



State of Ohio Environmental Protection Agency

STREET ADDRESS:

Lazarus Government Center  
50 W. Town St., Suite 700  
Columbus, Ohio 43215

TELE: (614) 644-3020 FAX: (614) 644-3184  
www.epa.state.oh.us

MAILING ADDRESS:

P.O. Box 1049  
Columbus, OH 43216-1049

11/24/2008

JAMES SMITH  
HANSON AGGREGATES MIDWEST BLOOMVILLE QUARRY  
8130 BRINT RD  
PO BOX 278  
SYLVANIA, OH 43560

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE  
Facility ID: 0374000034  
Permit Number: P0087672  
Permit Type: Renewal  
County: Seneca

Certified Mail

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR
No	CEMS
No	MACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED

Dear Permit Holder:

Enclosed please find a final Air Pollution Permit-to-Install and Operate ("PTIO") which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully.

Ohio EPA maintains a document entitled "Frequently Asked Questions about the PTIO". The document can be downloaded from the DAPC Web page, [www.epa.state.oh.us/dapc](http://www.epa.state.oh.us/dapc), from the "Permits" link. This document contains additional information related to your permit, such as what activities are covered under the PTIO, who has enforcement authority over the permit and Ohio EPA's authorization to inspect your facility and records. Please contact the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469 if you need assistance.

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission ("ERAC") under Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and describe the action complained of and the grounds for the appeal. The appeal must be filed with the ERAC within thirty (30) days after notice of the Director's action. A filing fee of \$70.00 must be submitted to the ERAC with the appeal, although the ERAC, has discretion to reduce the amount of the filing fee if you can demonstrate (by affidavit) that payment of the full amount of the fee would cause extreme hardship. If you file an appeal of this action, you must notify Ohio EPA of the filing of the appeal (by providing a copy to the Director) within three (3) days of filing your appeal with the ERAC. Ohio EPA requests that a copy of the appeal also be provided to the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the ERAC at the following address:

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

If you have any questions regarding this permit, please contact the Ohio EPA DAPC, Northwest District Office. This permit has been posted to the Division of Air Pollution Control (DAPC) Web page [www.epa.state.oh.us/dapc](http://www.epa.state.oh.us/dapc).

Sincerely,

*Michael W. Ahern*  
Michael W. Ahern, Manager  
Permit Issuance and Data Management Section, DAPC

Cc: Ohio EPA-NWDO

Ted Strickland, Governor  
Lee Fisher, Lieutenant Governor  
Chris Korleski, Director





**State of Ohio Environmental Protection Agency  
Division of Air Pollution Control**

**FINAL**

**Air Pollution Permit-to-Install and Operate  
for  
HANSON AGGREGATES MIDWEST BLOOMVILLE  
QUARRY**

Facility ID: 0374000034  
Permit Number: P0087672  
Permit Type: Renewal  
Issued: 11/24/2008  
Effective: 11/24/2008  
Expiration: 11/24/2018





**Air Pollution Permit-to-Install and Operate**  
for  
**HANSON AGGREGATES MIDWEST BLOOMVILLE QUARRY**

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State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Final Permit-to-Install and Operate**  
**Permit Number:** P0087672  
**Facility ID:** 0374000034  
**Effective Date:** 11/24/2008

## Authorization

Facility ID: 0374000034  
Application Number(s): A0018708  
Permit Number: P0087672  
Permit Description: Aggregate processing plant, roadways, storage piles and mineral extraction  
Permit Type: Renewal  
Permit Fee: \$0.00  
Issue Date: 11/24/2008  
Effective Date: 11/24/2008  
Expiration Date: 11/24/2018  
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15  
This document constitutes issuance to:

HANSON AGGREGATES MIDWEST BLOOMVILLE QUARRY  
PO BOX 128  
BLOOMVILLE, OH 44818

of a Permit-to-Install and Operate for the emissions unit(s) identified on the following page.

Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Northwest District Office  
347 North Dunbridge Road  
Bowling Green, OH 43402  
(419)352-8461

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s)) listed in this section 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 described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Chris Korleski  
Director



## Authorization (continued)

Permit Number: P0087672  
Permit Description: Aggregate processing plant, roadways, storage piles and mineral extraction

Permits for the following emissions unit(s) or groups of emissions units are in this document as indicated below:

- |                                   |                            |
|-----------------------------------|----------------------------|
| <b>Emissions Unit ID:</b>         | <b>F001</b>                |
| Company Equipment ID:             | Aggregate Processing Plant |
| Superseded Permit Number:         | 03-17282                   |
| General Permit Category and Type: | Not Applicable             |
| <b>Emissions Unit ID:</b>         | <b>F002</b>                |
| Company Equipment ID:             | Paved and Unpaved Roadways |
| Superseded Permit Number:         | 03-16198                   |
| General Permit Category and Type: | Not Applicable             |
| <b>Emissions Unit ID:</b>         | <b>F003</b>                |
| Company Equipment ID:             | Aggregate Stockpiles       |
| Superseded Permit Number:         | 03-17139                   |
| General Permit Category and Type: | Not Applicable             |
| <b>Emissions Unit ID:</b>         | <b>F004</b>                |
| Company Equipment ID:             | Material Handling          |
| Superseded Permit Number:         | 03-13477                   |
| General Permit Category and Type: | Not Applicable             |



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**Final Permit-to-Install and Operate**

**Permit Number:** P0087672

**Facility ID:** 0374000034

**Effective Date:** 11/24/2008

## **A. Standard Terms and Conditions**



**1. What does this permit-to-install and operate ("PTIO") allow me to do?**

This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

**2. Who is responsible for complying with this permit?**

The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

**3. What records must I keep under this permit?**

You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

**4. What are my permit fees and when do I pay them?**

There are two fees associated with permitted air contaminant sources in Ohio:

- PTIO fee. This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11, or based on a time and materials charge for permit application review and permit processing if required by the Director.

You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

- Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. For facilities that are permitted as synthetic minor sources, the fee schedule is adjusted annually for inflation. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

**5. When does my PTIO expire, and when do I need to submit my renewal application?**

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.



If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is taken by Ohio EPA on the renewal application.

**6. What happens to this permit if my project is delayed or I do not install or modify my source?**

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended by up to 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

**7. What reports must I submit under this permit?**

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

**8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?**

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective, and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

**9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?**

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.



**10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?**

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the Ohio EPA DAPC, Northwest District Office in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction, but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

**11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?**

Yes. Under Ohio law, the Director or his authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

**12. What happens if one or more emissions units operated under this permit is/are shut down permanently?**

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emission unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as being permanently shut down without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

**13. Can I transfer this permit to a new owner or operator?**

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Final Permit-to-Install and Operate**

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change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

**14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?**

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

**15. What happens if a portion of this permit is determined to be invalid?**

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Final Permit-to-Install and Operate**

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## **B. Facility-Wide Terms and Conditions**



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Final Permit-to-Install and Operate**

**Permit Number:** P0087672

**Facility ID:** 0374000034

**Effective Date:** 11/24/2008

1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
  - a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
    - (1) None.
  - b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
    - (1) None.



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Final Permit-to-Install and Operate**

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**Effective Date:** 11/24/2008

## **C. Emissions Unit Terms and Conditions**



**1. F001, Aggregate Processing Plant**

**Operations, Property and/or Equipment Description:**

Aggregate plant with conveyors, screens and material handling operations (modification to PTI 03-16198, issued on 7/14/05 to address the addition of a new conveyor.

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	4.69 tons/year fugitive particulate matter of 10 microns or less (PM <sub>10</sub> )  9.07 tons/year fugitive particulate emissions (PE)  best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)b. through b)(2)d.]  visible emission restrictions [See b)(2)e.]  See b)(2)a. through b)(2)g.
b.	OAC rule 3745-17-07(B)	This emission 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).
c.	OAC rule 3745-17-08(B)	The permittee is not located within an



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		"Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08 (A), this emission unit is exempt from the requirements of OAC rule 3745-17-07 (B).
d.	40 CFR, Part 60, Subpart OOO	Visible emission restrictions [See Sections b)(2)a. and b)(2)e.]

(2) Additional Terms and Conditions

- a. The following aggregate processing equipment/operations are covered by this permit:

Equipment Description	Identification Number	Regulatory Basis
Grizzly Feeder/Screen	F1	OAC rule 3745-31-05
Deistar Scalping Screen	S1	NSPS, Subpart OOO
Telsmith Secondary Screen	S2	OAC rule 3745-31-05
Wash Screen	S3	NSPS, Subpart OOO
Hazmag Primary Crusher	CR1	NSPS, Subpart OOO
Sandvik Tertiary Crusher	CR2	NSPS, Subpart OOO
Conveyor/Pan Feeder	F2	NSPS, Subpart OOO
Conveyor/Kinergy Feeder	F3	OAC rule 3745-31-05
Conveyor/Surge Bin	SB1	OAC rule 3745-31-05
Conveyor/ Sand Screw	SS1	OAC rule 3745-31-05
Conveyor 115x48	C1	OAC rule 3745-31-05
Conveyor 115x36	C2	OAC rule 3745-31-05
Conveyor 20x48	C2A	OAC rule 3745-31-05
Conveyor 86x36	C3	OAC rule 3745-31-05
Conveyor 100x31	C4	NSPS, Subpart OOO
Conveyor 100x30	C5	OAC rule 3745-31-05
Conveyor 40x24	C5A	OAC rule 3745-31-05
Conveyor 156x30	C6	OAC rule 3745-31-05
Conveyor 102x30	C7	OAC rule 3745-31-05



Conveyor 130x30	C8	OAC rule 3745-31-05
Conveyor 28x48	C9	OAC rule 3745-31-05
Conveyor 45x24	C10	OAC rule 3745-31-05
Conveyor 50x30	C11	OAC rule 3745-31-05
Conveyor 184x24	C12	OAC rule 3745-31-05
Conveyor 132x30	C13	OAC rule 3745-31-05
Conveyor 85x24	C14	OAC rule 3745-31-05
Conveyor 85x24	C15	OAC rule 3745-31-05
Conveyor 100x30	C16	OAC rule 3745-31-05
Conveyor 100x30	C17	NSPS, Subpart OOO
Conveyor 50x24	C18	OAC rule 3745-31-05
Conveyor 100x30	C19	NSPS, Subpart OOO
Conveyor 112x30	C20	OAC rule 3745-31-05
Conveyor 35x30	C21	OAC rule 3745-31-05
Conveyor 48x500	C22	OAC rule 3745-31-05
Conveyor 48x60	C23	OAC rule 3745-31-05

- b. 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:

<b>Operation</b>	<b>Control Measure(s)</b>
loading (truck dumping into a feeder, hopper, or crusher)	maintain low drop heights
plant conveyors & transfer points	maintain low drop heights; maintain or apply sufficient water* to adequately control the fugitive dust emissions
screening	maintain or apply sufficient water* to adequately control the fugitive dust emissions
crushing	maintain or apply sufficient water* to adequately control the fugitive dust emissions

\*except for periods when freezing temperatures prohibit use of water spray



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

- c. For each material handling operation that is not adequately enclosed, the above-identified control measures 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 are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during the operation of the material handling operations until further observation confirms that use of the control measures is unnecessary.
- d. 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 (A)(3).
- e. Visible emissions from the material processing operations shall not exceed the following opacity restrictions:

<b>Operation</b>	<b>Opacity Limit*</b>
loading (truck dumping into a feeder, hopper, or crusher)	20%, as a 3-minute average
screening	10%, as a 6-minute average
wet screening and screening of saturated materials	no visible emissions
crushing	15%, as a 6-minute average
conveyor transfer points, except as otherwise provided	10%, as a 6-minute average
conveyor transfer points feeding and exiting crushers	15%, as a 6-minute average
conveyor transfer points of saturated materials	no visible emissions

\*See Section b)(2)a. for the regulatory basis of the opacity limit.

- f. 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.
  - g. The requirements of this rule also include compliance with 40 CFR Part 60, Subpart OOO.
- c) Operational Restrictions
- (1) The maximum annual material throughput for this emissions unit shall not exceed 990,000 tons based on the material throughput of the feeder.



d) Monitoring and/or Recordkeeping Requirements

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

Operation/Equipment	Minimum Inspection Frequency
each loading operation (truck dumping into a feeder, hopper, or crusher)	once per day of operation
each plant conveyor & transfer point	once per day of operation
each screen	once per day of operation
each crusher	once per day of operation

- (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 required in d)(3)d. shall be kept separately for each mineral extraction operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

e) Reporting Requirements

- (1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.
- (2) 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.

- (3) The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in 40 CFR, Part 60, Subpart OOO, including the reports of opacity observations using Method 9 to demonstrate compliance with this subpart.
- (4) Pursuant to the general provisions of NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times for this emissions unit:
  - a. construction date (no later than 30 days after such date);
  - b. actual start-up date (within 15 days after such date); and
  - c. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio EPA, Northwest District Office  
Division of Air Pollution Control  
347 North Dunbridge Road  
Bowling Green, OH 43402



f) Testing Requirements

(1) Compliance with the emissions limitations specified in Section b)(1) of the terms and conditions of this permit shall be determined in accordance with the following methods:

a. Emission Limitations: 9.07 tons fugitive PE/year and 4.69 tons fugitive PM<sub>10</sub>/year

Applicable Compliance Method: The annual particulate emission limitations were developed by multiplying the following emission factors from AP-42 Section 11.19.2 (8/04) by the annual throughput restriction of 990,000 tons/year and then dividing by 2000 pounds/ton:

Aggregate Processing Operation	PE Emission Factor	PM <sub>10</sub> Emission Factor
loading (truck dumping into a feeder, hopper, or crusher)	PE to PM <sub>10</sub> relative ratio 2.11:1*	0.00010 lb/ton processed
screening	0.0036 lb/ton processed	0.0022 lb/ton processed
crushing	0.0012 lb/ton processed	0.00054 lb/ton processed
conveyor transfer points	0.00014 lb/ton processed	0.000046 lb/ton processed

\*derived from AP-42 Section 13.2.4

Provided compliance is demonstrated with the annual throughput restriction and the requirements to apply best available control measures to prevent fugitive emissions, compliance with the annual emission limitations shall be assumed.

b. Emission Limitation: Visible emissions shall not exceed 20% opacity, as a 3-minute average for loading operations (truck dumping into a feeder, hopper, or crusher).

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, Appendix A (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 specified 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 any fugitive emissions which exhibit greater than 10% opacity (unless otherwise specified).



Applicable Compliance Method: If required, compliance shall be demonstrated using Method 9 of 40 CFR, Part 60, Appendix A, and the procedures specified 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 wet screening operations and subsequent transfer points that process saturated materials.

Applicable Compliance Method: If required, compliance shall be demonstrated using Method 22 of 40 CFR, Part 60, Appendix A, and the procedures specified in 40 CFR, Part 60, Subpart OOO, Section 60.675.

- (2) The permittee shall conduct, or have conducted, emission testing for the Sandvik tertiary crusher (CR-2) from emissions unit F001 (testing was initially required in PTI #03-16198, issued 7/14/05). There are no testing requirements associated with the installation of the wash screen or conveyor C-21 because the conveyor only processes saturated materials.
- (3) 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.
- (4) 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. The emission testing shall be conducted to demonstrate compliance with the allowable visible emission rates for particulate emissions.

The Sandvik tertiary crusher (CR-2) has already been installed. Therefore, emission testing shall be conducted within 60 days after the issuance of this Permit to Install.

- (5) 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.
- (6) 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.
- (7) 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



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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.

g) Miscellaneous Requirements

(1) None.



**2. F002, Paved and Unpaved Roadways**

**Operations, Property and/or Equipment Description:**

Plant paved and unpaved roadways and parking areas (modification to PTI 03-13477, issued on 11/30/00 to remove portable language)

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	17.90 tons fugitive particulate emissions (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.
b.	OAC rule 3745-17-08(B)	See b)(2)a.
c.	OAC rule 3745-17-07(B)	See b)(2)b.

(2) Additional Terms and Conditions

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.

- 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).
- 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.

- 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.
- 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.
- 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.
- 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.
- 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.



c) 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.

d) 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> All applicable	<u>Minimum Inspection Frequency</u> Once during each day of operation
<u>Paved Parking Areas</u> All applicable	<u>Minimum Inspection Frequency</u> Once during each day of operation
<u>Unpaved Roadways</u> All applicable	<u>Minimum Inspection Frequency</u> Once during each day of operation
<u>Unpaved Parking Areas</u> All Applicable	<u>Minimum Inspection Frequency</u> 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 d)(4)d. shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

e) Reporting Requirements

- (1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

f) Testing Requirements

- (1) Compliance with the emissions limitations specified in Section b)(1) of the terms and conditions of this permit shall be determined in accordance with the following methods:

- a. 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).

- b. 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); and

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



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Applicable Compliance Method: Compliance with the visible particulate emission limitations 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, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

g) Miscellaneous Requirements

(1) None.



**3. F003, Aggregate Stockpiles**

**Operations, Property and/or Equipment Description:**

material storage piles (modification to PTI 03-13477, issued 11/30/00, to address the installation of new storage piles and emission increases.

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	11.90 tons/year of fugitive particulate matter of 10 microns or less (PM <sub>10</sub> )  24.08 tons/year of fugitive particulate emissions (PE)  no visible PE except for 1 minute during any 60-minute period  best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See sections b)(2)a. through b)(2)e.]
b.	OAC rule 3745-17-07(B)	This emission 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).
c.	OAC rule 3745-17-08(B)	The permittee is not located within an "Appendix A" area as identified in OAC



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emission unit is exempt from the requirements of OAC rule 3745-17-07(B).

(2) Additional Terms and Conditions

- a. The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the application, the permittee has committed to maintain minimal drop heights for stackers and front-loaders and chemical stabilization and/or watering/sprinkling systems/hoses at sufficient treatment frequencies to ensure compliance.

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

- b. The above-mentioned control measure(s) shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.
- c. The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the application, the permittee has committed to perform one or more of the following: chemical stabilization, watering/sprinkling systems/hoses, and/or covering the storage piles to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- d. The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.
- e. 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(A)(3).



f. The particulate emission limits were established based on a maximum throughput restriction of 990,000 tons/year from the associated aggregate processing plant, F001, and a cumulative storage pile surface area of 25 acres. Prior to any physical change or change in the method of operation involving the storage piles and/or the associated aggregate processing plant (F001), the permittee shall conduct an evaluation to determine if the change would constitute a "modification" as defined in OAC rule 3745-31-01(VV). If any physical change in, or change(s) in the method of operation is (are) defined as a modification, then the permittee shall obtain a final permit to install modification prior to performing such change(s). The permittee shall collect, record and retain all evaluation information and the final determination when modification evaluations are performed.

c) Operational Restrictions

(1) None.

d) 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	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	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	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.

(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 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 section d)(6)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.

e) Reporting Requirements

- (1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

f) Testing Requirements

- (1) Compliance with the emission limitations specified in section b)(1) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitations: 11.90 tons fugitive PM<sub>10</sub>/year and 24.08 tons fugitive PE/year

Applicable Compliance Method: The emission limitations were established by combining the total PE and PM<sub>10</sub> emissions from load-in and load-out operations and from wind erosion from each storage pile as listed in the permittee's application. The emission rates were determined as follows:

- i. Load-in - emissions associated with load-in operations were established by multiplying the maximum load-in rate of 990,000 tons limestone/year by the appropriate emission factor from AP-42, Section 13.2.4.(1/95) [0.0069 pound PE/ton processed and 0.0033 pound PM<sub>10</sub>/ton processed] and then dividing by 2000 pounds/ton.
- ii. Load-out - emissions associated with load-out operations were established by multiplying the maximum load-out rate of 990,000 tons per year of limestone by the appropriate emission factor from AP-42



section 13.2.4 (1/95) [0.0069 pound PE/ton processed and 0.0033 pound PM<sub>10</sub>/ton processed] and then dividing by 2000 pounds/ton.

- iii. Wind erosion - emissions were established by multiplying a maximum, combined, limestone, storage pile surface area of 25 acres, the appropriate emission factor from USEPA's Control of Open Fugitive Dust Sources (9/88) [3.78 pounds PE/day/acre], a maximum operating schedule of 365 days per year, and dividing by 2000 pounds/ton. PM<sub>10</sub> emissions were established by multiplying the total PE rate by a factor of 0.5 [0.5 represents the ratio of the aerodynamic particle size multiplier between PM<sub>10</sub> and PE, AP-42, Section 13.2.5 (1/95)].

Therefore, provided compliance is shown with the requirements of this permit to apply best available control measures, compliance with the annual PE limitation will be assumed.

- b. Emission Limitation: There shall be no visible PE except for a period of time not to exceed 1 minute during any 60-minute observation period.

Applicable Compliance Method: Compliance with the visible particulate emission limitation 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, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

g) Miscellaneous Requirements

- (1) None.



**4. F004, Material Handling**

**Operations, Property and/or Equipment Description:**

Mineral extraction operations.

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	9.68 tons fugitive particulate emissions ( PE)/yr  Use of best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)d. through b)(2)e.]  Opacity Restrictions [See b)(2)f.]
b.	OAC rule 3745-17-07(B)	None [See b)(2)a.]
c.	OAC rule 3745-17-08(B)	None (See b)(2)b.)

(2) Additional Terms and Conditions

a. 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).

b. Hansen Aggregates, Inc. - Seneca County Site 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(B).

- c. The mineral extraction operations that are covered by this permit and subject to the above-mentioned requirements are listed below:

Overburden removal, blasting, drilling, off-road truck loading, and overburden loading into trucks

- d. The permittee shall employ best available control measures for the above-identified mineral extraction operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permit application, the permittee has committed to perform the following control measures to ensure compliance:

<u>mineral extraction operation</u>	<u>control measure(s)</u>
overburden removal & reclamation	minimize area of disturbed land surface, reclaim land surface as expeditiously as possible, maintenance of inherent moisture content with water truck
blasting	minimize area to be blasted, prevention of overshooting
drilling	emissions controlled by enclosure skirting
off road truck loading	prevent haul vehicle overloading, maintain low drop height from front end loader bucket
overburden loading into trucks	prevent haul vehicle overloading, maintain low drop height from front end loader bucket

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

- e. 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.
- f. Visible particulate emissions shall not exceed 20% opacity as a 3-minute average from the following mineral extraction operations: overburden removal and reclamation, drilling, off-road truck loading, and overburden loading into trucks.

- c) Operational Restrictions
  - (1) None.



d) Monitoring and/or Recordkeeping Requirements

- (1) Except as otherwise provided in this section, for mineral extraction operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>mineral extraction operation</u>	<u>minimum inspection frequency</u>
all	daily

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

The information in d)(4)d. shall be kept separately for each mineral extraction operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

e) Reporting Requirements

- (1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

f) Testing Requirements

- (1) Compliance with the emission limitations specified in section b)(1) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation: 9.68 tons fugitive PE/yr

Applicable Compliance Method: The annual particulate emission limitations were developed by applying the following emission factors and control efficiencies to the associated process weight rates:



Mineral Extraction Operation	Maximum Process Weight Rate	Control Efficiency	Emission Factor Citation
Overburden Removal	300,000 tons/year	70%	RACM Table 2.1.4-3, 9/88
Truck Loading	1000,000 tons/year	None	AP-42 Section 13.2.4.3 1/95
Drilling	1,000,000 tons/year	90%	RACM Table 2.1.4-4, 9/88
Blasting	84 blasts/year	None	RACM Table 2.1.4-4, 9/88

- b. Emission Limitation: Visible particulate emissions shall not exceed 20% opacity as a 3-minute average from the following mineral extraction operations: overburden removal and reclamation, drilling, off-road truck loading, and overburden loading into trucks.

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, Appendix A (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.

g) Miscellaneous Requirements

- (1) None.