



Environmental Protection Agency

John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Scott J. Nally, Director

5/9/2011

Mr. Jeff Balish  
GRAND RIVER ASPHALT CO  
PO BOX 249  
Grand River, OH 44045

RE: DRAFT AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 0243000491  
Permit Number: P0107540  
Permit Type: Initial Installation  
County: Lake

Certified Mail

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

Dear Permit Holder:

A draft of the Ohio Administrative Code (OAC) Chapter 3745-31 Air Pollution Permit-to-Install and Operate (PTIO) for the referenced facility has been issued for the emissions unit(s) listed in the Authorization section of the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the permit. A public notice will appear in the Ohio EPA Weekly Review and the local newspaper, Lake County News-Herald. A copy of the public notice and the draft permit are enclosed. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page, [www.epa.ohio.gov/dapc](http://www.epa.ohio.gov/dapc) by clicking the "Issued Air Pollution Control Permits" link. Comments will be accepted as a marked-up copy of the draft permit or in narrative format. Any comments must be sent to the following:

Andrew Hall  
Permit Review/Development Section  
Ohio EPA, DAPC  
122 South Front Street  
Columbus, Ohio 43215

and Ohio EPA DAPC, Northeast District Office  
2110 East Aurora Road  
Twinsburg, OH 44087

Comments and/or a request for a public hearing will be accepted within 30 days of the date the notice is published in the newspaper. You will be notified in writing if a public hearing is scheduled. A decision on issuing a final permit-to-install will be made after consideration of comments received and oral testimony if a public hearing is conducted. Any permit fee that will be due upon issuance of a final Permit-to-Install is indicated in the Authorization section. Please do not submit any payment now. If you have any questions, please contact Ohio EPA DAPC, Northeast District Office at (330)425-9171.

Sincerely,

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

Cc: U.S. EPA Region 5 Via E-Mail Notification  
Ohio EPA-NEDO; Pennsylvania; Canada





## Permit Strategy Write-Up

1. Check all that apply:

Synthetic Minor Determination

Netting Determination

2. Source Description:

Grand River Asphalt which is located in Coast Guard Rd in Grand River, OH submitted a permit-to-install-operate application for the installation of a brand new counter-flow asphalt plant. The asphalt plant, primarily natural gas dual drum, has an anticipated annual production rate of 165,000 tons and normally produces at 250-275 tons/hr.

3. Facility Emissions and Attainment Status:

This facility has requested a synthetic minor permit because the maximum potential to emit, at 8760 hours per year, for this emissions unit would make this facility a major source and will be subject to Title V permitting. Federally enforceable restrictions will lower the potential emissions to less than 100 TPY. These restrictions will keep the company from the requirements of Title V. The facility is located in Lake County. Lake County is attainment for particulate matter, PM10, sulfur dioxide, carbon monoxide, ozone, lead, and oxides of nitrogen.

4. Source Emissions:

Grand River Asphalt has requested federally enforceable restriction on the annual production to 165,000 tons. With the proposed production limitation the annual NOx, CO, SO2, PE, PM10, and VOC emissions will be limited to 2.15 tpy, 10.73 tpy, 0.28 tpy, 2.72 tpy, 1.90 tpy, and 2.64 tpy respectively.

5. Conclusion:

This facility will have federally enforceable limitations that will keep permit allowable emissions below the threshold levels for Title V.

6. Please provide additional notes or comments as necessary:

None

7. Total Permit Allowable Emissions Summary (for informational purposes only):

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	3.58
PM <sub>10</sub>	1.90
CO	10.94
NOx	2.15
SO <sub>2</sub>	0.28
VOC	3.97

PUBLIC NOTICE  
Issuance of Draft Air Pollution Permit-To-Install and Operate  
GRAND RIVER ASPHALT CO

Issue Date: 5/9/2011

Permit Number: P0107540

Permit Type: Initial Installation

Permit Description: 350 TPH portable drum mix counter flow hot mix asphalt plant employing limestone, aggregate, RAP, controlled with baghouse

Facility ID: 0243000491

Facility Location: GRAND RIVER ASPHALT CO  
COAST GUARD RD,  
PAINESVILLE TWP, OH 44077

Facility Description: Asphalt Paving Mixture and Block Manufacturing

Scott J. Nally, Director of the Ohio Environmental Protection Agency, 50 West Town Street, Columbus Ohio has issued a draft action of an air pollution control, federally enforceable permit-to-install and operate (PTIO) for the facility at the location identified above on the date indicated. Comments concerning this draft action, or a request for a public meeting, must be sent in writing no later than thirty (30) days from the date this notice is published. All comments, questions, requests for permit applications or other pertinent documentation, and correspondence concerning this action must be directed to Edwin Perez at Ohio EPA DAPC, Northeast District Office, 2110 East Aurora Road, Twinsburg, OH 44087 or (330)425-9171. The permit can be downloaded from the Web page: [www.epa.ohio.gov/dapc](http://www.epa.ohio.gov/dapc)



**Ohio**

**Environmental  
Protection Agency**

**DRAFT**

**Division of Air Pollution Control  
Permit-to-Install and Operate  
for  
GRAND RIVER ASPHALT CO**

Facility ID:	0243000491
Permit Number:	P0107540
Permit Type:	Initial Installation
Issued:	5/9/2011
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance





Division of Air Pollution Control
Permit-to-Install and Operate
for
GRAND RIVER ASPHALT CO

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## Authorization

Facility ID: 0243000491

Application Number(s): A0040704

Permit Number: P0107540

Permit Description: 350 TPH portable drum mix counter flow hot mix asphalt plant employing limestone, aggregate, RAP, controlled with baghouse

Permit Type: Initial Installation

Permit Fee: \$1,250.00 *DO NOT send payment at this time, subject to change before final issuance*

Issue Date: 5/9/2011

Effective Date: To be entered upon final issuance

Expiration Date: To be entered upon final issuance

Permit Evaluation Report (PER) Annual Date: To be entered upon final issuance

This document constitutes issuance to:

GRAND RIVER ASPHALT CO  
COAST GUARD RD  
PAINESVILLE TWP, OH 44077

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, Northeast District Office  
2110 East Aurora Road  
Twinsburg, OH 44087  
(330)425-9171

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

Scott J. Nally  
Director



## **Authorization (continued)**

Permit Number: P0107540

Permit Description: 350 TPH portable drum mix counter flow hot mix asphalt plant employing limestone, aggregate, RAP, controlled with baghouse

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

<b>Emissions Unit ID:</b>	<b>P904</b>
Company Equipment ID:	ADM Asphalt Plant
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. Unless otherwise specified, facilities subject to one or more synthetic minor restrictions must use Ohio EPA's "Air Services" to submit annual emissions associated with this permit requirement. 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, Northeast 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<sup>1</sup> 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 emissions 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.

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<sup>1</sup>Permittees that use Ohio EPA's "Air Services" can mark the affected emissions unit(s) as "permanently shutdown" in the facility profile along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).

**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. P904, ADM Asphalt Plant

Operations, Property and/or Equipment Description:

350 TPH portable drum mix counter flow hot mix asphalt plant employing limestone, aggregate, RAP, controlled with baghouse

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. b)(1)b, c)(1), d)(1), e)(1)

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 paragraph 3745-31-05(A)(3), as effective 11/30/01	<p><b>Baghouse stack emissions:</b></p> <p>Particulate matter (PE) emissions while burning natural gas shall not exceed 9.08 lbs/hr and 2.72 tpy.</p> <p>Particulate matter less than or equal to 10 microns in diameter (PM<sub>10</sub>) emissions while burning natural gas shall not exceed 6.33 lbs/hr and 1.90 tpy.</p> <p>Carbon monoxide (CO) emissions while burning natural gas shall not exceed 35.75 lbs/hr and 10.73 tpy.</p> <p>Nitrogen oxides (NO<sub>x</sub>) emissions while burning natural gas shall not exceed 7.15 lbs/hr and 2.15 tpy.</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>Sulfur dioxide (SO<sub>2</sub>) emissions while burning natural gas shall not exceed 0.94 lb/hr and 0.28 tpy.</p> <p>Volatile organic compounds (VOC) emissions while burning natural gas shall not exceed 8.8 lbs/hr and 2.64 tpy.</p> <p><b>Asphalt Load Out Emissions</b></p> <p>Emissions from load out operations shall not exceed 0.11 ton of CO per rolling, 12-month period, 0.043 ton of PE per rolling, 12-month period, and 0.34 tons of VOC per rolling, 12-month period.</p> <p><b>Asphalt Silo Filling Emissions</b></p> <p>Emissions from silo filling operations shall not exceed 0.10 ton of CO per rolling, 12-month period, 0.05 ton of PE per rolling, 12-month period, and 0.99 tons of VOC per rolling, 12-month period.</p> <p><b>Cold End Fugitive Dust Emissions</b></p> <p>Emissions of fugitive dust associated with the cold aggregate, sand and RAP loading, and the cold aggregate, sand and RAP transfer operations shall not exceed 0.77 ton of fugitive dust per rolling, 12-month period.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and 40 CFR Part 60, Subpart I.</p> <p>See b)(2)a.</p>
b.	OAC paragraph 3745-31-05(D)	<p><b>Stack Emissions</b></p> <p>PE shall not exceed 2.72 tons per rolling, 12-month period.</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>PM<sub>10</sub> shall not exceed 1.90 tons per rolling, 12-month period.</p> <p>CO emissions shall not exceed 10.73 tons per rolling, 12-month period.</p> <p>NO<sub>x</sub> emissions shall not exceed 2.15 tons per rolling, 12-month period.</p> <p>SO<sub>2</sub> emissions shall not exceed 0.28 tons per rolling, 12-month period.</p> <p>VOC emissions shall not exceed 2.64 tons per rolling, 12-month period.</p> <p>See b)(2)b.</p>
c.	40 CFR Part 60, Subpart I	<p>PE from the stack shall not exceed 0.04 grain/dscf.</p> <p>This emissions unit shall not discharge into the atmosphere any stack gases which exhibit 20 percent opacity or greater.</p>
d.	OAC rule 3745-17-07(A)	The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to 40 CFR Part 60, Subpart I.
e.	OAC rule 3745-17-11(B)	The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
f.	OAC rule 3745-17-07(B)	Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.
g.	OAC rule 3745-17-08(B)	See b)(2)c and b)(2)d.

(2) Additional Terms and Conditions

- a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to 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 ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulations for NAAQS pollutant 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 revision of 3745-31-05, then these emission limits/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.

Permit to Install and Operate P0107540 for this air contaminant source takes into account the following restrictions (including the use of any applicable air pollution control equipment) as proposed by the permittee for the purpose of avoiding BAT requirements under OAC rule 3745-31-05(A)(3):

- i. The process weight rate has been limited to 165,000 tons per year;
- ii. Voluntary emissions limitations in pounds per hour and tons per year are the following:
- (a) PE emissions shall not exceed 9.08 lbs/hr and 2.72 tpy.
  - (b) PM<sub>10</sub> emissions shall not exceed 6.33 lbs/hr and 1.90 tpy.
  - (c) CO emissions shall not exceed 35.75 lbs/hr and 10.73 tpy.
  - (d) NO<sub>x</sub> emissions shall not exceed 7.15 lbs/hr and 2.15 tpy.
  - (e) SO<sub>2</sub> emissions shall not exceed 0.94 lb/hr and 0.28 tpy.
  - (f) VOC emissions shall not exceed 8.8 lbs/hr and 2.64.
- c. The drop height of the front end loader bucket shall be minimized to the extent possible in order to minimize or eliminate visible emissions of fugitive dust from the aggregate storage bins.
- d. The aggregate loaded into the cold aggregate bins shall have a moisture content sufficient to minimize or eliminate visible emissions of fugitive dust from conveyors and all transfer points to the dryer.
- e. The emissions from this emissions unit shall be vented to a baghouse at all times the emissions unit is in operation.
- c) Operational Restrictions
- (1) The maximum annual asphalt production rate for this emissions unit shall not exceed 165,000 tons, based upon a rolling, 12 month summation of the production rates.

- (2) The permittee shall only employ natural gas to heat the counterflow drum mixer.
  - (3) The permittee may substitute reclaimed asphalt pavement (RAP) in amounts not to exceed 50 percent of all aggregate materials in the raw material feed mix.
- d) Monitoring and/or Recordkeeping Requirements
- (1) The permittee shall maintain monthly records of the following information:
    - a. the total asphalt production for each month;
    - b. the rolling, 12 month summation of the total asphalt production, calculated by adding the current month's asphalt production to the asphalt production for the preceding eleven calendar months;
    - c. the rolling, 12-month summation of the PE, PM<sub>10</sub>, CO, NO<sub>x</sub>, SO<sub>2</sub> and VOC emissions; and
    - d. the maximum percentage of RAP used for any mix type.
  - (2) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse when the controlled emissions unit(s) is/are in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouse on daily basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The acceptable pressure drop shall be based upon the manufacturer's specifications until such time as any required performance testing is conducted and the appropriate range is established to demonstrate compliance.

Whenever the monitored value for the pressure drop deviates from the limit or range established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

- a. the date and time the deviation began;
- b. the magnitude of the deviation at that time;
- c. the date the investigation was conducted;
- d. the name(s) of the personnel who conducted the investigation; and
- e. the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified in this permit, unless the permittee determines that corrective action is not necessary and documents the reasons for that

determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

- a. a description of the corrective action;
- b. the date corrective action was completed;
- c. the date and time the deviation ended;
- d. the total period of time (in minutes) during which there was a deviation;
- e. the pressure drop readings immediately after the corrective action was implemented; and
- f. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

This range or limit on the pressure drop across the baghouse is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the permitted limit or range for the pressure drop based upon information obtained during future testing that demonstrate compliance with the allowable particulate emission rate for the controlled emissions unit(s). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of an administrative modification.

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

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item d above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit).

With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

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

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

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify:
- a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
    - i. all exceedances of the rolling, 12-month asphalt production limitation;
    - ii. all exceedances of the rolling, 12-month total PE, SO<sub>2</sub>, NO<sub>x</sub>, VOC and CO emission limitations;
    - iii. any period of time (start time and date, and end time and date) when the emissions unit was in operation and the process emissions were not vented to the baghouse.

- b. probable cause of each deviation (excursion);
- c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
- d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted electronically through Ohio EPA Air Services, each year by the thirty-first of January (covering October to December), the thirtieth of April (covering January to March), the thirty-first of July (covering April to June), and the thirty-first of October (covering July to September), unless an alternative schedule has been established and approved by the director (Northeast District Office of Ohio EPA).

- (2) The permittee shall identify in the annual permit evaluation report the following information concerning the operations of the baghouse during the 12-month reporting period for this/these emissions unit(s):
  - a. each period of time (start time and date, and end time and date) when the pressure drop across the baghouse was outside of the range specified by the manufacturer and outside of the acceptable range following any required compliance demonstration;
  - b. any period of time (start time and date, and end time and date) when the emissions unit(s) was/were in operation and the process emissions were not vented to the baghouse;
  - c. each incident of deviation described in [a] (above) where a prompt investigation was not conducted;
  - d. each incident of deviation described in [a] where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and
  - e. each incident of deviation described in [a] where proper records were not maintained for the investigation and/or the corrective action(s), as identified in the monitoring and record keeping requirements of this permit.
- (3) 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 PER shall cover a reporting period of no more than 12 months for each air contaminant source identified in this permit.

f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) and b)(2) shall be determined in accordance with the following methods:

a. Emission Limitations:

PE emissions while burning natural shall not exceed 0.04 gr/dscf.

PE emissions while burning natural gas shall not exceed 9.08 lbs/hr.

PM<sub>10</sub> emissions while burning natural gas shall not exceed 6.33 lbs/hr.

NO<sub>x</sub> emissions while burning natural gas shall not exceed 7.15 lbs/hr.

CO emissions while burning natural gas shall not exceed 35.75 lbs/hr.

SO<sub>2</sub> emissions while burning natural gas shall not exceed 0.94 lb/hr.

VOC emissions while burning natural gas shall not exceed 8.8 lbs/hr.

Applicable Compliance Methods:

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

i. The emission testing shall be conducted within 120 days after the issuance of this permit or after beginning operation whichever date is later.

ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for PE, PM<sub>10</sub>, VOC, CO, NO<sub>x</sub> and SO<sub>2</sub> for the natural gas.

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

PE, Methods 1 through 5 of 40 CFR Part 60, Appendix A;

PM<sub>10</sub>, Methods 201 and 202 of 40 CFR Part 51, Appendix M;

NO<sub>x</sub>, Methods 1 through 4 and 7 or 7E of 40 CFR Part 60, Appendix A;

SO<sub>2</sub>, Methods 1 through 4 and 6 or 6C of 40 CFR Part 60, Appendix A;

CO, Methods 1 through 4 and 10 of 40 CFR Part 60, Appendix A; and

VOC, Methods 1 through 4 and 25 and/or 18 of 40 CFR Part 60, Appendix A.

The VOC pounds per hour emission rate observed during the emissions test shall be calculated in accordance with OAC paragraph 3745-21-

10(C)(7) where the average molecular weight of the VOC emissions equals 16, i.e., the VOC as carbon emission rate observed during testing shall be converted to the appropriate units by multiplying the VOC as carbon emission rate observed during testing by 16 and dividing by 12.

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

- iv. The test(s) shall be conducted while this emissions unit is operating at or near its maximum capacity for PE/ PM<sub>10</sub>, VOC, CO, NO<sub>x</sub> and SO<sub>2</sub> and employing RAP to verify VOC emissions, unless otherwise specified or approved by the Ohio EPA Northeast District Office.
- v. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northeast District Office. 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 Northeast District Office's refusal to accept the results of the emission test(s).
- vi. Personnel from the Ohio EPA Northeast District Office 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.
- vii. 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 Ohio EPA Northeast District Office 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 Ohio EPA Northeast District Office.

b. Emission Limitation:

PE emissions while burning natural gas shall not exceed 2.72 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the observed emission rate from the most recent emissions testing, in pounds of PE per ton of asphalt produced by the actual rolling, 12-month summation of asphalt produced, in tons per rolling, 12-month period (as derived from the records required by d)(1)), and dividing by 2000 lbs/ton.

c. Emission Limitation:

PM<sub>10</sub> emissions while burning natural gas shall not exceed 1.90 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the observed emission rate from the most recent emissions testing, in pounds of PM<sub>10</sub> per ton of asphalt produced by the actual rolling, 12-month summation of asphalt produced, in tons per rolling, 12-month period (as derived from the records required by d)(1)), and dividing by 2000 lbs/ton.

d. Emission Limitation:

CO emissions while burning natural gas shall not exceed 10.73 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the observed emission rate from the most recent emissions testing, in pounds of CO per ton of asphalt produced by the actual rolling, 12-month summation of asphalt produced, in tons per rolling, 12-month period (as derived from the records required by d)(1)), and dividing by 2000 lbs/ton.

e. Emission Limitation:

NO<sub>x</sub> emissions while burning natural gas shall not exceed 2.15 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the observed emission rate from the most recent emissions testing, in pounds of NO<sub>x</sub> per ton of asphalt produced by the actual rolling, 12-month summation of asphalt produced, in tons per rolling, 12-month period (as derived from the records required by d)(1)), and dividing by 2000 lbs/ton.

f. Emission Limitation:

SO<sub>2</sub> emissions while burning natural gas shall not exceed 0.28 ton per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the observed emission rate from the most recent emissions testing, in pounds of SO<sub>2</sub> per ton of asphalt produced by the actual rolling, 12-month summation of asphalt produced, in tons per rolling, 12-month period (as derived from the records required by d)(1)), and dividing by 2000 lbs/ton.

g. Emission Limitation:

VOC emissions while burning natural gas shall not exceed 2.64 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the observed emission rate from the most recent emissions testing, in pounds of VOC per ton of asphalt produced by the actual rolling, 12-month summation of asphalt produced, in tons per rolling, 12-month period (as derived from the records required by d)(1)), and dividing by 2000 lbs/ton.

h. Emission Limitation:

This emissions unit shall not discharge into the atmosphere any stack gases which exhibit 20 percent opacity or greater as established in 40 CFR Part 60, Subpart I.

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

i. Emission Limitation:

Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

j. Emission Limitation:

Emissions of fugitive dust associated with the cold aggregate, sand and RAP loading, and the cold aggregate, sand and RAP transfer operations shall not exceed 0.77 ton of fugitive dust per rolling, 12-month period. [AP-42 5th Edition, Table 11.12-2(10/01) and 11.1.2.5 (12/00)]

Applicable Compliance Method:

Compliance shall be assumed based upon the following worst case calculations:

Fugitive emissions from the cold end are calculated as follows

Hopper loading:



165,000 tons of material/year X 0.0051 lb PM/ton of material = 841.5 lbs PE/yr

Aggregate transfer:

77,500 tons of aggregate/year X 0.0069 lb PM/ton of aggregate = 534.75 lbs PE /yr

Sand transfer:

77,500 tons of sand/year X 0.0021 lb PE/ton of sand = 162.75 lbs PM/yr

Total fugitive emissions:

The sum of the above is 1,539 lbs PE/yr X 1 ton/2000 lbs = 0.77 ton of PM

k. Emission Limitations:

Asphalt Load out and Silo Filling Emissions

Emissions from load out operations shall not exceed 0.11 ton of CO per rolling, 12-month period, 0.043 ton of PE per rolling, 12-month period and 0.34 ton of VOC per rolling, 12-month period.

Emissions from silo filling operations shall not exceed 0.10 ton of CO per rolling, 12-month period, 0.05 ton of PE per rolling, 12-month period and 0.99 ton of VOC per rolling, 12-month period.

Applicable Compliance Method:

Emissions from asphalt load out and silo filling operations are calculated as follows:

Asphalt plant silo filling and plant load out emissions from AP-42, Table 11.1-14 dated 3/2004

Known:

V = -0.5 Asphalt volatility factor (default) T = 325 HMA mix temp (F) (default)

For silo filling, 1.4 per cent of TOC is not VOC AP-42 Table 11.1-16 dated 3/2004

For plant load out, 7.3 per cent of TOC is not VOC AP-42 Table 11.1-16 dated 3/2004

Activity	Pollutant	Predictive Emission Factor Equation, lb/ton
Silo filling	PE	$EF=0.000332+0.00105(-V)e^{((0.0251)(T+460)-20.43)}$
Load out	PE	$EF=0.000181+0.00141(-V)e^{((0.0251)(T+460)-20.43)}$



Silo filling	VOC	EF= $[0.0504(-V)e^{((0.0251)(T+460)-20.43)}]$
Load out	VOC	EF= $[0.0172(-V)e^{((0.0251)(T+460)-20.43)}]$
Silo filling	CO	EF= $0.00488(-V)e^{((0.0251)(T+460)-20.43)}$
Load out	CO	EF= $0.00558(-V)e^{((0.0251)(T+460)-20.43)}$

Based on the above information, the emission factors and emissions are as follows:

Activity	Pollutant	lb/ton	tons/yr (at 165,000 tons/yr production)
Silo filling	PE	$5.86 \times 10^{-4}$	0.05
Load out	PE	$5.22 \times 10^{-4}$	0.043
Silo filling	VOC	$1.20 \times 10^{-2}$	0.99
Load out	VOC	$4.15 \times 10^{-3}$	0.34
Silo filling	CO	$1.18 \times 10^{-3}$	0.10
Load out	CO	$1.34 \times 10^{-3}$	0.11

(2) Burner Tuning

a. Introduction

The permittee is required to conduct periodic tuning of the asphalt plant burner. The purpose of this tuning is to ensure that the burner is adjusted properly so that air pollution emissions remain in compliance with allowable emissions rates and are minimized.

b. Qualifications for Burner Tuning

Technicians who conduct the burner tuning must be qualified to perform the expected tasks. The permittee is required to provide training to the technicians who perform the burner tuning procedure. Technicians who are qualified shall, at a minimum, have passed manufacturer's training concerning burner tuning, or have been trained by someone who has completed the manufacturer's training concerning burner tuning.

c. Portable Monitor Requirements

The permittee shall properly operate and maintain portable device(s) to monitor the concentration of NO<sub>x</sub>, O<sub>2</sub> and CO in the stack exhaust gases from this emissions unit. The monitor(s) shall be capable of measuring the expected concentrations of the measured gases. The monitoring equipment shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall maintain records of each portable monitoring device's calibration.

## d. Burner Tuning Procedure

The first steps concerning burner tuning involve setting the pollutant baseline levels (concentrations) utilizing the portable monitor. These baselines shall be set during the initial U.S. EPA-approved emissions testing that demonstrated the emissions unit was in compliance with all applicable emissions limitations as described in f)(1)a. The baselines shall be determined for NO<sub>x</sub> and CO. Sampling should measure the exhaust gas values exiting the dryer or the baghouse. The duration of each sample shall follow the portable monitor manufacturer's recommendations. Record these values on the *Burner Tuning Reporting Form for Asphalt Concrete Plants* form [as found in g)(2)] in the "Recent Stack Test Basis Values" column.

Once the pollutant baseline levels are set, the burner shall be next tuned based on the frequency described in f)(2)e. The general procedure for tuning the burner involves the following steps:

- i. Review the plant operations to ensure the plant is operating normally.
- ii. Confirm that the portable monitor is calibrated per the manufacturer's specifications.
- iii. Using the calibrated monitor and the monitor manufacturer's recommended sampling duration, measure the stack exhaust gas values for O<sub>2</sub>, NO<sub>x</sub> and CO. These measurements shall be taken at the same location as the location where the baseline samples were taken. Record the values in the "Pre Tuning" results column on the *Burner Tuning Reporting Form for Asphalt Concrete Plants* form.
- iv. Compare the measured stack exhaust gas values with the pollutant baseline values. If all of the measured stack exhaust gas values are equal to or less than 115 percent of the pollutant baseline values, then it is not necessary to tune the burner. Go on to v. below.

The permittee shall have the burners tuned within two calendar weeks of any measured stack exhaust values greater than 115 percent of the baseline values. Make any necessary adjustments and repairs. Repeat iii. and iv. until the measured stack exhaust gas values are equal to or less than 115 percent of the pollutant baseline values.

- v. Once all of the measured stack exhaust gas values are within the 115 percent of the pollutant baseline values, record the measured stack exhaust gas values in the "Post Tuning" results column on the *Burner Tuning Reporting Form for Asphalt Concrete Plants* form.
- vi. By January 31 of each year, submit a copy of all *Burner Tuning Reporting Form for Asphalt Concrete Plants* forms produced during the past calendar year to the Northeast District Office of Ohio EPA.

e. Burner Tuning Frequency

The permittee shall conduct the burner tuning procedure within 20 production days after commencement of the production season in the State of Ohio. The permittee shall conduct another burner tuning procedure within 10 production days before or after June 1st of each year and within 10 production days before or after September 1st of each year. For purposes of this permit, the production season is defined as the time period between the date the first ton of asphalt is produced and the date that the last ton of asphalt is produced during the same calendar year. A burner tuning is not required if the production season ends prior to the associated tuning due date. If the baseline level testing or the initial season tuning is done within 30 days prior to June 1 or September 1, the tuning associated with that due date is not required.

g) Miscellaneous Requirements

- (1) Burner Tuning Form (see next page)



**BURNER TUNING REPORTING FORM FOR ASPHALT CONCRETE PLANTS**

Facility ID:	Tuning Date:
Legal Name:	Other Company Name (if different than legal name):
Mailing Address:	Other Company Site Address: (if different than mailing address):
City, State, Zip Code:	Other Company City, County, Zip Code:
Site Contact Person:	Site Contact Telephone Number:
Site Contact Title:	Site Contact Fax Number:
Name of company performing tuning:	Name of company performing emission monitoring:
Type of plant (ie: batch, drum mix, etc.):	Calibration date for analyzers:

Reason for Tuning:  Season Initial Tuning  June Tuning  September Tuning  Fuel Switch  Other  
(describe)

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Fuel employed during tuning:  Natural Gas  Propane  # 2 Fuel Oil  # 4 Fuel Oil  Used Oil  Other  
(describe)

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**Tuning Results:**

Parameter	Recent Stack Test Pollutant Baseline Levels <sup>1</sup>	Results	
		Pre Tuning	Post Tuning <sup>3</sup>
Fuel flow to the burner (gallon/hr) (for fuel oil and on-spec used oil)			
Fuel pressure (psi)			
For burners that require compressed air for proper operation, pressure at the burner (psi)			
Carbon Monoxide (CO) concentrations			
NOx concentrations (ppm) <sup>2</sup>			
Oxygen concentrations (percent) <sup>2</sup>			
Asphalt Production (tons/hr)			

<sup>1</sup>These values are based on the results of the most recent Ohio EPA approved emissions test.

<sup>2</sup> Specify whether on a dry or wet basis.

<sup>3</sup> If the burner did not require adjusting, please record N/A in the post tuning column.



Describe in detail a list of adjustments and/or repairs made to bring the operating parameters into conformance with the manufacturer's specifications. Use additional paper if necessary.

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Authorized Signature: This signature shall constitute personal affirmation that all statements or assertions of fact made in this form are true and complete, comply fully with applicable state requirements, and shall subject the signatory to liability under applicable state laws forbidding false or misleading statements.

Name of Official (Printed or Typed):	Title of Official and Phone Number:
Signature of Official:	Date: