



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center  
122 S. Front Street  
Columbus, OH 43215

TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049  
Columbus, OH 43216-1049

**RE: FINAL PERMIT TO INSTALL  
MEDINA COUNTY  
Application No: 16-02343  
Fac ID: 1652000061**

**CERTIFIED MAIL**

	TOXIC REVIEW
	PSD
Y	SYNTHETIC MINOR
	CEMS
	MACT
40 CFR Part 60 Subpart I	NSPS
	NESHAPS
	NETTING
	MAJOR NON-ATTAINMENT
	MODELING SUBMITTED
	GASOLINE DISPENSING FACILITY

**DATE:** 8/12/2004

J and J Asphalt LLC  
James Lytle  
1941 Millersburg Rd  
Wooster, OH 446910082

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 Directors 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  
309 South Fourth Street, Room 222  
Columbus, Ohio 43215

Sincerely,

Michael W. Ahern, Manager  
Permit Issuance and Data Management Section  
Division of Air Pollution Control

cc: USEPA

ARAQMD



**Permit To Install  
Terms and Conditions**

**Issue Date: 8/12/2004  
Effective Date: 8/12/2004**

**FINAL PERMIT TO INSTALL 16-02343**

Application Number: 16-02343  
Facility ID: 1652000061  
Permit Fee: **\$2500**  
Name of Facility: J and J Asphalt LLC  
Person to Contact: James Lytle  
Address: 1941 Millersburg Rd  
Wooster, OH 446910082

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**8215 Seville Rd  
Lodi, Ohio**

Description of proposed emissions unit(s):  
**Hot Mix Asphalt Batch 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**

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or record keeping 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 record keeping 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 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 facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit 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 cannot meet the requirements of this permit 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 Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

**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 ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

**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>
SO <sub>2</sub>	18.00
VOC	18.00
NO <sub>x</sub>	10.50
CO	33.00
PE (stack)	12.35
PM <sub>10</sub> (stack)	7.94
PE (fugitive)	4.99
PM <sub>10</sub> (fugitive)	2.41

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

### **A. Applicable Emissions Limitations and/or Control Requirements**

- 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P901 - 250 TPH hot mix Custom Built Job Number 69-543 asphaltic concrete batch plant controlled by a 60,000 ACFM baghouse	OAC rule 3745-31-05 (A)(3)	<p>Carbon monoxide (CO) emissions from burning of natural gas, on-spec used oil, #2 fuel oil, #4 fuel oil, and #6 fuel oil shall not exceed 55.00 lbs/hr.</p> <p>Nitrogen Oxide (NO<sub>x</sub>) emissions from burning on-spec used oil, #2 fuel oil, #4 fuel oil, and #6 fuel oil shall not exceed 17.50 lbs/hr.</p> <p>NO<sub>x</sub> emissions from burning natural gas shall not exceed 6.25 lbs/hr.</p> <p>Sulfur Dioxide (SO<sub>2</sub>) emissions from burning on-spec used oil and #2 fuel oil shall not exceed 30.00 lbs/hr.</p> <p>Sulfur Dioxide (SO<sub>2</sub>) emissions from burning #4 fuel oil and #6 fuel oil shall not exceed 10.75 lbs/hr.</p> <p>SO<sub>2</sub> emissions from burning natural gas shall not exceed 1.15 lbs/hr.</p> <p>Volatile Organic Compound (VOC) emissions from burning of natural gas, on-spec used and #2 fuel oil shall not exceed 25.00 lbs/hr.</p> <p>Volatile Organic Compound (VOC) emissions from burning #4 fuel oil and #6 fuel oil shall not exceed 30.00 lbs/hr.</p>

PM<sub>10</sub> from the stack shall not exceed 0.04 gr/dscf when burning on-spec used oil, number 2 fuel oil, #4 fuel oil, #6 fuel oil or natural gas.

Emissions of fugitive PM<sub>10</sub> shall not exceed 10.8 pounds per hour.

Emissions of fugitive particulate emissions shall not exceed 22.5 pounds per hour.

Arsenic, cadmium, chromium, and lead emissions are limited by the fuel specifications in A.2.b below.

Visible particulate emissions from the stack shall not exceed 20% opacity, as a 3-minute average.

Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see section A.2.a).

No visible emissions of fugitive dust from the enclosures for the hot aggregate elevator, vibrating screens, and weigh hopper.

Visible emissions of fugitive dust (from areas other than the enclosures for the hot aggregate elevator, vibrating screens, and weigh hopper) shall be less than or equal to 10% opacity, as a 3-minute average.

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.

OAC rule 3745-35-07(B)  
(synthetic minor to avoid Title V)

OAC rule 3745-17-07(A)(1)  
OAC rule 3745-17-11(B)(1)  
OAC rule 3745-18-06(E)

The aggregate loaded into the storage bins shall have a moisture content sufficient to minimize the visible emissions of fugitive dust from conveyors and all transfer points to the dryer.

The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C) and 40CFR Part 60, Subpart I.

See A.I.2.b-f below

Particulate emissions (PE) from the stack shall not exceed 12.35 tons per rolling 12-month period.

PM<sub>10</sub> emissions from the stack shall not exceed 7.94 tons per rolling 12-month period.

Fugitive PE shall not exceed 4.99 tons per rolling 12-month period.

Fugitive PM<sub>10</sub> emissions shall not exceed 2.41 tons per rolling 12-month period.

CO emissions shall not exceed 33.00 tons per rolling 12-month period.

VOC emissions shall not exceed 18.00 tons per rolling 12-month period.

SO<sub>2</sub> emissions shall not exceed 18.00 tons per rolling 12-month period.

NO<sub>x</sub> emissions shall not exceed 10.50 tons per rolling 12-month period.

The emissions limitations specified by these rules are less stringent than the emission limitations established

40 CFR Part 60, Subpart I

pursuant to OAC rule 3745-31-05(A)(3).

PE from the stack shall not exceed 0.04 gr/dscf.

**2. Additional Terms and Conditions**

**2.a** The permittee shall ensure that the baghouse is operated with sufficient air volume to minimize or eliminate visible fugitive emissions from the rotary drum.

**2.b** All on spec used oil burned in this emissions unit shall meet the following specifications:

Contaminant/Property Allowable Specifications

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

**2.c** Used oil containing more than 1000 ppm total halogens is presumed to be a hazardous waste under the rebuttable presumption provided under 40 CFR Part 266.40(c) and OAC rule 3745-279. Therefore, the permittee 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 Part CFR 266.43(a)] has demonstrated to the Ohio EPA’s Division of Hazardous Waste Management that the used oil does not contain any hazardous waste.

**2.d** All number 2 and on-spec used oil burned in this emission unit shall have a sulfur content equal to or less than 0.5%, by weight.

**2.e** All number 4 fuel oil burned in this emission unit shall have a sulfur content equal to or less than 0.8%, by weight.

**2.f** All number 6 fuel oil burned in this emission unit shall have a sulfur content equal to or less than 1%, by weight.

**B. Operational Restrictions**

1. The pressure drop across the fabric filter shall be maintained within 1-8 inches of water while the emissions unit is in operation.
2. The permittee may not receive or burn any on spec used oil which does not meet the specifications listed in A.2.b of this permit without first obtaining a permit that authorizes the burning of such off-specification used oil. The burning of off-specification used oil is subject to OAC rule 3745-279-60 through 67.
3. The maximum annual asphalt production rate for this emissions unit shall not exceed 300,000 tons per year, based upon a rolling, 12-month summation of the asphalt production.

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:

<u>Month(s)</u>	<u>Maximum Allowable Cumulative Tons of Hot Mix Asphalt Produced</u>
1	75,000
1-2	150,000
1-3	300,000
1-4	300,000
1-5	300,000
1-6	300,000
1-7	300,000
1-8	300,000
1-9	300,000
1-10	300,000
1-11	300,000
1-12	300,000

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

4. The permittee may substitute reclaimed asphalt pavement (RAP) in the raw material feed mix in amounts not to exceed 50 percent of all aggregate materials.

**C. Monitoring and/or Record keeping Requirements**

1. The permittee shall receive a chemical analysis with each shipment of on spec 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 on spec used oil received;
  - c. The Btu value of the on spec used oil;
  - d. The flash point of the on spec used oil;
  - e. The arsenic content, in ppm;
  - f. The cadmium content, in ppm;
  - g. The chromium content, in ppm;;
  - h. The lead content, in ppm;;
  - i. The PCB content, in ppm;;
  - j. The total halogen content, in ppm;; and
  - k. The mercury content, in ppm;.

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 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 properly install, operate, and maintain equipment to monitor the pressure drop across the fabric filter 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 fabric filter on daily basis.
3. The permittee shall maintain monthly records of the following information:
  - a. The asphalt production for each month;
  - b. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the asphalt production;

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

- c. The maximum percentage RAP used for any mix.
4. For each shipment of number 2 fuel oil, number 4 fuel oil, number 6 fuel oil and on-spec used oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittees or oil supplier's analyses for sulfur content and heat content.
  5. The permittee shall perform daily visible emission checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the enclosures for the hot aggregate elevator, vibrating screens and weigh hopper servicing this emissions unit. If visible particulate emissions are observed, the permittee shall note the following in the operation log:
    - a. The color of the visible particulate emissions;
    - b. The cause of the visible particulate emissions;
    - c. The total duration of the visible particulate emission incident; and
    - d. Corrective actions taken to eliminate the visible particulate emissions.

The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned visible particulate emissions check frequency if operating experience indicates that less frequent checks would be sufficient to ensure compliance with the visible particulate emissions requirements.

6. The permittee shall perform daily visible emission checks, when the emissions unit is in operation and when the weather conditions allow, for any abnormal visible particulate emissions from the stack, aggregate storage bins and cold aggregate elevator/conveyor serving this emissions unit. If abnormal visible emissions are observed, the permittee shall note the following in the operation log:
  - a. The color of the abnormal visible particulate emissions;
  - b. The cause of the abnormal visible particulate emissions;
  - c. The total duration of any abnormal visible particulate emissions incident; and
  - d. Any corrective actions taken to eliminate the abnormal visible particulate emissions.

The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency modify the above-mentioned visible particulate emissions check

frequency if operating experience indicates that less frequent checks would be sufficient to ensure compliance with the visible particulate emissions requirements.

**D. Reporting Requirements**

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These reports are due by the date described in Part I- General Terms and Condition of this permit under section (A)(2).
2. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling 12-month asphalt production limitation and, for the first 12 calendar months of operation, all exceedances of the maximum allowable cumulative production levels. These reports are due by the date described in Part I- General Terms and Conditions of this permit under section (A)(2).
3. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the RAP limitation specified above. These reports are due by the date described in Part I- General Terms and Condition of this permit under section (A)(2).
4. The permittee shall submit annual reports which specify the total PM, SO<sub>2</sub>, NO<sub>x</sub>, VOC and CO emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year.
5. The permittee shall notify the USEPA and the Ohio EPA if any of the on spec used oil exceeds the on spec used oil specifications found in OAC rule 3745-279-11. If the permittee is burning on spec used oil which exceeds the specifications found in OAC rule 3745-279-11, the permittee is subject to that rule and must comply with all provisions of that rule. The required notification shall be submitted within 30 days of the date in which the exceedance occurred.
6. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the sulfur content limit specified above. These reports are due by the date described in Part I- General Terms and Condition of this permit under section (A)(2).
7. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:
  - a. Identify all days during which any abnormal visible particulate emissions were observed from the stack, aggregate storage bins and cold aggregate elevator/conveyors serving this emissions unit;
  - b. Identify all days during which any visible fugitive particulate emissions were observed from the enclosures for the hot aggregate elevator, vibrating screens, weigh hopper;
  - c. Describe any corrective actions taken to eliminate the abnormal visible particulate emissions.

These reports are due by the date described in Part I - General Terms and Conditions of this permit under section (A)(2).

8. The permittee shall submit a "Notice of Intent to Relocate a Portable or Mobile Source" from 30 days prior to any planned relocation of this emission unit, in accordance with OAC rule 3745-31-03(A)(6). (A copy of the form is attached to this permit). Approval of the planned relocation must be obtained from the appropriate Ohio EPA district office or local air agency prior to the relocation.

## **E. Testing Requirements**

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emission Limitations: PE shall not exceed 0.04 gr/dscf; VOC emissions from the burning of natural gas, number 2 fuel or on-spec used oil shall not exceed 25.00 lbs/hr, VOC emissions from the burning of number 4 and 6 fuel oil shall not exceed 30.00 lbs/hr; CO emissions from the burning of natural gas, number 2, 4, 6 fuel or on-spec used oil shall not exceed 55.00 lbs/hr; SO<sub>2</sub> emissions from the burning of natural gas shall not exceed 1.15 lbs/hr; SO<sub>2</sub> emissions from the burning of number 4 and 6 fuel oil shall not exceed 10.75 lbs/hr, SO<sub>2</sub> emissions from burning number 2 fuel or on-spec used oil shall not exceed 30.00 lbs/hr; NO<sub>x</sub> emissions from burning natural gas shall not exceed 6.25 lbs/hr and NO<sub>x</sub> emissions from burning number 2, 4, 6 fuel or on-spec used oil shall not exceed 17.50 lbs/hr.

Applicable Compliance Method: 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 60 days after achieving the maximum production rate but no later than 180 days after initial startup of the emissions unit.
- ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for PM, VOC, CO, NO<sub>x</sub> and SO<sub>2</sub>.
- iii. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s) for:

For PM, Methods 1-5 of 40 CFR Part 60, Appendix A.

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

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

For CO, Methods 1-4 and 10 of 40 CFR Part 60, Appendix A

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

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 and burning natural gas, numbers 2, 4, or 6 fuel oil or on spec used oil for PM, VOC, CO, NO<sub>x</sub> and SO<sub>2</sub> and employing the maximum percentage of RAP listed in the permit to verify VOC emissions, unless otherwise specified or approved by the Ohio EPA, ARAQMD.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Akron Regional Air Quality Management District (ARAQMD.) 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 ARAQMD's refusal to accept the results of the emission test(s).

Personnel from ARAQMD 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 tests and submitted to ARAQMD 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 ARAQMD.

- b. Emissions Limitation: PE emissions shall not exceed 12.35 tons per rolling 12-month period.

Applicable Compliance Method: Compliance with the annual emissions limitation shall be determined 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 term and condition C.3 above) and dividing by 2000.

- c. Emission Limitation: VOC emissions shall not exceed 18.00 tons per rolling 12-month period.

Applicable Compliance Method: Compliance with the annual emissions limitation shall be determined 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 term and condition C.3 above) and dividing by 2000.

- d. Emission Limitation: CO emissions shall not exceed 33.00 tons per rolling 12-month period.

Applicable Compliance Method: Compliance with the annual emissions limitation shall be determined 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 term and condition C.3 above) and dividing by 2000.

- e. Emission Limitation: SO<sub>2</sub> emissions shall not exceed 18.00 tons per rolling 12-month period.

Applicable Compliance Method: Compliance with the annual emissions limitation shall be determined 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 term and condition C.3 above) and dividing by 2000.

- f. Emission Limitation: NO<sub>x</sub> emissions shall not exceed 10.50 tons per rolling 12-month period.

Applicable Compliance Method: Compliance with the annual emissions limitation shall be determined 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 term and condition C.3 above) and dividing by 2000.

- g. Emission Limitations: Arsenic, cadmium, chromium and lead emissions are limited by the fuel specifications in A.2.b.

Applicable Compliance Method: Compliance with the emissions limitation for arsenic, cadmium and lead shall be demonstrated by the monitoring and record keeping in Section C.1 of this permit.

- h. Emission Limitation: Visible particulate emissions from the stack shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method: Compliance shall be determined using Method 9 as set forth in 40 CFR Part 60 Appendix A, as such appendix existed on July 1, 1996 and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

- i. Emission Limitation: No visible emissions of fugitive dust from the enclosures for the hot aggregate elevator, vibrating screens and weigh hopper.

Applicable Compliance Method: Compliance with the limitations on visible emissions of fugitive dust found in Section A.1 of this permit shall be demonstrated by the monitoring and record keeping in Section C.5.

- j. Emission Limitation: Visible emissions of fugitive dust (from areas other than the enclosures for the hot aggregate elevator, vibrating screens, and weigh hopper) shall be less than or equal to 10% opacity, as a 3-minute average.

Applicable Compliance Method: Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

- k. Emissions Limitation:  $PM_{10}$  emissions from the stack shall not exceed 7.94 tons per rolling 12-month period.

Applicable Compliance Method: Compliance with the annual emissions limitation shall be assumed as long as compliance is maintained with the rolling 12-month emissions limitation for particulate emissions.

- l. Emissions Limitation: Fugitive  $PM_{10}$  emissions shall not exceed 2.41 tons per rolling 12-month period.

Applicable Compliance Method: Compliance with the annual emissions limitation shall be assumed based upon the following worst case calculations:

Total fugitive emissions equal the summation of HMA loadout operations, conveying

operations, and aggregate material loading operations. Fugitives emissions are calculated as follows:

HMA Loadout Operations:  $(0.0003 \text{ lb of } PM_{10}/\text{ton of asphalt loaded})(300,000 \text{ tons asphalt loaded per year})(\text{ton}/2000 \text{ lbs}) = 0.05 \text{ ton of } PM_{10}/\text{year}$

Conveying Operations:  $(0.0033 \text{ lb of } PM_{10}/\text{ton of aggregate material})(110,000 \text{ tons of total raw aggregates per year})(9 \text{ conveyor transfer points})(\text{ton}/2000 \text{ lbs}) = 1.63 \text{ tons of } PM_{10}/\text{year}$

Loading Operations:  $(0.0033 \text{ lb of } PM_{10}/\text{ton of aggregate material})(110,000 \text{ tons of total raw aggregates per year})(4 \text{ loading transfer points})(\text{ton}/2000 \text{ lbs}) = 0.73 \text{ tons of } PM_{10}/\text{year}$

Total fugitive PM<sub>10</sub> emissions are therefore 2.41 tons.

Emissions factor for HMA loadout was obtained from USEPA reference document "AP-42" Chapter 11.1 (Hot Mix Asphalt Plants) Section 11.1.2.5. Using data from Tables 11.1-14 through 11.1-16, version dated (12/00).

Emissions factor for conveying and loading\*operations was obtained from USEPA reference document "AP-42" Chapter 11.12 (Concrete Batching) Table 11.12-2, version dated (10/01).

\*for purposes of this permit, the emission factor for conveying operations are considered the same for loading operations.

- m. Emissions Limitation: Fugitive PM emissions shall not exceed 4.98 tons per rolling 12-month period.

Applicable Compliance Method: Compliance with the annual emissions limitation shall be assumed based upon the following worst case calculations:

Total fugitive emissions equal the summation of HMA loadout operations, conveying operations, and aggregate material loading operations. Fugitives emissions are calculated as follows:

HMA Loadout Operations:  $(0.0003 \text{ lb of PM/ton of asphalt loaded})(300,000 \text{ tons asphalt loaded per year})(\text{ton}/2000 \text{ lbs}) = 0.05 \text{ ton of PM/year}$

Conveying Operations:  $(0.0069 \text{ lb of PM/ton of aggregate material})(110,000 \text{ tons of total raw aggregates per year})(9 \text{ conveyor transfer points})(\text{ton}/2000 \text{ lbs}) = 3.42 \text{ tons of PM/year}$

Loading Operations:  $(0.0069 \text{ lb of PM/ton of aggregate material})(110,000 \text{ tons of total raw aggregates per year})(4 \text{ loading transfer points})(\text{ton}/2000 \text{ lbs}) = 1.52 \text{ tons of PM/year}$

Total fugitive PM emissions are therefore 4.99 tons.

Emissions factor for HMA loadout was obtained from USEPA reference document "AP-42" Chapter 11.1 (Hot Mix Asphalt Plants) Section 11.1.2.5, Using data from Tables 11.1-14 through 11.1-16, version dated (12/00).

Emissions factor for conveying and loading\*operations was obtained from USEPA reference document "AP-42" Chapter 11.12 (Concrete Batching) Table 11.12-2, version dated (10/01).

\*for purposes of this permit, the emission factor for conveying operations are considered the same for loading operations.

- n. Emission Limitations: Emissions of fugitive PM<sub>10</sub> shall not exceed 10.8 pounds per hour.

Applicable Compliance Method: Compliance with this emissions limitation shall be assumed as long as compliance is maintained with the rolling 12-month operational restriction.

Fugitive PM<sub>10</sub> emissions are calculated as follows:

$$(250 \text{ tons of hot mix asphalt/hour} \times 0.0003 \text{ lb PM}_{10}/\text{ton of hot mix asphalt loadout}) + (250 \text{ tons of raw aggregate conveying/hour} \times 0.0033 \text{ lb PM}_{10}/\text{ton of raw aggregate conveyed} \times 9 \text{ conveyor transfer points}) + (250 \text{ tons of raw aggregate, RAP, and sand/hour} \times 0.0033 \text{ lb PM}_{10}/\text{ton of raw aggregate, RAP, and sand} \times 4 \text{ loading transfer points}) = 10.8 \text{ pounds per hour of PM}_{10}.$$

- o. Emission Limitations: Emissions of fugitive PM shall not exceed 22.5 pounds per hour.

Applicable Compliance Method: Compliance with this emissions limitation shall be assumed as long as compliance is maintained with the rolling 12-month operational restriction.

Fugitive PM emissions are calculated as follows:

$$(250 \text{ tons of hot mix asphalt/hour} \times 0.0003 \text{ lb PM}/\text{ton of hot mix asphalt loadout}) + (250 \text{ tons of raw aggregate conveying/hour} \times 0.0069 \text{ lb PM}/\text{ton of raw aggregate conveyed} \times 9 \text{ conveyor transfer points}) + (250 \text{ tons of raw aggregate, RAP, and sand/hour} \times 0.0069 \text{ lb PM}/\text{ton of raw aggregate, RAP, and sand} \times 4 \text{ conveyor transfer points}) = 22.5 \text{ pounds per hour of PM}$$

**F. Miscellaneous Requirements**

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

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
P901	250 tph asphalt batch plant	Subpart I

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

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

- i. Construction date (no later than 30 days after such date);

**J and J Asphalt LLC**

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**Issued: 8/12/2004**

**Facility ID: 1652000061**

**Emissions Unit ID: P901**

- ii. Actual start-up date (within 15 days after such date); and
- iii. Date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency  
DAPC- Air Quality Modeling and Planning  
P.O. Box 1049  
Columbus, OH 43216-1049

and

Akron Regional Air Quality Management District  
146 South High Street  
Suite 904  
Akron, OH 44308