



5/8/2014

Certified Mail

Beth Mowrey
Shelly Materials, Inc.-York Center Quarry
P.O. Box 266
Thornville, OH 43076

No	TOXIC REVIEW
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
Yes	NSPS
No	NESHAPS
No	NETTING
No	MODELING SUBMITTED
No	SYNTHETIC MINOR TO AVOID TITLE V
No	FEDERALLY ENFORCABLE PTIO (FEPTIO)
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 0180000169
Permit Number: P0083895
Permit Type: Renewal
County: Union

Dear Permit Holder:

Enclosed please find a final Ohio Environmental Protection Agency (EPA) 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. In this letter you will find the information on the following topics:

- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**

How to appeal this permit

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Josh Mandel," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
77 South High Street, 17th Floor
Columbus, OH 43215

How to save money, reduce pollution and reduce energy consumption

The Ohio EPA is encouraging 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 Compliance Assistance and Pollution Prevention at (614) 644-3469. Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and State tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: www.ohioairquality.org/clean_air

How to give us feedback on your permitting experience

Please complete a survey at www.epa.ohio.gov/survey.aspx and give us feedback on your permitting experience. We value your opinion.

How to get an electronic copy of your permit

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Search for Permits" link under the Permitting topic on the Programs tab.

If you have any questions, please contact Ohio EPA DAPC, Central District Office at (614)728-3778 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,



Michael W. Ahern, Manager

Permit Issuance and Data Management Section, DAPC

Cc: Ohio EPA-CDO



FINAL

**Division of Air Pollution Control
Permit-to-Install and Operate
for
Shelly Materials, Inc.-York Center Quarry**

Facility ID:	0180000169
Permit Number:	P0083895
Permit Type:	Renewal
Issued:	5/8/2014
Effective:	5/8/2014
Expiration:	3/23/2019



Division of Air Pollution Control
Permit-to-Install and Operate
for
Shelly Materials, Inc.-York Center Quarry

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Final Permit-to-Install and Operate
Shelly Materials, Inc.-York Center Quarry
Permit Number: P0083895
Facility ID: 0180000169
Effective Date: 5/8/2014

Authorization

Facility ID: 0180000169
Application Number(s): A0014340, A0014341
Permit Number: P0083895
Permit Description: PTIO renewal permit for paved and unpaved roadways, storage piles, primary and secondary crushing operations, material handling, and mineral extraction operations located at a Crushed and Broken Limestone Mining and Quarrying facility. Administrative modification to the BAT limitations for emissions units F005, F007, and F008 based on AP-42 emissions factors revised in August 2004.
Permit Type: Renewal
Permit Fee: \$0.00
Issue Date: 5/8/2014
Effective Date: 5/8/2014
Expiration Date: 3/23/2019
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

Shelly Materials, Inc.-York Center Quarry
20620 SPANGLER RD
WEST MANSFIELD, OH 43358

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

Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Central District Office
50 West Town Street, 6th Floor
P.O. Box 1049
Columbus, OH 43216-1049
(614)728-3778

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


Craig W. Butler
Director



Authorization (continued)

Permit Number: P0083895
 Permit Description: PTIO renewal permit for paved and unpaved roadways, storage piles, primary and secondary crushing operations, material handling, and mineral extraction operations located at a Crushed and Broken Limestone Mining and Quarrying facility. Administrative modification to the BAT limitations for emissions units F005, F007, and F008 based on AP-42 emissions factors revised in August 2004.

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

- | | |
|-----------------------------------|--------------------------|
| Emissions Unit ID: | F002 |
| Company Equipment ID: | Paved/unpaved Roadways |
| Superseded Permit Number: | 01-6658 |
| General Permit Category and Type: | Not Applicable |
| Emissions Unit ID: | F003 |
| Company Equipment ID: | Stockpiles |
| Superseded Permit Number: | 01-6658 |
| General Permit Category and Type: | Not Applicable |
| Emissions Unit ID: | F005 |
| Company Equipment ID: | Primary crusher |
| Superseded Permit Number: | 01-08661 |
| General Permit Category and Type: | Not Applicable |
| Emissions Unit ID: | F006 |
| Company Equipment ID: | Secondary crusher |
| Superseded Permit Number: | 01-08661 |
| General Permit Category and Type: | Not Applicable |
| Emissions Unit ID: | F007 |
| Company Equipment ID: | Conveyor transfer points |
| Superseded Permit Number: | 01-08661 |
| General Permit Category and Type: | Not Applicable |
| Emissions Unit ID: | F008 |
| Company Equipment ID: | Screens |
| Superseded Permit Number: | 01-08661 |
| General Permit Category and Type: | Not Applicable |
| Emissions Unit ID: | F010 |
| Company Equipment ID: | Lime Line |
| Superseded Permit Number: | 01-12100 |
| General Permit Category and Type: | Not Applicable |
| Emissions Unit ID: | F011 |
| Company Equipment ID: | Lime Storage Piles |
| Superseded Permit Number: | 01-12100 |
| General Permit Category and Type: | Not Applicable |
| Emissions Unit ID: | F013 |
| Company Equipment ID: | Mineral Extraction |
| Superseded Permit Number: | |
| General Permit Category and Type: | Not Applicable |



Final Permit-to-Install and Operate
Shelly Materials, Inc.-York Center Quarry
Permit Number: P0083895
Facility ID: 0180000169
Effective Date: 5/8/2014

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 of this permit 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 [DO/LAA] 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



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.



Final Permit-to-Install and Operate
Shelly Materials, Inc.-York Center Quarry
Permit Number: P0083895
Facility ID: 0180000169
Effective Date: 5/8/2014

B. Facility-Wide Terms and Conditions



Final Permit-to-Install and Operate
Shelly Materials, Inc.-York Center Quarry
Permit Number: P0083895
Facility ID: 0180000169
Effective Date: 5/8/2014

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.



Final Permit-to-Install and Operate
Shelly Materials, Inc.-York Center Quarry
Permit Number: P0083895
Facility ID: 0180000169
Effective Date: 5/8/2014

C. Emissions Unit Terms and Conditions



1. F002, Paved/unpaved Roadways

Operations, Property and/or Equipment Description:

Paved and unpaved roadways and parking areas

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 operation(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 are identified below. 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)	Particulate emissions (PE) shall not exceed 2.87 tons per year (TPY). No visible particulate emissions except for three minutes during any 60-minute observation period from the paved and unpaved roadways and parking areas. See b)(2)a. through b)(2)d.

(2) Additional Terms and Conditions

a. 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 application, the permittee has committed to treat the paved and unpaved roadways and parking areas by sweeping (paved) and watering (unpaved) at sufficient treatment frequencies to ensure compliance. Nothing in



this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

The application of water and sweeping are not necessary during wet conditions when there is sufficient moisture to prevent visible emissions of fugitive dust.

Any material carried off of the permittee's property and deposited onto public streets by vehicular traffic or by erosion by water, etc., shall be promptly removed and disposed of properly to minimize or prevent re-suspension.

- b. The above-mentioned control measures shall be employed for paved and unpaved roadways and parking areas if the permittee determines, as a result of the inspection conducted pursuant to d)(1), that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements.
- c. A maximum speed limit of 15 miles per hour shall be posted and enforced on the property.
- d. 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.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) Except as otherwise provided in this section, the permittee shall perform daily inspections of all roadways and parking areas.

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 events have ended.

The permittee may, upon written receipt from Ohio EPA Central District Office, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

- (2) 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 measure(s); and
- c. the dates when excess visible fugitive particulate emissions were observed and control measure(s) was (were) implemented.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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 following information shall be included in the annual PER:
 - 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.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions limitation:

PE shall not exceed 2.87 tons per year TPY.

Applicable Compliance Method:

The annual PE limitation was established by multiplying the maximum annual vehicle miles traveled (VMT) (15,625 on paved roadways and 10,000 on unpaved roadways) by an emission factor of 0.0236 lbs PE/VMT for paved roadways and an emission factor of 0.5366 lbs PE/VMT for unpaved roadways and converting to tons by dividing by 2,000.

b. Emissions limitation:

No visible particulate emissions except for three minutes during any 60-minute observation period from the paved and unpaved roadways and parking areas.

Applicable Compliance Method:

If required, compliance with the visible emission limitation specified above shall be determined in accordance with Test Method 22 as set forth in 40 CFR Part 60, Appendix A, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.



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Shelly Materials, Inc.-York Center Quarry
Permit Number: P0083895
Facility ID: 0180000169
Effective Date: 5/8/2014

g) Miscellaneous Requirements

(1) None.



2. F003, Stockpiles

Operations, Property and/or Equipment Description:

Sand and aggregate storage piles

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 operation(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 are identified below. 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)	<p>Particulate emissions (PE) shall not exceed 3.77 tons per year (TPY).</p> <p>No visible particulate emissions from any material storage pile except for a period of time not to exceed three minutes during any 60-minute observation period.</p> <p>See b)(2)a. through b)(2)c.</p>

(2) Additional Terms and Conditions

a. The permittee shall employ best available control measures for wind erosion from the surfaces of all aggregate storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to treat each storage pile with water at sufficient treatment frequencies to ensure compliance.



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

- b. The above-mentioned control measures shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to d)(1), that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements.
- c. During the unloading onto or removal from the sand and aggregate storage piles, the drop height of the front-end loader shall be minimized in order to minimize or eliminate visible emissions of fugitive dust.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) Except as otherwise provided in this section, the permittee shall perform daily inspections of the wind erosion from pile surfaces associated with each storage pile.

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 wind erosion from the surface of a storage pile when the pile 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 events have ended.

- (2) 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 measure(s); and
- c. the dates when excess visible fugitive particulate emissions were observed and control measure(s) was (were) implemented.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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 following information shall be included in the annual PER:
- 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.
- f) Testing Requirements
- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:
- a. Emissions limitation:

PE shall not exceed 3.77 tons per year TPY.

Applicable Compliance Method:

The annual PE limitation was established by multiplying the appropriate emissions factors from AP-42 Chapter 13.2.4, in lbs PE/day-acre, for wind erosion by the appropriate acreage for each type of storage pile (0.21 acres sand and aglime, and 2.84 acres aggregate) and by multiplying the appropriate emission factors from AP-42 Chapter 13.2.4, in lbs PE/ton for loading/unloading sand, coarse aggregate, and aglime by the maximum tons of material loaded/unloaded (200,000 tons sand/year, 800,000 tons coarse aggregate/year, and 75,000 tons aglime/year) and converting to tons by dividing by 2,000.
 - b. Emissions limitation:

No visible particulate emissions from any material storage pile except for a period of time not to exceed three minutes during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the visible emission limitation specified above shall be determined in accordance with Test Method 22 as set forth in 40 CFR Part 60, Appendix A, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.
- g) Miscellaneous Requirements
- (1) None.



3. F005, Primary crusher

Operations, Property and/or Equipment Description:

400 tons/hour primary crusher

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 operation(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 are identified below. 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)	Particulate emissions (PE) shall not exceed 0.48 pound per hour (lb/hr) and 2.1 tons per year (TPY). The requirements of this rule also include compliance with the requirements established pursuant to 40 CFR Part 60, Subpart OOO. See b)(2)a., b)(2)b., and c)(1)
b.	OAC rule 3745-17-08(B)	This emissions unit is exempt from the requirements established under OAC rule 3745-17-08(B) pursuant to OAC rule 3745-17-08(A)(1).
c.	OAC rule 3745-17-07(B)	This emissions unit is exempt from the visible emissions limitation established under OAC rule 3745-17-07(B)(1) pursuant to OAC rule 3745-17-11(B)(11)(e).



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
d.	40 CFR Part 60, Subpart OOO	Visible emissions of fugitive dust discharging from the crusher shall not exceed 15% opacity.
e	40 CFR Part 60, Subpart A	See b)(2)c.

(2) Additional Terms and Conditions

- a. The permittee shall employ best available control measures during all crushing operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. Compliance with the Best Available Technology (BAT) requirements shall be demonstrated by applying water at sufficient frequencies to maintain the material in moist condition. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- b. The hourly PE limitation was established to reflect the maximum hourly potential to emit. Therefore it is not necessary to develop additional monitoring, recordkeeping, and/or reporting requirements to ensure compliance with this limitation.
- c. The permittee shall demonstrate compliance with the applicable provisions of 40 CFR Part 60, Subpart OOO in accordance with 40 CFR Part 60, Subpart A.

c) Operational Restrictions

- (1) The permittee shall operate the water spray bar at sufficient frequencies to maintain the material in moist condition.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the total amount of aggregate processed by this emissions unit, in tons.
- (2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the primary crusher. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emissions incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.



If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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 following information shall be included in the annual PER:
 - a. Each daily check during which any visible particulate emissions were observed from the primary crusher; and
 - b. Any corrective actions taken to minimize or eliminate the visible particulate emissions.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions limitations:

PE shall not exceed 0.48 lb/hr and 2.1 TPY.

Applicable Compliance Method:

The hourly PE limitation was established by multiplying the maximum hourly production rate of 400 tons/hr (design capacity) by the emissions factor of 0.0012 lb PE/ton of aggregate produced from USEPA AP-42 Chapter 11.19.2, Table 11.19.2-2 (8/04).

Compliance with the annual PE limitation may be demonstrated by multiplying the actual annual aggregate produced, as a sum of the records required in d)(1), by the emissions factor of 0.0012 lb PE/ton of aggregate produced from USEPA AP-42 Chapter 11.19.2, Table 11.19.2-2 (8/04).



b. Emissions limitation:

Visible emissions of fugitive dust discharging from the crusher shall not exceed 15% opacity.

Applicable Compliance Method:

The permittee demonstrated compliance with the visible emissions limitation through emissions test performed on July 9 and 10, 2002.

If required, compliance with the visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR, Part 60, Appendix A, Method9.

g) Miscellaneous Requirements

(1) None.



4. F006, Secondary crusher

Operations, Property and/or Equipment Description:

600 tons/hour secondary crusher

- 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 operation(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 are identified below. 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)	Particulate emissions (PE) shall not exceed 0.74 pound per hour (lb/hr) and 3.3 tons per year (TPY). The requirements of this rule also include compliance with the requirements established pursuant to 40 CFR Part 60, Subpart OOO. See b)(2)a., b)(2)b., and c)(1)
b.	OAC rule 3745-17-08(B)	This emissions unit is exempt from the requirements established under OAC rule 3745-17-08(B) pursuant to OAC rule 3745-17-08(A)(1).
c.	OAC rule 3745-17-07(B)	This emissions unit is exempt from the visible emissions limitation established under OAC rule 3745-17-07(B)(1) pursuant to OAC rule 3745-17-11(B)(11)(e).



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
d.	40 CFR Part 60, Subpart OOO	Visible emissions of fugitive dust discharging from the crusher shall not exceed 15% opacity.
e	40 CFR Part 60, Subpart A	See b)(2)c.

(2) Additional Terms and Conditions

- a. The permittee shall employ best available control measures during all crushing operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. Compliance with the Best Available Technology (BAT) requirements shall be demonstrated by applying water at sufficient frequencies to maintain the material in moist condition. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- b. The hourly PE limitation was established to reflect the maximum hourly potential to emit. Therefore it is not necessary to develop additional monitoring, recordkeeping, and/or reporting requirements to ensure compliance with this limitation.
- c. The permittee shall demonstrate compliance with the applicable provisions of 40 CFR Part 60, Subpart OOO in accordance with 40 CFR Part 60, Subpart A.

c) Operational Restrictions

- (1) The permittee shall operate the water spray bar at sufficient frequencies to maintain the material in moist condition.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the total amount of aggregate processed by this emissions unit, in tons.
- (2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the secondary crusher. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emissions incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.



If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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 following information shall be included in the annual PER:
 - a. Each daily check during which any visible particulate emissions were observed from the secondary crusher; and
 - b. Any corrective actions taken to minimize or eliminate the visible particulate emissions.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions limitations:

PE shall not exceed 0.74 lb/hr and 3.3 TPY.

Applicable Compliance Method:

The hourly PE limitation was established by multiplying the maximum hourly production rate of 600 tons/hr (design capacity) by the emissions factor of 0.00124 lb PE/ton of aggregate produced from USEPA AP-42 Chapter 11.19.2, Table 11.19.2-2 for controlled tertiary crushing (11/95).

Compliance with the annual PE limitation may be demonstrated by multiplying the actual annual aggregate produced, as a sum of the records required in d)(1), by the emissions factor of 0.00124 lb PE/ton of aggregate produced from USEPA AP-42 Chapter 11.19.2, Table 11.19.2-2 for controlled tertiary crushing (11/95).



b. Emissions limitation:

Visible emissions of fugitive dust discharging from the crusher shall not exceed 15% opacity.

Applicable Compliance Method:

The permittee demonstrated compliance with the visible emissions limitation through emissions test performed on July 9 and 10, 2002.

If required, compliance with the visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR, Part 60, Appendix A, Method9.

g) Miscellaneous Requirements

(1) None.



5. F007, Conveyor transfer points

Operations, Property and/or Equipment Description:

Material handling and conveying including 38 transfer points and truck unloading at the hopper

- 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 operation(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 are identified below. 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)	Particulate emissions (PE) shall not exceed 2.29 pounds per hour (lbs/hr) and 10.0 tons per year (TPY). The requirements of this rule also include compliance with the requirements established pursuant to 40 CFR Part 60, Subpart OOO. See b)(2)a., b)(2)b., and c)(1)
b.	OAC rule 3745-17-08(B)	This emissions unit is exempt from the requirements established under OAC rule 3745-17-08(B) pursuant to OAC rule 3745-17-08(A)(1).
c.	OAC rule 3745-17-07(B)	This emissions unit is exempt from the visible emissions limitation established under OAC rule 3745-17-07(B)(1) pursuant to OAC rule 3745-17-11(B)(11)(e).



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
d.	40 CFR Part 60, Subpart OOO	Visible emissions of fugitive dust discharging from any transfer point shall not exceed 10% opacity.
e	40 CFR Part 60, Subpart A	See b)(2)c.

(2) Additional Terms and Conditions

- a. The permittee shall employ best available control measures during all conveying and material handling operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. Compliance with the Best Available Technology (BAT) requirements shall be demonstrated by applying water at sufficient frequencies to maintain the material in moist condition. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- b. The hourly PE limitation was established to reflect the maximum hourly potential to emit. Therefore it is not necessary to develop additional monitoring, recordkeeping, and/or reporting requirements to ensure compliance with this limitation.
- c. The permittee shall demonstrate compliance with the applicable provisions of 40 CFR Part 60, Subpart OOO in accordance with 40 CFR Part 60, Subpart A.

c) Operational Restrictions

- (1) The permittee shall apply water to all fugitive dust emissions points whenever necessary to ensure compliance with the visible emissions limitation.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the total amount of aggregate processed by this emissions unit, in tons.
- (2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the secondary crusher. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emissions incident; and



- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

- (3) The permittee shall maintain records of any period of time during which water was not applied to a fugitive dust emissions points when it would have been necessary in order to ensure compliance with the visible emissions limitation.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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 following information shall be included in the annual PER:
 - a. An identification of any period of time during which water was not applied to a fugitive dust emissions points when it would have been necessary in order to ensure compliance with the visible emissions limitation;
 - b. Each daily check during which any visible particulate emissions were observed from the secondary crusher; and
 - c. Any corrective actions taken to minimize or eliminate the visible particulate emissions.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emissions limitations:

PE shall not exceed 2.29 lb/hr and 10.0 TPY.

- a. Applicable Compliance Method:

The hourly PE limitation was established by summing the maximum hourly particulate emissions rates for the transfer points and truck unloading as determined by multiplying the maximum hourly production rate for each by the



emissions factor from USEPA AP-42 Chapter 11.19.2, Table 11.19.2-2 for controlled conveyor transfer points and truck unloading (11/95 and 8/04).

Transfer Points

600 tons/hr (3) * 0.00014 lb PE/ton = 0.25 lb PE/hr

400 tons/hr (35) * 0.00014 lb PE/ton = 1.96 lb PE/hr

Truck Unloading

400 tons/hr (1) * 0.00021 lb PE/ton = 0.084 lb PE/hr

Compliance with the annual PE limitation may be demonstrated by multiplying the actual annual aggregate produced, as a sum of the records required in d)(1), by the emissions factor of 0.00124 lb PE/ton of aggregate produced from USEPA AP-42 Chapter 11.19.2, Table 11.19.2-2 for controlled conveyor transfer points and truck unloading (11/95 and 8/04).

b. Emissions limitation:

Visible emissions of fugitive dust discharging from any transfer point shall not exceed 10% opacity.

Applicable Compliance Method:

The permittee demonstrated compliance with the visible emissions limitation through emissions test performed on July 9 and 10, 2002, and November 18, 2002.

If required, compliance with the visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR, Part 60, Appendix A, Method9.

g) Miscellaneous Requirements

(1) None.



6. F008, Screens

Operations, Property and/or Equipment Description:

Primary and secondary screening operations including 3 screens

- 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 operation(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 are identified below. 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)	Particulate emissions (PE) shall not exceed 2.86 pounds per hour (lbs/hr) and 12.5 tons per year (TPY). The requirements of this rule also include compliance with the requirements established pursuant to 40 CFR Part 60, Subpart OOO. See b)(2)a., b)(2)b., and c)(1)
b.	OAC rule 3745-17-08(B)	This emissions unit is exempt from the requirements established under OAC rule 3745-17-08(B) pursuant to OAC rule 3745-17-08(A)(1).
c.	OAC rule 3745-17-07(B)	This emissions unit is exempt from the visible emissions limitation established under OAC rule 3745-17-07(B)(1) pursuant to OAC rule 3745-17-11(B)(11)(e).



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
d.	40 CFR Part 60, Subpart OOO	Visible emissions of fugitive dust discharging from the screens shall not exceed 10% opacity.
e	40 CFR Part 60, Subpart A	See b)(2)c.

(2) Additional Terms and Conditions

- a. The permittee shall employ best available control measures during all screening operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. Compliance with the Best Available Technology (BAT) requirements shall be demonstrated by applying water at sufficient frequencies to maintain the material in moist condition. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- b. The hourly PE limitation was established to reflect the maximum hourly potential to emit. Therefore it is not necessary to develop additional monitoring, recordkeeping, and/or reporting requirements to ensure compliance with this limitation.
- c. The permittee shall demonstrate compliance with the applicable provisions of 40 CFR Part 60, Subpart OOO in accordance with 40 CFR Part 60, Subpart A.

c) Operational Restrictions

- (1) The permittee shall apply water to all fugitive dust emissions points whenever necessary to ensure compliance with the visible emissions limitation.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the total amount of aggregate processed by this emissions unit, in tons.
- (2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the secondary crusher. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emissions incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.



If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

- (3) The permittee shall maintain records of any period of time during which water was not applied to a fugitive dust emissions points when it would have been necessary in order to ensure compliance with the visible emissions limitation.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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 following information shall be included in the annual PER:
 - a. An identification of any period of time during which water was not applied to a fugitive dust emissions points when it would have been necessary in order to ensure compliance with the visible emissions limitation;
 - b. Each daily check during which any visible particulate emissions were observed from the secondary crusher; and
 - c. Any corrective actions taken to minimize or eliminate the visible particulate emissions.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions limitations:

PE shall not exceed 2.86 lb/hr and 12.5 TPY.

Applicable Compliance Method:

The hourly PE limitation was established by summing the maximum hourly particulate emissions rates for the 3 screens as determined by multiplying the maximum hourly production rate for each by the emissions factor from USEPA AP-42 Chapter 11.19.2, Table 11.19.2-2 for controlled screening operations (8/04).



600 tons/hr * 0.0022 lb PE/ton = 1.32 lb PE/hr
400 tons/hr * 0.0022 lb PE/ton = 0.88 lb PE/hr
300 tons/hr * 0.0022 lb PE/ton = 0.66 lb PE/hr

Compliance with the annual PE limitation may be demonstrated by multiplying the actual annual aggregate produced, as a sum of the records required in d)(1), by the appropriate emissions factor from USEPA AP-42 Chapter 11.19.2, Table 11.19.2-2 for controlled screening operations (8/04).

b. Emissions limitation:

Visible emissions of fugitive dust discharging from the screens shall not exceed 10% opacity.

Applicable Compliance Method:

The permittee demonstrated compliance with the visible emissions limitation through emissions test performed on July 9 and 10, 2002.

If required, compliance with the visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR, Part 60, Appendix A, Method9.

g) Miscellaneous Requirements

(1) None.



7. F010, Lime Line

Operations, Property and/or Equipment Description:

Screen and modified #9 aggregate and lime lines

- 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 operation(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 are identified below. 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)	Particulate emissions (PE) shall not exceed 0.52 pound per hour (lb/hr) and 0.13 ton per rolling, 12-month period. The requirements of this rule also include compliance with the requirements established pursuant to 40 CFR Part 60, Subpart OOO. See b)(2)a., b)(2)b., and c)(1)
b.	OAC rule 3745-17-08(B)	This emissions unit is exempt from the requirements established under OAC rule 3745-17-08(B) pursuant to OAC rule 3745-17-08(A)(1).
c.	OAC rule 3745-17-07(B)	This emissions unit is exempt from the visible emissions limitation established under OAC rule 3745-17-07(B)(1) pursuant to OAC rule 3745-17-11(B)(11)(e).



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
d.	40 CFR Part 60, Subpart OOO	Visible emissions of fugitive dust discharging from the screens and any transfer point shall not exceed 10% opacity.
e	40 CFR Part 60, Subpart A	See b)(2)c.

(2) Additional Terms and Conditions

- a. The permittee shall employ best available control measures during all screening and material handling operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to perform the following control measures to ensure compliance:

<u>Material Handling Operations</u>	<u>Control Measures</u>
Screen and modified #9 aggregate and lime lines	Inherent moisture/water suppression system

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

- b. For each emissions unit 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 d)(1), 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 the use of control measures is no longer necessary.
- c. The permittee shall demonstrate compliance with the applicable provisions of 40 CFR Part 60, Subpart OOO in accordance with 40 CFR Part 60, Subpart A.

c) Operational Restrictions

- (1) The modified #9 aggregate and lime lines shall not process or convey more than 50,000 tons of aggregate per rolling, 12-month period.

d) Monitoring and/or Recordkeeping Requirements

- (1) Except as otherwise provided in this section, for 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>
Screen and modified #9 aggregate and lime lines	Daily

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

- (2) The permittee may, upon receipt of written approval from Ohio EPA, Central District Office (CDO), 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.
- (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 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.

The information in d)(3)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.

- (4) The permittee shall maintain monthly records of the following information:
 - a. The rolling, 12-month summation of the production rates for the modified #9 aggregate and lime lines.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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 following information shall be included in the annual PER:
 - a. each day during which an inspection was not performed by the required frequency;
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented; and



- c. each month during which the rolling, 12 month limitation of 50,000 tons of material processed or conveyed was exceeded.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emissions limitations:

PE shall not exceed 0.52 lb/hr and 0.13 tons per rolling, 12-month period.

Applicable Compliance Method:

The hourly PE limitation was established by summing the calculated hourly emissions rate for each screening and conveying operation. The calculated hourly emissions rate for each type of operation was determined by multiplying the maximum hourly production rate (110 tons/hr) by the appropriate emissions factor for each type of operation (0.0036 for controlled fines screening and 0.00014 for 8 controlled conveyor transfer points) from USEPA AP-42 Chapter 11.19.2, Table 11.19.2-2 (8/04).

Compliance with the rolling, 12-month PE limitation shall be demonstrated by multiplying the actual rolling, 12-month summation of material processed for screening and conveying operations required in d)(4) by the appropriate emissions factor for each type of operation (0.0036 for controlled fines screening and 0.00014 for controlled conveyor transfer points) from USEPA AP-42 Chapter 11.19.2, Table 11.19.2-2 (8/04).

- b. Emissions limitation:

Visible emissions of fugitive dust discharging from the screens and any transfer point shall not exceed 10% opacity.

Applicable Compliance Method:

Compliance with the visible emissions limitation shall be determined in accordance with the performance testing requirements established in f)(2) below.

- (2) The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

- a. The emission testing shall be conducted within 3 months after issuance of the permit.
- b. The emission testing shall be conducted to demonstrate compliance with the visible emissions limitations established pursuant to 40 CFR Part 60, Subpart OOO.



- c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

40 CFR, Part 60, Appendix A, Method9

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted under those representative conditions that challenge to the fullest extent possible a facility's ability to meet the applicable emissions limits and/or control requirements, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. Although this generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed the most challenging control scenario. Failure to test under these conditions is justification for not accepting the test results as a demonstration of compliance.
- e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).
- f. Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
- g. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

g) Miscellaneous Requirements

- (1) None.



8. F011, Lime Storage Piles

Operations, Property and/or Equipment Description:

Storage Piles, modified #9 aggregate and lime line

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 operation(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 are identified below. 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)	Particulate emissions (PE) shall not exceed 2.48 tons per year (TPY). No visible emissions from storage piles except for one minute during any 60-minute observation period. See b)(2)a. through b)(2)d.
b.	OAC rule 3745-17-08(B)	This emissions unit is exempt from the requirements established under OAC rule 3745-17-08(B) pursuant to OAC rule 3745-17-08(A)(1).
c.	OAC rule 3745-17-07(B)	This emissions unit is exempt from the visible emissions limitation established under OAC rule 3745-17-07(B)(1) pursuant to OAC rule 3745-17-11(B)(11)(e).



(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 permittee’s application, the permittee has committed to watering in sufficient quantities to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- b. The above-mentioned control measures 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 d)(1) that the control measure is necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure shall continue during any such operation until further observation confirms that the use of the control measure is no longer necessary.
- 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 permittee’s application, the permittee has committed to watering in sufficient quantities to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- d. The above-mentioned control measures shall be employed for wind erosion from each storage pile if the permittee determines as a result of the inspection conducted pursuant to d)(1) that the control measure is necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure shall continue during any such operation until further observation confirms that the use of the control measure is no longer necessary. Implementation of the control measure 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.

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 minimum frequencies:

<u>Storage pile identification</u>	<u>Minimum Inspection Frequency</u>
Modified #9 aggregate and lime storage	Daily



piles	
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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 minimum frequencies:

<u>Storage pile identification</u>	<u>Minimum Inspection Frequency</u>
Modified #9 aggregate and lime storage piles	Daily

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 minimum frequencies:

<u>Storage pile identification</u>	<u>Minimum Inspection Frequency</u>
Modified #9 aggregate and lime storage piles	Daily

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 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 events have ended.

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

- (2) The permittee may, upon receipt of written approval from Ohio EPA, Central District Office (CDO), 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.
- (3) 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; and



c. the dates the control measures were implemented.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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 following information shall be included in the annual PER:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection that 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 performed as a result of an inspection, was not implemented.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions limitation:

PE shall not exceed 2.48 TPY.

Applicable Compliance Method:

The annual PE limitation was established using the appropriate emissions factors for storage pile load-in, load-out operations, and wind erosion from pile surfaces and the following calculations:

Storage Pile load-in and load-out

$$E = k (0.0032)[(U/5)^{1.3}/(M/2)^{1.4}]$$

where,

E = emissions factor (lb/ton)

k = particle size multiplier (0.74)

U = mean wind speed (30 mph)

M = material moisture content (1.87% for modified #9 aggregate and 8.79% for lime)

The calculation is performed using the maximum annual production rate (50,000 tons) and for each material type to account for the differences in moisture content, the result is multiplied by 2 to account for both load-in and load-out at each pile type. The result is divided by 2,000 to convert from pounds to tons and a control efficiency of 95% was used to account for the applicable control



measures (PE = 0.07 TPY for load-in and load-out operations from modified #9 aggregate storage piles and 0.008 TPY from lime storage piles).

Wind Erosion

$$E = 1.7(s/1.5)[(365-p)/235](f/15)A$$

where,

E = emissions factor (lbs/day)

s = silt content (30.08)

p = number of days with precipitation > 0.01 inches (140, NWS Toledo)

f = percent of time winds exceed 12 mph at mean pile height (30%, Akron-Canton)

A = total surface area of storage piles (4.0 acres)

The calculation is performed using the worst-case silt content (modified #9 aggregate) and is multiplied by the number of days per year (365). The result is divided by 2,000 to convert from pounds to tons and a control efficiency of 95% was used to account for the applicable control measures (PE = 2.4 TPY from modified #9 aggregate and lime storage piles).

b. Emissions limitation:

No visible emissions from storage piles except for one minute during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the visible emission limitation specified above shall be determined in accordance with Test Method 22 as set forth in 40 CFR Part 60, Appendix A, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

g) Miscellaneous Requirements

- (1) None.



9. F013, Mineral Extraction

Operations, Property and/or Equipment Description:

Mineral extraction; overburden removal, blasting, loading, and reclamation (fka: Z001)

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 operation(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 are identified below. 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.	None	See b)(2)a. through b)(2)c.

(2) Additional Terms and Conditions

a. Emissions units F013 was installed prior to January 1, 1974; therefore, pursuant to OAC rule 3745-31-05(A)(3)(a)(i), Best Available Technology (BAT) requirements are not established for this emissions unit.

b. This facility is located in Union County; therefore, pursuant to OAC rule 3745-17-08(A)(1), the reasonably available control measures identified in OAC rule 3745-17-08(B) are not applicable to the fugitive dust emissions associated with emissions unit F013 because they are not located within an area identified in Appendix A.

c. This renewal PTIO is being issued to satisfy the operating permit requirements established pursuant to OAC rule 3745-31-02(A)(1)(c).



- c) Operational Restrictions
 - (1) None.
- d) Monitoring and/or Recordkeeping Requirements
 - (1) None.
- e) Reporting Requirements
 - (1) None.
- f) Testing Requirements
 - (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:
 - a. None.
- g) Miscellaneous Requirements
 - (1) None.