



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center  
122 S. Front Street  
Columbus, OH 43215

TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049  
Columbus, OH 43216-1049

**RE: FINAL PERMIT TO INSTALL  
SENECA COUNTY  
Application No: 03-16198  
Fac ID: 0374000034**

**CERTIFIED MAIL**

	TOXIC REVIEW
	PSD
	SYNTHETIC MINOR
	CEMS
	MACT
OOO	NSPS
	NESHAPS
	NETTING
	MAJOR NON-ATTAINMENT
	MODELING SUBMITTED
	GASOLINE DISPENSING FACILITY

**DATE: 7/14/2005**

Hanson Aggregates Mideast, Inc.  
Martin Jones  
9220 Portland Rd.  
Castalia, OH 44824

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

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

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

Sincerely,

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

CC: USEPA

NWDO



**Permit To Install  
Terms and Conditions**

**Issue Date: 7/14/2005  
Effective Date: 7/14/2005**

**FINAL PERMIT TO INSTALL 03-16198**

Application Number: 03-16198  
Facility ID: 0374000034  
Permit Fee: **\$1100**  
Name of Facility: Hanson Aggregates Mideast, Inc.  
Person to Contact: Martin Jones  
Address: 9220 Portland Rd.  
Castalia, OH 44824

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**4575 Seneca County Road 49  
Bloomville, Ohio**

Description of proposed emissions unit(s):  
**Modification to F001 to address the replacement of the secondary crusher, lower emission limit based on revised annual throughput and to remove portable language from F001 and roadways.**

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

## Part I - GENERAL TERMS AND CONDITIONS

### A. Permit to Install General Terms and Conditions

#### 1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

#### 2. Reporting Requirements

The permittee shall submit required reports in the following manner:

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

**5. Scheduled Maintenance/Malfunction Reporting**

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

**6. Permit Transfers**

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

**7. Air Pollution Nuisance**

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

**8. Termination of Permit to Install**

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**9. Construction of New Sources(s)**

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions

may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

**10. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

**11. Applicability**

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

**12. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

**13. Source Operation and Operating Permit Requirements After Completion of Construction**

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this

permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

#### 14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

#### 15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

### B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)  
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
PE (fugitive)	24.22

**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 - Aggregate plant with conveyors, screens and material handling operations (modification to PTI 03-13477, issued on 11/30/00 to address the replacement of the secondary crusher and lower emission limitations based on current plant configuration and revised annual throughput)	OAC rule 3745-31-05(A)(3)	6.32 tons fugitive particulate emissions (PE)/year  Visible emission restrictions (see A.2.f)  Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see A.2.a through A.2.c)
	OAC rule 3745-17-07(B)	See A.2.d
	OAC rule 3745-17-08(B)	See A.2.e
	40 CFR, Part 60, Subpart OOO	See A.2.e  Visible emission restrictions (see A.2.f)

**2. Additional Terms and Conditions**

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

aggregate processing operation

control measure(s)

loading and unloading

reduced drop height

transfer points, crushing and screening wet suppression, as needed

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

- 2.b** For each aggregate processing operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures(s) shall continue during the operation of the aggregate processing operation(s) until further observation confirms that use of the control measure(s) is unnecessary.
- 2.c** Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.
- 2.d** The requirements of this rule also include compliance with OAC rule 3745-17-07(B), OAC rule 3745-17-08(B) and CFR 40 Part 60, Subpart OOO.
- 2.e** This emission unit is exempt from the requirements of OAC rule 3745-17-08(B) pursuant to OAC rule 3745-17-08(A) and is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B)(1) pursuant to OAC rule 3745-17-07(B)(11)(e).
- 2.f** Visible particulate emissions shall comply with the following:

Emissions Point (Company ID)	Equipment Type	Opacity Limit as a six-minute average, unless otherwise specified	Regulatory Basis for Limit
front end loader to grizzly feeder	transfer point	20% opacity as a 3-minute average	OAC rule 3745-31-05
grizzly feeder to primary crusher	transfer point	15%	NSPS, Subpart OOO
primary crusher	crusher	15%	NSPS, Subpart OOO

primary crusher to pan feeder	transfer point	15%	NSPS, Subpart 000
grizzly feeder to conveyor C-1	transfer point	10%	OAC rule 3745-31-05
pan feeder to conveyor C-1	transfer point	10%	OAC rule 3745-31-05
conveyor C-1 to surge bin	transfer point	10%	OAC rule 3745-31-05
surge bin to kinergy feeder	transfer point	10%	OAC rule 3745-31-05
kinergy feeder to conveyor C-2	transfer point	10%	OAC rule 3745-31-05
conveyor C-2 to primary screen	transfer point	10%	NSPS, Subpart 000
primary screen	screen	10%	NSPS, Subpart 000
primary screen to conveyor C-2A	transfer point	10%	NSPS, Subpart 000
primary screen to conveyor C-7	transfer point	10%	NSPS, Subpart 000
primary screen to conveyor C-5A	transfer point	10%	NSPS, Subpart 000
conveyor C-5A to conveyor C-5	transfer point	10%	OAC rule 3745-31-05
conveyor C-7 to secondary crusher	transfer point	15%	NSPS, Subpart 000
secondary crusher	crusher	15%	NSPS, Subpart 000
secondary crusher to conveyor C-6	transfer point	15%	NSPS, Subpart 000
conveyor C-2A to conveyor C-3	transfer point	10%	NSPS, Subpart 000
conveyor C-2A to conveyor C-6	transfer point	10%	OAC rule 3745-31-05
conveyor C-3 to conveyor C-4	transfer point	10%	NSPS, Subpart 000
conveyor C-6 to conveyor C-8	transfer point	10%	OAC rule 3745-31-05

conveyor C-8 to secondary screen	transfer point	10%	NSPS, Subpart 000
secondary screen	screen	10%	NSPS, Subpart 000
secondary screen to conveyor C-9	transfer point	10%	NSPS, Subpart 000
conveyor C-9 to conveyor C-10	transfer point	10%	OAC rule 3745-31-05
conveyor C-10 to conveyor C-11	transfer point	10%	OAC rule 3745-31-05
secondary screen to conveyor C-12	transfer point	10%	NSPS, Subpart 000
conveyor C-12 to secondary crusher	transfer point	15%	NSPS, Subpart 000
secondary screen to conveyor C-13	transfer point	10%	NSPS, Subpart 000
conveyor C-13 to wash screen	transfer point	10%	NSPS, Subpart 000
wash screen	screen	no visible emissions	NSPS, Subpart 000
wash screen to conveyor C-14	transfer point	no visible emissions	NSPS, Subpart 000
wash screen to conveyor C-15	transfer point	no visible emissions	NSPS, Subpart 000
wash screen to conveyor C-16	transfer point	no visible emissions	NSPS, Subpart 000
conveyor C-14 to conveyor C-17	transfer point	no visible emissions	OAC rule 3745-31-05
conveyor C-15 to conveyor C-18	transfer point	no visible emissions	OAC rule 3745-31-05
conveyor C-16 to conveyor C-19	transfer point	no visible emissions	NSPS, Subpart 000
wash screen to sandscrew	transfer point	no visible emissions	NSPS, Subpart 000

sandscrew to conveyor C-20	transfer point	no visible emissions	OAC rule 3745-31-05
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**2.g** The application and enforcement of the provisions of NSPS, as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements for 40 CFR Part 60 are also federally enforceable.

**B. Operational Restrictions**

1. The maximum annual material throughput for this emissions unit shall not exceed 990,000 tons. This restriction is based on the material throughput of the feeder.

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall maintain monthly records of the amount (tons per month and total tons, to date, for the calendar year) of material processed through the feeder of this emissions unit
2. Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>Material Handling Operations</u>	<u>Minimum Inspection Frequency</u>
All	Once During Each Day of Operation

3. The above-mentioned inspections shall be performed during representative, normal operating conditions.
4. 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.
5. 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 5.d. shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

#### D. Reporting Requirements

1. The permittee shall submit annual deviation (excursion) reports that identify any exceedances of the annual material throughput limitation, as well as the corrective actions that have been taken to achieve compliance. If no deviations occurred during the calendar year, the permittee shall submit an annual report which states that no deviations occurred during the calendar year. These reports shall be submitted by January 31 of each year.
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; and
  - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

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

3. The permittee shall submit the following information for each piece of equipment that is replaced by a piece of equipment having the same function as the existing facility:
  - a. for a crusher:
    - i. the rated capacity in tons per hour of the existing facility being replaced, and
    - ii. the rated capacity in tons per hour of the replacement equipment.
  - b. for a screening operation:
    - i. the total surface area of the top screen of the existing screening operation being replaced and
    - ii. the total surface area of the top screen of the replacement screening operation.
  - c. for a conveyor belt:
    - i. the width of the existing belt being replaced, and

- ii. the width of the replacement conveyor belt.
- d. for a storage bin;
  - i. the rated capacity in tons of the existing storage bin being replaced, and
  - ii. the rated capacity in tons of the replacement storage bins.

The notification shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the equipment replacement.

### **E. Testing Requirements**

1. The permittee shall conduct, or have conducted, emission testing for the secondary crusher (cone crusher) for emissions unit F001.
2. Testing shall be conducted in accordance with the provisions of 40 CFR Part 60, Subpart A, Section 60.8 and 40 CFR Part 60, Subpart OOO, Section 60.675.
3. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility and at such other times as may be required by the Ohio Environmental Protection Agency, Division of Air Pollution Control (visible emissions readings using Method 9 of 40 CFR Part 60, Appendix A were performed on all transfer points, screens and primary crusher according to requirements established in PTI 03-13477 on October 28th and October 31st, 2002). The emission testing shall be conducted to demonstrate compliance with the allowable visible emission rates for particulate emissions.
4. The following test methods shall be employed to demonstrate compliance with the allowable visible emissions rates:
  - a. Method 9 of 40 CFR Part 60, Appendix A shall be used to determine opacity.
5. The tests shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Division of Air Pollution Control. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Division of Air Pollution Control. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operation parameters, the times and dates of the tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's air agency's refusal to accept the results of the emission tests.
6. Personnel from the Ohio EPA District Office's air agency shall be permitted to witness the test, 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 unit and /or the performance of the control equipment. A comprehensive written report on the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Division of Air Pollution Control within 30 days following completion of the tests.

7. Compliance with the emissions limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation: 6.32 tons/yr fugitive PE

Applicable Compliance Method: The emission limitation was developed by multiplying the annual maximum material throughput of 990,000 tons of material by the appropriate emissions factors in AP-42 Chapter 11.19.2-2 (1/95). Therefore, provided compliance is shown with the annual throughput limitation and the requirement to apply best available control measures, compliance with the ton per year PE limitation will be assumed.

b. Emission Limitation: 20% opacity, as a 3-minute average for front loader dumping into feeder

Applicable Compliance Method: If required, compliance shall be demonstrated using Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 (Standards of Performance for New Stationary Sources") as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

c. Emission Limitation: The permittee shall not cause to be discharged into the atmosphere from any crusher, at which a capture system is not used, fugitive emissions which exhibit greater than 15% opacity.

Applicable Compliance Method: If required, compliance shall be demonstrated using Method 9 of 40 CFR, Part 60, Appendix A, and the procedures in 40 CFR, Part 60, Subpart OOO, Section 60.675.

d. Emission Limitation: The permittee shall not cause to be discharged into the atmosphere from any transfer point or screen up to the tertiary screen (wash screen) any fugitive emissions which exhibit greater than 10% opacity.

Applicable Compliance Method: If required, compliance shall be demonstrated using Method 9 of 40 CFR, Part 60, Appendix A, and the procedures in 40 CFR, Part 60, Subpart OOO, Section 60.675.

e. Emission Limitation: The permittee shall not cause to be discharged into the atmosphere any visible emissions from the tertiary screen (wash screen) and subsequent transfer points.

Applicable Compliance Method: If required, compliance shall be demonstrated using Method 22 of 40 CFR, Part 60, Appendix A.

**F. Miscellaneous Requirements**

None

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

**A. Applicable Emissions Limitations and/or Control Requirements**

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F002 - Plant paved and unpaved roadways and parking areas (modification to PTI 03-13477, issued on 11/30/00 to remove portable language)	OAC rule 3745-31-05(A)(3)	17.90 tons fugitive PE/year  There shall be no visible particulate emissions from any unpaved roadway or parking area except for a period of time not to exceed three minutes during any 60-minute observation period, and no visible particulate emissions from any paved roadway except for a time not to exceed 1 minute during any 60- minute observation period.
	OAC Rule 3745-17-08 (B)	See A.2.a
	OAC Rule 3745-17-07 (B)	See A.2.b

**2. Additional Terms and Conditions**

- 2.a Hanson Aggregate Mideast, Inc. - Bloomville quarry is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08.
- 2.b This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
- 2.c The paved and unpaved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:

Paved Roadways:

The 0.7-mile unpaved road segment traveled by employee traffic and loader traffic, as specified in the PTI application.

Paved Parking areas:

The 3,200 square foot area segment traveled by employee traffic, as specified in the PTI application.

Unpaved Roadways:

The 1.3 mile unpaved road segment traveled by employee traffic and loader traffic, as specified in the PTI application.

Unpaved Parking Areas:

The 15,700 square foot area segment traveled by employee traffic, as specified in the PTI application.

- 2.d** The permittee shall employ best available control measures on all paved and unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved roadways and parking areas with water and/or any 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 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.
- 2.f** 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.g** 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.h** 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**

1. The permittee shall sweep the paved roadways, and parking areas to minimize or eliminate, at all times, visible emissions of fugitive dust generated by vehicular traffic. The following equipment shall be used to sweep the roadways and parking areas: water flushing. The paved surfaces shall be watered, at a minimum, every month. The permittee shall not be required to water during wet conditions when there is sufficient moisture to prevent visible emissions of fugitive dust.
2. Any material carried off the Permittee's property and deposited onto public streets by vehicular traffic or by erosion by water, etc., shall be promptly removed and dispersed of properly to minimize or prevent resuspension.
3. A maximum speed limit of 10 miles per hour shall be posted and enforced on the property.
4. Open bodied vehicles transporting materials likely to become airborne shall be covered at all times.
5. The permittee shall apply dust suppressants to the unpaved roadways and parking areas to minimize or eliminate, at all times, visible emissions of fugitive dust generated, by vehicular traffic. Water shall be used as the dust suppressant, and the following equipment shall be waived during wet conditions when there is sufficient moisture to prevent visible emissions of fugitive dust.

**C. Monitoring and/or Recordkeeping Requirements**

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

<u>Paved Roadways</u>	<u>Minimum Inspection Frequency</u>
All applicable	Once during each day of operation

<u>Paved Parking Areas</u>	<u>Minimum Inspection Frequency</u>
All applicable	Once during each day of operation

<u>Unpaved Roadways</u>	<u>Minimum Inspection Frequency</u>
All applicable	Once during each day of operation

<u>Unpaved Parking Areas</u>	<u>Minimum Inspection Frequency</u>
All Applicable	Once during each day of operation

2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking

area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next 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. Testing Requirements**

Compliance Methods Requirements:

1. Emission Limitation-  
17.90 tons fugitive PE/year

Applicable Compliance Method-

Compliance shall be determined by calculating the emissions from paved and unpaved roadways and parking areas utilizing AP-42 emission factors, sections 13.2.1 (paved roads) and 13.2.2 (unpaved roads), revised 10/97 and 9/98, respectively).

2. Emissions Limitation-  
No visible particulate emissions except for a period of time not to exceed 1 minute during any 60-minute observation period. (paved roadways)

No visible particulate emissions except for a period of time not to exceed 3 minutes during any 60-minute observation period. (unpaved roadways)

Applicable Compliance Method-

Method 22 of 40 CFR Part 60, Appendix A.

**F. Miscellaneous Requirements**

None