State of Ohio Environmental Protection Agency

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Columbus, Ohio 43215

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www.epa.state.oh.us

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

Certified Mail

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

4/30/2009

Beth Mowrey
SHELLY MATERIALS - OSTRANDER
P.O. Box 266
8775 Blackbird Road
Thornville, OH 43076

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 0180000178
Permit Number: 01-12183
Permit Type: Initial Installation
County: Union

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, 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, Central District Office. This permit has been posted to the Division of Air Pollution Control (DAPC) Web page www.epa.state.oh.us/dapc.

Sincerely,

Michael W. Ahern

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

Cc: Ohio EPA-CDO

State of Ohio Environmental Protection Agency
Division of Air Pollution Control

FINAL

Air Pollution Permit-to-Install and Operate
for
SHELLY MATERIALS - OSTRANDER

Facility ID:	0180000178
Permit Number:	01-12183
Permit Type:	Initial Installation
Issued:	4/30/2009
Effective:	4/30/2009
Expiration:	4/30/2019

State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Air Pollution Permit-to-Install and Operate
for
SHELLY MATERIALS - OSTRANDER

Table of Contents

Authorization 1

A. Standard Terms and Conditions 3

1. What does this permit-to-install and operate ("PTIO") allow me to do? 4
2. Who is responsible for complying with this permit? 4
3. What records must I keep under this permit? 4
4. What are my permit fees and when do I pay them? 4
5. When does my PTIO expire, and when do I need to submit my renewal application? 4
6. What happens to this permit if my project is delayed or I do not install or modify my source? 5
7. What reports must I submit under this permit? 5
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? 5
9. What are my obligations when I perform scheduled maintenance on air pollution control equipment? 5
10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report? 6
11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located? 6
12. What happens if one or more emissions units operated under this permit is/are shut down permanently? 6
13. Can I transfer this permit to a new owner or operator? 6
14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"? 7
15. What happens if a portion of this permit is determined to be invalid? 7

B. Facility-Wide Terms and Conditions 8

C. Emissions Unit Terms and Conditions 10

1. F021, F021 11
2. F022, F022 16
3. F023, F023 21
4. F024, F024 26
5. F025, F025 33
6. 026, F026 40

Authorization

Facility ID: 0180000178
Application Number(s): A0001681, A0037347
Permit Number: 01-12183
Permit Description: Screens and material handling.
Permit Type: Initial Installation
Permit Fee: $4,900.00
Issue Date: 4/30/2009
Effective Date: 4/30/2009
Expiration Date: 4/30/2019
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15
This document constitutes issuance to:

SHELLY MATERIALS - OSTRANDER
8328 WATKINS RD
Jerome Twp., OH 43061

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, 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

Chris Korleski
Director

Authorization (continued)

Permit Number: 01-12183
Permit Description: Screens and material handling.

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

Emissions Unit ID:	**F021**
Company Equipment ID:	F021
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**F022**
Company Equipment ID:	F022
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**F023**
Company Equipment ID:	F023
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable

Group Name: Aggr Line

Emissions Unit ID:	**F024**
Company Equipment ID:	F024
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**F025**
Company Equipment ID:	F025
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**F026**
Company Equipment ID:	F026
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable

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, Central 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

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.

B. Facility-Wide Terms and Conditions

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.

C. Emissions Unit Terms and Conditions

1. F021, F021

Operations, Property and/or Equipment Description:

Mineral Extraction

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)	Fugitive particulate emissions (PE) from mineral extraction and material handling activities shall not exceed 7.67 TPY. Visible particulate emissions shall not exceed 20% opacity as a 3-minute average from the following mineral extraction operations: removal of overburden, truck loading, drilling, and overburden unloading (backfilling). The permittee shall employ best available control measures that are sufficient to minimize or eliminate visible particulate emissions of fugitive dust. See b)(2)a. through b)(2)d.

(2) Additional Terms and Conditions

a. The following mineral extraction operations are covered by this permit and subject to the above mentioned requirements:

Removal of overburden

Truck loading

Blasting

Drilling

Overburden unloading (backfilling)

b. 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 permittee's permit application, the permittee has committed to perform the following control measures to ensure compliance:

Mineral Extraction Operation	Control Measure(s)
overburden removal	minimization of disturbed land surface, inherent moisture, and watering if necessary.
truck loading	inherent moisture, watering if necessary, and quarry highwalls act as wind guards
blasting	minimize area to be blasted and prevention of overshooting
drilling	dust ejector system with exhaust to fabric filter
overburden unloading (backfilling)	re-vegetation, inherent moisture and watering if necessary.

Nothing in the above table shall prohibit the permittee from employing other control measures to ensure compliance.

c. The above-mentioned control measure(s) shall be employed during blasting of overburden and limestone, drilling of overburden and limestone, bulldozing of overburden, material handling, and material transport 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.

d. 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).

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 mineral extraction operation in accordance with the following frequencies:

mineral extraction identification	minimum inspection frequency
Removal of overburden	Daily
Truck loading	Daily
Blasting	Daily
Drilling	Daily
Overburden unloading (backfilling)	Daily

(2) No inspection shall be necessary if any precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

(3) The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for mineral extraction activities. The inspections shall be performed during representative, normal operating conditions.

(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, 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 in (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 limitation(s) in b)(1) of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission limitation:
Total fugitive particulate emissions (PE) from mineral extraction and material handling activities shall not exceed 7.67 TPY.

Applicable Compliance Method:

Compliance with the annual emission limitation shall be demonstrated by the following calculation based on the emission factors in AP-42 section (1/95) and RACM 2.1.4 (9/80):

Removal of overburden = (20.2 lbs/VMT * 172.17 VMT) / 2,000 lb/ton = 1.74 TPY

Truck loading of overburden= (0.037 lbs/ton X 616,810 tons/year)/ 2,000 lb/ton = 11.41 TPY * 0.05 (95% control efficiency) = 0.57 TPY controlled

Overburden unloading- Berm Building = (0.002 lbs/ton * 61,681 tons/year)/2000 lb/ton = 0.06 TPY * (95% control efficiency-inherent moisture) = 0.003 TPY

Overburden unloading- Pit Backfilling = (0.012 lbs/ton * 61681 tons/year)/2000 lb/ton = 0.37 TPY * (95% control efficiency-inherent moisture) = 0.02 TPY

Drilling Activities = (1.3 lb/hole X 5,280 holes/year) / 2,000 lb/ton = 3.43 TPY

Blasting Activities = (0.001lbs/ton X 2,750,000 tons) / 2,000 lb/ton = 1.38 TPY

Limestone handling – loading into trucks = E = 0.74(0.0032)[(8.7/5)^1.3 /(7.5/2)^1.4] = 0.000765 lb/ton * 2,750,000 tons = 2103.75 lbs. * 0.50 (50% control efficiency) = 1051.88 lbs /2000lbs per ton = 0.53 tons/yr.

The sum of the above is 7.67 tons of PE/yr.

b. Emission Limitation:
Visible emissions of fugitive dust shall not exceed 20 percent opacity as a three-minute average.

Applicable Compliance Method:

If required, visible particulate emissions shall be determined according to USEPA Method 9.

g) Miscellaneous Requirements

(1) None.

2. F022, F022

Operations, Property and/or Equipment Description:

Roadways and Parking; 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 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)	Fugitive particulate emissions (PE) shall not exceed 78.43 tons per year. No visible PE except for one minute during any 60-minute period from paved roadways and parking areas. No visible PE except for three minutes during any 60-minute period from unpaved roadways and parking areas. Best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust (See Sections b)(2)a. through b)(2)e.

(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 permit application, the permittee has committed to treat the roadways and parking areas 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 needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved or unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.

c. Any unpaved roadway, which during the term of this permit is paved or takes on the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled using appropriate dust control measures for paved roadways. Any unpaved roadway that takes on the characteristics of a paved surface due to the application of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways. Any unpaved area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.

d. 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.

e. 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 event(s) has (have) ended, except if the next required inspection is within one week.

(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 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 (3)(d) shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, and shall be updated on a calendar quarter 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 in Section A.1 of the terms and conditions of this permit shall be determined in accordance with the following methods:

a. <u>Emission Limitations</u>:
Fugitive particulate emissions (PE) shall not exceed 166.57 tons per year.

<u>Applicable Compliance Method</u>:

Compliance shall be determined based on the emission factor calculations for paved and unpaved roadways and parking areas in AP-42 section 13.2.1 (paved), and 13.2.2 (unpaved), (11/06). Initial compliance has been determined utilizing inputs provided by the permittee in their application as follows:

Paved sections:

EF = ((k*(sL/2)^0.65*(W/3)^1.5)-C)*(1-P/(4*365))

Where:

EF = size-specific emission factor (lb/VMT)

k = particle size multiplier (lb/VMT) = 0.082

sL = road surface silt loading (g/m^2) = 8.2

W = mean vehicle weight (tons) = 30.5

C = emission factor for exhaust, brake wear, and tire wear (lb/VMT) = 0.00047

P = number of rain days per year >0.01 in. = 140

Therefore, EF = 6.01 lb/VMT

Maximum travel = 89,215 VMT/year

(89,215 VMT/year)(6.01 lb/VMT)(1 ton/2,000 lbs) = 268.091 TPY uncontrolled PE

Assume 95% control efficiency for roadway watering (engineering estimate of permittee)

(268.091 TPY) (0.05) = 13.40 TPY controlled PE

Unpaved sections:

EF = ((k*(s/12)^a*(W/3)^b))((365-p)/365)

Where:

k (lb/VMT) = 4.9

a = 0.8

b = 0.5

s = % surface material silt content = 10

W = mean vehicle weight (tons) = 49.55

p = number of rain days per year >0.01 in. = 140

Therefore, EF = 10.61 lb/VMT

Maximum travel = 245,179 VMT/year

(245,179 VMT/year)(10.61 lb/VMT)(1 ton/2,000 lbs) = 1300.67 TPY uncontrolled PE

Assume 95% control efficiency for roadway watering (engineering estimate of permittee)

(1300.67) (0.05) = 65.03 TPY controlled PE

Total PE = 65.03 TPY + 13.40 TPY = 78.43 TPY

b. Emissions Limitation:
No visible PE except for one minute during any 60-minute period from paved roadways and parking areas.

Applicable Compliance Method:

If required, visible emissions of fugitive dust shall be determined according to USEPA Method 22.

c. Emissions Limitation:
No visible PE except for three minutes during any 60-minute period from unpaved roadways and parking areas.

Applicable Compliance Method:

If required, visible emissions of fugitive dust shall be determined according to USEPA Method 22.

g) Miscellaneous Requirements

(1) None.

3. F023, F023

Operations, Property and/or Equipment Description:

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 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)	1.13 tons/year of fugitive particulate emissions (PE). No visible PE except for one minute during any 60-minute period. Best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust (See b)(2)a. through b)(2)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 maintain minimal drop heights for stackers and front-loaders, and chemical stabilization/dust suppressants and/or watering/sprinkling systems 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, 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).

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:

storage pile identification	minimum load-in inspection frequency
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:

storage pile identification	minimum load-out inspection frequency
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:

storage pile identification	minimum wind erosion inspection frequency
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, except if the next required inspection is within one week.

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

(6) The permittee 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 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 in b)(1) of the terms and conditions of this permit shall be determined in accordance with the following methods:

a. Emissions Limitations:
1.13 tons/year of fugitive PE

Applicable Compliance Method:

Compliance with fugitive PE limitations shall be determined by using the emission factor equations in Sections 13.2.4 and 13.2.5, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 1/95), for load-in operations, load-out operations, and wind erosion. These emission limits were based on a total (3 load in operations at 5,500,000 tons per year each) maximum production of 5,500,000 tons per year, a maximum storage surface area of 23.64 acres, and a 95 % overall control efficiency for PE and PM10.

Load in/Load out emissions:

EF = k*0.0032*(U/5)^1.3/(M/2)^1.4

Where:

k = particle size multiplier for TSP = 0.74

U = mean wind speed = 8.7

M = moisture content of material = 7.50%

EF = 0.0007752 pounds/ton

Load in = 1

Load out = 1

Throughput = 15,717,072

Control efficiency = 95%

emissions = (0.000775 * 15,717,072 * (1+1) * 0.05) / 2,000 lbs/ton = 0.609 TPY

Wind erosion:

EF = 1.7*(s/1.5)*((365-p)/235)*(f/15)

Where:

s = silt content of stored material, wt. % = 3.35

p = days/yr with > 0.01 inch precipitation = 140

f = % of time wind speed exceeds 12 mph = 30

A = total surface area of piles, acres = 1.58

Control efficiency = 75%

EF = (7.2560 pounds/day/acre * 365 days * 1.58 acres * 0.25(for 75% control efficiency)) / 2,000 lbs/ton = 0.523 TPY

Total PE from storage piles:

0.609 TPY for load in/out + 0.523 TPY for wind erosion = 1.132 TPY

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

Applicable Compliance Method:

If required, visible emissions of fugitive dust shall be determined according to USEPA Method 22, with the modifications found in OAC rule 3745-17-03(B)(4).

g) Miscellaneous Requirements

(1) None.

4. F024, F024

Operations, Property and/or Equipment Description:

Phase I Aggregate Processing Line: Crushers (3), Screens (4), Hopper (1), Conveyor (8), Belts (7), Feeders (3), Stackers (7), Bins (11), Transfers (2).

Mineral Extraction

Source Description	**Manufacturer**
Primary Jaw Crusher (1)	Hewitt Robins
Secondary Crusher (1)	Stedman
Tertiary Crusher (1)	ISC
Screen (3)	SECO
Hopper (1)	Misc.
Feeders (3)	Hewitt Robbins
Surge & Misc Bins (7)	Misc.
Feed and Takeout Belts (7)	Misc.
Conveyors (8)	Misc.
Stacker (7)	Misc.
Transfer (2)	Misc.

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)	Fugitive particulate emissions from all aggregates shall not exceed 30.58 tons/yr. The requirements of this rule also include compliance with the requirements of NSPS 40 CFR Part 60, Subpart OOO. The permittee shall employ best available control measures that are sufficient to minimize or eliminate fugitive dust. See b)(2)a. below.
b.	40 CFR Part 60 Subpart OOO	Visible emissions of fugitive dust from each crusher shall not exceed 15% opacity. Visible emissions of fugitive dust shall not exceed 10% opacity, from screening, transfer points, and conveyors.

(2) Additional Terms and Conditions

Primary Jaw Crusher (1)

Secondary Crusher (1)

Tertiary Crusher (1)

Screens (3)

Hopper (1)

Feeders (3)

Surge & Misc Bins (7)

Feed and Takeout Belts (7)

Conveyors (8)

Stackers (7)

Transfer (2)

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

b. For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

c. Except at times when sufficient rainfall exists to eliminate visible emissions of fugitive dust, the wet spray system shall be in operation at all times when this emission unit is operating in order to minimize or eliminate visible emissions of fugitive dust.

c) Operational Restrictions

(1) The maximum annual production rate for the aggregate processing line shall not exceed 2,750,000 tons of aggregate per year.

d) Monitoring and/or Recordkeeping Requirements

(1) For aggregate processing operations that are not adequately enclosed, the permittee shall perform inspections of such operations daily for the following units:

Material Handling Operation	minimum inspection frequency
Primary Crusher	daily
Secondary Crushers (1)	daily
Tertiary Crushers (1)	daily
Screens (3)	daily
Hopper (1)	daily
Feeders (3)	daily
Surge and Misc. Bins (7)	daily

Feed and Takeout Belts (7)	daily
Conveyors (8)	daily
Stackers (7)	daily
Transfers (2)	daily

a. The information shall be kept separately for the crushers, the screens, and the transfer points/material handling points identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

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

c. The permittee shall maintain records of the following information:

i. the date and reason any required inspection was not performed;

ii. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);

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

iv. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The permittee shall maintain monthly records of the total tons of aggregate processed in this emissions unit.

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.

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

Source Number	Source Description	NSPS Regulation (Subpart)
F024	Phase 1 Aggregate Processing Line	OOO

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

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

a. construction date (no later than 30 days after such date);

b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);

c. actual start-up date (within 15 days after such date); and

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

Reports are to be sent to:

Ohio Environmental Protection Agency

DAPC - Air Quality Modeling and Planning

P.O. Box 1049

Columbus, OH 43216-1049

and

Central District Office

Division of Air Pollution Control

50 West Town Street Suite 700

Columbus, OH 43215

f) Testing Requirements

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

a. Emissions Limitations:

Fugitive particulate emissions (PE) from aggregate processing shall not exceed 30.58 TPY.

Applicable Compliance Method:

Compliance with fugitive PE limitations shall be determined by using the emission factors in Section 11.19.2 (8/04), in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1. These emission limits were based on the information submitted in the PTIO application on September 9th, 2008, for each piece of equipment.

To calculate the total PE from the aggregate processing line, total the emissions from each crusher, screen, and material handling operation using the following calculations:

Transfer points:

[(number of transfer points) (maximum annual production rate) (0.00014 lb PE / ton) (conveyor transfer point controlled))] / 2,000 lb/ton = controlled PE.

Crushers:

For each crusher:

[(maximum production rate) (0.0012 lb PE/ton (emission factor for controlled crushing))] / 2,000 lb/ton = controlled PE

Screens:

For each screen: [(maximum production rate) (0.0022 lb PE/ton (emission factor for controlled screening))] / 2,000 lb/ton = controlled PE

Total PE for aggregate processing:

Transfer points + crushers + screens = total PE emission rate
*PTIO application as submitted to CDO on September 4th, 2007.

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

Applicable Compliance Method:

Visible particulate emissions shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". See (f)(2) below.

c. Emissions Limitation:
Visible emissions of fugitive dust discharging from the screening operation, transfer points, or conveyors, shall not exceed 10% opacity.

Applicable Compliance Method:

Visible particulate emissions shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". See (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 180 days of issuance after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup of the emissions unit

b. The emission testing shall be conducted to demonstrate compliance with the visible emissions limits.

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

Visible Emissions	Method 9	40 CFR Part 60, Appendix A

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

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

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.

5. F025, F025

Operations, Property and/or Equipment Description:

Phase II Aggregate Processing Line: Crushers (3), Screens (3), Hopper (2), Conveyor (8), Belts (7), Feeders (4), Stackers (5), Bins (5).

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)	Fugitive particulate emissions from all aggregates shall not exceed 27.12 tons/yr. The requirements of this rule also include compliance with the requirements of NSPS 40 CFR Part 60, Subpart OOO. The permittee shall employ best available control measures that are sufficient to minimize or eliminate fugitive dust. See b)(2)a. below.
b.	40 CFR Part 60 Subpart OOO	Visible emissions of fugitive dust from each crusher shall not exceed 15% opacity. Visible emissions of fugitive dust shall not exceed 10% opacity, from screening, transfer points, and conveyors.

(2) Additional Terms and Conditions

Primary Jaw Crusher (1)

Secondary Crusher (1)

Tertiary Crusher (1)

Screens (3)

Hopper (1)

Feeders (3)

Surge & Misc Bins (7)

Feed and Takeout Belts (7)

Conveyors (8)

Stackers (7)

Transfer (2)

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

b. For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

c. Except at times when sufficient rainfall exists to eliminate visible emissions of fugitive dust, the wet spray system shall be in operation at all times when this emission unit is operating in order to minimize or eliminate visible emissions of fugitive dust.

c) Operational Restrictions

(1) The maximum annual production rate for the aggregate processing line shall not exceed 2,750,000 tons of aggregate per year.

d) Monitoring and/or Recordkeeping Requirements

(1) For aggregate processing operations that are not adequately enclosed, the permittee shall perform inspections of such operations daily for the following units:

Material Handling Operation	minimum inspection frequency
Primary Crusher	daily
Secondary Crushers (1)	daily
Tertiary Crushers (1)	daily
Screens (3)	daily
Hopper (1)	daily
Feeders (3)	daily
Surge and Misc. Bins (7)	daily
Feed and Takeout Belts (7)	daily
Conveyors (8)	daily
Stackers (7)	daily
Transfers (2)	daily

a. The information shall be kept separately for the crushers, the screens, and the transfer points/material handling points identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

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

c. The permittee shall maintain records of the following information:

i. the date and reason any required inspection was not performed;

ii. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);

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

iv. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

(2) The permittee shall maintain monthly records of the total tons of aggregate processed in this emissions unit.

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

Source Number	Source Description	NSPS Regulation (Subpart)
F025	Phase 2 Aggregate Processing Line	OOO

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

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

a. construction date (no later than 30 days after such date);

b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);

c. actual start-up date (within 15 days after such date); and

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

Reports are to be sent to:

Ohio Environmental Protection Agency

DAPC - Air Quality Modeling and Planning

P.O. Box 1049

Columbus, OH 43216-1049

and

Central District Office

Division of Air Pollution Control

50 West Town Street Suite 700

Columbus, OH 43215

f) Testing Requirements

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

a. Emissions Limitations:

Fugitive particulate emissions (PE) from aggregate processing shall not exceed 27.12 TPY.

Applicable Compliance Method:

Compliance with fugitive PE limitations shall be determined by using the emission factors in Section 11.19.2 (8/04), in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1. These emission limits were based on the information submitted in the PTIO application on September 9th, 2008, for each piece of equipment.

To calculate the total PE from the aggregate processing line, total the emissions from each crusher, screen, and material handling operation using the following calculations:

Transfer points:

[(number of transfer points) (maximum annual production rate) (0.00014 lb PE / ton) (conveyor transfer point controlled))] / 2,000 lb/ton = controlled PE.

Crushers:

For each crusher:

[(maximum production rate) (0.0012 lb PE/ton (emission factor for controlled crushing))] / 2,000 lb/ton = controlled PE

Screens:

For each screen: [(maximum production rate) (0.0022 lb PE/ton (emission factor for controlled screening))] / 2,000 lb/ton = controlled PE

Total PE for aggregate processing:

Transfer points + crushers + screens = total PE emission rate
*PTIO application as submitted to September 4th, 2007.

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

Applicable Compliance Method:

Visible particulate emissions shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". See (f)(2) below.

c. Emissions Limitation:
Visible emissions of fugitive dust discharging from the screening operation, transfer points, or conveyors, shall not exceed 10% opacity.

Applicable Compliance Method:

Visible particulate emissions shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". See (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 180 days of issuance after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup of the emissions unit

b. The emission testing shall be conducted to demonstrate compliance with the visible emissions limits.

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

Visible Emissions	Method 9	40 CFR Part 60, Appendix A

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

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

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.

6. 026, F026

Operations, Property and/or Equipment Description:

Aggregate Wash Plant: Wash Screen (1), Fine Recovery Screen (1), Sand Screw (1), Belts (4), Feeders (1), Stackers (5), Bins (1), Cyclone (1).

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)	Fugitive particulate emissions from all aggregates shall not exceed 12.21 tons/yr. The requirements of this rule also include compliance with the requirements of NSPS 40 CFR Part 60, Subpart OOO. The permittee shall employ best available control measures that are sufficient to minimize or eliminate fugitive dust. See b)(2)a. below.
b.	40 CFR Part 60 Subpart OOO	Visible emissions of fugitive dust from each crusher shall not exceed 15% opacity. Visible emissions of fugitive dust shall not exceed 10% opacity, from screening, transfer points, and conveyors.

(2) Additional Terms and Conditions

Wash Screen (1)

Fines Recovery Screen (1)

Feed Bin (1)

Belt Feeder (1)

60-Foot Belt (1)

Screen Feed Belt (1)

Sand Screw (1)

Screw Discharge Belt (1)

Sand Radial Feed Belt (1)

Stackers (5)

Cyclone (1)

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

b. For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

c. Except at times when sufficient rainfall exists to eliminate visible emissions of fugitive dust, the wet spray system shall be in operation at all times when this emission unit is operating in order to minimize or eliminate visible emissions of fugitive dust.

c) Operational Restrictions

(1) The maximum annual production rate for the aggregate processing line shall not exceed 2,750,000 tons of aggregate per year.

d) Monitoring and/or Recordkeeping Requirements

(1) For aggregate processing operations that are not adequately enclosed, the permittee shall perform inspections of such operations daily for the following units:

Material Handling Operation	minimum inspection frequency
Wash Screen (1)	daily
Fines Recovery Screen (1)	daily
Feed Bin (1)	daily
Belt Feeder (1)	daily
60-Foot Belt (1)	daily
Screen Feed Belt (1)	daily
Sand Screw (1)	daily
Screw Discharge Belt (1)	daily
Sand Radial Feed Belt (1)	daily
Stackers (5)	daily
Cyclone (1)	daily

a. The information shall be kept separately for the crushers, the screens, and the transfer points/material handling points identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

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

c. The permittee shall maintain records of the following information:

i. the date and reason any required inspection was not performed;

ii. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);

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

iv. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

(2) The permittee shall maintain monthly records of the total tons of aggregate processed in this emissions unit.

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

Source Number	Source Description	NSPS Regulation (Subpart)
F026	Aggregate Wash Plant	OOO

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

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

a. construction date (no later than 30 days after such date);

b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);

c. actual start-up date (within 15 days after such date); and

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

Reports are to be sent to:

Ohio Environmental Protection Agency

DAPC - Air Quality Modeling and Planning

P.O. Box 1049

Columbus, OH 43216-1049

and

Central District Office

Division of Air Pollution Control

50 West Town Street Suite 700

Columbus, OH 43215

f) Testing Requirements

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

a. Emissions Limitations:

Fugitive particulate emissions (PE) from aggregate processing shall not exceed 12.21 TPY.

Applicable Compliance Method:

Compliance with fugitive PE limitations shall be determined by using the emission factors in Section 11.19.2 (8/04), in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1. These emission limits were based on the information submitted in the PTIO application on September 4th, 2007, for each piece of equipment.

To calculate the total PE from the aggregate processing line, total the emissions from each crusher, screen, and material handling operation using the following calculations:

Transfer points:

[(number of transfer points) (maximum annual production rate) (0.00014 lb PE / ton) (conveyor transfer point controlled))] / 2,000 lb/ton = controlled PE.

Crushers:

For each crusher:

[(maximum production rate) (0.0012 lb PE/ton (emission factor for controlled crushing))] / 2,000 lb/ton = controlled PE

Screens:

For each screen: [(maximum production rate) (0.0022 lb PE/ton (emission factor for controlled screening))] / 2,000 lb/ton = controlled PE

Total PE for aggregate processing:

Transfer points + crushers + screens = total PE emission rate
*PTIO application as submitted to CDO on June 19th, 2008.

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

Applicable Compliance Method:

Visible particulate emissions shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". See (f)(2) below.

c. Emissions Limitation:
Visible emissions of fugitive dust discharging from the screening operation, transfer points, or conveyors, shall not exceed 10% opacity.

Applicable Compliance Method:

Visible particulate emissions shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". See (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 180 days of issuance after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup of the emissions unit

b. The emission testing shall be conducted to demonstrate compliance with the visible emissions limits.

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

Visible Emissions	Method 9	40 CFR Part 60, Appendix A

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

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

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.