



1/30/2015

Tony Muto
Evans Gravel, Inc. (Mt. Carmel Rd.)
4229 Round Bottom Road
Cincinnati, OH 45244

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 1431034229
Permit Number: P0118154
Permit Type: Renewal
County: Hamilton

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

Certified Mail

Table with 2 columns: No, TOXIC REVIEW; No, SYNTHETIC MINOR TO AVOID MAJOR NSR; No, CEMS; No, MACT/GACT; No, 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

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 Southwest Ohio Air Quality Agency at (513)946-7777 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,



Erica R. Engel-Ishida, Manager
Permit Issuance and Data Management Section, DAPC

Cc: SWOAQA



FINAL

**Division of Air Pollution Control
Permit-to-Install and Operate
for
Evans Gravel, Inc. (Mt. Carmel Rd.)**

Facility ID:	1431034229
Permit Number:	P0118154
Permit Type:	Renewal
Issued:	1/30/2015
Effective:	1/30/2015
Expiration:	10/28/2020



Division of Air Pollution Control
Permit-to-Install and Operate
for
Evans Gravel, Inc. (Mt. Carmel Rd.)

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Authorization

Facility ID: 1431034229
Application Number(s): A0052403
Permit Number: P0118154
Permit Description: PTIO Renewal permit for a mineral extraction facility and associated activities (roadways/parking areas and storage piles).
Permit Type: Renewal
Permit Fee: \$0.00
Issue Date: 1/30/2015
Effective Date: 1/30/2015
Expiration Date: 10/28/2020
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

Evans Gravel, Inc. (Mt. Carmel Rd.)
Mt. Carmel Road
Anderson Township, OH 45244

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

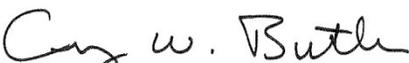
Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Southwest Ohio Air Quality Agency
250 William Howard Taft Rd.
Cincinnati, OH 45219
(513)946-7777

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



Final Permit-to-Install and Operate
Evans Gravel, Inc. (Mt. Carmel Rd.)
Permit Number: P0118154
Facility ID: 1431034229
Effective Date: 1/30/2015

Authorization (continued)

Permit Number: P0118154

Permit Description: PTIO Renewal permit for a mineral extraction facility and associated activities (roadways/parking areas and storage piles).

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

Emissions Unit ID:	F001
Company Equipment ID:	Roadways and Parking Areas
Superseded Permit Number:	P0097822
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	F002
Company Equipment ID:	Storage Piles
Superseded Permit Number:	P0097822
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	F003
Company Equipment ID:	Mineral Extraction
Superseded Permit Number:	P0097822
General Permit Category and Type:	Not Applicable



Final Permit-to-Install and Operate
Evans Gravel, Inc. (Mt. Carmel Rd.)
Permit Number: P0118154
Facility ID: 1431034229
Effective Date: 1/30/2015

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
Evans Gravel, Inc. (Mt. Carmel Rd.)
Permit Number: P0118154
Facility ID: 1431034229
Effective Date: 1/30/2015

B. Facility-Wide Terms and Conditions



Final Permit-to-Install and Operate

Evans Gravel, Inc. (Mt. Carmel Rd.)

Permit Number: P0118154

Facility ID: 1431034229

Effective Date: 1/30/2015

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
Evans Gravel, Inc. (Mt. Carmel Rd.)
Permit Number: P0118154
Facility ID: 1431034229
Effective Date: 1/30/2015

C. Emissions Unit Terms and Conditions



1. F001, Roadways and Parking Areas

Operations, Property and/or Equipment Description:

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), as effective 11/30/01	<p>Particulate emissions (PE) from paved and unpaved roadways and parking areas shall not exceed 1.83 tons per year (TPY).</p> <p>Emissions of particulate matter 10 microns and less in diameter (PM10) from paved and unpaved roadways and parking areas shall not exceed 0.42 TPY.</p> <p>There shall be no visible particulate emissions from any unpaved roadway or parking area except for a period of time not to exceed three (3) minutes during any sixty (60) minute observation period.</p> <p>There shall be no visible particulate emissions from any paved roadway or parking area except for a period of time</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		not to exceed one (1) minute during any sixty (60) minute observation period. See b)(2)a. through b)(2)f. See b)(2)g.
b.	OAC rule 3745-31-05(A)(3)(b), as effective 12/01/06	See b)(2)h.
c.	OAC rule 3745-17-07(B)(4) and OAC rule 3745-17-07(B)(5)	This emissions unit is exempt from the visible emissions limitations for fugitive dust, specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e), because the emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08.
d.	OAC rule 3745-17-08(B)	This emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08, therefore, the requirements of OAC rule 3745-17-08(B), which requires the installation of reasonably available control measures to prevent fugitive dust, do not apply to this emissions unit pursuant to OAC rule 3745-17-08(A)(1).

(2) Additional Terms and Conditions

- a. The permittee shall employ best available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to treat the unpaved roadways and parking areas by application of chemical stabilization/dust suppressants and/or watering 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 unpaved roadways and parking areas that are 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. 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.
- 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.
- e. The permittee shall employ best available control measures on all paved 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 ensure compliance by maintaining average speed limit, sweeping, and watering. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- f. Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure(s) specified above for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.
- g. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to the Ohio Revised Code (ORC) changes effective August 3, 2006 (Senate Bill 265 changes), such that BAT is no longer required by State regulations for National Ambient Air Quality Standards (NAAQS) pollutant(s) less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05, these emission limitations/control measures no longer apply.
- h. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE and PM10 emissions from this air contaminant source since the controlled potential to emit of PE and PM10 is less than 10 TPY each.



- 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 of the roadway segments and parking areas in accordance with the following frequencies:

<u>paved and unpaved roadways and parking areas</u>	<u>minimum inspection frequency</u>
all roads and parking areas	daily
 - (2) The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
 - (3) The permittee may, upon receipt of written approval from the appropriate field office, modify the above-mentioned inspection frequency if operating experiences indicate that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
 - (4) The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures; and
 - c. the dates the control measures were implemented.
- e) Reporting Requirements
 - (1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.
 - (2) 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.



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:

Particulate emissions (PE) from paved and unpaved roadways and parking areas shall not exceed 1.83 tons per year (TPY).

Emissions of particulate matter 10 microns and less in diameter (PM10) from paved and unpaved roadways and parking areas shall not exceed 0.42 TPY.

Applicable Compliance Method:

Compliance with the PE and PM10 emissions limitations shall be demonstrated by calculating the actual PE and PM10 emissions using site-specific data for the Vehicle Miles Travelled (VMT) from each roadway and parking segment(s) and the Emission Factors (EF) as calculated from AP 42, Fifth Edition, Volume I Chapter 13, Section 13.2.1, Paved Roads (1/2011) and Section 13.2.2, Unpaved Roads (11/2006).

The Applicable Emission Limitations were established based on the following equations from information supplied with the Application for PTI 14-05905, 4/19/2007, Application A0052403 for PTIO P0118154, and the AP-42 EFs:

$$E_{\text{paved}} = [(k)(sL/2)^{0.65}(W/3)^{1.5}][1 - (P/4N)]$$

Where:

E_{paved} = pound PE or PM10 per VMT

k = particle size multiplier, pound per VMT; 0.082 for PE and 0.016 for PM10

sL = silt loading, grains/ft²

W = mean vehicle weight, tons

P = precipitation, wet days, in the period

N = number of days in the period

Note – paved roadways and parking calculation used to establish Allowable emissions is from AP-42, Fifth Edition, Volume I, Chapter 13, Section 13.2.1 (10/2002); there would be no increase in the Allowable emissions from using the revised (1/2011) calculation

$$E_{\text{paved}} = [(0.082; 0.016)(4.3/2)^{0.65}(29.3/3)^{1.5}][1 - (130/4(365))]$$

E_{paved} = 3.75 pounds PE per VMT; 0.73 pound PM10 per VMT



3.75 pounds PE/VMT x 3823 VMT/year x 1 Ton/2000 pounds = 7.17 TPY PE, uncontrolled

0.73 pound PM10/VMT x 3823 VMT/year x 1 Ton/2000 pounds = 1.40 TPY PM10, uncontrolled

7.17 TPY PE, uncontrolled x (1 – 90% CE) = 0.72 TPY PE, controlled

1.40 TPY PM10, uncontrolled x (1 – 90% CE) = 0.14 TPY PM10, controlled

$$E_{\text{unpaved}} = [(k)(s/12)^a(W/3)^b][(365 - p)/365]$$

Where:

E_{unpaved} = pound PE or PM10 per VMT

k = particle size multiplier, pound per VMT; 4.9 for PE and 1.5 for PM10

s = surface material silt content, %

a = constants; 0.7 for PE, 0.9 for PM10

W = mean vehicle weight, tons

b = constant; 0.45 for PE and PM10

P = precipitation, wet days, in the period

$$E_{\text{unpaved}} = [(4.9; 1.5)(0.05/12)^{0.7;0.9}(29.3/3)^{0.45}][(365 - 130)/365]$$

$$E_{\text{unpaved}} = 4.63 \text{ pounds PE per VMT; } 1.18 \text{ pound PM10 per VMT}$$

4.63 pounds PE/VMT x 9556 VMT/year x 1 Ton/2000 pounds = 22.12 TPY PE, uncontrolled

1.18 pound PM10/VMT x 9556 VMT/year x 1 Ton/2000 pounds = 5.64 TPY PM10, uncontrolled

22.12 TPY PE, uncontrolled x (1 – 95% CE) = 1.11 TPY PE, controlled

5.64 TPY PM10, uncontrolled x (1 – 95% CE) = 0.28 TPY PM10, controlled

0.72 TPY PE, controlled + 1.11 TPY PE, controlled = 1.83 TPY PE

0.14 TPY PM10, controlled + 0.28 TPY PM10, controlled = 0.42 TPY PM10

b. Emissions Limitations:

There shall be no visible particulate emissions from any unpaved roadway or parking area except for a period of time not to exceed three (3) minutes during any sixty (60) minute observation period.



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There shall be no visible particulate emissions from any paved roadway or parking area except for a period of time not to exceed one (1) minute during any sixty (60) minute observation period.

Applicable Compliance Method:

If required, compliance with the visible PE limitation listed above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996.

g) Miscellaneous Requirements

(1) None.



2. F002, Storage Piles

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 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), as effective 11/30/01	Particulate emissions (PE) from material storage piles shall not exceed 5.15 tons per year (TPY). Emissions of particulate matter 10 microns and less in diameter (PM10) from material storage piles shall not exceed 2.49 TPY. See b)(2)a.
b.	OAC rule 3745-31-05(A)(3)(b), as effective 12/01/06	See b)(2)b.
c.	OAC rule 3745-17-07(B)(6)	This emissions unit is exempt from the visible emissions limitations for fugitive dust, specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e), because the emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
d.	OAC rule 3745-17-08(B)	This emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08, therefore, the requirements of OAC rule 3745-17-08(B), which requires the installation of reasonably available control measures to prevent fugitive dust, do not apply to this emissions unit pursuant to OAC rule 3745-17-08(A)(1).

(2) Additional Terms and Conditions

- a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to the Ohio Revised Code (ORC) changes effective August 3, 2006 (Senate Bill 265 changes), such that BAT is no longer required by State regulations for National Ambient Air Quality Standards (NAAQS) pollutant(s) less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05, these emission limitations/control measures no longer apply.
- b. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE and PM10 emissions from this air contaminant source since the controlled potential to emit of PE and PM10 is less than 10 TPY each.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) None.

e) Reporting Requirements

- (1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.



- (2) 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.

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:

Particulate emissions (PE) from material storage piles shall not exceed 5.14 tons per year (TPY).

Emissions of particulate matter 10 microns and less in diameter (PM10) from material storage piles shall not exceed 2.51 TPY.

Applicable Compliance Method:

Compliance with the PE and PM10 emissions limitations shall be demonstrated by calculating the actual PE and PM10 emissions using site-specific data for the material load-in and load-out, tonnage, storage pile area, etc., and the Emission Factors (EF) as calculated from AP 42, Fifth Edition, Volume I Chapter 13, Section 13.2.4, Aggregate Handling and Storage Piles (11/2006) and either Section 13.2.5, Industrial Wind Erosion (11/2006), or USEPA Document EPA-450/3-88-008, "Control of Open Fugitive Dust Sources".

The Applicable Emission Limitation was established based on the following equations from information supplied with the Application for PTI 14-05905, 4/19/2007, Application A0052403 for PTIO P0118154, and the AP-42/USEPA EFs:

$$E_{agg} = k(0.0032) \frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}}$$

Where:

E_{agg} = pound PE or PM10 per ton, material loading

k = particle size multiplier; 0.74 for PE, 0.35 for PM10

U = mean wind speed, miles per hour

M = material moisture content, %



$$E_{agg} = (0.74; 0.35)(0.0032) \frac{\left(\frac{9.10}{5}\right)^{1.3}}{\left(\frac{2.0}{2}\right)^{1.4}}$$

E_{agg} = 0.0052 pound PE per ton; 0.0024 pound PM10 per ton

0.0052 pound PE/ton, material handling x 2(560,000 tons, material handling/year) x 1 Ton/2000 pounds = 2.91 TPY PE, uncontrolled

0.0024 pound PM10/ton, material handling x 2(560,000 tons, material handling/year) x 1 Ton/2000 pounds = 1.34 TPY PM10, uncontrolled

2.91 TPY PE, uncontrolled x (1 – 25% CE) = 2.18 TPY PE, controlled

1.34 TPY PM10, uncontrolled x (1 – 25% CE) = 1.01 TPY PM10, controlled

$$E_{wind} = 1.7\left(\frac{s}{1.5}\right)\left(\frac{365-p}{235}\right)\left(\frac{f}{15}\right); 1.7(0.5)\left(\frac{s}{1.5}\right)\left(\frac{365-p}{235}\right)\left(\frac{f}{15}\right)$$

Where:

E_{wind} = pound PE or PM10 per day, per acre

s = silt content of aggregate, %

p = precipitation, wet days, in the period

f = percentage of time mean wind speed exceeds 12 mph at mean pile height

$$1.7\left(\frac{3.9}{1.5}\right)\left(\frac{365-130}{235}\right)\left(\frac{23}{15}\right); 1.7(0.5)\left(\frac{3.9}{1.5}\right)\left(\frac{365-130}{235}\right)\left(\frac{23}{15}\right)$$

E_{wind} = 6.78 pound PE per day, per acre; 3.39 pound PM10 per day, per acre

6.78 pound PE per day, per acre x 4.9 acres x 365 days x 1 Ton/2000 pounds = 6.06 TPY PE, uncontrolled

3.39 pound PM10 per day, per acre x 4.9 acres x 365 days x 1 Ton/2000 pounds = 3.03 TPY PM10, uncontrolled

6.06 TPY PE x (1 – 51% CE) = 2.97 TPY PE, controlled

3.03 TPY PM10 x (1 – 51% CE) = 1.48 TPY PM10, controlled

2.18 TPY PE, controlled + 2.97 TPY PE, controlled = 5.15 TPY PE

1.01 TPY PM10, controlled + 1.48 TPY PM10, controlled = 2.49 TPY PM10



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g) Miscellaneous Requirements

- (1) None.



3. F003, Mineral Extraction

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 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), as effective 11/30/01	Particulate emissions (PE) and emissions of particulate matter 10 microns and less in diameter (PM10) from mineral extraction shall not exceed 1.34 tons per year (TPY). See b)(2)a.
b.	OAC rule 3745-31-05(A)(3)(b), as effective 12/01/06	See b)(2)b.

(2) Additional Terms and Conditions

a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to the Ohio Revised Code (ORC) changes effective August 3, 2006 (Senate Bill 265 changes), such that BAT is no longer required by State regulations for National Ambient Air Quality



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Standards (NAAQS) pollutant(s) less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05, these emission limitations/control measures no longer apply.

- b. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE/PM10 emissions from this air contaminant source since the controlled potential to emit of PE/PM10 is less than 10 TPY.

- c) Operational Restrictions

- (1) None.

- d) Monitoring and/or Recordkeeping Requirements

- (1) None.

- e) Reporting Requirements

- (1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.
- (2) 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.

- 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:

Particulate emissions (PE) and emission of particulate matter 10 microns and less in diameter (PM10) from mineral extraction shall not exceed 1.34 tons per year (TPY).

Applicable Compliance Method:

Compliance with the PE/PM10 emissions limitation shall be demonstrated by calculating the actual PE/PM10 emissions using site-specific data for mineral extraction (topsoil removal by scraper, overburden truck loading, etc.) and the



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Emission Factors (EF) from AP 42, Fifth Edition, Volume I Chapter 11, Section 11.9, Western Surface Coal Mining (10/1998).

The Applicable Emission Limitation was established based on the following equations from information supplied with the Application for PTI 14-05905, 4/19/2007, Application A0052403 for PTIO P0118154, and the AP-42 EFs:

28333 tons topsoil removed/year x 0.058 pound PE/PM10/ton topsoil removed x 1 Ton/2000 pounds = 0.82 TPY PE/PM10 from topsoil removal, uncontrolled

28333 tons overburden truck loading/year x 0.037 pound PE/PM10/ton overburden truck loading x 1 Ton/2000 pounds = 0.52 TPY PE/PM10 from overburden truck loading, uncontrolled

0.82 TPY PE/PM10 + 0.52 TPY PE/PM10 = 1.34 TPY PE/PM10

g) Miscellaneous Requirements

(1) None.