



State of Ohio Environmental Protection Agency

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

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: 01-08203

DATE: 2/8/2001

Jones Topsoil
Dave Jones
350 Frank Rd
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 by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

CC: USEPA

CDO



Permit To Install

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

FINAL PERMIT TO INSTALL 01-08203

Application Number: 01-08203
APS Premise Number: 0125042439
Permit Fee: **\$8400**
Name of Facility: Jones Topsoil
Person to Contact: Dave Jones
Address: 350 Frank Rd
Columbus, OH 43207

Location of proposed air contaminant source(s) [emissions unit(s)]:
South High St
Columbus, Ohio

Description of proposed emissions unit(s):
Front end loaders and trucks, mineral extraction.

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

Jones Topsoil
PTI Application: 01-08203
Issued: 2/8/2001

Facility ID: 0125042439

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 Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

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

4. Inspections and Information Requests

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

Jones Topsoil
PTI Application: 01-08203
Issued: 2/8/2001

Facility ID: 0125042439

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

Jones Topsoil
PTI Application: 01-08203
Issued: 2/8/2001

Facility ID: 0125042439

Environmental Protection Agency if the proposed sources are inadequate 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 prove to be inadequate 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 application must be made to the Director for the installation or modification of any other emissions unit(s).

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 thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

Jones Topsoil
PTI Application: 01-08203
Issued: 2/8/2001

Facility ID: 0125042439

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

Jones Topsoil**PTI Application: 01-08203****Issued: 2/8/2001****Facility ID: 0125042439**

<u>Pollutants</u>	<u>Tons Per Year</u>
TSP (F001:mineral extraction/material handling)	4.4
TSP (F003:storage piles)	17.8
TSP (F004: crushing)	7.3
TSP (F005-F007: crushing)	4.5
TSP (F004: conveying and handling)	17.1
TSP (F005-F007: conveying and handling)	10.5
PM-10 (F004-F007)	1.1
NOx (F004-F007)	15.8
SO2 (F004-F007)	1.0
CO (F004-F007)	3.4
VOC (F004-F007)	1.3

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F001 - Mineral extraction and material handling	OAC rule 3745-31-05 (A)(3)	<p>Particulate emissions shall not exceed 4.4 tons per year.</p> <p>The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO.</p>
	OAC rule 3745-17-07 (B)	<p>See II.A.2.a-b below.</p> <p>Visible emissions of fugitive dust shall not exceed 20% opacity as a 3 minute average, except as provided by rule.</p>
	OAC rule 3745-17-08	<p>The emission limitation specified in this rule is less stringent than the emission limitations established pursuant to OAC rule 3745-17-08.</p>

2. Additional Terms and Conditions

- 2.a The annual emission limitation was established to reflect the 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.b The employee shall employ best available control measures during material removal and loading for the purpose of ensuring compliance with the above-mentioned applicable

Emissions Unit ID: **F001**

requirements. Compliance with OAC rule 3745-31-05 (A)(3) shall be demonstrated by applying water at sufficient frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

B. Operational Restrictions

1. Water shall be applied at all points necessary to ensure compliance with the visible emission limitations.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform daily checks, when material handling is taking place and when the weather conditions allow, for any visible fugitive particulate emissions from any material extraction and handling operations. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

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

D. Reporting Requirements

1. The permittee shall submit semiannual reports which (a) identify all days during which any abnormal visible fugitive particulate emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions. These reports shall be submitted to the Director of the Central District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
Particulate emissions shall not exceed 4.4 tons per year.

Jones Topsoil
PTI Application: 01-08702
Issued

Facility ID: 0125042439

Emissions Unit ID: F001

Applicable Compliance Method:

Compliance shall be demonstrated by summing the topsoil removal and loading operations emissions. The topsoil removal emissions are determined by multiplying the maximum capacity of 200,000 tons per year (permit application, 6/12/00) by the emission factor 0.004 lb/ton for overburden removal operations (RACM, Table 2.1.4-3) and dividing by 2,000 pounds per ton. The topsoil loading emissions are found by multiplying the maximum capacity of 200,000 tons per year by the emission factor 0.04 pound per ton (RACM, 2.1.3-1) and dividing by 2,000 pounds per ton.

b. **Emission Limitation:**

Visible emissions of fugitive dust shall not exceed 20% opacity as a 3 minute average, except as provided by rule.

Applicable Compliance Method:

When necessary, compliance shall be demonstrated by visible emission evaluations performed in accordance with OAC rule 3745-17-03 (B)(3) using the methods and procedures specified in USEPA Reference Method 9.

F. Miscellaneous Requirements

None

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
F002 - Paved roadways (see Section A.2.a)	OAC rule 3745-31-05 (A)(3)	OAC rule 3745-17-07 (B)(5)
		OAC rule 3745-17-08 (B)(2)
	OAC rule 3745-17-07 (B)(4)	
	OAC rule 3745-17-08 (B), (B)(8), (B)(9)	
Unpaved roadways and parking areas (see Section A.2.b)	OAC rule 3745-31-05 (A)(3)	

Applicable Emissions
Limitations/Control Measures

No visible particulate emissions except for one minute during any 60-minute period

Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.c, A.2.d, and A.2.f through A.2.j)

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

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

Visible emissions of fugitive dust shall not exceed 20% opacity as a 3 minute average, except as provided by rule.

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

The emission limitation specified by this rule is less stringent than the

emission limitation established pursuant to OAC rule 3745-31-05 (A)(3).

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

paved roadways:

Entrance

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

unpaved roadways:

Service road

unpaved parking areas:

Only parking area

- 2.c** The permittee shall employ best available control measures on all paved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the paved roadways and parking areas by water truck, chemical suppression, sweeping, speed control and housekeeping at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.d** The permittee shall employ best available control measures on the unpaved shoulders of all paved roadways for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved shoulders of all paved roadways with water truck, chemical suppression, sweeping, speed control and housekeeping at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.e** The permittee shall employ best available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has

Jones Topsoil**PTI Application: 01 09202****Issued****Facility ID: 0125042439**Emissions Unit ID: **F002**

committed to treat the unpaved roadways and parking areas with water truck, chemical suppression, sweeping, speed control and housekeeping at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.f** The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved or unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- 2.g** Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure(s) specified above for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.
- 2.h** The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- 2.i** Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- 2.j** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

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

<u>paved roadways and parking areas</u>	<u>minimum inspection frequency</u>
---	-------------------------------------

Entrance	Daily
----------	-------

<u>unpaved roadways and parking areas</u>	<u>minimum inspection frequency</u>
---	-------------------------------------

Service road and parking area	Daily
-------------------------------	-------

- 2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
- 3. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
- 4. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in 4.d. shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, and shall be updated on a calendar quarter

Jones Topsoil
PTI Application: 01 08702
Issued

Facility ID: 0125042439

Emissions Unit ID: F002

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 for the paved and unpaved roadways and parking areas identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

F. Miscellaneous Requirements

None

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F003 - Crushed soil storage piles (load-in , load-out and wind erosion from storage piles)	OAC 3745-31-05 (A)(3)	The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO. Particulate emissions shall not exceed 17.83 tons per year. See Part II A.2.a-f below.
	OAC rule 3745-17-07 (B)	Visible emissions of fugitive dust shall not exceed 20% opacity as a 3 minute average, except as provided by rule.
	OAC rule 3745-17-08(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).

2. Additional Terms and Conditions

- 2.a The storage piles that are covered by this permit and subject to the requirements of OAC rule 3745-31-05 are listed below:

Crushed Soil Storage Piles

- 2.b** The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to controlled moisture content, minimizing drop heights and avoiding operations during windy conditions to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.c** The above-mentioned control measure(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.d** The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat each storage pile with water and/or other suitable dust suppression chemicals at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.e** The above-mentioned control measure(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.f** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

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

<u>storage pile identification</u>	<u>minimum load-in inspection frequency</u>
All Crushed Soil Storage Piles (F004)	Daily

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

<u>storage pile identification</u>	<u>minimum load-out inspection frequency</u>
All Crushed Soil Storage Piles (F004)	Daily

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

<u>storage pile identification</u>	<u>minimum wind erosion inspection frequency</u>
All Crushed Soil Storage Piles (F004)	Daily

4. No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

5. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.

6. The permittee may, upon receipt of written approval from the Central District Office, modify the

above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

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

E. Testing Requirements

1. Compliance with the emission limitations in this permit shall be determined in accordance with the

Jones Topsoil
PTI Application: 01 09202
Issued

Facility ID: 0125042439

Emissions Unit ID: **F003**

following methods :

Emission Limitation:

No visible emissions except for one minute in any hour

Applicable Compliance Method:

If required, compliance with the visible emission limitations for the storage piles identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in §60.672, including reports of opacity observations made using Method 9.

Emission Limitation:

27.41 ton per year of Particulate emissions

Applicable Compliance Method:

The ton per year limit was established based upon emission calculations using AP-42 (10/96) emission factors and shall be calculated using AP-42 emission factors and the appropriate operating information from the Monitoring and Recordkeeping Requirements contained in this permit.

F. Miscellaneous Requirements

None

		OAC 3745-18-06
<u>Applicable Rules/Requirements</u>	OAC rule 3745-17-07 (B)	
OAC rule 3745-31-05 (A)(3)	OAC rule 3745-17-08 (B)	
	40 CFR Part 60, Subpart OOO	
OAC rule 3745-17-07 (B)	OAC 3745-31-05 (A)(3)	
OAC rule 3745-17-08 (B)		
40 CFR Part 60, Subpart OOO		
OAC rule 3745-31-05 (A)(3)		
	OAC 3745-17-07(A)	

Applicable Emissions Limitations/Control Measures		
Particulate emissions shall not exceed 7.25 tons per year.	See II.A.2.a-b below. The emission limitation specified in this rule is less stringent than the emission limitation established by 40 CFR Part 60, Subpart OOO.	The emission limitation specified in this rule is less stringent than the emission limitation established by OAC rule 3745-31-05 (A)(3).
The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO.	The emission limitation specified in this rule is less stringent than the emission limitation established by OAC rule 3745-31-05 (A)(3).	See II.A.1-2 below.
See II.A.2.a-b below.	Visible emissions of fugitive dust shall not exceed 10% opacity, except as provided by the rule.	
The emission limitation specified in this rule is less stringent than the emission limitation established by 40 CFR Part 60, Subpart OOO.	0.25 lb PM-10/hr 1.1 tons PM-10/yr 3.62 lbs NOx/hr 15.8 tons NOx/yr	
The emission limitation specified in this rule is less stringent than the emission limitation established by OAC rule 3745-31-05 (A)(3).	0.24 lb SO2/hr 1.0 tons SO2/yr	
Visible emissions of fugitive dust shall not exceed 15% opacity, except as provided by the rule.	0.78 lb CO/hr 3.4 tons CO/yr	
Particulate emissions shall not exceed 17.06 tons per year.	0.29 lb VOC's/hr 1.3 tons VOC's/yr	
The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO.	The requirements of this rule also include compliance with the requirements of 3745-17-07(A).	
	Visible particulate emissions shall not exceed 20 percent opacity, as a 6-minute average, except as provided by rule.	

ADDITIONAL TERMS AND CONDITIONS FOR THE PRIMARY CRUSHING ACTIVITIES**A. Applicable Emission Limitations and/or Control Requirements**

1. The annual emission limitations were established to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop recordkeeping and/or reporting requirements to ensure compliance with these limits.
2. The permittee shall employ best available control measures during conveying and handling operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. Compliance with OAC rule 3745-31-05 (A)(3) shall be demonstrated by applying water at sufficient frequencies to maintain the material in a moist condition and ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

B. Operational Restrictions

1. Water shall be applied at all points necessary to ensure compliance with the visible emission limitations.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform daily checks, when each piece of crushing equipment is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from each crushing operation. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. whether the emissions are representative of normal operations;
 - b. if the emissions are not representative of normal conditions, the cause of the abnormal emissions;
 - c. the total duration of any visible emission incident; and
 - d. any corrective actions taken to eliminate the visible emissions.

D. Reporting Requirements

1. The permittee shall submit semiannual reports which (a) identify all days during which any abnormal visible fugitive particulate emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions. These reports shall be submitted to the Director of the Central District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

E. Testing Requirements

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

- a. Emission Limitation:
 Particulate emissions shall not exceed 7.25 tons per year (TPY).

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the appropriate PM-10 emission factor by the conversion factor of 2.11 to arrive at the appropriate TSP emission factor as specified in USEPA reference document AP-42, 11.19.2 (1/95). This emission factor is then multiplied by the hourly maximum production rate (application, 6/12/00) which is multiplied by the total number of hours in a year (8760) and divided by 2,000 pounds per ton to yield an emission limitation in tons per year.

$$\text{PM-10 emission factor (0.0024)} * 2.11 = 0.0051$$

$$0.0051 \text{ lb/ton} * 325 \text{ tons/hr} * 8760 \text{ hrs/yr} / 2,000 \text{ lbs/ton} = 7.25 \text{ TPY TSP}$$

- b. Emission Limitation:
 Visible emissions of fugitive dust shall not exceed 15% opacity, except as provided by rule.

Applicable Compliance Limitation:

The permittee shall conduct, or have conducted, emission testing for each crusher in accordance with the following requirements:

- i. The emission testing shall be conducted within 60 days of issuance of this permit.
- ii. The emission testing shall be conducted to demonstrate compliance with the opacity limitation.

Emissions Unit ID: **F004**

- iii. The following test method shall be employed to demonstrate compliance with 40 CFR Part 60 Subpart OOO: 40 CFR, Part 60, Appendix A, Method 9. Alternative USEPA approved test methods may be used with prior approval from the Ohio EPA.
- iv. 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 Central District Office (CDO).

No later than thirty (30) days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the 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 Central District Office's refusal to accept the results of the emission test(s).

Personnel from the 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.

A comprehensive written report on the results of the emission test(s) shall be signed by the person(s) responsible for the test(s) and submitted to the Central District Office within thirty (30) days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Central District Office.

F. Miscellaneous Requirements

- 1. The following sources are subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency (USEPA), 40 CFR Part 60.

F004: 60 TPH primary crusher

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report

the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and
- d. date of performance testing (if required, at least 30 days prior to testing)

Reports are sent to:

Ohio Environmental Protection Agency
DAPC - Air Quality and Planning
P.O. Box 1049
Columbus, OH 43216-1049

and

Central District Office
Division of Air Pollution control
3232 Alum Creek Drive
Columbus, OH 43207

**ADDITIONAL TERMS AND CONDITIONS FOR CONVEYING AND HANDLING - FEEDERS,
CONVEYING POINTS, TRANSFER POINTS**

A. Applicable Emission Limitations and/or Control Requirements

1. The annual emission limitations were established to reflect the 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. The permittee shall employ best available control measures during conveying and handling operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. Compliance with OAC rule 3745-31-05 (A)(3) shall be demonstrated by applying water at sufficient frequencies to maintain the material in a moist condition and ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

B. Operational Restrictions

1. This emission unit shall not exceed an operating rate of 325 tons per hour of material throughput.

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, for crushing operations, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>Crushing operation(s)</u>	<u>minimum inspection frequency</u>
------------------------------	-------------------------------------

Crusher (F003)- crushing points	Daily
---------------------------------	-------

Crusher (F003)- transfer points	Daily
---------------------------------	-------

2. The above-mentioned inspections shall be performed during representative, normal operating conditions.
3. 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 3.d. shall be kept separately for each operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

4. The permittee shall perform daily observations for any visible particulate emissions from the emission unit, other than water vapor. The presence or absence of any visible emissions shall be recorded in an operations log. When visible emissions are observed in excess of the allowable opacity rate(s), corrective actions shall be taken to correct the problem and these action(s) shall be recorded in the operations log.
5. The permittee shall record the total daily tons of material throughput .

D. Reporting Requirements

1. The permittee shall comply with the Reporting and Recordkeeping requirements contained in 40 CFR 60.676 .
2. 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.

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

3. The permittee shall submit an annual exceedance report which identifies any exceedances of the above conditions, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If an exceedance did not occur during the reporting period, then a report stating that fact is required.

For each excursion event, the following information shall be provided:

- a. The date of the excursion;
- b. The duration of the excursion event;
- c. The operating rates during the excursion;
- d. The cause(s) of the excursion; and,
- e. The corrective action(s) which have or will be taken to prevent similar excursions in the future.

E. Compliance Determination / Testing Requirements

1. Compliance with the emission limitations in this permit shall be determined in accordance with the following methods :

Emission Limitation:

Fugitive Emission(s) (10 percent opacity)

Applicable Compliance Method:

Within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup of the emission unit, the permittee shall demonstrate compliance by testing in accordance with 40 CFR 60.8 and 40 CFR 60.675.

The permittee shall submit written reports of the results of all performance tests conducted to

Jones Topsoil**PTI Application: 01-08202****Issued****Facility ID: 0125042439****Emissions Unit ID: F004**

demonstrate compliance with the standards set forth in §60.672, including reports of opacity observations made using Method 9.

Emission Limitation:

17.1 tons per year of Particulate emissions

Applicable Compliance Method:

The ton per year limit was established by multiplying the emission factor AP-42 (10/96) by the maximum production, the total number of hours in one (1) year, and the number of egress points then dividing by 2,000 pounds per ton.

$0.0014 \text{ PM-10 emission factor} * 2.11 \text{ (conversion factor, AP-42)} = 0.0030 \text{ lb/ton TSP}$

$0.0030 \text{ lb/ton} * 325 \text{ tons/hr} * 8760 \text{ hrs/yr} * 4 \text{ (egress points)} / 2,000 \text{ lbs/ton} = 17.1 \text{ TPY TSP}$

F. Miscellaneous Requirements

None

ADDITIONAL TERMS AND CONDITIONS 0.82 NO.2 DIESEL ENGINE FOR 60 TPH MOBILE SOIL CRUSHER**A. Applicable Emission Limitations and/or Control Requirements**

see **Air Emissions Summary**

B. Operational Restrictions

1. This emission unit shall burn only No.2 diesel fuel.
2. The maximum 12-month period fuel usage for this emission unit shall not exceed 42,000 gallons for any rolling 12-month period.
3. The permittee shall be required to burn only No. 2 diesel fuel containing less than 0.5 % sulfur by weight.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of each fuel shipment that indicate:
 - a. The oil supplier's analysis of percent sulfur content and heat content (BTU/gallon) and,
 - b. The quantity (gallons) of each shipment.
2. The permittee shall maintain monthly records of the total monthly gallons and the rolling 12-month period of total gallons of fuel used in this emission unit.
3. The permittee shall maintain daily records of the total daily and annual hours of operation for the emission unit.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling 12-month limitation and , for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative fuel usage levels.

2. The Permittee shall report the use of any diesel fuel containing more than 0.5% sulfur by weight. This report shall indicate the cause of the excursion and the corrective action taken to prevent further exceedances. If no deviations (excursions) occurred during the reporting period, then a report stating so shall be submitted.

These reports are due within 45 days from the end of the month in which the excidence occurred.

E. Compliance Determination / Testing Requirements

1. Compliance with the emission limitations in this permit shall be determined in accordance with the following methods :

Emission Limitation:

42,000 gallons fuel consumption per rolling 12-month period

Applicable Compliance Method:

Compliance shall be determined by the records kept in accordance with the Monitoring and Record keeping Requirements contained in this permit.

Emission Limitation:

0.25 lb PM-10/hr; 1.1 tons PM-10/yr

Applicable Compliance Method:

Compliance shall be determined by multiplying the average gallons per hour of fuel used (per application 6/12/00) by pounds per gallon of diesel fuel (AP-42, Table 3.3-1, 10/96) and by British thermal units per pound of diesel fuel (AP-42, Table 3.3-1, 10/96). In turn, multiply this factor by the emission factor (AP-42, Table 3.3-1, 10/96) to yield a pound per hour and then multiply this factor by 8760 hours per year and divide by 2000 pounds to yield a ton(s) per year value. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10). No emission(s) testing is specifically required to demonstrate compliance with this emission limit but, may be requested pursuant to OAC 3745-15-04(A).

Throughput:

$6.0 \text{ gals/hr} * 7.05 \text{ lbs/gal} * 19,300 \text{ Btus/lb} = 0.82 \text{ mmBtu/hr}$

$0.31 \text{ lb/mmBtu} * 0.82 \text{ mmBtu/hr} = 0.25 \text{ lb PM-10/hr}$

$0.25 \text{ lb/hr} * 8760 \text{ hrs/yr} / 2000 \text{ lbs} = 1.1 \text{ tons PM-10/yr}$

Emission Limitation:

3.62 lbs NOx/hr; 15.8 tons NOx/yr

Jones Topsoil**PTI Application: 01-08202****Issued****Facility ID: 0125042439****Emissions Unit ID: F004****Applicable Compliance Method:**

Compliance shall be determined by multiplying the average gallons per hour of fuel used (per application 6/12/00) by pounds per gallon of diesel fuel (AP-42, Table 3.3-1, 10/96) and by the British thermal units per pound of diesel fuel (AP-42, Table 3.3-1, 10/96). In turn, multiply this factor by the emission factor (AP-42, Table 3.3-1, 10/96) to yield a pound per hour and then multiply this factor by 8760 hours per year and divide by 2000 pounds to yield a ton(s) per year value. No emission(s) testing is specifically required to demonstrate compliance with this emission limit but, may be requested pursuant to OAC 3745-15-04(A).

Throughput:

$$6.0 \text{ gals/hr} * 7.05 \text{ lbs/gal} * 19,300 \text{ Btus/lb} = 0.82 \text{ mmBtu/hr}$$

$$4.41 \text{ lbs/mmBtu} * 0.82 \text{ mmBtu/hr} = 3.62 \text{ lbs NOx/hr}$$

$$3.62 \text{ lbs/hr} * 8760 \text{ hrs/yr} / 2000 \text{ lbs} = 15.8 \text{ tons NOx/yr}$$

Emission Limitation:

0.24 lb SO₂/hr; 1.0 tons SO₂/yr

Applicable Compliance Method:

Compliance shall be determined by multiplying the average gallons per hour of fuel used (per application 6/12/00) by pounds per gallon of diesel fuel (AP-42, Table 3.3-1, 10/96) and by the British thermal units per pound of diesel fuel (AP-42, Table 3.3-1, 10/96). In turn, multiply this factor by the emission factor (AP-42, Table 3.3-1, 10/96) to yield a pound per hour and then multiply this factor by 8760 hours per year and divide by 2000 pounds to yield a ton(s) per year value. No emission(s) testing is specifically required to demonstrate compliance with this emission limit but, may be requested pursuant to OAC 3745-15-04(A).

Throughput:

$$6.0 \text{ gals/hr} * 7.05 \text{ lbs/gal} * 19,300 \text{ Btus/lb} = 0.82 \text{ mmBtu/hr}$$

$$0.29 \text{ lb/mmBtu} * 0.82 \text{ mmBtu/hr} = 0.24 \text{ lb SO}_2\text{/hr}$$

$$0.24 \text{ lb/hr} * 8760 \text{ hrs/yr} / 2000 \text{ lbs} = 1.0 \text{ tons SO}_2\text{/yr}$$

Emission Limitation:

0.78 lb CO/hr; 3.4 tons CO/yr

Applicable Compliance Method:

Compliance shall be determined by multiplying the average gallons per hour of fuel used (per application 6/12/00) by pounds per gallon of diesel fuel (AP-42, Table 3.3-1, 10/96) and by the British thermal units per pound of diesel fuel (AP-42, Table 3.3-1, 10/96). In turn, multiply this factor by the emission factor (AP-42, Table 3.3-1, 10/96) to yield a pound per hour and then multiply this factor by 8760 hours per year and divide by 2000 pounds to yield a ton(s) per year

value. No emission(s) testing is specifically required to demonstrate compliance with this emission limit but, may be requested pursuant to OAC 3745-15-04(A).

Throughput:

$$6.0 \text{ gals/hr} * 7.05 \text{ lbs/gal} * 19,300 \text{ Btus/lb} = 0.82 \text{ mmBtu/hr}$$

$$0.95 \text{ lb/mmBtu} * 0.82 \text{ mmBtu/hr} = 0.78 \text{ lb CO/hr}$$

$$0.78 \text{ lb/hr} * 8760 \text{ hrs/yr} / 2000 \text{ lbs} = 3.4 \text{ tons CO/yr}$$

Emission Limitation:

0.29 lb VOC's/hr; 1.3 tons VOC's/yr

Applicable Compliance Method:

Compliance shall be determined by multiplying the average gallons per hour of fuel used (per application 6/12/00) by pounds per gallon of diesel fuel (AP-42, Table 3.3-1, 10/96) and by the British thermal units per pound of diesel fuel (AP-42, Table 3.3-1, 10/96). In turn, multiply this factor by the emission factor (AP-42, Table 3.3-1, 10/96) to yield a pound per hour and then multiply this factor by 8760 hours per year and divide by 2000 pounds to yield a ton(s) per year value. No emission(s) testing is specifically required to demonstrate compliance with this emission limit but, may be requested pursuant to OAC 3745-15-04(A).

Throughput:

$$6.0 \text{ gals/hr} * 7.05 \text{ lbs/gal} * 19,300 \text{ Btus/lb} = 0.82 \text{ mmBtu/hr}$$

$$0.35 \text{ lb/mmBtu} * 0.82 \text{ mmBtu/hr} = 0.29 \text{ lb VOC's/hr}$$

$$0.29 \text{ lb/hr} * 8760 \text{ hrs/yr} / 2000 \text{ lbs} = 1.3 \text{ tons VOC's/yr}$$

Emission Limitation:

Visible Particulate emissions shall not exceed 20 percent opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1). No emission(s) testing is specifically required to demonstrate compliance with this emission limit but, may be requested pursuant to OAC 3745-15-04(A).

F. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-35-07(B)(2), terms and conditions A-F of this permit to operate shall be federally enforceable. The applicant has requested that such restrictions, as specified in OAC rule 3745-35-07(C), be imposed in order to limit the potential to emit.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	Conveying and handling - feeders, conveying pts., transfer pts.	<u>Applicable Rules/Requirements</u>
F005 - Portable processing plant #2:		
Crushing - 60 tons per hour primary crusher (CR1 Hammermill/Shredder)		OAC rule 3745-31-05 (A)(3)
		OAC rule 3745-17-07 (B)
		OAC rule 3745-17-08 (B)
	0.82 mmBtu/hr No.2 Diesel Engine for 60 tph mobile soil crusher	40 CFR Part 60, Subpart OOO
		OAC rule 3745-31-05 (A)(3)

		Applicable Emissions <u>Limitations/Control Measures</u>
	OAC 3745-17-07(A)	
	OAC 3745-18-06	Particulate emissions shall not exceed 4.48 tons per year.
OAC rule 3745-17-07 (B)		The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO.
OAC rule 3745-17-08 (B)		See II.A.2.a-b. The emission limitation specified in this rule is less stringent than the emission limitation established by 40 CFR Part 60, Subpart OOO.
40 CFR Part 60, Subpart OOO		The emission limitation specified in this rule is less stringent than the emission limitation established by
OAC 3745-31-05 (A)(3)		OAC rule 3745-31-05 (A)(3). Visible emissions of fugitive dust shall not exceed 15% opacity, except as provided by the rule.
		Particulate emissions shall not exceed 10.5 tons per year. The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO.
		See II.A.2.a-b below.

Jones

PTI A

Issued: 2/8/2001

Emissions Unit ID: **F005**

The emission limitation specified in this rule is less stringent than the emission limitation established by 40 CFR Part 60, Subpart OOO.

emission limitation established by OAC rule 3745-31-05 (A)(3).

See II.A.1-2 below.

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

Visible emissions of fugitive dust shall not exceed 10% opacity, except as provided by the rule.

0.25 lb PM-10/hr
1.1 tons PM-10/yr

3.62 lbs NOx/hr
15.8 tons NOx/yr

0.24 lb SO2/hr
1.0 tons SO2/yr

0.78 lb CO/hr
3.4 tons CO/yr

0.29 lb VOC's/hr
1.3 tons VOC's/yr

The requirements of this rule also include compliance with the requirements of 3745-17-07(A).

Visible particulate emissions shall not exceed 20 percent opacity, as a 6-minute average, except as provided by rule.

The emission limitation specified in this rule is less stringent than the

ADDITIONAL TERMS AND CONDITIONS FOR THE PRIMARY CRUSHING ACTIVITIES

A. Applicable Emission Limitations and/or Control Requirements

1. The annual emission limitations were established to reflect the 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. The permittee shall employ best available control measures during conveying and handling operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. Compliance with OAC rule 3745-31-05 (A)(3) shall be demonstrated by applying water at sufficient frequencies to maintain the material in a moist condition and ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

B. Operational Restrictions

1. Water shall be applied at all points necessary to ensure compliance with the visible emission limitations.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform daily checks, when each piece of crushing equipment is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from each crushing operation. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. whether the emissions are representative of normal operations;
 - b. if the emissions are not representative of normal conditions, the cause of the abnormal emissions;
 - c. the total duration of any visible emission incident; and
 - d. any corrective actions taken to eliminate the visible emissions.

D. Reporting Requirements

1. The permittee shall submit semiannual reports which (a) identify all days during which any

Jones Topsoil**PTI Application: 01-08702****Issued****Facility ID: 0125042439**Emissions Unit ID: **F005**

abnormal visible fugitive particulate emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions. These reports shall be submitted to the Director of the Central District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

E. Testing Requirements

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

- a. **Emission Limitation**

Particulate emissions shall not exceed 4.5 tons per year (TPY).

Applicable Compliance Method

Compliance shall be demonstrated by multiplying the appropriate PM-10 emission factor by the conversion factor of 2.11 to arrive at the appropriate TSP emission factor as specified in USEPA reference document AP-42, 11.19.2 (1/95). This emission factor is then multiplied by the hourly maximum production rate (application, 6/12/00) which is multiplied by the total number of hours in a year (8760) and divided by 2,000 pounds per ton to yield an emission limitation in tons per year.

PM-10 emission factor (0.0024) * 2.11 = 0.0051

0.0051 lb/ton * 200 tons/hr * 8760 hrs/yr / 2,000 lbs/ton = 4.5 TPY TSP

- b. **Emission Limitation**

Visible emissions of fugitive dust shall not exceed 15% opacity, except as provided by rule.

Applicable Compliance Limitation

The permittee shall conduct, or have conducted, emission testing for each crusher in accordance with the following requirements:

- i. The emission testing shall be conducted within 60 days of issuance of this permit.
- ii. The emission testing shall be conducted to demonstrate compliance with the opacity limitation.
- iii. The following test method shall be employed to demonstrate compliance with 40 CFR Part 60 Subpart OOO: 40 CFR Part 60, Appendix A, Method 9. Alternative USEPA approved test methods may be used with prior approval from the Ohio EPA.

- iv. 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 Central District Office (CDO).

No later than thirty (30) days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the 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 Central District Office's refusal to accept the results of the emission test(s).

Personnel from the 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.

A comprehensive written report on the results of the emission test(s) shall be signed by the person(s) responsible for the test(s) and submitted to the Central District Office within thirty (30) days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Central District Office.

F. Miscellaneous Requirements

1. The following sources are subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency (USEPA), 40 CFR, Part 60.

F004: 60 TPH primary crusher

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);

Jones Topsoil
PTI Application: 01 09202
Issued

Facility ID: 0125042439

Emissions Unit ID: F005

- c. actual start-up date (within 15 days after such date); and
- d. date of performance testing (if required, at least 30 days prior to testing)

Reports are sent to:

Ohio Environmental Protection Agency
DAPC - Air Quality and Planning
P.O. Box 1049
Columbus, OH 43216-1049

and

Central District Office
Division of Air Pollution control
3232 Alum Creek Drive
Columbus, OH 43207

**ADDITIONAL TERMS AND CONDITIONS FOR CONVEYING AND HANDLING - FEEDERS,
CONVEYING PTS., TRANSFER PTS.**

A. Applicable Emission Limitations and/or Control Requirements

1. The annual emission limitations were established to reflect the 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. The permittee shall employ best available control measures during conveying and handling operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. Compliance with OAC rule 3745-31-05 (A)(3) shall be demonstrated by applying water at sufficient frequencies to maintain the material in a moist condition and ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

B. Operational Restrictions

1. This emission unit shall not exceed an operating rate of 200 tons per hour of material throughput.

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, for crushing operations , the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>Crushing operation(s)</u>	<u>minimum inspection frequency</u>
Crusher (F003)- crushing points	Daily
Crusher (F003)- transfer points	Daily

2. The above-mentioned inspections shall be performed during representative, normal operating conditions.

3. 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 3.d. shall be kept separately for each operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

4. The permittee shall perform daily observations for any visible particulate emissions from the emission unit, other than water vapor. The presence or absence of any visible emissions shall be recorded in an operations log. When visible emissions are observed in excess of the allowable opacity rate(s), corrective actions shall be taken to correct the problem and these action(s) shall be recorded in the operations log.
5. The permittee shall record the total daily tons of material throughput .

D. Reporting Requirements

1. The permittee shall comply with the Reporting and Record keeping requirements contained in 40 CFR 60.676 .
2. 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.

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

3. The permittee shall submit an annual accedence report which identifies any exceedances of the above conditions, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If an accedence did not occur during the reporting period, then a report stating that fact is required.

For each excursion event, the following information shall be provided:

- a. The date of the excursion;
- b. The duration of the excursion event;
- c. The operating rates during the excursion;
- d. The cause(s) of the excursion; and,
- e. The corrective action(s) which have or will be taken to prevent similar excursions in the future.

E. Compliance Determination / Testing Requirements

1. Compliance with the emission limitations in this permit shall be determined in accordance with the following methods :

Emission Limitation:

Fugitive Emission(s) (10 percent opacity)

Applicable Compliance Method:

Within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup of the emission unit, the permittee shall demonstrate compliance by testing in accordance with 40 CFR 60.8 and 40 CFR 60.675.

The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in §60.672, including reports of opacity observations made using Method 9.

Emission Limitation:

10.5 tons per year of Particulate emissions

Applicable Compliance Method:

The ton per year limit was established by multiplying the emission factor AP-42 (10/96) by the maximum production, the total number of hours in one (1) year, and the number of egress points

Jones

PTI A

Issued: 2/8/2001

Emissions Unit ID: **F005**

then dividing by 2,000 pounds per ton.

$0.0014 \text{ PM-10 emission factor} * 2.11 \text{ (conversion factor, AP-42)} = 0.0030 \text{ lb/ton TSP}$

$0.0030 \text{ lb/ton} * 200 \text{ tons/hr} * 8760 \text{ hrs/yr} * 4 \text{ (egress points)} / 2,000 \text{ lbs/ton} = 10.5 \text{ TPY TSP}$

F. Miscellaneous Requirements

None

ADDITIONAL TERMS AND CONDITIONS 0.82 NO.2 DIESEL ENGINE FOR 60 TPH MOBILE SOIL CRUSHER

A. Applicable Emission Limitations and/or Control Requirements

see **Air Emissions Summary**

B. Operational Restrictions

1. This emission unit shall burn only No.2 diesel fuel.
2. The maximum 12-month period fuel usage for this emission unit shall not exceed 42,000 gallons for any rolling 12-month period.
3. The permittee shall be required to burn only No. 2 diesel fuel containing less than 0.5 % sulfur by weight.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of each fuel shipment that indicate:
 - a. The oil supplier's analysis of percent sulfur content and heat content (BTU/gallon) and,
 - b. The quantity (gallons) of each shipment.
2. The permittee shall maintain monthly records of the total monthly gallons and the rolling 12-month period of total gallons of fuel used in this emission unit.
3. The permittee shall maintain daily records of the total daily and annual hours of operation for the emission unit.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling 12-month limitation and , for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative fuel usage levels.
2. The Permittee shall report the use of any diesel fuel containing more than 0.5% sulfur by weight. This report shall indicate the cause of the excursion and the corrective action taken to prevent further exceedances. If no deviations (excursions) occurred during the reporting period, then a report stating so shall be submitted.

50

Jones Topsoil

PTI Application: 01 08702

Issued

Facility ID: 0125042439

Emissions Unit ID: F005

These reports are due within 45 days from the end of the month in which the accident occurred.

E. Compliance Determination / Testing Requirements

1. Compliance with the emission limitations in this permit shall be determined in accordance with the following methods :

Emission Limitation:

42,000 gallons fuel consumption per rolling 12-month period

Applicable Compliance Method:

Compliance shall be determined by the records kept in accordance with the Monitoring and Record keeping Requirements contained in this permit.

Emission Limitation:

0.25 lb PM-10/hr; 1.1 tons PM-10/yr

Applicable Compliance Method:

Compliance shall be determined by multiplying the average gallons per hour of fuel used (per application 6/12/00) by pounds per gallon of diesel fuel (AP-42, Table 3.3-1, 10/96) and by British thermal units per pound of diesel fuel (AP-42, Table 3.3-1, 10/96). In turn, multiply this factor by the emission factor (AP-42, Table 3.3-1, 10/96) to yield a pound per hour and then multiply this factor by 8760 hours per year and divide by 2000 pounds to yield a ton(s) per year value. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10). No emission(s) testing is specifically required to demonstrate compliance with this emission limit but, may be requested pursuant to OAC 3745-15-04(A).

Throughput:

$6.0 \text{ gals/hr} * 7.05 \text{ lbs/gal} * 19,300 \text{ Btus/lb} = 0.82 \text{ mmBtu/hr}$

$0.31 \text{ lb/mmBtu} * 0.82 \text{ mmBtu/hr} = 0.25 \text{ lb PM-10/hr}$

$0.25 \text{ lb/hr} * 8760 \text{ hrs/yr} / 2000 \text{ lbs} = 1.1 \text{ tons PM-10/yr}$

Emission Limitation:

3.62 lbs NO_x/hr; 15.8 tons NO_x/yr

Applicable Compliance Method:

Compliance shall be determined by multiplying the average gallons per hour of fuel used (per application 6/12/00) by pounds per gallon of diesel fuel (AP-42, Table 3.3-1, 10/96) and by the British thermal units per pound of diesel fuel (AP-42, Table 3.3-1, 10/96). In turn, multiply this factor by the emission factor (AP-42, Table 3.3-1, 10/96) to yield a pound per hour and then multiply this factor by 8760 hours per year and divide by 2000 pounds to yield a ton(s) per year value. No emission(s) testing is specifically required to demonstrate compliance with this

52

Jones

PTI A

Issued: 2/8/2001

Emissions Unit ID: **F005**

emission limit but, may be requested pursuant to OAC 3745-15-04(A).

Throughput:

$$6.0 \text{ gals/hr} * 7.05 \text{ lbs/gal} * 19,300 \text{ Btus/lb} = 0.82 \text{ mmBtu/hr}$$

$$4.41 \text{ lbs/mmBtu} * 0.82 \text{ mmBtu/hr} = 3.62 \text{ lbs NOx/hr}$$

$$3.62 \text{ lbs/hr} * 8760 \text{ hrs/yr} / 2000 \text{ lbs} = 15.8 \text{ tons NOx/yr}$$

Emission Limitation:

$$0.24 \text{ lb SO}_2\text{/hr}; 1.0 \text{ tons SO}_2\text{/yr}$$

Applicable Compliance Method:

Compliance shall be determined by multiplying the average gallons per hour of fuel used (per application 6/12/00) by pounds per gallon of diesel fuel (AP-42, Table 3.3-1, 10/96) and by the British thermal units per pound of diesel fuel (AP-42, Table 3.3-1, 10/96). In turn, multiply this factor by the emission factor (AP-42, Table 3.3-1, 10/96) to yield a pound per hour and then multiply this factor by 8760 hours per year and divide by 2000 pounds to yield a ton(s) per year value. No emission(s) testing is specifically required to demonstrate compliance with this emission limit but, may be requested pursuant to OAC 3745-15-04(A).

Throughput:

$$6.0 \text{ gals/hr} * 7.05 \text{ lbs/gal} * 19,300 \text{ Btus/lb} = 0.82 \text{ mmBtu/hr}$$

$$0.29 \text{ lb/mmBtu} * 0.82 \text{ mmBtu/hr} = 0.24 \text{ lb SO}_2\text{/hr}$$

$$0.24 \text{ lb/hr} * 8760 \text{ hrs/yr} / 2000 \text{ lbs} = 1.0 \text{ tons SO}_2\text{/yr}$$

Emission Limitation:

$$0.78 \text{ lb CO/hr}; 3.4 \text{ tons CO/yr}$$

Applicable Compliance Method:

Compliance shall be determined by multiplying the average gallons per hour of fuel used (per application 6/12/00) by pounds per gallon of diesel fuel (AP-42, Table 3.3-1, 10/96) and by the British thermal units per pound of diesel fuel (AP-42, Table 3.3-1, 10/96). In turn, multiply this factor by the emission factor (AP-42, Table 3.3-1, 10/96) to yield a pound per hour and then multiply this factor by 8760 hours per year and divide by 2000 pounds to yield a ton(s) per year value. No emission(s) testing is specifically required to demonstrate compliance with this emission limit but, may be requested pursuant to OAC 3745-15-04(A).

Throughput:

$$6.0 \text{ gals/hr} * 7.05 \text{ lbs/gal} * 19,300 \text{ Btus/lb} = 0.82 \text{ mmBtu/hr}$$

$$0.95 \text{ lb/mmBtu} * 0.82 \text{ mmBtu/hr} = 0.78 \text{ lb CO/hr}$$

$$0.78 \text{ lb/hr} * 8760 \text{ hrs/yr} / 2000 \text{ lbs} = 3.4 \text{ tons CO/yr}$$

Emission Limitation:

Jones Topsoil**PTI Application: 01-08702****Issued****Facility ID: 0125042439**Emissions Unit ID: **F005**

0.29 lb VOC's/hr; 1.3 tons VOC's/yr

Applicable Compliance Method:

Compliance shall be determined by multiplying the average gallons per hour of fuel used (per application 6/12/00) by pounds per gallon of diesel fuel (AP-42, Table 3.3-1, 10/96) and by the British thermal units per pound of diesel fuel (AP-42, Table 3.3-1, 10/96). In turn, multiply this factor by the emission factor (AP-42, Table 3.3-1, 10/96) to yield a pound per hour and then multiply this factor by 8760 hours per year and divide by 2000 pounds to yield a ton(s) per year value. No emission(s) testing is specifically required to demonstrate compliance with this emission limit but, may be requested pursuant to OAC 3745-15-04(A).

Throughput:
$$6.0 \text{ gals/hr} * 7.05 \text{ lbs/gal} * 19,300 \text{ Btus/lb} = 0.82 \text{ mmBtu/hr}$$
$$0.35 \text{ lb/mmBtu} * 0.82 \text{ mmBtu/hr} = 0.29 \text{ lb VOC's/hr}$$
$$0.29 \text{ lb/hr} * 8760 \text{ hrs/yr} / 2000 \text{ lbs} = 1.3 \text{ tons VOC's/yr}$$
Emission Limitation:

Visible Particulate emissions shall not exceed 20 percent opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1). No emission(s) testing is specifically required to demonstrate compliance with this emission limit but, may be requested pursuant to OAC 3745-15-04(A).

F. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-35-07(B)(2), terms and conditions A-F of this permit to operate shall be federally enforceable. The applicant has requested that such restrictions, as specified in OAC rule 3745-35-07(C), be imposed in order to limit the potential to emit.

OAC rule 3745-31-05 (A)(3)

Applicable Emissions
Limitations/Control Measures

OAC 3745-17-07(A)

Particulate emissions shall not exceed 4.48 tons per year.

OAC 3745-18-06

The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO.

OAC rule 3745-17-07 (B)

See II.A.2.a-b.

OAC rule 3745-17-08 (B)

The emission limitation specified in this rule is less stringent than the emission limitation established by 40 CFR Part 60, Subpart OOO.

40 CFR Part 60, Subpart OOO

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

OAC 3745-31-05 (A)(3)

Visible emissions of fugitive dust shall not exceed 15% opacity, except as provided by the rule.

Particulate emissions shall not exceed 10.5 tons per year.

The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO.

See II.A.2.a-b below.

Jones**PTI A****Issued: 2/8/2001**Emissions Unit ID: **F006**

The emission limitation specified in this rule is less stringent than the emission limitation established by 40 CFR Part 60, Subpart OOO.

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

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

See II.A.1-2 below.

Visible emissions of fugitive dust shall not exceed 10% opacity, except as provided by the rule.

0.25 lb PM-10/hr
1.1 tons PM-10/yr

3.62 lbs NO_x/hr
15.8 tons NO_x/yr

0.24 lb SO₂/hr
1.0 tons SO₂/yr

0.78 lb CO/hr
3.4 tons CO/yr

0.29 lb VOC's/hr
1.3 tons VOC's/yr

The requirements of this rule also include compliance with the requirements of 3745-17-07(A).

Visible particulate emissions shall not exceed 20 percent opacity, as a 6-minute average, except as provided by rule.

The emission limitation specified in

ADDITIONAL TERMS AND CONDITIONS FOR THE PRIMARY CRUSHING ACTIVITIES**A. Applicable Emission Limitations and/or Control Requirements**

1. The annual emission limitations were established to reflect the 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. The permittee shall employ best available control measures during conveying and handling operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. Compliance with OAC rule 3745-31-05 (A)(3) shall be demonstrated by applying water at sufficient frequencies to maintain the material in a moist condition and ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

B. Operational Restrictions

1. Water shall be applied at all points necessary to ensure compliance with the visible emission limitations.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform daily checks, when each piece of crushing equipment is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from each crushing operation. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. whether the emissions are representative of normal operations;
 - b. if the emissions are not representative of normal conditions, the cause of the abnormal emissions;
 - c. the total duration of any visible emission incident; and
 - d. any corrective actions taken to eliminate the visible emissions.

D. Reporting Requirements

1. The permittee shall submit semiannual reports which (a) identify all days during which any abnormal visible fugitive particulate emissions were observed from this emissions unit and (b)

describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions. These reports shall be submitted to the Director of the Central District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

E. Testing Requirements

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

- a. Emission Limitation:
Particulate emissions shall not exceed 4.5 tons per year (TPY).

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the appropriate PM-10 emission factor by the conversion factor of 2.11 to arrive at the appropriate TSP emission factor as specified in USEPA reference document AP-42, 11.19.2 (1/95). This emission factor is then multiplied by the hourly maximum production rate (application, 6/12/00) which is multiplied by the total number of hours in a year (8760) and divided by 2,000 pounds per ton to yield an emission limitation in tons per year.

PM-10 emission factor (0.0024) * 2.11 = 0.0051

$0.0051 \text{ lb/ton} * 200 \text{ tons/hr} * 8760 \text{ hrs/yr} / 2,000 \text{ lbs/ton} = 4.5 \text{ TPY TSP}$

- b. Emission Limitation:
Visible emissions of fugitive dust shall not exceed 15% opacity, except as provided by rule.

Applicable Compliance Limitation:

The permittee shall conduct, or have conducted, emission testing for each crusher in accordance with the following requirements:

- i. The emission testing shall be conducted within 60 days of issuance of this permit.
- ii. The emission testing shall be conducted to demonstrate compliance with the opacity limitation.
- iii. The following test method shall be employed to demonstrate compliance with 40 CFR Part 60 Subpart OOO: 40 CFR, Part 60, Appendix A, Method 9. Alternative USEPA approved test methods may be used with prior approval from the Ohio EPA.

Emissions Unit ID: **F006**

- iv. 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 Central District Office (CDO).

No later than thirty (30) days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the 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 Central District Office's refusal to accept the results of the emission test(s).

Personnel from the 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.

A comprehensive written report on the results of the emission test(s) shall be signed by the person(s) responsible for the test(s) and submitted to the Central District Office within thirty (30) days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Central District Office.

F. Miscellaneous Requirements

1. The following sources are subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency (USEPA), 40 CFR Part 60.

F004: 60 TPH primary crusher

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and

61

Jones

PTI A

Issued: 2/8/2001

Emissions Unit ID: **F006**

- d. date of performance testing (if required, at least 30 days prior to testing)

Reports are sent to:

Ohio Environmental Protection Agency
DAPC - Air Quality and Planning
P.O. Box 1049
Columbus, OH 43216-1049

and

Central District Office
Division of Air Pollution control
3232 Alum Creek Drive
Columbus, OH 43207

**ADDITIONAL TERMS AND CONDITIONS FOR CONVEYING AND HANDLING - FEEDERS,
CONVEYING PTS., TRANSFER PTS.**

A. Applicable Emission Limitations and/or Control Requirements

1. The annual emission limitations were established to reflect the 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. The permittee shall employ best available control measures during conveying and handling operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. Compliance with OAC rule 3745-31-05 (A)(3) shall be demonstrated by applying water at sufficient frequencies to maintain the material in a moist condition and ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

B. Operational Restrictions

1. This emission unit shall not exceed an operating rate of 200 tons per hour of material throughput.

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, for crushing operations , the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>Crushing operation(s)</u>	<u>minimum inspection frequency</u>
Crusher (F003)- crushing points	Daily
Crusher (F003)- transfer points	Daily

2. The above-mentioned inspections shall be performed during representative, normal operating conditions.

3. 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 3.d. shall be kept separately for each operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

4. The permittee shall perform daily observations for any visible particulate emissions from the emission unit, other than water vapor. The presence or absence of any visible emissions shall be recorded in an operations log. When visible emissions are observed in excess of the allowable opacity rate(s), corrective actions shall be taken to correct the problem and these action(s) shall be recorded in the operations log.
5. The permittee shall record the total daily tons of material throughput .

D. Reporting Requirements

1. The permittee shall comply with the Reporting and Record keeping requirements contained in 40 CFR 60.676 .
2. 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.

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

3. The permittee shall submit an annual exceedance report which identifies any exceedances of the above conditions, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If an exceedance did not occur during the reporting period, then a report stating that fact is required.

For each excursion event, the following information shall be provided:

- a. The date of the excursion;
- b. The duration of the excursion event;
- c. The operating rates during the excursion;
- d. The cause(s) of the excursion; and,
- e. The corrective action(s) which have or will be taken to prevent similar excursions in the future.

E. Compliance Determination / Testing Requirements

1. Compliance with the emission limitations in this permit shall be determined in accordance with the following methods :

Emission Limitation:

Fugitive Emission(s) (10 percent opacity)

Applicable Compliance Method:

Within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup of the emission unit, the permittee shall demonstrate compliance by testing in accordance with 40 CFR 60.8 and 40 CFR 60.675.

The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in §60.672, including reports of opacity observations made using Method 9.

Emission Limitation:

10.5 tons per year of Particulate emissions

Applicable Compliance Method:

The ton per year limit was established by multiplying the emission factor AP-42 (10/96) by the

Jones

PTI A

Issued: 2/8/2001

Emissions Unit ID: **F006**

maximum production, the total number of hours in one (1) year, and the number of egress points then dividing by 2,000 pounds per ton.

$0.0014 \text{ PM-10 emission factor} * 2.11 \text{ (conversion factor, AP-42)} = 0.0030 \text{ lb/ton TSP}$

$0.0030 \text{ lb/ton} * 200 \text{ tons/hr} * 8760 \text{ hrs/yr} * 4 \text{ (egress points)} / 2,000 \text{ lbs/ton} = 10.5 \text{ TPY TSP}$

F. Miscellaneous Requirements

None

ADDITIONAL TERMS AND CONDITIONS 0.82 NO.2 DIESEL ENGINE FOR 60 TPH MOBILE SOIL CRUSHER

A. Applicable Emission Limitations and/or Control Requirements

see Air Emissions Summary

B. Operational Restrictions

1. This emission unit shall burn only No.2 diesel fuel.
2. The maximum 12-month period fuel usage for this emission unit shall not exceed 42,000 gallons for any rolling 12-month period.
3. The permittee shall be required to burn only No. 2 diesel fuel containing less than 0.5 % sulfur by weight.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of each fuel shipment that indicate:
 - a. The oil supplier's analysis of percent sulfur content and heat content (BTU/gallon) and,
 - b. The quantity (gallons) of each shipment.
2. The permittee shall maintain monthly records of the total monthly gallons and the rolling 12-month period of total gallons of fuel used in this emission unit.
3. The permittee shall maintain daily records of the total daily and annual hours of operation for the emission unit.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling 12-month limitation and , for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative fuel usage levels.
2. The Permittee shall report the use of any diesel fuel containing more than 0.5% sulfur by weight. This report shall indicate the cause of the excursion and the corrective action taken to prevent further exceedances. If no deviations (excursions) occurred during the reporting period, then a report stating so shall be submitted.

67

Jones

PTI A

Issued: 2/8/2001

Emissions Unit ID: **F006**

These reports are due within 45 days from the end of the month in which the accident occurred.

E. Compliance Determination / Testing Requirements

1. Compliance with the emission limitations in this permit shall be determined in accordance with the following methods:

Emission Limitation:

42,000 gallons fuel consumption per rolling 12-month period

Applicable Compliance Method:

Compliance shall be determined by the records kept in accordance with the Monitoring and Record keeping Requirements contained in this permit.

Emission Limitation:

0.25 lb PM-10/hr; 1.1 tons PM-10/yr

Applicable Compliance Method:

Compliance shall be determined by multiplying the average gallons per hour of fuel used (per application 6/12/00) by pounds per gallon of diesel fuel (AP-42, Table 3.3-1, 10/96) and by British thermal units per pound of diesel fuel (AP-42, Table 3.3-1, 10/96). In turn, multiply this factor by the emission factor (AP-42, Table 3.3-1, 10/96) to yield a pound per hour and then multiply this factor by 8760 hours per year and divide by 2000 pounds to yield a ton(s) per year value. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10). No emission(s) testing is specifically required to demonstrate compliance with this emission limit but, may be requested pursuant to OAC 3745-15-04(A).

Throughput:

$6.0 \text{ gals/hr} * 7.05 \text{ lbs/gal} * 19,300 \text{ Btus/lb} = 0.82 \text{ mmBtu/hr}$

$0.31 \text{ lb/mmBtu} * 0.82 \text{ mmBtu/hr} = 0.25 \text{ lb PM-10/hr}$

$0.25 \text{ lb/hr} * 8760 \text{ hrs/yr} / 2000 \text{ lbs} = 1.1 \text{ tons PM-10/yr}$

Emission Limitation:

3.62 lbs NO_x/hr; 15.8 tons NO_x/yr

Applicable Compliance Method:

Compliance shall be determined by multiplying the average gallons per hour of fuel used (per application 6/12/00) by pounds per gallon of diesel fuel (AP-42, Table 3.3-1, 10/96) and by the British thermal units per pound of diesel fuel (AP-42, Table 3.3-1, 10/96). In turn, multiply this factor by the emission factor (AP-42, Table 3.3-1, 10/96) to yield a pound per hour and then multiply this factor by 8760 hours per year and divide by 2000 pounds to yield a ton(s) per year

69

Jones

PTI A

Issued: 2/8/2001

Emissions Unit ID: **F006**

value. No emission(s) testing is specifically required to demonstrate compliance with this emission limit but, may be requested pursuant to OAC 3745-15-04(A).

Jones Topsoil**PTI Application: 01-08702****Issued****Facility ID: 0125042439****Emissions Unit ID: F006****Throughput:** $6.0 \text{ gals/hr} * 7.05 \text{ lbs/gal} * 19,300 \text{ Btus/lb} = 0.82 \text{ mmBtu/hr}$ $4.41 \text{ lbs/mmBtu} * 0.82 \text{ mmBtu/hr} = 3.62 \text{ lbs NO}_x\text{/hr}$ $3.62 \text{ lbs/hr} * 8760 \text{ hrs/yr} / 2000 \text{ lbs} = 15.8 \text{ tons NO}_x\text{/yr}$ **Emission Limitation:**0.24 lb SO₂/hr; 1.0 tons SO₂/yr**Applicable Compliance Method:**

Compliance shall be determined by multiplying the average gallons per hour of fuel used (per application 6/12/00) by pounds per gallon of diesel fuel (AP-42, Table 3.3-1, 10/96) and by the British thermal units per pound of diesel fuel (AP-42, Table 3.3-1, 10/96). In turn, multiply this factor by the emission factor (AP-42, Table 3.3-1, 10/96) to yield a pound per hour and then multiply this factor by 8760 hours per year and divide by 2000 pounds to yield a ton(s) per year value. No emission(s) testing is specifically required to demonstrate compliance with this emission limit but, may be requested pursuant to OAC 3745-15-04(A).

Throughput: $6.0 \text{ gals/hr} * 7.05 \text{ lbs/gal} * 19,300 \text{ Btus/lb} = 0.82 \text{ mmBtu/hr}$ $0.29 \text{ lb/mmBtu} * 0.82 \text{ mmBtu/hr} = 0.24 \text{ lb SO}_2\text{/hr}$ $0.24 \text{ lb/hr} * 8760 \text{ hrs/yr} / 2000 \text{ lbs} = 1.0 \text{ tons SO}_2\text{/yr}$ **Emission Limitation:**

0.78 lb CO/hr; 3.4 tons CO/yr

Applicable Compliance Method:

Compliance shall be determined by multiplying the average gallons per hour of fuel used (per application 6/12/00) by pounds per gallon of diesel fuel (AP-42, Table 3.3-1, 10/96) and by the British thermal units per pound of diesel fuel (AP-42, Table 3.3-1, 10/96). In turn, multiply this factor by the emission factor (AP-42, Table 3.3-1, 10/96) to yield a pound per hour and then multiply this factor by 8760 hours per year and divide by 2000 pounds to yield a ton(s) per year value. No emission(s) testing is specifically required to demonstrate compliance with this emission limit but, may be requested pursuant to OAC 3745-15-04(A).

Throughput: $6.0 \text{ gals/hr} * 7.05 \text{ lbs/gal} * 19,300 \text{ Btus/lb} = 0.82 \text{ mmBtu/hr}$ $0.95 \text{ lb/mmBtu} * 0.82 \text{ mmBtu/hr} = 0.78 \text{ lb CO/hr}$ $0.78 \text{ lb/hr} * 8760 \text{ hrs/yr} / 2000 \text{ lbs} = 3.4 \text{ tons CO/yr}$ **Emission Limitation:**

0.29 lb VOC's/hr; 1.3 tons VOC's/yr

Applicable Compliance Method:

Compliance shall be determined by multiplying the average gallons per hour of fuel used (per application 6/12/00) by pounds per gallon of diesel fuel (AP-42, Table 3.3-1, 10/96) and by the British thermal units per pound of diesel fuel (AP-42, Table 3.3-1, 10/96). In turn, multiply this factor by the emission factor (AP-42, Table 3.3-1, 10/96) to yield a pound per hour and then multiply this factor by 8760 hours per year and divide by 2000 pounds to yield a ton(s) per year value. No emission(s) testing is specifically required to demonstrate compliance with this emission limit but, may be requested pursuant to OAC 3745-15-04(A).

Throughput:

$$6.0 \text{ gals/hr} * 7.05 \text{ lbs/gal} * 19,300 \text{ Btus/lb} = 0.82 \text{ mmBtu/hr}$$

$$0.35 \text{ lb/mmBtu} * 0.82 \text{ mmBtu/hr} = 0.29 \text{ lb VOC's/hr}$$

$$0.29 \text{ lb/hr} * 8760 \text{ hrs/yr} / 2000 \text{ lbs} = 1.3 \text{ tons VOC's/yr}$$

Emission Limitation:

Visible Particulate emissions shall not exceed 20 percent opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1). No emission(s) testing is specifically required to demonstrate compliance with this emission limit but, may be requested pursuant to OAC 3745-15-04(A).

F. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-35-07(B)(2), terms and conditions A-F of this permit to operate shall be federally enforceable. The applicant has requested that such restrictions, as specified in OAC rule 3745-35-07(C), be imposed in order to limit the potential to emit.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Conveying and handling - feeders, conveying pts., transfer pts.</u>	<u>Applicable Rules/Requirements</u>
F007 - Portable processing plant #4: Crushing - 60 tons per hour primary crusher (CR1 Hammermill/Shredder)		OAC rule 3745-31-05 (A)(3)
		OAC rule 3745-17-07 (B)
		OAC rule 3745-17-08 (B)
	0.82 mmBtu/hr No.2 Diesel Engine for 60 tph mobile soil crusher	40 CFR Part 60, Subpart OOO

Emissions Unit ID: F007

OAC rule 3745-31-05 (A)(3)

OAC 3745-17-07(A)

OAC 3745-18-06

OAC rule 3745-17-07 (B)

OAC rule 3745-17-08 (B)

40 CFR Part 60, Subpart OOO

OAC 3745-31-05 (A)(3)

Applicable Emissions
Limitations/Control Measures

Particulate emissions shall not exceed 4.48 tons per year.

The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO.

See II.A.2.a-b.

The emission limitation specified in this rule is less stringent than the emission limitation established by 40 CFR Part 60, Subpart OOO.

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

Visible emissions of fugitive dust shall not exceed 15% opacity, except as provided by the rule.

Particulate emissions shall not exceed 10.5 tons per year.

The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO.

See II.A.2.a-b below.

The emission limitation specified in

Jones**PTI A****Issued: 2/8/2001**Emissions Unit ID: **F007**

this rule is less stringent than the emission limitation established by 40 CFR Part 60, Subpart OOO.

OAC rule 3745-31-05 (A)(3).

See II.A.1-2 below.

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

Visible emissions of fugitive dust shall not exceed 10% opacity, except as provided by the rule.

0.25 lb PM-10/hr
1.1 tons PM-10/yr

3.62 lbs NOx/hr
15.8 tons NOx/yr

0.24 lb SO2/hr
1.0 tons SO2/yr

0.78 lb CO/hr
3.4 tons CO/yr

0.29 lb VOC's/hr
1.3 tons VOC's/yr

The requirements of this rule also include compliance with the requirements of 3745-17-07(A).

Visible particulate emissions shall not exceed 20 percent opacity, as a 6-minute average, except as provided by rule.

The emission limitation specified in this rule is less stringent than the emission limitation established by

ADDITIONAL TERMS AND CONDITIONS FOR THE PRIMARY CRUSHING ACTIVITIES

A. Applicable Emission Limitations and/or Control Requirements

1. The annual emission limitations were established to reflect the 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. The permittee shall employ best available control measures during conveying and handling operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. Compliance with OAC rule 3745-31-05 (A)(3) shall be demonstrated by applying water at sufficient frequencies to maintain the material in a moist condition and ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

B. Operational Restrictions

1. Water shall be applied at all points necessary to ensure compliance with the visible emission limitations.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform daily checks, when each piece of crushing equipment is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from each crushing operation. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. whether the emissions are representative of normal operations;
 - b. if the emissions are not representative of normal conditions, the cause of the abnormal emissions;
 - c. the total duration of any visible emission incident; and
 - d. any corrective actions taken to eliminate the visible emissions.

D. Reporting Requirements

1. The permittee shall submit semiannual reports which (a) identify all days during which any

Jones Topsoil**PTI Application: 01-08702****Issued****Facility ID: 0125042439**Emissions Unit ID: **F007**

abnormal visible fugitive particulate emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions. These reports shall be submitted to the Director of the Central District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

E. Testing Requirements

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

- a. Emission Limitation:
Particulate emissions shall not exceed 4.5 tons per year (TPY).

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the appropriate PM-10 emission factor by the conversion factor of 2.11 to arrive at the appropriate TSP emission factor as specified in USEPA reference document AP-42, 11.19.2 (1/95). This emission factor is then multiplied by the hourly maximum production rate (application, 6/12/00) which is multiplied by the total number of hours in a year (8760) and divided by 2,000 pounds per ton to yield an emission limitation in tons per year.

PM-10 emission factor (0.0024) * 2.11 = 0.0051

0.0051 lb/ton * 200 tons/hr * 8760 hrs/yr / 2,000 lbs/ton = 4.5 TPY TSP

- b. Emission Limitation:
Visible emissions of fugitive dust shall not exceed 15% opacity, except as provided by rule.

Applicable Compliance Limitation:

The permittee shall conduct, or have conducted, emission testing for each crusher in accordance with the following requirements:

- i. The emission testing shall be conducted within 60 days of issuance of this permit.
- ii. The emission testing shall be conducted to demonstrate compliance with the opacity limitation.
- iii. The following test method shall be employed to demonstrate compliance with 40 CFR Part 60 Subpart OOO: 40 CFR, Part 60, Appendix A, Method 9. Alternative USEPA approved test methods may be used with prior approval from the Ohio EPA.

- iv. 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 Central District Office (CDO).

No later than thirty (30) days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the 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 Central District Office's refusal to accept the results of the emission test(s).

Personnel from the 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.

A comprehensive written report on the results of the emission test(s) shall be signed by the person(s) responsible for the test(s) and submitted to the Central District Office within thirty (30) days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Central District Office.

F. Miscellaneous Requirements

1. The following sources are subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency (USEPA), 40 CFR Part 60.

F004: 60 TPH primary crusher

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);

Jones Topsoil

PTI Application: 01 09202

Issued

Facility ID: 0125042439

Emissions Unit ID: F007

- c. actual start-up date (within 15 days after such date); and
- d. date of performance testing (if required, at least 30 days prior to testing)

Reports are sent to:

Ohio Environmental Protection Agency
DAPC - Air Quality and Planning
P.O. Box 1049
Columbus, OH 43216-1049

and

Central District Office
 Division of Air Pollution control
 3232 Alum Creek Drive
 Columbus, OH 43207

**ADDITIONAL TERMS AND CONDITIONS FOR CONVEYING AND HANDLING - FEEDERS,
 CONVEYING PTS., TRANSFER PTS.**

A. Applicable Emission Limitations and/or Control Requirements

1. The annual emission limitations were established to reflect the 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. The permittee shall employ best available control measures during conveying and handling operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. Compliance with OAC rule 3745-31-05 (A)(3) shall be demonstrated by applying water at sufficient frequencies to maintain the material in a moist condition and ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

B. Operational Restrictions

1. This emission unit shall not exceed an operating rate of 200 tons per hour of material throughput.

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, for crushing operations, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>Crushing operation(s)</u>	<u>minimum inspection frequency</u>
Crusher (F003)- crushing points	Daily
Crusher (F003)- transfer points	Daily

2. The above-mentioned inspections shall be performed during representative, normal operating conditions.

3. 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 3.d. shall be kept separately for each operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

4. The permittee shall perform daily observations for any visible particulate emissions from the emission unit, other than water vapor. The presence or absence of any visible emissions shall be recorded in an operations log. When visible emissions are observed in excess of the allowable opacity rate(s), corrective actions shall be taken to correct the problem and these action(s) shall be recorded in the operations log.
5. The permittee shall record the total daily tons of material throughput .

D. Reporting Requirements

1. The permittee shall comply with the Reporting and Record keeping requirements contained in 40 CFR 60.676 .
2. 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.

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

3. The permittee shall submit an annual exceedance report which identifies any exceedances of the above conditions, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If an exceedance did not occur during the reporting period, then a report stating that fact is required.

For each excursion event, the following information shall be provided:

- a. The date of the excursion;
- b. The duration of the excursion event;
- c. The operating rates during the excursion;
- d. The cause(s) of the excursion; and,
- e. The corrective action(s) which have or will be taken to prevent similar excursions in the future.

E. Compliance Determination / Testing Requirements

1. Compliance with the emission limitations in this permit shall be determined in accordance with the following methods :

Emission Limitation:
Fugitive Emission(s) (10 percent opacity)

Applicable Compliance Method:
Within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup of the emission unit, the permittee shall demonstrate compliance by testing in accordance with 40 CFR 60.8 and 40 CFR 60.675.

The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in §60.672, including reports of opacity observations made using Method 9.

Emission Limitation:
10.5 tons per year of Particulate emissions

Applicable Compliance Method:
The ton per year limit was established by multiplying the emission factor AP-42 (10/96) by the

Jones Topsoil**PTI Application: 01-08702****Issued****Facility ID: 0125042439**Emissions Unit ID: **F007**

maximum production, the total number of hours in one (1) year, and the number of egress points then dividing by 2,000 pounds per ton.

$0.0014 \text{ PM-10 emission factor} * 2.11 \text{ (conversion factor, AP-42)} = 0.0030 \text{ lb/ton TSP}$

$0.0030 \text{ lb/ton} * 200 \text{ tons/hr} * 8760 \text{ hrs/yr} * 4 \text{ (egress points)} / 2,000 \text{ lbs/ton} = 10.5 \text{ TPY TSP}$

F. Miscellaneous Requirements

None

ADDITIONAL TERMS AND CONDITIONS 0.82 NO.2 DIESEL ENGINE FOR 60 TPH MOBILE SOIL CRUSHER

A. Applicable Emission Limitations and/or Control Requirements

see **Air Emissions Summary**

B. Operational Restrictions

1. This emission unit shall burn only No.2 diesel fuel.
2. The maximum 12-month period fuel usage for this emission unit shall not exceed 42,000 gallons for any rolling 12-month period.
3. The permittee shall be required to burn only No. 2 diesel fuel containing less than 0.5 % sulfur by weight.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of each fuel shipment that indicate:
 - a. The oil supplier's analysis of percent sulfur content and heat content (BTU/gallon) and,
 - b. The quantity (gallons) of each shipment.
2. The permittee shall maintain monthly records of the total monthly gallons and the rolling 12-month period of total gallons of fuel used in this emission unit.
3. The permittee shall maintain daily records of the total daily and annual hours of operation for the emission unit.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling 12-month limitation and , for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative fuel usage levels.
2. The Permittee shall report the use of any diesel fuel containing more than 0.5% sulfur by weight. This report shall indicate the cause of the excursion and the corrective action taken to prevent further exceedances. If no deviations (excursions) occurred during the reporting period, then a report stating so shall be submitted.

84

Jones

PTI A

Issued: 2/8/2001

Emissions Unit ID: **F007**

These reports are due within 45 days from the end of the month in which the accident occurred.

E. Compliance Determination / Testing Requirements

1. Compliance with the emission limitations in this permit shall be determined in accordance with the following methods:

Emission Limitation:

42,000 gallons fuel consumption per rolling 12-month period

Applicable Compliance Method:

Compliance shall be determined by the records kept in accordance with the Monitoring and Record keeping Requirements contained in this permit.

Emission Limitation:

0.25 lb PM-10/hr; 1.1 tons PM-10/yr

Applicable Compliance Method:

Compliance shall be determined by multiplying the average gallons per hour of fuel used (per application 6/12/00) by pounds per gallon of diesel fuel (AP-42, Table 3.3-1, 10/96) and by British thermal units per pound of diesel fuel (AP-42, Table 3.3-1, 10/96). In turn, multiply this factor by the emission factor (AP-42, Table 3.3-1, 10/96) to yield a pound per hour and then multiply this factor by 8760 hours per year and divide by 2000 pounds to yield a ton(s) per year value. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10). No emission(s) testing is specifically required to demonstrate compliance with this emission limit but, may be requested pursuant to OAC 3745-15-04(A).

Throughput:

$6.0 \text{ gals/hr} * 7.05 \text{ lbs/gal} * 19,300 \text{ Btus/lb} = 0.82 \text{ mmBtu/hr}$

$0.31 \text{ lb/mmBtu} * 0.82 \text{ mmBtu/hr} = 0.25 \text{ lb PM-10/hr}$

$0.25 \text{ lb/hr} * 8760 \text{ hrs/yr} / 2000 \text{ lbs} = 1.1 \text{ tons PM-10/yr}$

Emission Limitation:

3.62 lbs NOx/hr; 15.8 tons NOx/yr

Applicable Compliance Method:

Compliance shall be determined by multiplying the average gallons per hour of fuel used (per application 6/12/00) by pounds per gallon of diesel fuel (AP-42, Table 3.3-1, 10/96) and by the British thermal units per pound of diesel fuel (AP-42, Table 3.3-1, 10/96). In turn, multiply this factor by the emission factor (AP-42, Table 3.3-1, 10/96) to yield a pound per hour and then

Jones Topsoil**PTI Application: 01 09702****Issued****Facility ID: 0125042439**Emissions Unit ID: **F007**

multiply this factor by 8760 hours per year and divide by 2000 pounds to yield a ton(s) per year value. No emission(s) testing is specifically required to demonstrate compliance with this emission limit but, may be requested pursuant to OAC 3745-15-04(A).

Throughput:

$$6.0 \text{ gals/hr} * 7.05 \text{ lbs/gal} * 19,300 \text{ Btus/lb} = 0.82 \text{ mmBtu/hr}$$

$$4.41 \text{ lbs/mmBtu} * 0.82 \text{ mmBtu/hr} = 3.62 \text{ lbs NOx/hr}$$

$$3.62 \text{ lbs/hr} * 8760 \text{ hrs/yr} / 2000 \text{ lbs} = 15.8 \text{ tons NOx/yr}$$

Emission Limitation:

$$0.24 \text{ lb SO}_2\text{/hr}; 1.0 \text{ tons SO}_2\text{/yr}$$

Applicable Compliance Method:

Compliance shall be determined by multiplying the average gallons per hour of fuel used (per application 6/12/00) by pounds per gallon of diesel fuel (AP-42, Table 3.3-1, 10/96) and by the British thermal units per pound of diesel fuel (AP-42, Table 3.3-1, 10/96). In turn, multiply this factor by the emission factor (AP-42, Table 3.3-1, 10/96) to yield a pound per hour and then multiply this factor by 8760 hours per year and divide by 2000 pounds to yield a ton(s) per year value. No emission(s) testing is specifically required to demonstrate compliance with this emission limit but, may be requested pursuant to OAC 3745-15-04(A).

Throughput:

$$6.0 \text{ gals/hr} * 7.05 \text{ lbs/gal} * 19,300 \text{ Btus/lb} = 0.82 \text{ mmBtu/hr}$$

$$0.29 \text{ lb/mmBtu} * 0.82 \text{ mmBtu/hr} = 0.24 \text{ lb SO}_2\text{/hr}$$

$$0.24 \text{ lb/hr} * 8760 \text{ hrs/yr} / 2000 \text{ lbs} = 1.0 \text{ tons SO}_2\text{/yr}$$

Emission Limitation:

$$0.78 \text{ lb CO/hr}; 3.4 \text{ tons CO/yr}$$

Applicable Compliance Method:

Compliance shall be determined by multiplying the average gallons per hour of fuel used (per application 6/12/00) by pounds per gallon of diesel fuel (AP-42, Table 3.3-1, 10/96) and by the British thermal units per pound of diesel fuel (AP-42, Table 3.3-1, 10/96). In turn, multiply this factor by the emission factor (AP-42, Table 3.3-1, 10/96) to yield a pound per hour and then multiply this factor by 8760 hours per year and divide by 2000 pounds to yield a ton(s) per year value. No emission(s) testing is specifically required to demonstrate compliance with this emission limit but, may be requested pursuant to OAC 3745-15-04(A).

Throughput:

$$6.0 \text{ gals/hr} * 7.05 \text{ lbs/gal} * 19,300 \text{ Btus/lb} = 0.82 \text{ mmBtu/hr}$$

$$0.95 \text{ lb/mmBtu} * 0.82 \text{ mmBtu/hr} = 0.78 \text{ lb CO/hr}$$

$$0.78 \text{ lb/hr} * 8760 \text{ hrs/yr} / 2000 \text{ lbs} = 3.4 \text{ tons CO/yr}$$

Emission Limitation:

0.29 lb VOC's/hr; 1.3 tons VOC's/yr

Applicable Compliance Method:

Compliance shall be determined by multiplying the average gallons per hour of fuel used (per application 6/12/00) by pounds per gallon of diesel fuel (AP-42, Table 3.3-1, 10/96) and by the British thermal units per pound of diesel fuel (AP-42, Table 3.3-1, 10/96). In turn, multiply this factor by the emission factor (AP-42, Table 3.3-1, 10/96) to yield a pound per hour and then multiply this factor by 8760 hours per year and divide by 2000 pounds to yield a ton(s) per year value. No emission(s) testing is specifically required to demonstrate compliance with this emission limit but, may be requested pursuant to OAC 3745-15-04(A).

Throughput:

$6.0 \text{ gals/hr} * 7.05 \text{ lbs/gal} * 19,300 \text{ Btus/lb} = 0.82 \text{ mmBtu/hr}$
 $0.35 \text{ lb/mmBtu} * 0.82 \text{ mmBtu/hr} = 0.29 \text{ lb VOC's/hr}$
 $0.29 \text{ lb/hr} * 8760 \text{ hrs/yr} / 2000 \text{ lbs} = 1.3 \text{ tons VOC's/yr}$

Emission Limitation:

Visible Particulate emissions shall not exceed 20 percent opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1). No emission(s) testing is specifically required to demonstrate compliance with this emission limit but, may be requested pursuant to OAC 3745-15-04(A).

F. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-35-07(B)(2), terms and conditions A-F of this permit to operate shall be federally enforceable. The applicant has requested that such restrictions, as specified in OAC rule 3745-35-07(C), be imposed in order to limit the potential to emit.

NEW SOURCE REVIEW FORM B

PTI Number: 01-08203 Facility ID: 0125042439

FACILITY NAME Jones Topsoil

FACILITY DESCRIPTION Front end loaders and trucks, mineral extraction. CITY/TWP Columbus

SIC CODE 0181 SCC CODE 3-05-010-30 EMISSIONS UNIT ID F001

EMISSIONS UNIT DESCRIPTION Mineral extraction and material handling

DATE INSTALLED

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

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter			4.4		4.4
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? 40 CFR Part 60, Subpart OOO NESHAP? PSD? OFFSET POLICY?

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

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

TOXIC AIR CONTAMINANTS

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

AIR TOXICS MODELING PERFORMED*? YES X NO

IDENTIFY THE AIR CONTAMINANTS:

NEW SOURCE REVIEW FORM B

PTI Number: 01-08203

Facility ID: 0125042439

FACILITY NAME Jones Topsoil

FACILITY DESCRIPTION Paved/unpaved roadways and parking areas CITY/TWP Columbus

Emissions Unit ID: F007

SIC CODE 0181

SCC CODE 3-05-010-90

EMISSIONS UNIT ID F002

EMISSIONS UNIT DESCRIPTION Paved roadways and parking areas

DATE INSTALLED

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

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

APPLICABLE FEDERAL RULES:

NSPS? 40 CFR Part 60, Subpart OOO

NESHAP?

PSD?

OFFSET POLICY?

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

Enter Determination - Wet suppression

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

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

TOXIC AIR CONTAMINANTS

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

AIR TOXICS MODELING PERFORMED*? YES X NO

IDENTIFY THE AIR CONTAMINANTS:

NEW SOURCE REVIEW FORM B

PTI Number: 01-08203

Facility ID: 0125042439

FACILITY NAME Jones Topsoil

FACILITY DESCRIPTION Tonsoil storage piles and load-in and

CITY/TWP Columbus

Emissions Unit ID: **F007**

SIC CODE 0181

SCC CODE 3-05-010-49

EMISSIONS UNIT ID F003

EMISSIONS UNIT DESCRIPTION Load-in/load-out storage piles and wind erosion from storage piles

DATE INSTALLED

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

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter			17.8		17.8
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? 40 CFR Part 60, Subpart 000

NESHAP?

PSD?

OFFSET POLICY?

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

Enter Determination - Wet suppression

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

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

TOXIC AIR CONTAMINANTS

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

AIR TOXICS MODELING PERFORMED*? YES X NO

IDENTIFY THE AIR CONTAMINANTS:

NEW SOURCE REVIEW FORM B

PTI Number: 01-08203

Facility ID: 0125042439

FACILITY NAME Jones Topsoil

FACILITY DESCRIPTION Front end loaders and trucks. mineral

CITY/TWP Columbus

Emissions Unit ID: **F007**

SIC CODE 0181

SCC CODE 3-05-020-06

EMISSIONS UNIT ID F004

EMISSIONS UNIT DESCRIPTION Portable processing plant #1: feeder, crusher, and conveyors

DATE INSTALLED

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

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	crushing conveying and material handling		7.3 17.1		7.3 17.1
PM ₁₀			1.1		1.1
Sulfur Dioxide			1.0		1.0
Organic Compounds			1.3		1.3
Nitrogen Oxides			15.8		15.8
Carbon Monoxide			3.4		3.4
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? 40 CFR Part
60, Subpart 000

NESHAP?

PSD?

OFFSET POLICY?

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

Enter DeterminationIS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

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

TOXIC AIR CONTAMINANTS

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

AIR TOXICS MODELING PERFORMED*? _____ YES X NO

IDENTIFY THE AIR CONTAMINANTS: _____

NEW SC

PTI Num

FACILITY

Emissions Unit ID: **F007** _____

FACILITY DESCRIPTION Front end loaders and trucks, mineral extraction.

CITY/TWP Columbus

SIC CODE 0181 SCC CODE 3-05-020-06 EMISSIONS UNIT ID F005

EMISSIONS UNIT DESCRIPTION Portable processing plant #2: feeder, crusher, and conveyors

DATE INSTALLED _____

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

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	crushing conveying and handling		4.5 10.5		4.5 10.5
PM ₁₀			1.1		1.1
Sulfur Dioxide			1.0		1.0
Organic Compounds			1.3		1.3
Nitrogen Oxides			15.8		15.8
Carbon Monoxide			3.4		3.4
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? 40 CFR Part 60, Subpart 000

NESHAP?

PSD?

OFFSET POLICY?

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

Enter Determination

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

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

TOXIC AIR CONTAMINANTS

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

AIR TOXICS MODELING PERFORMED*? _____ YES X NO

IDENTIFY THE AIR CONTAMINANTS: _____

NEW SOURCE REVIEW FORM B

PTI Number: 01-08203

Facility ID: 0125042439

FACILITY NAME Jones Topsoil

FACILITY DESCRIPTION Front end loaders and trucks. mineral

CITY/TWP Columbus

Emissions Unit ID: **F007**

SIC CODE 0181

SCC CODE 3-05-020-06

EMISSIONS UNIT ID F006

EMISSIONS UNIT DESCRIPTION Portable processing plant #3: feeder, crusher, and conveyors

DATE INSTALLED

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

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	crushing conveying and handling		4.5 10.5		4.5 10.5
PM ₁₀			1.1		1.1
Sulfur Dioxide			1.0		1.0
Organic Compounds			1.3		1.3
Nitrogen Oxides			15.8		15.8
Carbon Monoxide			3.4		3.4
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? 40 CFR Part
60, Subpart 000

NESHAP?

PSD?

OFFSET POLICY?

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

Enter DeterminationIS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

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

TOXIC AIR CONTAMINANTS

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

AIR TOXICS MODELING PERFORMED*? _____ YES X NO

IDENTIFY THE AIR CONTAMINANTS: _____

NEW SOURCE REVIEW FORM B

PTI Number: 01-08203

Facility ID: 0125042439

FACILITY NAME Jones Topsoil

FACILITY DESCRIPTION Front end loaders and trucks. mineral

CITY/TWP Columbus

Emissions Unit ID: **F007**

SIC CODE 0181

SCC CODE 3-05-020-06

EMISSIONS UNIT ID F007

EMISSIONS UNIT DESCRIPTION Portable processing plant #4: feeder, crusher, and conveyors

DATE INSTALLED

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

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	crushing conveying and handling		4.5 10.5		4.5 10.5
PM ₁₀			1.1		1.1
Sulfur Dioxide			1.0		1.0
Organic Compounds			1.3		1.3
Nitrogen Oxides			15.8		15.8
Carbon Monoxide			3.4		3.4
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? 40 CFR Part
60, Subpart 000

NESHAP?

PSD?

OFFSET POLICY?

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

Enter DeterminationIS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

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

TOXIC AIR CONTAMINANTS

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

AIR TOXICS MODELING PERFORMED*? _____ YES X NO

IDENTIFY THE AIR CONTAMINANTS: _____

PTI Num

FACILITY

Emissions Unit ID: **F007** _____FACILITY DESCRIPTION Front end loaders and trucks, mineral
extraction.

CITY/TWP Columbus

Ohio EPA Permit to Install Information Form Please describe below any documentation which is being submitted with this recommendation (must be sent the same day). Electronic items should be submitted with the e-mail transmitting the PTI terms, and in software that CO can utilize. If mailing any hard copy, this section must be printed as a cover page. All items must be clearly labeled indicating the PTI name and number. Submit **hard copy items to Pam McGraner, AQM&P, DAPC, Central Office, and electronic files to airpti@epa.state.oh.us**

Please fill out the following. If the checkbox does not work, replace it with an 'X'

	<u>Electronic</u>	<u>Additional information File Name Convention (your PTI # plus this letter)</u>	<u>Hard Copy</u>	<u>None</u>
<u>Calculations (required)</u>	<input checked="" type="checkbox"/>	000000c.wpd	<input type="checkbox"/>	
<u>Modeling form/results</u>	<input type="checkbox"/>	000000s.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>PTI Application (complete or partial)*</u>	<input type="checkbox"/>	000000a.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>BAT Study</u>	<input type="checkbox"/>	000000b.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Other/misc.</u>	<input type="checkbox"/>	000000t.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>

* Mandatory for netting, PSD, nonattainment NSR, 112(g), 21-07(G)(9)(g) and 21-09(U)(2)(f) - 2 complete copies.

Please complete (see comment bubble to the left for additional instructions):

NSR Discussion

Jones Fuel Company is pursuing a topsoil operation at the 4700 block along South High Street, Franklin County, Columbus, Ohio. The proposed topsoil operation will take place on property owned by the Olen Corporation and will be adjacent to an asphalt plant operated by the Olen Corporation. The PTI is for mineral extraction, haul roads, storage piles, and four (4) portable aggregate processing plants.

The operation will comprise seven (7) emission units. The site is located in an Appendix A area and is, therefore subject to OAC rules 3745-17-07 and 3745-0-17-08. However, these two rules often do not apply because they are less stringent than OAC rule 3745-31-05 (A)(3). 40 CFR, Part 60, Subpart OOO (NSPS) rules do apply due to the crushing operations located at the four (4) portable aggregate processing plants.

Water trucks, chemical suppression, sweeping, speed control and housekeeping are required as BAT.

All annual maximum capacities are taken from the application and based on either maximum rated capacity or physical limitations of the portable plants.

The following calculations are specific to each type of operation:

F001: Mineral extraction/material handling

9 NEW SOURCE REVIEW FORM B

PTI Number: 01-08203

Facility ID: 0125042439

FACILITY NAME Jones Topsoil

FACILITY DESCRIPTION Front end loaders and trucks. mineral

CITY/TWP Columbus

Emissions Unit ID: **F007**

Assumptions/emission factors: Area stripping = 0.004 lb/ton of overburden removed (RACM, Table 2.1.4-3);
 Unloading = 0.04 lb/ton of topsoil (AP42, Table 11.9-4, 7/98);
 Maximum tons per year (TPY) removed = 200,000 (application, 6/12/00);
 Inherent moisture > 1.5%;
 Topsoil removal: 0.004 lb/ton * 200,000 tons/yr / 2,000 lbs/ton = 0.4 TPY TSP; and
 Topsoil loading: 0.04 lb/ton * 200,000 tons/yr / 2,000 lbs/ton = 4.0 TPY TSP

F002: Paved/unpaved roadways and parking areas

Assumptions/emission factors: Roadways - Paved = 1600', 8,061 vehicle miles traveled (VMT); Unpaved = 4800', 24,182 VMT;
 Unpaved parking area = 150', 1,000 VMT;
 Maximum production = 200,000 TPY;
 Average load rate = 15 tons; and
 Light duty gasoline-type vehicles for the unpaved parking area

Paved entrance road: $0.077 * I * 4/N * S/10 * L/1,000 * (W/3)^{0.7} = \text{lb/VMT TSP (AP 42, 13.2.1.3, table 13.2-1.1, 10/97)}$

$$I = 2.0 \quad N = 2 \quad S = 7.1 \quad L = 7,100 \quad W = 25$$

$$0.077 * 2.0 * 4/2 * 7.1/10 * 7,100/1,000 * (25/3)^{0.7} = 6.85 \text{ lbs/VMT}$$

$$6.85 * 8,061 * 1/2,000 * (1000-70)/100 = 8.3 \text{ TPY TSP}$$

Unpaved service road: $K * 5.9 * s/12 * S/30 * (W/3)^{0.7} * (w/4)^{0.5} * (365 - P)/365 = \text{lb/VMT (AP 42, 13.2.2-4, 9/98)}$

$$K = 0.80 \quad s = 9.6 \quad S = 10 \quad W = 25 \quad w = 10 \quad P = 130$$

$$0.80 * 5.9 * 9.6/12 * 10/30 * (25/3)^{0.7} * (10/4)^{0.5} * (365 - 130)/365 = 5.56$$

lbs/VMT TSP

$$5.56 * 24,182 * 1/2,000 * (100-70)/100 = 20.2 \text{ TPY TSP}$$

Unpaved parking area: $K * 5.9 * s/12 * S/30 * (W/3)^{0.7} * (w/4)^{0.5} * (365 - P)/365 = \text{lb/VMT (AP 42, 13.2.2-4)}$

$$K = 0.80 \quad s = 4.8 \quad S = 10 \quad W = 2 \quad w = 4 \quad P = 130$$

$$0.80 * 5.9 * 4.8/12 * 10/30 * (2/3)^{0.7} * (4/4)^{0.5} * (365 - P)/365 = 0.30 \text{ lb/VMT}$$

$$0.30 * 1,000 * 1/2,000 * (100-70)/100 = 0.02 \text{ TPY TSP}$$

F003: Crushed soil storage piles (load-in , load-out and wind erosion from storage piles)

Assumptions/emission factors: Maximum production = 200,000 TPY;
 Silt content = 9.2; and
 Acres of surface area = 4.00

NEW SOURCE REVIEW FORM B

PTI Number: 01-08203

Facility ID: 0125042439

FACILITY NAME Jones Topsoil

FACILITY DESCRIPTION Front end loaders and trucks. mineral

CITY/TWP Columbus

Emissions Unit ID: **F007**

Storage piles - loading: $K * 0.0032 * (U/5)^{1.3} / (M/2)^{1.4} = \text{lb/ton}$ (AP 42, 13.2.4, 1/95)
 $K = 0.74 \text{ TSP}$ $U = 8.7 \text{ MPH}$ $M = 14\% \text{ moisture content of topsoil}$
 $0.74 * 0.0032 * (8.7/5)^{1.3} / (14.0/2)^{1.4} = 0.018 \text{ lb/ton TSP}$
 $0.018 \text{ lb/ton} * 200,000 \text{ ton/yr} * 1/2,000 \text{ lbs/ton} = 1.8 \text{ TPY TSP}$

Wind erosion: $1.79 * S/1.5 * (365-P) / 235 * 30/15 = \text{lb/day acre}$ (AP 42, 13.2.4, 1/95)
 $1.79 * 9.2/1.5 * (365-130) / 235 * 30/15 = 21.96 \text{ lbs/day/acre}$
 $21.96 \text{ lbs/day acre} * 4.00 \text{ acres} * 365 \text{ days/yr} * 1/2,000 \text{ lbs/ton} = 16.0 \text{ TPY TSP}$

F004 - Portable processing plant #1:

Crushing - 60 tons per hour primary crusher (CR1 Hammermill/Shredder)

Assumptions/Emission Factors (AP 42 11.19.2, 1/95):

Potential To Emit (PTE) - Tons per year based on 8,760 hours;

Maximum production - 50,000 TPY @ 325 TPH;

Crushing: 0.0024 lb/ton PM-10;

PM-10 factor * 2.11 = TSP; and

Moisture content > 1.5%;

 $0.0024 * 2.11 = 0.0051 \text{ lb ton TSP}$ $0.0051 \text{ lb/ton} * 325 \text{ TPH} * 8,760 \text{ hours} * 1 * 1/2,000 \text{ lbs/ton} = 7.3 \text{ TPY TSP}$

Conveying and handling - feeders, conveying points, and transfer points

Assumptions/Emission Factors (AP 42 11.19.2, 1/95):

Potential To Emit (PTE) - Tons per year based on 8,760 hours;

Maximum production - 50,000 TPY @ 325 TPH;

Conveyor transfer point: 0.0014 lb/ton PM-10;

PM-10 factor * 2.11 = TSP; and

Egress points #2 thru #5

 $0.0014 * 2.11 = 0.0030 \text{ lb/ton TSP}$ $0.0030 \text{ lb/ton} * 325 \text{ TPH} * 8,760 \text{ hours} * 4 * 1/2,000 \text{ lbs/ton} = 17.1 \text{ TPY TSP}$

0.82 mmBtu/hr No.2 Diesel Engine for 60 tph mobile soil crusher

Assumptions/Emission factors (AP 42 Table 3.3-1, 10/96)

PM-10: 0.31 lb/mmBtu;

SO2: 0.29 lb/mmBtu;

NOx: 4.41 lb/mmBtu;

VOC: 0.35 lb/mmBtu;

FACILITY DESCRIPTION Front end loaders and trucks, mineral
extraction.

CITY/TWP Columbus

CO: 0.95 lb/mmBtu; and
 Diesel fuel - 19,300 Btu/lb; 7.05 lbs/gal
 Throughput (PTE): $6.0 \text{ gal/hr} * 7.05 \text{ lb/gal} * 19,300 \text{ Btu/lb} = 0.82 \text{ mmBtu/hr}$
 $0.82 \text{ mmBtu/hr} * 8,760 \text{ hrs/yr} = 7183.2 \text{ mmBtu/yr}$
 PM-10: $0.31 \text{ lb/mmBtu} * 7183.2 \text{ mmBtu/yr} * 1/2,000 \text{ lbs/ton} = 1.1 \text{ TPY}$
 SO₂: $0.29 \text{ lb/mmBtu} * 7183.2 \text{ mmBtu/yr} * 1/2,000 \text{ lbs/ton} = 1.0 \text{ TPY}$
 NO_x: $4.41 \text{ lbs/mmBtu} * 7183.2 \text{ mmBtu/yr} * 1/2,000 \text{ lbs/ton} = 15.8 \text{ TPY}$
 VOC: $0.35 \text{ lb/mmBtu} * 7183.2 \text{ mmBtu/yr} * 1/2,000 \text{ lbs/ton} = 1.3 \text{ TPY}$
 CO: $0.95 \text{ lb/mmBtu} * 7183.2 \text{ mmBtu/yr} * 1/2,000 \text{ lbs/ton} = 3.4 \text{ TPY}$

F005 - Portable processing plant #2:

Crushing - 60 tons per hour primary crusher (CR1 Hammermill/Shredder)

Assumptions/Emission Factors (AP 42 11.19.2, 1/95):

Potential To Emit (PTE) - Tons per year based on 8,760 hours;

Maximum production - 50,000 TPY @ 200 TPH;

Crushing: 0.0024 lb/ton PM-10;

PM-10 factor * 2.11 = TSP; and

Moisture content > 1.5%;

$0.0024 * 2.11 = 0.0051 \text{ lb ton TSP}$

$0.0051 \text{ lb/ton} * 200 \text{ TPH} * 8,760 \text{ hours} * 1 * 1/2,000 \text{ lbs/ton} = 4.5 \text{ TPY TSP}$

Conveying and handling - feeders, conveying points, and transfer points

Assumptions/Emission Factors (AP 42 11.19.2, 1/95):

Potential To Emit (PTE) - Tons per year based on 8,760 hours;

Maximum production - 50,000 TPY @ 325 TPH;

Conveyor transfer point: 0.0014 lb/ton PM-10;

PM-10 factor * 2.11 = TSP; and

Egress points #2 thru #5

$0.0014 * 2.11 = 0.0030 \text{ lb/ton TSP}$

$0.0030 \text{ lb/ton} * 200 \text{ TPH} * 8,760 \text{ hours} * 4 * 1/2,000 \text{ lbs/ton} = 10.5 \text{ TPY TSP}$

0.82 mmBtu/hr No.2 Diesel Engine for 60 tph mobile soil crusher

Assumptions/Emission factors (AP 42 Table 3.3-1, 10/96)

PM-10: 0.31 lb/mmBtu;

SO₂: 0.29 lb/mmBtu;

FACILITY DESCRIPTION Front end loaders and trucks, mineral
extraction.

CITY/TWP Columbus

NOx: 4.41 lb/mmBtu;
 VOC: 0.35 lb/mmBtu;
 CO: 0.95 lb/mmBtu; and
 Diesel fuel - 19,300 Btu/lb; 7.05 lbs/gal
 Throughput (PTE): 6.0 gal/hr * 7.05 lb/gal * 19,300 Btu/lb = 0.82 mmBtu/hr
 0.82 mmBtu/hr * 8,760 hrs/yr = 7183.2 mmBtu/yr
 PM-10: 0.31 lb/mmBtu * 7183.2 mmBtu/yr * 1/2,000 lbs/ton = 1.1 TPY
 SO2: 0.29 lb/mmBtu * 7183.2 mmBtu/yr * 1/2,000lbs/ton = 1.04 TPY
 NOx: 4.41 lbs/mmBtu * 7183.2 mmBtu/yr * 1/2,000lbs/ton = 15.8 TPY
 VOC: 0.35 lb/MMBTU * 7183.2 mmBtu/yr * 1/2,000 lbs/ton = 1.3 TPY
 CO: 0.95 lb/mmBtu * 7183.2 mmBtu/yr * 1/2,000 lbs/ton = 3.4 TPY

F006 - Portable processing plant #3:

Crushing - 60 tons per hour primary crusher (CR1 Hammermill/Shredder)

Assumptions/Emission Factors (AP 42 11.19.2, 1/95):

Potential To Emit (PTE) - Tons per year based on 8,760 hours;

Maximum production - 50,000 TPY @ 200 TPH;

Crushing: 0.0024 lb/ton PM-10;

PM-10 factor * 2.11 = TSP; and

Moisture content > 1.5%;

0.0024 * 2.11 = 0.0051 lb ton TSP

0.0051 lb/ton * 200 TPH * 8,760 hours * 1 * 1/2,000 lbs/ton = 4.5 TPY TSP

Conveying and handling - feeders, conveying points, and transfer points

Assumptions/Emission Factors (AP 42 11.19.2, 1/95):

Potential To Emit (PTE) - Tons per year based on 8,760 hours;

Maximum production - 50,000 TPY @ 325 TPH;

Conveyor transfer point: 0.0014 lb/ton PM-10;

PM-10 factor * 2.11 = TSP; and

Egress points #2 thru #5

0.0014 * 2.11 = 0.0030 lb/ton TSP

0.0030 lb/ton * 200 TPH * 8,760 hours * 4 * 1/2,000 lbs/ton = 10.5 TPY TSP

0.82 mmBtu/hr No.2 Diesel Engine for 60 tph mobile soil crusher

NEW SOURCE REVIEW FORM B

PTI Number: 01-08203

Facility ID: 0125042439

FACILITY NAME Jones Topsoil

FACILITY DESCRIPTION Front end loaders and trucks. mineral

CITY/TWP Columbus

Emissions Unit ID: **F007**

Assumptions/Emission factors (AP 42 Table 3.3-1, 10/96)

PM-10: 0.31 lb/mmBtu;

SO₂: 0.29 lb/mmBtu;NO_x: 4.41 lb/mmBtu;

VOC: 0.35 lb/mmBtu;

CO: 0.95 lb/mmBtu; and

Diesel fuel - 19,300 Btu/lb; 7.05 lbs/gal

Throughput (PTE): 6.0 gal/hr * 7.05 lb/gal * 19,300 Btu/lb = 0.82 mmBtu/hr

0.82 mmBtu/hr * 8,760 hrs/yr = 7183.2 mmBtu/yr

PM-10: 0.31 lb/mmBtu * 7183.2 mmBtu/yr * 1/2,000 lbs/ton = 1.1 TPY

SO₂: 0.29 lb/mmBtu * 7183.2 mmBtu/yr * 1/2,000 lbs/ton = 1.04 TPYNO_x: 4.41 lbs/mmBtu * 7183.2 mmBtu/yr * 1/2,000 lbs/ton = 15.8 TPY

VOC: 0.35 lb/MMBTU * 7183.2 mmBtu/yr * 1/2,000 lbs/ton = 1.3 TPY

CO: 0.95 lb/mmBtu * 7183.2 mmBtu/yr * 1/2,000 lbs/ton = 3.4 TPY

F007 - Portable processing plant #4:

Crushing - 60 tons per hour primary crusher (CR1 Hammermill/Shredder)

Assumptions/Emission Factors (AP 42 11.19.2, 1/95):

Potential To Emit (PTE) - Tons per year based on 8,760 hours;

Maximum production - 50,000 TPY @ 200 TPH;

Crushing: 0.0024 lb/ton PM-10;

PM-10 factor * 2.11 = TSP; and

Moisture content > 1.5%

0.0024 * 2.11 = 0.0051 lb ton TSP

0.0051 lb/ton * 200 TPH * 8,760 hours * 1 * 1/2,000 lbs/ton = 4.5 TPY TSP

Conveying and handling - feeders, conveying points, and transfer points

Assumptions/Emission Factors (AP 42 11.19.2, 1/95):

Potential To Emit (PTE) - Tons per year based on 8,760 hours;

Maximum production - 50,000 TPY @ 325 TPH;

Conveyor transfer point: 0.0014 lb/ton PM-10;

PM-10 factor * 2.11 = TSP; and

Egress points #2 thru #5

0.0014 * 2.11 = 0.0030 lb/ton TSP

0.0030 lb/ton * 200 TPH * 8,760 hours * 4 * 1/2,000 lbs/ton = 10.5 TPY TSP

PTI Num

FACILITY

Emissions Unit ID: F007

FACILITY DESCRIPTION Front end loaders and trucks, mineral extraction.

CITY/TWP Columbus

0.82 mmBtu/hr No.2 Diesel Engine for 60 tph mobile soil crusher

Assumptions/Emission factors (AP 42 Table 3.3-1, 10/96)

PM-10: 0.31 lb/mmBtu;

SO2: 0.29 lb/mmBtu;

NOx: 4.41 lb/mmBtu;

VOC: 0.35 lb/mmBtu;

CO: 0.95 lb/mmBtu; and

Diesel fuel - 19,300 Btu/lb; 7.05 lbs/gal

Throughput (PTE): 6.0 gal/hr * 7.05 lb/gal * 19,300 Btu/lb = 0.82 mmBtu/hr

0.82 mmBtu/hr * 8,760 hrs/yr = 7183.2 mmBtu/yr

PM-10: 0.31 lb/mmBtu * 7183.2 mmBtu/yr * 1/2,000 lbs/ton = 1.1 TPY

SO2: 0.29 lb/mmBtu * 7183.2 mmBtu/yr * 1/2,000lbs/ton = 1.04 TPY

NOx: 4.41 lbs/mmBtu * 7183.2 mmBtu/yr * 1/2,000lbs/ton = 15.8 TPY

VOC: 0.35 lb/MMBTU * 7183.2 mmBtu/yr * 1/2,000 lbs/ton = 1.3 TPY

CO: 0.95 lb/mmBtu * 7183.2 mmBtu/yr * 1/2,000 lbs/ton = 3.4 TPY

Please complete for these type permits (For PSD/NSR Permit, place mouse over this text):

[] Synthetic Minor Determination and/or [] Netting Determination Permit To Install ENTER PTI NUMBER HERE

A. Source Description

B. Facility Emissions and Attainment Status

C. Source Emissions

D. Conclusion

PLEASE PROVIDE ADDITIONAL NOTES OR COMMENTS AS NECESSARY:

NONE

Please complete:

SUMMARY (for informational purposes only) TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS Pollutant Tons Per Year

FACILITY DESCRIPTION	CITY/TWP	Columbus
Front end loaders and trucks, mineral extraction.		
TSP (F001:mineral extraction/material handling)	4.4	
TSP (F003:storage piles)	17.8	
TSP (F004: crushing)	7.3	
TSP (F005-F007: crushing)	4.5	
TSP (F004: conveying and handling)	17.1	
TSP (F005-F007: conveying and handling)	10.5	
PM-10 (F004-F007)	1.1	
NOx (F004-F007)	15.8	
SO2 (F004-F007)	1.0	
CO (F004-F007)	3.4	
VOC (F004-F007)	1.3	