



State of Ohio Environmental Protection Agency

Street Address:

Mailing Address:

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Lazarus Gov.
Center

**RE: FINAL PERMIT TO INSTALL
MONTGOMERY COUNTY
Application No: 08-04169**

CERTIFIED MAIL

DATE: 8/22/00

Barrett Paving Materials Inc #132
Gerald Bushelman
PO Box 13591
Dayton, OH 45413-0000

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging 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 Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 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. It must be filed within thirty (30) days after the notice of the Director's action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

CC: USEPA

RAPCA



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**Permit To Install
Terms and Conditions**

**Issue Date: August 22, 2000
Effective Date: August 22, 2000**

FINAL PERMIT TO INSTALL 08-04169

Application Number: 08-04169
APS Premise Number: 0857043201
Permit Fee: **\$1000**
Name of Facility: Barrett Paving Materials Inc #132
Person to Contact: Gerald Bushelman
Address: PO Box 13591
Dayton, OH 45413-0000

Location of proposed air contaminant source(s) [emissions unit(s)]:
**2551 Needmore Rd
Dayton, Ohio**

Description of proposed emissions unit(s):
portable 400 TPH drum mix asphalt plant.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) 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 above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS**A. Permit to Install General Terms and Conditions****1. Compliance Requirements**

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any

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information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

9. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional

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facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities prove to be inadequate or cannot meet applicable standards.

10. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

11. Applicability

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit to Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

12. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

13. Source Operation and Operating Permit Requirements After Completion of Construction

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

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14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
Particulate Matter	10.04
Carbon Monoxide	18.2
Nitrogen Oxides	24.38
Sulfur Dioxide	18.2
Organic Compounds	22.43
Lead	0.57
HCl	0.99

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Emissions Unit ID: P901

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property,
and/or Equipment

Applicable Rules/Requirements

P901 - 400 TPY Drum Mix Asphalt Plant #132 which includes rotary dryer, hot aggregate elevator, vibrating screens, and weigh hopper

OAC rule 3745-31-05(A)(3)

aggregate storage bins and cold aggregate elevator

NSPS (40 CFR Part 60, Subpart I)

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		<u>Applicable Emissions</u> <u>Limitations/Control Measures</u>
OAC rule 3745-17-07(A) and 3745-17-11(B)		10.04 TPY Particulates (PE) 22.40 lbs/hr and 18.2 TPY carbon monoxide (CO) 30.0 lbs/hr and 24.38 TPY nitrogen oxides (NOx)
OAC rule 3745-17-07(B)	OAC rule 3745-35-07(B)	22.40 lbs/hr and 18.2 TPY sulfur dioxide (SO2) 27.60 lbs/hr and 22.43 TPY organic compounds (OC)
OAC rule 3745-17-08(B)		1.22 lbs/hr and 0.99 TPY hydrochloric acid (HCl) 0.76 lb/hr and 0.57 TPY lead (Pb)
OAC rule 3745-31-05(A)(3)		The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart I
OAC rule 3745-17-07(B)		Particulate emissions shall not exceed 0.04 grain per dry standard cubic foot of exhaust gases.
OAC rule 3745-17-08(B)		Visible particulate emissions shall not exceed 20 percent opacity, as a 6-minute average, from the stack, except as provided by 40 CFR Part 60.11. The emission limitations specified in

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these rules are less stringent than the emission limitations specified in 40 CFR part 60, Subpart I.

Visible emissions of fugitive dust from the enclosures for the hot aggregate elevator, vibrating screens, and weigh hopper shall not exceed 20 percent opacity, as a 3-minute average.

The installation and use of adequate enclosures and sufficient draft to minimize or eliminate visible emissions of fugitive dust from the hot aggregate elevator, vibrating screens, and weigh hopper.

BAT is equivalent to compliance with the requirements specified in OAC rules 3745-17-07(B) and 3745-17-08(B).

Visible particulate emissions shall not exceed 20 percent opacity, as a 3-minute average, for the fugitive dust emissions.

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 elevator loading area.

The aggregate loaded into the storage bins shall have a moisture content sufficient to minimize or eliminate the visible emissions of

fugitive dust from the elevator and the transfer point to the dryer.

24.38 TPY nitrogen oxides (NO_x), based upon a rolling, 12-month summation of the monthly emissions.

22.43 TPY organic compounds (OC), based upon a rolling, 12-month summation of the monthly emissions.

See term B.8.

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2. Additional Terms and Conditions

2.a The 22.4 lbs/hr of CO, 30.0 lbs/hr of NO_x, 22.4 lbs/hr SO₂, 27.6 lbs/hr OC, 1.22 lbs/hr HCl, and 0.76 lb/hr lead emissions limitations were established to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limits.

2.b This emissions unit has been approved for the use of recycled asphalt products.

B. Operational Restrictions

- In accordance with the Ohio Administrative Code (OAC) rule 3745-31-05(A)(2), this facility shall comply with all the applicable laws as defined in OAC rule 3745-31-01(F). Therefore, this air permit to install cannot exempt the facility from any current or future regulations regarding the disposal or recycling of used oil.
- Specifications for the Used Oil Burned in the Dryer

All recycled, used oil burned in this emissions unit shall meet the following specifications:

<u>Contaminant/Property</u>	<u>Allowable Specifications</u>
<u>arsenic</u>	<u>5 ppm, maximum</u>
<u>cadmium</u>	<u>2 ppm, maximum</u>
<u>chromium</u>	<u>10 ppm, maximum</u>
<u>lead</u>	<u>100 ppm, maximum</u>
<u>PCB's</u>	<u>50 ppm, maximum</u>
<u>total halogens</u>	<u>4000 ppm maximum</u>
<u>mercury</u>	<u>1 ppm, maximum</u>
<u>flash point</u>	<u>100°F, minimum</u>
<u>heat content</u>	<u>135,000 Btu/gallon, minimum</u>

- This source may not receive or burn any used oil which does not meet the specifications listed above. An exceedance would be considered a violation of Ohio Administrative Code 3745-31-02.
- Used oil containing more than 1000 ppm total halogens is presumed to be a hazardous waste under the rebuttable presumption provided under 40 CFR 266.40(c) and OAC rule 3745-58-50. Therefore, this facility may receive and burn used oil exceeding 1000 ppm of total halogens (but less than 4000 ppm, maximum) only if the supplier ['marketer' in 40 CFR 266.43(a)] has

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demonstrated to Ohio EPA's Division of Hazardous Waste Management that the used oil does not contain any hazardous waste.

5. The permittee shall sample each incoming shipment of used oil. The sampling frequency for used oil shall be one properly labeled 500 ml sample for each truck or container delivery. The sample shall be taken and retained for at least 60 days.

The Director (appropriate Ohio EPA District Office or local air agency) may require and/or conduct periodic, detailed chemical analyses through an independent laboratory of any used oil received at this facility; of any sample retained, as required above; and of any storage tanks at this facility.

Additionally, the permittee shall provide a plan for documenting that the used oil does not contain any hazardous waste as specified under 40 CFR Parts 261 and 279.

6. To ensure the baghouse is operated according to the manufacturer's specifications and to maintain compliance with the allowable particulate emission rate, a pressure drop across the baghouse, as determined during the initial compliance test, shall be maintained at all times.
7. The maximum annual production rate for this emissions unit shall not exceed 650,000 tons, based upon a rolling, 12-month summation of the production rates.
8. To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the following asphalt production limits for this emissions unit:

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Months	Maximum, Cumulative Production, in tons
1-1	54,166.6
1-2	108,333.3
1-3	162,499.9
1-4	216,666.5
1-5	270,833.1
1-6	324,999.7
1-7	379,166.3
1-8	433,332.9
1-9	487,499.5
1-10	541,666.1
1-11	595,832.7
1-12	650,000.0

After the first 12 calendar months of operation following the effective date of this permit, the permittee shall comply with the annual asphalt production limitation based upon rolling, 12-month summations.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall receive a chemical analysis with each shipment of used oil from the supplier. The analysis shall identify the name and address of the supplier, the supplier's USEPA identification number, and the following information:
 - a. date of shipment or delivery,
 - b. quantity of used oil received,
 - c. the Btu value of the used oil,
 - d. the flash point of the used oil,
 - e. the arsenic content,
 - f. the cadmium content,
 - g. the chromium content,
 - h. the lead content,
 - i. the PCB content,
 - j. the total halogen content, and,
 - k. the mercury content.

Each analysis shall be kept in a readily accessible location for at least 5 years and shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon verbal or written request. The Director or any authorized representative of the Director may require or may conduct periodic, detailed chemical analyses through an independent laboratory of any used

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oil shipment received by this facility, of any used oil stored at this facility, or of any used oil sampled at the dryer.

2. The permittee shall maintain monthly records of the asphaltic concrete production rate and the rolling 12-month summation of the production rates (beginning immediately after the issuance of this PTI).
3. The permittee shall properly operate and maintain a monitoring device capable of accurately measuring the pressure drop across the fabric filter.
4. The permittee shall check the pressure drop once a day and maintain daily records of the pressure drop readings.
5. The permit to install for this emissions unit (P901) was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other appropriate model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: HCl

TLV (mg/m³): 7.57

Maximum Hourly Emission Rate (lb/hr): 1.11

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 5.768

MAGLC (ug/m³): 132.83

Pollutant: Formaldehyde

TLV (mg/m³): 0.368

Maximum Hourly Emission Rate (lb/hr): 1.44

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 3.919

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MAGLC (ug/m3): 6.45

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of materials or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienist (ACGIH), "than the lowest TLV value previously modeled;
- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and,
- c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii), then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and,
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall notify the USEPA and the Ohio EPA if any of the used oil exceeds the used oil

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specifications. An identification number from USEPA shall be obtained prior to the combustion of any used oil.

Before the permittee accepts the first shipment of any off-specification used oil from a marketer, the permittee must provide the marketer a one-time, written and signed notice certifying that:

- a. the company has notified USEPA of its used oil management activities and that the notice included the location and description of those activities; and,
- b. the company will burn the used oil only in an industrial furnace or boiler identified in 40 CFR Part 266.41(b) and OAC rule 3745-58-42.

A copy of each certification notice that the permittee sends to a marketer must be kept on file for a minimum of 5 years from the date it last received off-specification used oil from that marketer

2. The permittee shall submit quarterly deviation (excursion) reports in accordance with the general terms and conditions Section A.2. which include the following information for this emissions unit:
 - a. An identification of all exceedances of the rolling, 12-month production rate limitation, or for the first 12 calendar months of operation following the issuance of this permit, the maximum allowable cumulative asphalt production limitation.
 - b. An identification of all exceedances of the allowable pressure drop range, as determined during the initial performance test, for the baghouse.

E. Testing Requirements

1. Compliance with the emission limitations in this permit shall be determined in accordance with the following methods:
 - a. Emission Limitation -
0.04 gr/dscf of exhaust gases

Applicable Compliance Method -
Compliance shall be based upon stack testing per OAC rule 3745-17-03(B)(10).
 - b. Emission Limitation -
10.04 TPY Particulate Matter

Applicable Compliance Method -
Compliance shall be determined by multiplying the average hourly emission rate in pounds

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- c. Emission Limitation -
22.40 lbs/hr CO

Applicable Compliance Method -

Compliance shall be determined by multiplying the maximum hourly production rate of 400 tons/hour by the 0.056 lb CO/ton emission factor (AP-42 Section 11.1: Hot Mix Asphalt Plants, Table 11.1-7, 1/95). If required, compliance shall be based on conducting a stack test in accordance with USEPA Reference Method 10, of 40 CFR Part 60, Appendix A.

- d. Emission Limitation -
18.2 TPY CO

Applicable Compliance Method -

Compliance shall be based on the record keeping specified in Section C.2., multiplying each 12-month production summation by the 0.056 lb CO/ton emission factor, and dividing by 2,000 lbs/ton (AP-42 Section 11.1: Hot Mix Asphalt Plants, Table 11.1-7, 1/95).

- e. Emission Limitation -
30.0 lbs/hr NO_x

Applicable Compliance Method -

Compliance shall be determined by multiplying the maximum hourly production rate of 400 tons/hour by the 0.075 lb NO_x/ton emission factor (AP-42 Section 11.1: Hot Mix Asphalt Plants, Table 11.1-7, 1/95). If required, compliance shall be based on conducting a stack test in accordance with USEPA Reference Method 7 or 7A (as appropriate), of 40 CFR Part 60, Appendix A.

- f. Emission Limitation -
24.38 TPY NO_x

Applicable Compliance Method -

Compliance shall be based on the record keeping specified in Section C.2., multiplying each 12-month production summation by the 0.075 lb NO_x/ton emission factor, and dividing by 2,000 lbs/ton (AP-42 Section 11.1: Hot Mix Asphalt Plants, Table 11.1-7, 1/95).

- g. Emission Limitation -
22.40 lbs/hr SO₂

Applicable Compliance Method -

Compliance shall be determined by multiplying the maximum hourly production rate of 400

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tons/hour by the 0.056 lb SO₂/ton emission factor (AP-42 Section 11.1: Hot Mix Asphalt Plants, Table 11.1-7, 1/95). If required, compliance shall be based on conducting a stack test in accordance with OAC rule 3745-18-04(E).

- h. Emission Limitation -
18.2 TPY SO₂

Applicable Compliance Method -

Compliance shall be based on the record keeping specified in Section C.2., multiplying each 12-month production summation by the 0.056 lb SO₂/ton emission factor, and dividing by 2,000 lbs/ton (AP-42 Section 11.1: Hot Mix Asphalt Plants, Table 11.1-7, 1/95).

- i. Emission Limitation -
27.60 lbs/hr OC

Applicable Compliance Method -

Compliance shall be determined by multiplying the maximum hourly production rate of 400 tons/hour by the 0.069 lb OC/ton emission factor (AP-42 Section 11.1: Hot Mix Asphalt Plants, Table 11.1-7, 1/95). If required, compliance shall be based on conducting a stack test in accordance with either USEPA Reference Method 25 or 25A (as appropriate), of 40 CFR Part 60, Appendix A.

- j. Emission Limitation -
22.43 TPY OC

Applicable Compliance Method -

Compliance shall be based on the record keeping specified in Section C.2., multiplying each 12-month production summation by the 0.069 lb OC/ton emission factor, and dividing by 2,000 lbs/ton (AP-42 Section 11.1: Hot Mix Asphalt Plants, Table 11.1-7, 1/95).

- k. Emission Limitation -
1.22 lbs/hr HCl

Applicable Compliance Method -

Compliance shall be determined by multiplying the maximum hourly production rate of 400 tons/hr times an emission factor of 0.0028 lb/ton. (This emission factor was calculated by assuming a 1.22 lb/hr emission rate based on a previous Barrett #142 stack test.) If required, compliance shall be based upon stack testing employing USEPA Reference Method 26 or 26A (as appropriate), of 40 CFR Part 60, Appendix A.

- l. Emission Limitation -

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0.99 TPY HCl

Applicable Compliance Method -

Compliance shall be based on the record keeping specified in term and condition number C.2., multiplying the 12-month production summation by the 0.0028 lb/ton emission factor and dividing by 2,000 lbs/ton.

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- m. Emission Limitation -
0.76 lb/hr lead

Applicable Compliance Method -

Compliance shall be determined by multiplying the maximum concentration of 100 ppm in the waste oil by a density of 8.212 lb/gal of oil. The resulting emission factor of 0.00082 lb/gal shall then be multiplied by the maximum hourly oil usage of 920 gallons/hr. If required, compliance shall be based upon stack testing employing USEPA Reference Method 12 of 40 CFR Part 60, Appendix A.

- n. Emission Limitation -
0.57 TPY lead

Applicable Compliance Method -

Compliance shall be based on multiplying each 12-month production summation by the value of 2.3 gallons oil/ton of production to result in the amount of oil burned for each 12-month time period. The resulting gallons of oil/year shall then be multiplied by the emission factor of 0.00082 lb/gal (as determined in section E.1.m. above), and divided by 2,000 lbs/ton.

- o. Emission Limitation -
20% opacity as a 6-minute average

Applicable Compliance Method -

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in USEPA Reference Method 9.

- 2. During the first full production season which this permit is effective, the permittee shall conduct, or have conducted, an emission test(s) for this emissions unit in order to demonstrate compliance with the allowable mass emission rate(s) for particulates. The particulates test(s) shall be conducted in accordance with the test methods and procedures specified in "USEPA Reference Method 5, of 40 CFR Part 60, Appendix A" while the emissions unit is operating at or near maximum capacity.

During the first full production season which this permit is effective, the permittee shall conduct, or have conducted, an emission test(s) for this emissions unit in order to demonstrate compliance with the allowable mass emission rate(s) for organic compounds. The organic compounds test(s) shall be conducted in accordance with the test methods and procedures specified in "USEPA Reference Method 25 or 25A (as appropriate), of 40 CFR Part 60, Appendix A" while the emissions unit is operating at or near maximum capacity.

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Barr

PTI

Issued: August 22, 2000

Emissions Unit ID: **P901**

Barr**PTI**Emissions Unit ID: **P901****Issued: August 22, 2000**

During the first full production season which this permit is effective, the permittee shall conduct, or have conducted, an emission test(s) for this emissions unit in order to demonstrate compliance with the allowable mass emission rate(s) for lead. The lead test(s) shall be conducted in accordance with test methods and procedures specified in "USEPA Reference Method 12, of 40 CFR Part 60, Appendix A" while the emissions unit is operating at or near maximum capacity.

During the first full production season which this permit is effective, the permittee shall conduct, or have conducted, an emission test(s) for this emissions unit in order to demonstrate compliance with the allowable mass emission rate(s) for hydrogen chloride. The HCl test(s) shall be conducted in accordance with test methods and procedures specified in "USEPA Reference Method 26 or 26A, of 40 CFR Part 60, Appendix A" while the emissions unit is operating at or near maximum capacity.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification. 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 field office's refusal to accept the results of the emissions test(s).

Personnel from the Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment and acquire data and information regarding the emissions unit operating parameters.

A comprehensive written report on the results of the emission test(s) shall be submitted within 30 days following completion of the test(s).

F. Miscellaneous Requirements

1. Pursuant to OAC rule 3754-31-01(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a permit to install providing the following criteria are met:
 - a. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
 - b. the portable emissions unit is operating pursuant to a currently effective permit to operate;
 - c. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Director (the appropriate Ohio EPA District Office and/or local air agency having jurisdiction over the new site) within a minimum of 30 days prior to the scheduled

Barrett Paving Materials Inc #132

PTI Application 08-04160

Issue

Facility ID: 0857043201

Emissions Unit ID: P901

relocation; and,

- d. in the Director's (the appropriate Ohio EPA District Office and/or local air agency) judgement, the proposed site is acceptable under OAC rule 3745-15-07.

NEW SOURCE REVIEW FORM B

PTI Number: 08-04169 Facility ID: 0857043201

FACILITY NAME Barrett Paving Materials Inc #132

FACILITY DESCRIPTION portable 400 TPH drum mix asphalt plant. CITY/TWP Dayton

SIC CODE 2951 SCC CODE EMISSIONS UNIT ID P901

EMISSIONS UNIT DESCRIPTION 400 TPY Drum Mix Asphalt Plant #132

DATE INSTALLED waiting for PTI

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	gr/dscf	0.04	10.04	0.04	10.04
PM ₁₀					
Sulfur Dioxide	lbs/hr	22.40	18.2	22.40	18.2
Organic Compounds	lbs/hr	27.60	22.43	27.60	22.43
Nitrogen Oxides	lbs/hr	30.0	24.38	30.0	24.38
Carbon Monoxide	lbs/hr	22.40	18.2	22.40	18.2
Lead	lb/hr	0.76	0.57	0.76	0.57
Other: Air Toxics	lbs/hr HCl	1.22	0.99	1.22	0.99

APPLICABLE FEDERAL RULES:

NSPS? 40 CFR Part 60

NESHAP?

PSD?

OFFSET POLICY?

Subpart I**WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?**

Enter Determination: Compliance with 40 CFR Part 60, Subpart I, the toxics policy, visible emissions not to exceed 20% opacity, controlling emissions with a baghouse and meeting the 0.04 gr/dscf limitation and the specified limitations for CO, NOx, SO2, OC, HCl, and Pb.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT?

\$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*?

x YES NO

IDENTIFY THE AIR CONTAMINANTS:

HCl, formaldehyde