose of ensuring compliance with the applicable requirements. In accordance with the permittee's permit application, the permittee has committed to ensuring that the material processed has an inherently high moisture content, or will employ water sprays within the process to ensure compliance. The permittee shall also minimize the free fall distance of the processed material. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.b** For each part of the mulch screening operation that is not adequately enclosed, the control measure(s) shall be implemented if the permittee determined, 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 applicable requirements. Any required implementation of the control measure(s) shall continue during the operation until further observation confirms that use of the control measure(s) is unnecessary.
- 2.c** The mulch screening machine that is covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 is listed below: One

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Doppstadt SM 720 screen with diesel engine and product conveyor

- 2.d** Open bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times the materials are being transported.
- 2.e** OAC rule 3745-18-06(B) exempts stationary internal combustion engines which have rated heat input capacities equal to or less than 10 mmBtu/hr from the sulfur dioxide emission limit in OAC rule 3745-18-06(G). This emissions unit has a rated heat input of 0.41 mmBtu/hr.
- 2.f** The permittee has satisfied 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 requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install.

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. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- 2.g** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

On February 14, 2005, OAC rule 3745-23-06 was rescinded; therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the U.S. EPA approves the revision to OAC rule 3745-23-06, the requirement to satisfy the "latest available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- 2.h** The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.310 lb/mmBtu of actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.

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- 2.i** This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.

B. Operational Restrictions

1. The permittee shall burn only number two fuel oil in this emissions unit.
2. The quality of No. 2 fuel oil received for burning in this emissions unit shall have a combination of sulfur content and heat content sufficient to comply with the allowable sulfur dioxide emission limitation of 0.50 lb/mmBtu of actual heat input and the sulfur content limitation for No. 2 fuel oil of less than or equal to 0.5 weight per cent sulfur.
3. The maximum annual operating hours for this emissions unit shall not exceed 5000 hours, based upon a rolling, 12-month summation of the operating hours.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the cumulative operating hours in the following table:

Month(s)	Maximum Allowable Cumulative Operating Hours
1	720
1-2	1440
1-3	5000
1-4	5000
1-5	5000
1-6	5000
1-7	5000
1-8	5000
1-9	5000
1-10	5000
1-11	5000
1-12	5000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual cumulative operating hour limitation shall be based upon a rolling, 12-month summation of the hours of operation.

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C. Monitoring and/or Recordkeeping Requirements

1. For each day during which the permittee burns a fuel other than number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. Except as otherwise provided in this section, for Mulch Screening operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>material handling operations</u>	<u>minimum inspection frequency</u>
screening	daily
conveyors	daily

3. The above mentioned inspections shall be performed during representative, normal operating conditions.
4. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
 - c. the dates the control measure(s) was (were) implemented; and
 - d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

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

5. The permittee shall maintain monthly records of the following information:
 - a. the operating hours for each day; and
 - b. the rolling, 365-day summation of the operating hours.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency; and
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented. These deviation (excursion) reports shall be submitted in accordance with the general terms and conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than number two fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. Reporting requirements for annual operating hours limitations based upon rolling 365-day and 12-month summations
4. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12 month operating hour limitation; and for the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, all exceedances of the maximum allowable cumulative operating hours rate levels. These reports shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A 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:**
8.75 lbs/hour and 21.88 tons/year of fugitive PE and 0.13lb/hour and 0.33 ton/year of PM10

Applicable Compliance Method:

Compliance with the hourly PE/PM10 emission limitations shall be determined using the emission factors for screening and material handling operations in RACM, Chapter 2, Table 2.17-1 (0.35 Lb/ton screened X 25 tons/hr) The tons/year limitations were developed by multiplying the pound/hour by the maximum operating hours of 5,000 hours/year, and dividing by 2,000

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pounds/ton. Therefore, provided compliance is shown with the hourly emission limitations and the annual operating hours restriction, compliance will also be shown with the annual limitation.

b. **Emission Limitation:**

Visible emissions of fugitive dust shall not exceed ten percent opacity, as a six minute average, from any transfer point or piece of screening equipment.

Applicable Compliance Method:

The permittee shall conduct, or have conducted, fugitive visible particulate emission testing for this emissions unit in accordance with the requirements in Section E.2 below.

c. **Emission Limitation:**

1.8 lbs/hour and 4.5 tons/year of NO_x emissions from the diesel engine.

Applicable Compliance Method:

Compliance with the hourly NO_x emission limitation shall be determined by multiplying the emission factor taken from the U.S. EPA reference document AP-42, Chapter 3.3, Table 3.3-1 for Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines, Fifth Edition, 10/96 version (4.41 lbs/mmBtu), by the maximum heat input of the source (0.41 mmBtu/hour). The tons/year limitations were developed by multiplying the lbs/hour by the restricted operating hours of 5000 hours/year, and dividing by 2000 pounds/ton. If required, compliance shall be demonstrated based upon emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4, and 7.

d. **Emission Limitation:**

0.39 lb/hour and 1.0 ton/year of CO emissions from the diesel engine

Applicable Compliance Method:

Compliance with the hourly CO emission limitation shall be determined by multiplying the emission factor taken from the U.S. EPA reference document AP-42, Chapter 3.3, Table 3.3-1 for Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines, Fifth Edition, 10/96 version (0.95 lb/mmBtu), by the maximum heat input of the source (0.41 mmBtu/hour). The tons/year limitations were developed by multiplying the lbs/hour by the hours of 5,000 hours/year, and dividing by 2000 pounds/ton. If required, compliance shall be demonstrated based upon emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4, and 10.

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e. Emission Limitation:

0.12 lb/hour and 0.3 ton/year of SO₂ emissions from the diesel engine

Applicable Compliance Method:

Compliance with the hourly SO₂ emission limitation shall be determined by multiplying the emission factor taken from the U.S. EPA reference document AP-42, Chapter 3.3, Table 3.3-1 for Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines, Fifth Edition, 10/96 version (0.29 lb/mmBtu), by the maximum heat input of the source (0.41 mmBtu/hour).

The tons/year limitations were developed by multiplying the lbs/hour by the restricted operating hours of 5,000 hours/year, and dividing by 2000 pounds/ton. If required, compliance shall be demonstrated based upon emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4, and 6.

f. Emission Limitation:

0.14 lb/hour and 0.35 ton/year of TOC emissions from the diesel engine

Applicable Compliance Method:

Compliance with the hourly SO₂ emission limitation shall be determined by multiplying the emission factor taken from the U.S. EPA reference document AP-42, Chapter 3.3, Table 3.3-1 for Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines, Fifth Edition, 10/96 version (0.29 lb/mmBtu), by the maximum heat input of the source (0.41 mmBtu/hour).

The tons/year limitations were developed by multiplying the lbs/hour by the restricted operating hours of 5,000 hours/year, and dividing by 2000 pounds/ton. If required, compliance shall be demonstrated based upon emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4, and 18 or 25/25A, as appropriate.

g. Emission Limitation:

PE from the diesel engine shall not exceed 0.25 lb/mmBtu of actual heat input

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4, and 5. Note that Ohio EPA has revised the emission limitation specified in OAC rule 3745-17-11(B)(5)(a) based upon the currently applicable emission factor. The

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revised rule was adopted by the director of Ohio EPA in December of 1997, and it will be submitted to the U.S. EPA as a proposed revision to the Ohio SIP for particulate matter. When the SIP revision is approved by the U.S. EPA, the 0.25 lb/MM Btu actual heat input emission limitation will no longer be applicable.

h. **Emissions Limitation:**

PE from the diesel engine shall not exceed 0.31 lb/mmBtu of actual heat input

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4, and 5.

i. **Emissions Limitation:**

0.13 lb/hr and 0.33 ton/year of PE/PM10 emissions from the diesel engine

Applicable Compliance Method:

The emission limitations were based upon the OAC rule 3745-17-11(B)(5)(a) rule limitation. Compliance with the hourly emission limitation shall be determined by multiplying the 0.310 lb/mmBtu emission factor by the 0.41 mmBtu/hr rating of the unit. The tons/year limitations were developed by multiplying the lbs/hour by 5000 hours/year, and dividing by 2000 pounds/ton. If required, compliance shall be demonstrated based upon emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4, and 5.

j. **Emission Limitation:**

Visible particulate emissions from the diesel generator shall not exceed 20 percent opacity, as a six-minute average

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined using Method 9 of 40 CFR, Part 60, Appendix A.

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2. The emission testing shall be conducted within 60 days after achieving maximum production but no later than 180 days after initial startup. Compliance with the opacity limits of this permit shall be determined by using US EPA Reference Test Method 9 (40 CFR Part 60) and the procedures specified in OAC rule 3745-17-03 (B)(1). The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Central District Office. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Central District Office's refusal to accept the results of the emission test(s). Personnel from the Ohio EPA, Central District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment. The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards and the BAT limits for fugitive opacity contained in this permit. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central District Office within 30 days following completion of the test(s).

F. Miscellaneous Requirements

None.

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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) - Doppstadt SM-617-number 2 Drum Screening Machine with Diesel Engine and Conveyor.

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Emissions from screening plant, conveyors	
OAC rule 3745-31-05	<p style="text-align: center;">Limits</p> <p>8.75 lbs/hour and 21.88 tons/year of fugitive particulate emissions</p> <p>Visible emissions of fugitive dust shall not exceed ten percent opacity, as a six-minute average, from any transfer point or piece of screening equipment.</p> <p>There shall be no visible emissions of fugitive dust from the screening process except for a period of time not to exceed 3 minutes during any sixty-minute observation period.</p> <p>Best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust (see Sections A.2.a and A.2.b) from any fugitive dust emission point listed below in Section A.2.c.</p>
OAC rule 3745-17-07(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 3745-17-08	See Sections A.2.a through A.2.d.
Emissions from diesel engine combustion	

OAC rule 3745-31-05(A)(3)	0.13 lb/hr and 0.33 ton/year of PE/PM10 emissions 1.8 lbs/hour and 4.5 tons/year of NOx emissions 0.4 lb/hour and 1.0 ton/year of CO emissions 0.12 lb/hour and 0.3 ton/year of SO2 emissions 0.14 lb/hour and 0.35 ton/year of TOC emissions The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B)(5)(a), 3745-17-07(A), 3745-18-06(G), 3745-21-07(B) and 3745-21-08.
OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.
OAC rule 3745-17-11(B)(5)(a)	PE from this emissions unit shall not exceed 0.25 lb/mmBtu of actual heat input. See Section A.2.h. PE from this emissions unit shall not exceed 0.310 lb/mmBtu of actual heat input. See Section A.2.i.
OAC rule 3745-18-06(G)	See Section A.2.e.
OAC rule 3745-23-06(B)	See Section A.2.g.
OAC rule 3745-21-08	See Section A.2.f.

2. Additional Terms and Conditions

- 2.a** The permittee shall employ best available control measures for the mulch screening operation for the purpose of ensuring compliance with the applicable requirements. In accordance with the permittee's permit application, the permittee has committed to ensuring that the material processed has an inherently high moisture content, or will employ water sprays within the process to ensure compliance. The permittee shall also minimize the free fall distance of the processed material. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.b** For each part of the mulch screening operation that is not adequately enclosed, the control measure(s) shall be implemented if the permittee determined, 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 applicable requirements. Any required implementation of the control measure(s) shall continue during the operation until further observation confirms that use of the control measure(s) is unnecessary.
- 2.c** The mulch screening machine that is covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 is listed below: One Doppstadt SM-617 screen with diesel engine and product conveyor

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- 2.d** Open bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times the materials are being transported.
- 2.e** OAC rule 3745-18-06(B) exempts stationary internal combustion engines which have rated heat input capacities equal to or less than 10 mmBtu/hr from the sulfur dioxide emission limit in OAC rule 3745-18-06(G). This emissions unit has a rated heat input of 0.41 mmBtu/hr.
- 2.f** The permittee has satisfied 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 requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install.

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. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- 2.g** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

On February 14, 2005, OAC rule 3745-23-06 was rescinded; therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the U.S. EPA approves the revision to OAC rule 3745-23-06, the requirement to satisfy the "latest available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- 2.h** The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.310 lb/mmBtu of actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.

- 2.i This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.

B. Operational Restrictions

1. The permittee shall burn only number two fuel oil in this emissions unit.
2. The quality of No. 2 fuel oil received for burning in this emissions unit shall have a combination of sulfur content and heat content sufficient to comply with the allowable sulfur dioxide emission limitation of 0.50 lb/mmBtu of actual heat input and the sulfur content limitation for No. 2 fuel oil of less than or equal to 0.5 weight per cent sulfur.
3. The maximum annual operating hours for this emissions unit shall not exceed 5000 hours, based upon a rolling, 12-month summation of the operating hours.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the cumulative operating hours in the following table:

Month(s)	Maximum Allowable Cumulative Operating Hours
1	720
1-2	1440
1-3	5000
1-4	5000
1-5	5000
1-6	5000
1-7	5000
1-8	5000
1-9	5000
1-10	5000
1-11	5000
1-12	5000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual cumulative operating hour limitation shall be based upon a rolling, 12-month summation of the hours of operation.

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C. Monitoring and/or Recordkeeping Requirements

1. For each day during which the permittee burns a fuel other than number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. Except as otherwise provided in this section, for Mulch Screening operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>material handling operations</u>	<u>minimum inspection frequency</u>
screening	daily
conveyors	daily

3. The above mentioned inspections shall be performed during representative, normal operating conditions.
4. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
 - c. the dates the control measure(s) was (were) implemented; and
 - d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

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

5. The permittee shall maintain monthly records of the following information:
 - a. the operating hours for each day; and
 - b. the rolling, 365-day summation of the operating hours.

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D. Reporting Requirements

1. The permittee shall submit quarterly deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency; and
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented. These deviation (excursion) reports shall be submitted in accordance with the general terms and conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than number two fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. Reporting requirements for annual operating hours limitations based upon rolling 365-day and 12-month summations
4. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12 month operating hour limitation; and for the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, all exceedances of the maximum allowable cumulative operating hours rate levels. These reports shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A 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:**
8.75 lbs/hour and 21.88 tons/year of fugitive PE and 0.13lb/hour and 0.33 ton/year of PM10

Applicable Compliance Method:

Compliance with the hourly PE/PM10 emission limitations shall be determined

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using the emission factors for screening and material handling operations in RACM, Chapter 2, Table 2.17-1 (0.35 Lb/ton screened X 25 tons/hr) The tons/year limitations were developed by multiplying the pound/hour by the maximum operating hours of 5,000 hours/year, and dividing by 2,000 pounds/ton. Therefore, provided compliance is shown with the hourly emission limitations and the annual operating hours restriction, compliance will also be shown with the annual limitation.

b. **Emission Limitation:**

Visible emissions of fugitive dust shall not exceed ten percent opacity, as a six minute average, from any transfer point or piece of screening equipment.

Applicable Compliance Method:

The permittee shall conduct, or have conducted, fugitive visible particulate emission testing for this emissions unit in accordance with the requirements in Section E.2 below.

c. **Emission Limitation:**

1.8 lbs/hour and 4.5 tons/year of NO_x emissions from the diesel engine.

Applicable Compliance Method:

Compliance with the hourly NO_x emission limitation shall be determined by multiplying the emission factor taken from the U.S. EPA reference document AP-42, Chapter 3.3, Table 3.3-1 for Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines, Fifth Edition, 10/96 version (4.41 lbs/mmBtu), by the maximum heat input of the source (0.41 mmBtu/hour). The tons/year limitations were developed by multiplying the lbs/hour by the restricted operating hours of 5000 hours/year, and dividing by 2000 pounds/ton. If required, compliance shall be demonstrated based upon emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4, and 7.

d. **Emission Limitation:**

0.39 lb/hour and 1.0 ton/year of CO emissions from the diesel engine

Applicable Compliance Method:

Compliance with the hourly CO emission limitation shall be determined by multiplying the emission factor taken from the U.S. EPA reference document AP-42, Chapter 3.3, Table 3.3-1 for Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines, Fifth Edition, 10/96 version (0.95 lb/mmBtu), by the maximum heat input of the source (0.41 mmBtu/hour). The tons/year limitations were developed by multiplying the lbs/hour by the hours of 5,000 hours/year,

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and dividing by 2000 pounds/ton. If required, compliance shall be demonstrated based upon emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4, and 10.

e. **Emission Limitation:**

0.12 lb/hour and 0.3 ton/year of SO₂ emissions from the diesel engine

Applicable Compliance Method:

Compliance with the hourly SO₂ emission limitation shall be determined by multiplying the emission factor taken from the U.S. EPA reference document AP-42, Chapter 3.3, Table 3.3-1 for Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines, Fifth Edition, 10/96 version (0.29 lb/mmBtu), by the maximum heat input of the source (0.41 mmBtu/hour).

The tons/year limitations were developed by multiplying the lbs/hour by the restricted operating hours of 5,000 hours/year, and dividing by 2000 pounds/ton. If required, compliance shall be demonstrated based upon emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4, and 6.

f. **Emission Limitation:**

0.14 lb/hour and 0.35 ton/year of TOC emissions from the diesel engine

Applicable Compliance Method:

Compliance with the hourly SO₂ emission limitation shall be determined by multiplying the emission factor taken from the U.S. EPA reference document AP-42, Chapter 3.3, Table 3.3-1 for Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines, Fifth Edition, 10/96 version (0.29 lb/mmBtu), by the maximum heat input of the source (0.41 mmBtu/hour).

The tons/year limitations were developed by multiplying the lbs/hour by the restricted operating hours of 5,000 hours/year, and dividing by 2000 pounds/ton. If required, compliance shall be demonstrated based upon emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4, and 18 or 25/25A, as appropriate.

g. **Emission Limitation:**

PE from the diesel engine shall not exceed 0.25 lb/mmBtu of actual heat input

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If required, compliance shall be demonstrated based upon emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4, and 5. Note that Ohio EPA has revised the emission limitation specified in OAC rule 3745-17-11(B)(5)(a) based upon the currently applicable emission factor. The revised rule was adopted by the director of Ohio EPA in December of 1997, and it will be submitted to the U.S. EPA as a proposed revision to the Ohio SIP for particulate matter. When the SIP revision is approved by the U.S. EPA, the 0.25 lb/MM Btu actual heat input emission limitation will no longer be applicable.

h. Emissions Limitation:

PE from the diesel engine shall not exceed 0.31 lb/mmBtu of actual heat input

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4, and 5.

i. Emissions Limitation:

0.13 lb/hr and 0.33 ton/year of PE/PM10 emissions from the diesel engine

Applicable Compliance Method:

The emission limitations were based upon the OAC rule 3745-17-11(B)(5)(a) rule limitation. Compliance with the hourly emission limitation shall be determined by multiplying the 0.310 lb/mmBtu emission factor by the 0.41 mmBtu/hr rating of the unit. The tons/year limitations were developed by multiplying the lbs/hour by 5000 hours/year, and dividing by 2000 pounds/ton. If required, compliance shall be demonstrated based upon emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4, and 5.

j. Emission Limitation:

Visible particulate emissions from the diesel generator shall not exceed 20 percent opacity, as a six-minute average

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined using Method 9 of 40 CFR, Part 60, Appendix A.

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2. The emission testing shall be conducted within 60 days after achieving maximum production but no later than 180 days after initial startup. Compliance with the opacity limits of this permit shall be determined by using US EPA Reference Test Method 9 (40 CFR Part 60) and the procedures specified in OAC rule 3745-17-03 (B)(1). The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Central District Office. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Central District Office's refusal to accept the results of the emission test(s). Personnel from the Ohio EPA, Central District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment. The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards and the BAT limits for fugitive opacity contained in this permit. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central District Office within 30 days following completion of the test(s).

F. Miscellaneous Requirements

None.

Emissions Unit ID: P005

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property, and/or Equipment - (P005) - Doppstadt SM-720-number 3 Drum Screening Machine with Diesel Engine and Conveyor.

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Emissions from screening plant, conveyors	
OAC rule 3745-31-05	<p style="text-align: center;">Limit(s)</p> <p>8.75 lbs/hour and 21.88 tons/year of fugitive particulate emissions</p> <p>Visible emissions of fugitive dust shall not exceed ten percent opacity, as a six-minute average, from any transfer point or piece of screening equipment.</p> <p>There shall be no visible emissions of fugitive dust from the screening process except for a period of time not to exceed 3 minutes during any sixty-minute observation period.</p> <p>best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust (see Sections A.2.a and A.2.b) from any fugitive dust emission point listed below in Section A.2.c.</p>
OAC rule 3745-17-07(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 3745-17-08	See Sections A.2.a through A.2.d.
Emissions from diesel engine combustion	

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OAC rule 3745-31-05(A)(3)	0.13 lb/hr and 0.33 ton/year of PE/PM10 emissions 1.8 lbs/hour and 4.5 tons/year of NOx emissions 0.4 lb/hour and 1.0 ton/year of CO emissions 0.12 lb/hour and 0.3 ton/year of SO2 emissions 0.14 lb/hour and 0.35 ton/year of TOC emissions The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B)(5)(a), 3745-17-07(A), 3745-18-06(G), 3745-21-07(B) and 3745-21-08.
OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.
OAC rule 3745-17-11(B)(5)(a)	PE from this emissions unit shall not exceed 0.25 lb/mmBtu of actual heat input. See Section A.2.h. PE from this emissions unit shall not exceed 0.310 lb/mmBtu of actual heat input. See Section A.2.i.
OAC rule 3745-18-06(G)	See Section A.2.e.
OAC rule 3745-23-06(B)	See Section A.2.g.
OAC rule 3745-21-08	See Section A.2.f.

2. Additional Terms and Conditions

- 2.a** The permittee shall employ best available control measures for the mulch screening operation for the purpose of ensuring compliance with the applicable requirements. In accordance with the permittee's permit application, the permittee has committed to ensuring that the material processed has an inherently high moisture content, or will employ water sprays within the process to ensure compliance. The permittee shall also minimize the free fall distance of the processed material. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.b** For each part of the mulch screening operation that is not adequately enclosed, the control measure(s) shall be implemented if the permittee determined, 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 applicable requirements. Any required implementation of the control measure(s) shall continue during the operation until further observation confirms that use of the control measure(s) is unnecessary.
- 2.c** The mulch screening machine that is covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 is listed below: One

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Doppstadt SM-720 screen with diesel engine and product conveyor

- 2.d** Open bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times the materials are being transported.
- 2.e** OAC rule 3745-18-06(B) exempts stationary internal combustion engines which have rated heat input capacities equal to or less than 10 mmBtu/hr from the sulfur dioxide emission limit in OAC rule 3745-18-06(G). This emissions unit has a rated heat input of 0.41 mmBtu/hr.
- 2.f** The permittee has satisfied 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 requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install.

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. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- 2.g** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

On February 14, 2005, OAC rule 3745-23-06 was rescinded; therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the U.S. EPA approves the revision to OAC rule 3745-23-06, the requirement to satisfy the "latest available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- 2.h** The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.310 lb/mmBtu of actual heat

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input emission limitation as a revision to the Ohio SIP for particulate matter.

- 2.i** This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.

B. Operational Restrictions

1. The permittee shall burn only number two fuel oil in this emissions unit.
2. The quality of No. 2 fuel oil received for burning in this emissions unit shall have a combination of sulfur content and heat content sufficient to comply with the allowable sulfur dioxide emission limitation of 0.50 lb/mmBtu of actual heat input and the sulfur content limitation for No. 2 fuel oil of less than or equal to 0.5 weight per cent sulfur.
3. The maximum annual operating hours for this emissions unit shall not exceed 5000 hours, based upon a rolling, 12-month summation of the operating hours.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the cumulative operating hours in the following table:

Month(s)	Maximum Allowable Cumulative Operating Hours
1	720
1-2	1440
1-3	5000
1-4	5000
1-5	5000
1-6	5000
1-7	5000
1-8	5000
1-9	5000
1-10	5000
1-11	5000
1-12	5000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual cumulative operating hour limitation shall be based upon a rolling, 12-month summation of the hours of operation.

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C. Monitoring and/or Recordkeeping Requirements

1. For each day during which the permittee burns a fuel other than number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. Except as otherwise provided in this section, for Mulch Screening operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>material handling operations</u>	<u>minimum inspection frequency</u>
screening	daily
conveyors	daily

3. The above mentioned inspections shall be performed during representative, normal operating conditions.
4. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
 - c. the dates the control measure(s) was (were) implemented; and
 - d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

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

5. The permittee shall maintain monthly records of the following information:
 - a. the operating hours for each day; and

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- b. the rolling, 365-day summation of the operating hours.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency; and
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented. These deviation (excursion) reports shall be submitted in accordance with the general terms and conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than number two fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. Reporting requirements for annual operating hours limitations based upon rolling 365-day and 12-month summations
4. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12 month operating hour limitation; and for the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, all exceedances of the maximum allowable cumulative operating hours rate levels. These reports shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A 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:**
8.75 lbs/hour and 21.88 tons/year of fugitive PE and 0.13lb/hour and 0.33 ton/year of PM10

Applicable Compliance Method:

Compliance with the hourly PE/PM10 emission limitations shall be determined

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using the emission factors for screening and material handling operations in RACM, Chapter 2, Table 2.17-1 (0.35 Lb/ton screened X 25 tons/hr) The tons/year limitations were developed by multiplying the pound/hour by the maximum operating hours of 5,000 hours/year, and dividing by 2,000 pounds/ton. Therefore, provided compliance is shown with the hourly emission limitations and the annual operating hours restriction, compliance will also be shown with the annual limitation.

b. **Emission Limitation:**

Visible emissions of fugitive dust shall not exceed ten percent opacity, as a six minute average, from any transfer point or piece of screening equipment.

Applicable Compliance Method:

The permittee shall conduct, or have conducted, fugitive visible particulate emission testing for this emissions unit in accordance with the requirements in Section E.2 below.

c. **Emission Limitation:**

1.8 lbs/hour and 4.5 tons/year of NO_x emissions from the diesel engine.

Applicable Compliance Method:

Compliance with the hourly NO_x emission limitation shall be determined by multiplying the emission factor taken from the U.S. EPA reference document AP-42, Chapter 3.3, Table 3.3-1 for Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines, Fifth Edition, 10/96 version (4.41 lbs/mmBtu), by the maximum heat input of the source (0.41 mmBtu/hour). The tons/year limitations were developed by multiplying the lbs/hour by the restricted operating hours of 5000 hours/year, and dividing by 2000 pounds/ton. If required, compliance shall be demonstrated based upon emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4, and 7.

d. **Emission Limitation:**

0.39 lb/hour and 1.0 ton/year of CO emissions from the diesel engine

Applicable Compliance Method:

Compliance with the hourly CO emission limitation shall be determined by multiplying the emission factor taken from the U.S. EPA reference document AP-42, Chapter 3.3, Table 3.3-1 for Emission Factors for Uncontrolled Gasoline and

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Diesel Industrial Engines, Fifth Edition, 10/96 version (0.95 lb/mmBtu), by the maximum heat input of the source (0.41 mmBtu/hour). The tons/year limitations were developed by multiplying the lbs/hour by the hours of 5,000 hours/year, and dividing by 2000 pounds/ton. If required, compliance shall be demonstrated based upon emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4, and 10.

e. **Emission Limitation:**

0.12 lb/hour and 0.3 ton/year of SO₂ emissions from the diesel engine

Applicable Compliance Method:

Compliance with the hourly SO₂ emission limitation shall be determined by multiplying the emission factor taken from the U.S. EPA reference document AP-42, Chapter 3.3, Table 3.3-1 for Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines, Fifth Edition, 10/96 version (0.29 lb/mmBtu), by the maximum heat input of the source (0.41 mmBtu/hour).

The tons/year limitations were developed by multiplying the lbs/hour by the restricted operating hours of 5,000 hours/year, and dividing by 2000 pounds/ton. If required, compliance shall be demonstrated based upon emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4, and 6.

f. **Emission Limitation:**

0.14 lb/hour and 0.35 ton/year of TOC emissions from the diesel engine

Applicable Compliance Method:

Compliance with the hourly SO₂ emission limitation shall be determined by multiplying the emission factor taken from the U.S. EPA reference document AP-42, Chapter 3.3, Table 3.3-1 for Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines, Fifth Edition, 10/96 version (0.29 lb/mmBtu), by the maximum heat input of the source (0.41 mmBtu/hour).

The tons/year limitations were developed by multiplying the lbs/hour by the restricted operating hours of 5,000 hours/year, and dividing by 2000 pounds/ton. If required, compliance shall be demonstrated based upon emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4, and 18 or 25/25A, as appropriate.

g. **Emission Limitation:**

PE from the diesel engine shall not exceed 0.25 lb/mmBtu of actual heat input

Issued: 12/7/2006**Applicable Compliance Method:**

If required, compliance shall be demonstrated based upon emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4, and 5. Note that Ohio EPA has revised the emission limitation specified in OAC rule 3745-17-11(B)(5)(a) based upon the currently applicable emission factor. The revised rule was adopted by the director of Ohio EPA in December of 1997, and it will be submitted to the U.S. EPA as a proposed revision to the Ohio SIP for particulate matter. When the SIP revision is approved by the U.S. EPA, the 0.25 lb/MM Btu actual heat input emission limitation will no longer be applicable.

h. Emissions Limitation:

PE from the diesel engine shall not exceed 0.31 lb/mmBtu of actual heat input

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4, and 5.

i. Emissions Limitation:

0.13 lb/hr and 0.33 ton/year of PE/PM10 emissions from the diesel engine

Applicable Compliance Method:

The emission limitations were based upon the OAC rule 3745-17-11(B)(5)(a) rule limitation. Compliance with the hourly emission limitation shall be determined by multiplying the 0.310 lb/mmBtu emission factor by the 0.41 mmBtu/hr rating of the unit. The tons/year limitations were developed by multiplying the lbs/hour by 5000 hours/year, and dividing by 2000 pounds/ton. If required, compliance shall be demonstrated based upon emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4, and 5.

j. Emission Limitation:

Visible particulate emissions from the diesel generator shall not exceed 20 percent opacity, as a six-minute average

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined using Method 9 of 40 CFR, Part 60, Appendix A.

2. The emission testing shall be conducted within 60 days after achieving maximum production but no later than 180 days after initial startup. Compliance with the opacity limits of this permit shall be determined by using US EPA Reference Test Method 9 (40 CFR Part 60) and the procedures specified in OAC rule 3745-17-03 (B)(1). The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Central District Office. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Central District Office's refusal to accept the results of the emission test(s). Personnel from the Ohio EPA, Central District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment. The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards and the BAT limits for fugitive opacity contained in this permit. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central District Office within 30 days following completion of the test(s).

F. Miscellaneous Requirements

None.