

PROCESS DESCRIPTION

This permit to install is for a portable crusher and screen of 150 tons per hour maximum rated capacity. F004 equipment does not qualify as a NSPS Subpart OOO source(greater than 150 tph). Roadways(F005) and storage piles (F006) will be permitted separately per Engineering guide 25. Tons per year limits have been calculated for the PTI but will not generally appear in the PTO for roads and parking areas, per the PTO templates.

B.A.T. DETERMINATION

F004: B.A.T. is 10 % opacity from any transfer point on belt conveyors, and 15% opacity from any crusher.

F005: Water & treatment of roadways and parking areas

F006: Water application during pile formation, Wind Screen

APPLICABLE RULES & REGULATIONS

3745-31-05 Criteria for decision by the director (BAT)

3745-17-07 Control of visible particulate emissions from stationary sources

CALCULATIONS

Done in Quattro pro (attached hardcopy)

Permit Allowable Emissions (equal to PTE)

F004 PM10 1.84 ton/year, 0.42 lb/hr

F005 PM10 0.34 ton/year

F006 PM10 0.6 ton/ year

Actual Emissions

F004 PM10 .28 ton/year ,0.42 lb/hr

F005 PM10 0.06 ton/year

F006 PM10 0.08 ton/year

FEES

F004 - 1 Source, process weight rate > 50,000 lb/hr @ \$1000 = \$1000

F005 - 1 source Roadways (minimum process fee) = \$200

F006 1 source Storage piles (minimum process fee) = \$200

Total = \$1,400

AIR EMISSION SUMMARY

The air contaminant sources listed below comprise the Permit to Install for Adrian Sand & Stone located in Lucas County. The sources listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability

of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

Ohio EPA Source Number	Source Identification/Description	BAT Determination	Applicable Federal and OAC Rules	Permit Allowable Mass Emissions and/or Control & Usage Requirements
F004	150 TPH portable crusher & screen/Travels with F005&F006	Opacity limits. Water spray or wet suppression	3745-31-05 3745-17-07(B) 3745-17-08(B)	PM10: 0.42 lb/hr, 1.85 tons/yr 15% opacity from any crusher. 10 % opacity from any transfer point on belt conveyors. *See Below *See Below
F005	Roadways & Parking Areas	Use of water and or suitable dust suppressants, 5MPH limit	3745-31-05 3745-17-07(B) (5) 3745-17-08(B)	0.34 ton/yr no visible particulate emissions except for 13 minutes during any 60 minute period, 5 MPH vehicle speed limit Use of water and or suitable dust suppressants sufficient to minimize or eliminate visible emissions of fugitive dust
F006	Storage Piles	Use of water and or suitable dust suppressants Wind Screens	3745-31-05 3745-17-07(B) (6) 3745-17-08(B)	0.6 ton/yr PM10 no visible particulate emissions except for 13 minutes during any 60 minute period Use of water and or suitable dust suppressants sufficient to minimize or eliminate visible emissions of fugitive dust

* The limitations established in these rules is less stringent than BAT.

SUMMARY
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
PM10	2.79



Special Terms & Conditions

F004 Stone Crusher

A. ADDITIONAL TERMS AND CONDITIONS

none

B. OPERATIONAL RESTRICTIONS

1. Use of water spray or wet suppression system when operating.

C. MONITORING AND/OR RECORD KEEPING REQUIREMENTS

1. The permittee shall record any time of operation when wet suppression or water spray was not used to control fugitive particulate emissions for this emissions unit.

D. REPORTING REQUIREMENTS

1. The permittee shall report any occurrences of when wet suppression or water spray was not used during the operation of the emissions unit to the Division of Environmental Services no later than 15 days of the occurrence.

E. COMPLIANCE DEMONSTRATION/TESTING REQUIREMENTS

1. Compliance with the emission limitation(s) in this permit shall be determined in accordance with the following method(s):

a. Emissions Limitation: PM10- 0.42 pounds per hour
Applicable Compliance Method: Compliance is demonstrated by the use of water spray or wet suppression system.

b. Emissions Limitation: PM10- 1.85 tons per year
Applicable Compliance Method: Compliance is demonstrated by the use of water spray or wet suppression system.

c. Emissions Limitation: 15% opacity from any crusher
Applicable Compliance Method: USEPA Method 22

d. Emissions Limitation: 10% opacity from transfer points
Applicable Compliance Method: USEPA Method 22

F005 Roadways & Parking Areas

A. ADDITIONAL TERMS AND CONDITIONS

1. The permittee shall employ reasonably available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved roadways and parking areas with water or suitable dust suppressant at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
2. 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 an 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.
3. 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 using appropriate dust control measures 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 specified in OAC rule 3745-17-07(B)(4).
4. 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.
5. 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.
6. 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 3745-17-08.
7. Posting and enforcing 5 MPH speed limit on all unpaved parking areas and roadways.

B. OPERATIONAL RESTRICTIONS

none

C. MONITORING AND/OR RECORD KEEPING REQUIREMENTS

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

unpaved roadways

All

minimum inspection frequency

Daily

unpaved parking areas

All

minimum inspection frequency

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 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. COMPLIANCE DEMONSTRATION/TESTING REQUIREMENTS

1. Compliance with the emission limitation for the 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

F006 Storage Piles

A. ADDITIONAL TERMS AND CONDITIONS

none

B. OPERATIONAL RESTRICTIONS

none

C. MONITORING AND/OR RECORD KEEPING REQUIREMENTS

none

D. REPORTING REQUIREMENTS

none

E. COMPLIANCE DEMONSTRATION/TESTING REQUIREMENTS

1. Compliance with the emission limitation(s) in this permit shall be determined in accordance with the following method(s):

a. Emissions Limitation: No visible particulate emissions except for 13 minutes during any 60 minute period.

Applicable Compliance Method: USEPA Method 22

b. Emissions Limitation: 0.6 ton PM10/yr

Applicable Compliance Method: Compliance is demonstrated by use of wind screens and water spray or wet suppression system.

NEW SOURCE REVIEW FORM B

(REVISED 5/1/89)

PTI NUMBER 04-1129 PREMISE NO. 0448041036

FACILITY NAME Portable Sylvania Plant (Adrian Sand & Stone) COUNTY Lucas

FACILITY DESCRIPTION 150 TPH Portable Crushing Plant CITY/TWP Sylvania

SIC CODE 1422 SCC CODE 3-05-020

SOURCE DESCRIPTION 150 TPH Portable crusher, screen & conveyors

START-UP DATE Upon Issue of PTI

Pollutants	Air Quality Designation	Actual Emissions		PTI Allowable Emissions	
		lb/hr	TPY	lb/hr, etc.	TPY
Particulate Matter	N/A				
PM₁₀	Unclassified	0.42	1.84	0.42	0.28
Sulfur Dioxide					
Organic Compounds	Attainment				
Nitrogen Oxides	Attainment				
Carbon Monoxide					
Lead	Attainment				
Other: Air Toxics (See Other Side)	Unclassified				

APPLICABLE FEDERAL RULES: NSPS NESHAPS PSD OFFSET POLICY

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

Opacity Limits, Use of Water Spray or Wet Suppression.

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

PERSON COMPLETING FORM Adam Zolciak DATE 5-28-98

*IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? YES X NO
 ((If yes, turn to other side and complete "Toxic Air Contaminants" Section)

NEW SOURCE REVIEW FORM B

(REVISED 5/1/89)

PTI NUMBER 04-1129 PREMISE NO. 0448041036

FACILITY NAME Portable Sylvania Plant (Adrian Sand & Stone) COUNTY Lucas

FACILITY DESCRIPTION 150 TPH Portable Crushing Plant CITY/TWP Sylvania

SIC CODE 1422 SCC CODE 3-05-020

SOURCE DESCRIPTION Roadways & Parking Areas

START-UP DATE Upon Issue of PTI

Pollutants	Air Quality Designation	Actual Emissions		PTI Allowable Emissions	
		lb/hr	TPY	lb/hr, etc.	TPY
Particulate Matter	N/A				
PM₁₀	Unclassified	n/a	0.06	N/a	0.34
Sulfur Dioxide					
Organic Compounds	Attainment				
Nitrogen Oxides	Attainment				
Carbon Monoxide					
Lead	Attainment				
Other: Air Toxics (See Other Side)	Unclassified				

APPLICABLE FEDERAL RULES: NSPS NESHAPS PSD OFFSET POLICY

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

Use of Water Spray or wet suppression, 5 MPH speed limit

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

PERSON COMPLETING FORM Adam Zolciak DATE 5-28-98

*IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? YES X NO
 ((If yes, turn to other side and complete "Toxic Air Contaminants" Section)

NEW SOURCE REVIEW FORM B

(REVISED 5/1/89)

PTI NUMBER 04-1129 PREMISE NO. 0448041036

FACILITY NAME Portable Sylvania Plant (Adrian Sand & Stone) COUNTY Lucas

FACILITY DESCRIPTION 150 TPH Portable Crushing Plant CITY/TWP Sylvania

SIC CODE 1422 SCC CODE 3-05-020

SOURCE DESCRIPTION Storage Piles

START-UP DATE Upon Issue of PTI

Pollutants	Air Quality Designation	Actual Emissions		PTI Allowable Emissions	
		lb/hr	TPY	lb/hr, etc.	TPY
Particulate Matter	N/A				
PM₁₀	Unclassified	n/a	0.08	N/a	0.6
Sulfur Dioxide					
Organic Compounds	Attainment				
Nitrogen Oxides	Attainment				
Carbon Monoxide					
Lead	Attainment				
Other: Air Toxics (See Other Side)	Unclassified				

APPLICABLE FEDERAL RULES: NSPS NESHAPS PSD OFFSET POLICY

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

Use of Water Spray or wet suppression

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

PERSON COMPLETING FORM Adam Zolciak DATE 5-28-98

*IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? YES NO
 ((If yes, turn to other side and complete "Toxic Air Contaminants" Section)