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Application Number: **01-7390**

Date: **June 30, 1999**

### **GENERAL PERMIT CONDITIONS**

#### **TERMINATION OF PERMIT TO INSTALL**

Substantial construction for installation must take place within 18 months of the effective date of this permit. 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.

#### **NOTICE OF INSPECTION**

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

#### **CONSTRUCTION OF NEW SOURCES**

The proposed source(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 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 source(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 Ohio Administrative Code (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.

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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 cannot meet applicable standards.

#### **PERMIT TO INSTALL FEE**

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 30 days of the effective date of this permit to install.

#### **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.

#### **APPLICABILITY**

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

#### **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.

#### **PERMIT TO OPERATE APPLICATION**

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be filed no later than thirty days after commencement of operation.

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**SOURCE OPERATION 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 and regulations.

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**AIR EMISSION SUMMARY**

The air contaminant emissions units listed below comprise the Permit to Install for **Columbus Bituminous Concrete Corp-VC-1** located in **Pickaway** County. The emissions units listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

<u>Ohio EPA Source Number</u>	<u>Source Identification Description</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
P001	Asphaltic concrete batch plant; hot aggregate elevator, vibrating screens, weigh hopper, and baghouse	Compliance with applicable rules and permitted limits along with terms and conditions contained within this permit	3745-31-05 40 CFR Part 60 Subpart I 3745-17-07 (A)(1) 3745-17-11 (B)*	0.04 gr/dscf of exhaust gases; 10.9 tons PM/year; Less than or equal to 20 percent opacity from the stack; Opacity shall not exceed 20 percent as a six minute average, except as provided by rule; 0.34 pound CO/ton of asphalt produced; 76.5 tons CO/year; 0.095 pound SO <sub>2</sub> /ton of asphalt produced; 21.4 tons SO <sub>2</sub> /year; 0.055 pound NO <sub>x</sub> /ton of asphalt produced; 12.4 tons
P001				
Cont'd				

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NO<sub>x</sub>/year;  
 0.017 pound  
 VOC/ton of  
 asphalt  
 produced;  
 3.9 tons  
 VOC/year

F001	Paved and unpaved roadways and parking	Compliance with permitted limits and terms and conditions contained within this permit along with speed reduction, good housekeeping, and no visible particulate emissions except for a period of 1 minute/3 minutes during any 60 minute observation period from a paved/unpaved roadway	3745-31-05	2.00 tons PM/year; See Additional Special Terms and Conditions
F002	Storage piles and material handling	Compliance with permitted limits and terms and conditions contained within this permit and no visible particulate emissions except for a period of 1 minute during any 60 minute observation period from a storage pile.	3745-31-05	.5 ton PM/year See Additional Special Terms and Conditions

\* The limit specified in this rule is (are) less stringent than the limitation specified in 40 CFR Part 60 Subpart I.

SUMMARY  
 TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
CO	76.5
VOC	3.9
SO <sub>2</sub>	21.4

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PM	13.4
NO <sub>x</sub>	12.4

#### **REPORTING REQUIREMENTS**

Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Ohio EPA, Central District Office, 3232 Alum Creek Drive, Columbus, OH 43207-3417.**

#### **WASTE DISPOSAL**

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

#### **MAINTENANCE OF EQUIPMENT**

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

#### **MALFUNCTION/ABATEMENT**

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the **Ohio EPA, Central District Office, 3232 Alum Creek Drive, Columbus, OH 43207-3417.**

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution sources.

#### **AIR POLLUTION NUISANCES PROHIBITED**

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

#### **ADDITIONAL SPECIAL TERMS AND CONDITIONS**

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**I. P001 - Asphaltic Concrete Batch Plant**

**A. Operational Requirements**

1. The maximum annual production rate for this emissions unit shall not exceed 450,000 tons, based upon a rolling 12-month summation of the production rates.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production levels specified in the following table:

Month	Maximum Allowable Production (Tons)
January	50,000
February	100,000
March	150,000
April	200,000
May	250,000
June	300,000
July	350,000
August	390,000
September	430,000
October	450,000
November	450,000
December	450,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production rate limitation shall be based upon a rolling, 12-month summation of the production rates.

2. 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 of not less than 4 inches or greater than 7 inches of water shall be maintained at all times.
3. Only natural gas shall be burned in P001. No other fuel shall be used in this emissions unit.

**B. Monitoring and Recordkeeping Requirements**

1. The permittee shall maintain monthly records of the following information:
  - a. the production rate for each month; and,
  - b. beginning after the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative

production rate for each calendar month.

Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative production rate for each calendar month.

2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on daily basis.
3. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five (5) 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 the permit. Such records may be maintained in computerized form.

**C. Reporting Requirements**

1. The permittee shall submit required reports in the following manner:
  - a. the permittee shall submit deviation (excursion) reports which identify all exceedances of the above-mentioned allowable pressure drop range.
  - b. reports of any required monitoring and/or recordkeeping information shall be submitted to the Ohio EPA, Central District Office; and,
  - c. 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 Ohio EPA, Central District Office. 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

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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).

**D. Testing Requirements**

1. Compliance with the emission limitation(s) in these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation

0.04 gr/dscf of exhaust gases

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Applicable Compliance Method

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

- a. the emission testing shall be conducted within 90 days of issuance of this permit;
- b. the emission testing shall be conducted to demonstrate compliance with the above referenced emission limitation; and,
- c. the following test method(s) shall be employed to demonstrate compliance with the given allowable mass emission rate(s): Method 10 of 40 CFR Part 60 Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

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

No later than 30 days prior to proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central 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, 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, Central District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, Central 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.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the test(s) and submitted to the Ohio EPA, Central District Office within 30 days following completion of the test(s).

Compliance with the ton per year limitation shall be determined by multiplying the average hourly emission rate in pounds per ton of asphaltic concrete production

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from the most recent compliance test by the 12-month cumulative production summation divided by 2,000 lbs/ton. During the first 12 months, until emission tests are conducted, the emission rate of 0.34 lb CO/ton from AP-42 shall be used in this calculation.

Emission Limitation

10.9 tons PM/yr

Applicable Compliance Method

Compliance with the ton per year limitation shall be determined by multiplying the average hourly emission rate in pounds per ton of asphaltic concrete production from the most recent compliance test by the 12-month cumulative production summation divided by 2,000 lbs/ton. During the first 12 months, until emission tests are conducted, the emission rate of 0.0481 lb PM/ton from AP-42 shall be used in this calculation.

Emission Limitation

Opacity shall not exceed 20 percent as a six minute average, except as provided by rule.

Applicable Compliance Method

OAC rule 3745-17-03(B)(1)

Emission Limitation

0.34 lb CO/ton of asphalt produced and 76.5 tons CO per year

Applicable Compliance Method

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

- a. the emission testing shall be conducted within 90 days of issuance of this permit;
- b. the emission testing shall be conducted to demonstrate compliance with the above referenced emission limitation; and,
- c. the following test method(s) shall be employed to demonstrate compliance with the given allowable mass emission rate(s): Method 10 of 40 CFR Part 60 Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

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

No later than 30 days prior to proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central 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, 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, Central District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, Central 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.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the test(s) and submitted to the Ohio EPA, Central District Office within 30 days following completion of the test(s).

Compliance with the ton per year limitation shall be determined by multiplying the average hourly emission rate in pounds per ton of asphaltic concrete production from the most recent compliance test by the 12-month cumulative production summation divided by 2,000 lbs/ton. During the first 12 months, until emission tests are conducted, the emission rate of 0.34 lb CO/ton from AP-42 shall be used in this calculation.

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Emission Limitation

0.095 lb SO<sub>2</sub>/ton of asphalt produced and 21.4 tons SO<sub>2</sub> per year

Applicable Compliance Method

Emission factor from AP-42 of 0.095 lb SO<sub>2</sub>/tons of asphalt produced.

Compliance with the ton per year limitation shall be achieved by multiplying the emission factor of 0.095 lb/tons by the actual number of tons produced for the past rolling 12-months.

Emission Limitation

0.055 lb NO<sub>x</sub>/ton of asphalt produced and 12.4 tons NO<sub>x</sub> per year

Applicable Compliance Method

Emission factor from AP-42 of 0.055 lb NO<sub>x</sub>/tons of asphalt produced.

Compliance with the ton per year limitation shall be achieved by multiplying the emission factor of 0.055 lb/tons by the actual number of tons produced for the past rolling 12-months.

Emission Limitation

0.017 lb VOC/ton of asphalt produced and 3.9 tons VOC per year

Applicable Compliance Method

Emission factor from AP-42 is 0.017 lb VOC/ton of asphalt produced.

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

- a. the emission testing shall be conducted within 90 days of issuance of this permit;
- b. the emission testing shall be conducted to demonstrate compliance with the above referenced emission limitation; and,
- c. the following test method(s) shall be employed to demonstrate compliance with the given allowable mass emission rate(s): Method 25 or 25A as

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

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

No later than 30 days prior to proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central 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, 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, Central District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, Central 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.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the test(s) and submitted to the Ohio EPA, Central District Office within 30 days following completion of the test(s).

Compliance with the ton per year limitation shall be achieved by multiplying the emission factor of 0.017 lb/ton by the actual number of tons produced for the past rolling 12-months.

**E. Miscellaneous**

1. All records required by this permit to install shall be retained on file for a period of not less than five (5) years unless otherwise indicated by the Ohio

Environmental Protection Agency. All records shall be made available to the Director, or any representative of the Director, for review during normal business hours.

**II. F001 - Paved and Unpaved Roadways and Parking**

**A. Operational Requirements**

1. The permittee shall sweep the paved roadways and parking areas to minimize or eliminate, at all times, visible emissions of fugitive dust generated by vehicular traffic. The paved surfaces shall be swept, at a minimum, when visible emissions can be seen. The permittee shall not be required to sweep during wet conditions when there is sufficient moisture to prevent visible emissions of fugitive dust.

The permittee shall apply dust suppressants to the unpaved roadways and parking areas to minimize or eliminate, at all times, visible emissions of fugitive dust generated by vehicular traffic. The dust suppressant shall be applied to the unpaved surfaces, at a minimum whenever fugitive dust can be seen. This term and condition shall be waived during wet conditions when there is sufficient moisture to prevent visible emissions of fugitive dust.

Waste oil defined by OAC rule 3745-279-01(A)(12) shall not be used as a dust suppressant. Any dust suppressant used shall be free of PCB and any hazardous waste (listed or characteristic).

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

A maximum speed limit of 15 miles per hour shall be posted and enforced on the property.

Open bodied vehicles transporting materials likely to become airborne shall be covered at all times.

**B. Monitoring and Recordkeeping Requirements**

1. The permittee shall maintain records which include the following information for the paved roadways and parking areas:
  - a. the date the paved surfaces were swept;
  - b. the portions of the paved surfaces that were swept; and,

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- c. the name of the equipment operator responsible for the sweeping.
2. The permittee shall maintain records which include the following information for the unpaved roadways and parking areas:
  - a. the date dust suppressants were applied to the unpaved surfaces;
  - b. the portions of unpaved surfaces that were treated with dust suppressants;
  - c. the application rate of water and any chemical additives (gallons of each per square yard); and,
  - d. the name of the equipment operator responsible for the application of the dust suppressants.
3. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five (5) 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 the permit. Such records may be maintained in computerized form.

**C. Testing Requirements**

1. Compliance with the emission limitation(s) in these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation

2.00 tons PM/yr

Applicable Compliance Method

Multiply the emission factor of 3.8 lbs/VMT by the maximum number of vehicle miles traveled from unpaved roadways and parking and divide by 2000 lbs/ton.

**III. F002 - Storage Piles and Material Handling**

**A. Operational Requirements**

1. All storage piles shall contain sufficient moisture so as to minimize or eliminate visible emissions caused by wind erosion.
2. There shall be no visible particulate emissions from the material storage piles except for a period of time not to exceed thirteen minutes during any sixty-minute observation period.
3. During the unloading onto or removal from the storage piles, the drop height of the front-end loader shall be minimized in order to minimize or eliminate visible emissions of fugitive dust.

**B. Monitoring and Recordkeeping Requirements**

1. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five (5) 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 the permit. Such records may be maintained in computerized form.

**C. Testing Requirements**

1. Compliance with the emissions limitation(s) in these terms and conditions shall be determined in accordance with the following method(s):

Emission Testing Requirements

.5 ton PM/yr

Applicable Compliance Method

Multiply the emission factor of 0.0287 lb/ton (for load-in) times the total number of tons per year load-in. Then multiply the emission factor of 0.0287 lb/ton (for load-out) times the total number of tons per year load-out. Then multiply the emission factor of 0.000165 lb/ton (for material handling) times the total number of

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tons per year handled. Add the results of these calculations together with 0.0023 ton per year (for wind erosion) to get a total tons/yr.