



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL CERTIFIED MAIL
MUSKINGUM COUNTY**

Street Address:

122 S. Front Street

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

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 06-06124

DATE: 5/10/00

Mar Zane Plant No 24
Ronald P Morrison
PO Box 1585
Zanesville, OH 43701

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
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

SEDO



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

Permit To Install

Issue Date: 5/10/00

FINAL PERMIT TO INSTALL 06-06124

Application Number: 06-06124
APS Premise Number: 0660010242
Permit Fee: **\$5400**
Name of Facility: Mar Zane Plant No 24
Person to Contact: Ronald P Morrison
Address: PO Box 1585
Zanesville, OH 43701

Location of proposed air contaminant source(s) [emissions unit(s)]:

**3570 South River Road
Zanesville, Ohio**

Description of proposed emissions unit(s):

Hot 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 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

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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.

14. Construction Compliance Certification

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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>
PM	3.83
CO	15.96
NOx	8.55
SO ₂	0.94
VOC	15.04

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F001 - unpaved roadways and parking areas	OAC rule 3745-31-05 (A)(3)	no visible particulate emissions except for three minutes during any 60-minute period < 0.50 TPY PM best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b through A.2.g)

2. Additional Terms and Conditions

- 2.a The unpaved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:

unpaved roadways:

plant roadways

unpaved parking areas:

plant parking

- 2.b The permittee shall employ best available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee’s permit application, the permittee has committed to treat the unpaved roadways and parking areas with water spray and emulsified asphalt at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to

ensure compliance.

- 2.c** The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- 2.d** Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled using water spray. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to a visible emission limitation of no visible particulate emissions except for one minute during any 60-minute period.
- 2.e** The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- 2.f** Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- 2.g** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of the

unpaved roadways and parking areas in accordance with the following frequencies:

<u>unpaved roadways</u>	<u>minimum inspection frequency</u>
ALL	Daily
<u>unpaved parking areas</u>	<u>minimum inspection frequency</u>
ALL	Daily

2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
3. The permittee may, upon receipt of written approval from the Ohio EPA Southeast District Office, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
4. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

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Emissions Unit ID: **F001**

The information required in 4.d. shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

D. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the emission limitation for the unpaved roadways and parking areas identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.
2. Emission Limitation:
< 0.50 TPY PM

Compliance Method:
Compliance with the particulate limit, < 0.50 TPY, shall be demonstrated by the one time calculation using emission factors found in AP-42, Compilation of Air Pollutant Emission Factors, Chapter 13.2.2, (9/98); allowing 98% control efficiency for watering and asphalt emulsifier.

F. Miscellaneous Requirements

None

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F002 - aggregate, recycled asphalt material handling	OAC rule 3745-31-05 (A)(3)	visible emissions shall not exceed 20% opacity as a three minute average. 1.59 TPY PM best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b through A.2.d)

2. Additional Terms and Conditions

- 2.a The material handling operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:

aggregate, recycled asphalt material handling including all conveyor belts and transfer points

- 2.b The permittee shall employ best available control measures for the above-identified material handling operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to perform the following control measure(s) to ensure compliance:

material handling operation(s)

control measure(s)

All

Watering

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.c For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.
- 2.d Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

- 1. Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>material handling operation(s)</u>	<u>minimum inspection frequency</u>
---------------------------------------	-------------------------------------

All	Daily
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- 2. The above-mentioned inspections shall be performed during representative, normal operating conditions.
- 3. The permittee may, upon receipt of written approval from the Ohio EPA Southeast District Office, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
- 4. The permittee shall maintain records of the following information:

- a. the date and reason any required inspection was not performed;
- b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s):
- c. the dates the control measure(s) was (were) implemented; and
- d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in 4.d. shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

D. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency; and
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the visible emission limitation for the material handling operation(s) identified above 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.
2. Emission Limitation:
1.59 TPY PM

Compliance Method:

Compliance with the particulate limit, 1.59 TPY, shall be demonstrated by the one time calculation using emission factors found in AP-42, Compilation of Air Pollutant Emission Factors,

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Emissions Unit ID: **F002**

Chapter 13.2.4, (1/95) and 570,000 tons per year production rate, allowing 50% control efficiency for water spray.

F. Miscellaneous Requirements

None

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F003 - coarse and fine aggregate and recycled asphalt storage piles load-in and load-out of storage piles(see Section A.2.a for identification of storage piles)	OAC rule 3745-31-05 (A)(3)	no visible emissions except for one minute in any hour best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b, A.2.c and A.2.f)
wind erosion from storage piles (see Section A.2.a for identification of storage piles)		no visible emissions except for one minute in any hour best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.d through A.2.f)
		0.69 TPY PM

2. Additional Terms and Conditions

- 2.a The storage piles that are covered by this permit and subject to the requirements of OAC rule 3745-31-05 are listed below:

(2) recycled asphalt storage piles

- (5) coarse aggregate piles
- (5) fine aggregate piles

- 2.b** The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to watering, limited pile height and bucket drop height to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.c** The above-mentioned control measure(s) shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.
- 2.d** The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to watering to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.e** The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.
- 2.f** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

- 1. Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile in accordance with the following frequencies:

<u>storage pile identification</u>	<u>minimum load-in inspection frequency</u>
ALL	Daily

- 2. Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:

<u>storage pile identification</u>	<u>minimum load-out inspection frequency</u>
ALL	Daily

- 3. Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:

<u>storage pile identification</u>	<u>min. wind erosion inspection frequency</u>
ALL	Daily

- 4. No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

- 5. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.

6. The permittee may, upon receipt of written approval from the Ohio EPA Southeast District Office, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
7. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in 7.d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

D. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

Mar Z**PTI A****Issued: 5/10/00**Emissions Unit ID: **F003**

1. Compliance with the visible emission limitations for the storage piles identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

2. Emission Limitation:
0.69 TPY PM

Compliance Method:

Compliance with the particulate limit, 0.69 TPY, shall be demonstrated by the one time calculation using emission factors found in AP-42, Compilation of Air Pollutant Emission Factors, Chapter 13.2.4, (1/95); allowing 50% control for water spray, lower drop height and minimum pile height.

F. Miscellaneous Requirements

None

40 CFR Part 60 Subpart I

Applicable Emissions
 Limitations/Control Measures

The requirements of this rule also include compliance with the requirements of 40 CFR Part 60 Subpart I.

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

Emissions of carbon monoxide (CO) shall not exceed 22.4 lbs/hour;
 15.96 TPY

Emissions of oxides of nitrogen (NOx) shall not exceed 12.0 lb/hour;
 8.55 TPY

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

Emissions of sulfur dioxide (SO₂) shall not exceed 1.32 lb/hour;
 0.94 TPY

Emissions of volatile organic compounds (VOC) shall not exceed 20.4 lb/hour;
 14.54 TPY

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

Emissions of particulate matter shall not exceed 0.04 grains/dscf of exhaust gases (0.24 lb/hr)
 1.05 TPY

Visible emissions shall be < 20% opacity as a six minute average from the stack, except as provided by rule

The emission limitations specified by these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3)

Less than or equal to 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 eliminate the visible emissions of fugitive dust from the elevator and the transfer point to the dryer

2. Additional Terms and Conditions

- 2.a.** In accordance with OAC rule 3745-31-05, this emissions unit has been approved for the use of recycled asphalt products.

B. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 3.0 to 8.0 inches of water while the emissions unit is in operation.
2. The maximum annual production rate for this emissions unit shall not exceed 570,000 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:

<u>Month</u>	<u>Maximum Allowable Cumulative Production</u>
1	60,000 tons
1-2	120,000 tons
1-3	185,000 tons
1-4	250,000 tons
1-5	320,000 tons
1-6	390,000 tons
1-7	440,000 tons
1-8	460,000 tons
1-9	465,000 tons
1-10	470,000 tons
1-11	515,000 tons
1-12	570,000 tons

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

C. Monitoring and/or Recordkeeping Requirements

1. 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

Mar Zane Plant No 24
PTI Application: 06-06124
Issued

Facility ID: 0660010242

Emissions Unit ID: **P901**

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.

2. The permittee shall maintain monthly records of the following information:
 - a. The production rate for each month.
 - b. Beginning after the first 12 calendar months of operation following issuance of this permit, the rolling, 12-month summation of the production rates.

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

D. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The permittee shall submit a "Notice of Intent to Relocate a Portable or Mobile Source" form 30 days prior to any planned relocation of this emissions 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 SEDO prior to the relocation.
3. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month production rate limitation and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable monthly production levels.

E. Testing Requirements

1. Emissions Limitation:
0.04 gr/dscf and 0.24 lb/hr of PM
20.4 lb/hr VOC

Compliance Method:

Within three months of issuance of this permit, the permittee shall conduct, or have conducted, an emissions test for this emissions unit in order to demonstrate compliance with the allowable mass emission rate for particulate matter. The particulate test shall be conducted in accordance with the test methods and procedures specified in method 1-5 of 40 CFR Part 60, while the emissions unit is operating at or near maximum capacity and using virgin materials

Within three months of issuance of this permit, 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 volatile organic compounds. The VOC test(s) shall be conducted in accordance with the test methods and procedures specified in 25 of 40 CFR Part 60 while the emissions unit is operating at or near maximum capacity and using recycle products.

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 dates(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).

2. Emission Limitation:
1.05 TPY PM

Compliance Method:

Compliance shall be determined by the following calculation:

$0.040 \text{ gr/dscf} \times \text{lb}/7000 \text{ gr} \times \text{maximum flow rate of the control equipment} \times 60 \text{ min/hr} \times \text{hours of operation during the calendar year} \div 2000 \text{ lb/ton}$.

3. Emission Limitation:
14.54 TPY VOC

Compliance Method:

Compliance shall be determined by the one time calculation using the lb/hr VOC emission rate from emissions testing multiplied by the maximum hours of operation of this emissions unit, divided by 2000 lb/ton.

4. Emissions Limitation:
CO - 22.4 lb/hr; 15.96 TPY
NO_x - 12.0 lb/hr; 8.55 TPY
SO₂ - 1.32 lb/hr; 0.94 TPY

Compliance Method:

Compliance with the emissions limitations for CO, NO_x and SO₂ shall be determined by a one time calculation using AP-42, Chapter 11.1, Table 11.1-8 (1/95) emission factors for the individual pollutant multiplied by the appropriate production rate, 400 tons/hr or 570,000 tons per year.

F. Miscellaneous Requirements

None

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>
T001 - 25,000 gallon liquid asphalt tank	OAC rule 3745-31-05 (A)(3) 40 CFR Part 60 Subpart Kb	The requirements of this rule also include compliance with the requirements of 40 CFR Part 60 Subpart Kb (NSPS) < 0.25 TPY VOC See II.C.1. below

2. Additional Terms and Conditions

None

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

- The permittee shall maintain readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. These records shall be kept for the life of this emission source.

D. Reporting Requirements

None

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Mar 2

PTI A

Issued: 5/10/00

Emissions Unit ID: **T001**

E. Testing Requirements

1. Emission Limitation:
< 0.25 TPY VOC

Compliance Method:

Compliance shall be demonstrated by a one time calculation using the TANKS Program 3.1

F. Miscellaneous Requirements

None

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
T002 -25,000 gallon liquid asphalt tank	OAC rule 3745-31-05 (A)(3) 40 CFR Part 60 Subpart Kb	The requirements of this rule also include compliance with the requirements of 40 CFR Part 60 Subpart Kb (NSPS) < 0.25 TPY VOC See II.C.1. below

2. **Additional Terms and Conditions**

- 2.a None

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. These records shall be kept for the life of this emission source.

D. Reporting Requirements

None

E. Testing Requirements

1. Emission Limitation:
< 0.25 TPY VOC

Compliance Method:

Compliance shall be demonstrated by a one time calculation using the TANKS Program 3.1

F. Miscellaneous Requirements

None

NEW SOURCE REVIEW FORM B

PTI Number: 06-06124 Facility ID: 0660010242

FACILITY NAME Mar Zane Plant No 24

FACILITY DESCRIPTION Hot Mix Asphalt Plant. CITY/TWP Zanesville

SIC CODE 2951 SCC CODE 30500203 EMISSIONS UNIT ID F001

EMISSIONS UNIT DESCRIPTION Unpaved Roadways and Parking Areas.

DATE INSTALLED NA

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	attainment		negligible	no VE except 3 minutes	< 0.50 TPY
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination no visible particulate emissions except for three minutes during any 60-minute period, < 0.50 TPY PM; AP-42 emission factor

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

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*? _____ YES X NO

IDENTIFY THE AIR CONTAMINANTS: _____

NEW SOURCE REVIEW FORM B

PTI Number: 06-06124 Facility ID: 0660010242

FACILITY NAME Mar Zane Plant No 24

FACILITY DESCRIPTION Hot Mix Asphalt Plant.

CITY/TWP Zanesville

Emissions Unit ID: T002

SIC CODE 2951 SCC CODE 30502006 EMISSIONS UNIT ID F002

EMISSIONS UNIT DESCRIPTION Aggregate/Reclaimed Asphalt Material Handling.

DATE INSTALLED NA

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	attainment	NA	1.59	20 % opacity as 3-minute avg.	1.59
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination 20% opacity as 3 minute average, TPY PM; AP-42 emission factors

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

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*? YES X NO

IDENTIFY THE AIR CONTAMINANTS:

NEW SOURCE REVIEW FORM B

PTI Number: 06-06124 Facility ID: 0660010242

FACILITY NAME Mar Zane Plant No 24

FACILITY DESCRIPTION Hot Mix Asphalt Plant.

CITY/TWP Zanesville

Emissions Unit ID: T002

SIC CODE 2951 SCC CODE 30500203 EMISSIONS UNIT ID F003

EMISSIONS UNIT DESCRIPTION Aggregate/Reclaimed Asphalt Storage Piles.

DATE INSTALLED NA

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	attainment	NA	0.69	no VE except 1 minute	0.69
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination no VE except for 1 minute; TPY PM; AP-42 emission factor

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

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*? YES X NO

IDENTIFY THE AIR CONTAMINANTS:

NEW SOURCE REVIEW FORM B

PTI Number: 06-06124 Facility ID: 0660010242

FACILITY NAME Mar Zane Plant No 24

FACILITY DESCRIPTION Hot Mix Asphalt Plant.

CITY/TWP Zanesville

Emissions Unit ID: T002

SIC CODE 2951 SCC CODE 30500205 EMISSIONS UNIT ID T001

EMISSIONS UNIT DESCRIPTION 25,000 gallon Liquid Asphalt Storage Tank.

DATE INSTALLED NA

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					
PM ₁₀					
Sulfur Dioxide					
Organic Compounds		negligible	<0.25	NA	< 0.25
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? Subpart Kb

NESHAP?

PSD?

OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination record keeping for NSPS: TPY VOC from TANKS Program 3.1

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

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*? YES X NO

IDENTIFY THE AIR CONTAMINANTS:

36 **NEW SOURCE REVIEW FORM B**

PTI Number: 06-06124

Facility ID: 0660010243

FACILITY
FACILITY

Emissions Unit ID: **T002**

PTI REVIEW CHECKLIST

PTI # 06-06124

COMPLETE PACKAGE? - Check items (if included), arrange in this order

- | | | |
|---|---|---|
| <input checked="" type="checkbox"/> 1. BAT/T&C forms named; on L: drive | <input checked="" type="checkbox"/> 2. Notes, explanation
<input type="checkbox"/> 3. Netting/Syn. Minor | <input checked="" type="checkbox"/> 4. ERFs, Calculations
<input type="checkbox"/> 5. Modeling |
|---|---|---|

CALCULATIONS

ALL EMISSIONS UNITS

- Uncontrolled hourly (max hourly in absence of controls)
- Uncontrolled annual (uncontrolled hourly x 8760)
- Actual hourly (max hourly after controls)
- Actual annual (actual hourly x actual hours)
- Allowable hourly (hourly limit allowed in T&Cs)
- Allowable annual (allowable hourly x 8760)

SYNTHETIC MINOR or FESOP

- Restricted hourly (including enforceable synthetic minor operational limits)
- Restricted annual (including enforceable synthetic minor operational limits)

APPLICABLE RULES - For BAT: explain on Form B; cite SIP rule, NSPS, MACT, etc.

YES NO

- Title V - potential (max PTE @ 8760)
- Title V - actual
- FESOP (see OAC 3745-35-07)
- MACT - Listed category: _____
- HAP emissions > threshold
- 112g - Title V for HAP, but no MACT issued
- NESHAP
- NSPS - Listed category: Subpart I and Kb Affected facility(ies): _____
- Exemptions: _____
- Nonattainment area
- PSD/OFFSETS - potential (unc. max with fed enf control @ 8760)
- PSD/OFFSETS - actual
- Netting to avoid PSD/OFFSETS
- Synthetic Minor to avoid PSD/OFFSETS
- Modeling required
- Air Toxics Policy - pollutant(s): _____

TITLE V	NONATTAINMENT
100 tpy criteria pollutant	
10 tpy single HAP	Coshocton: SO ₂
25 tpy total HAP	Gallia: SO ₂

PSD/OFFSETS APPLICABILITY

Existing facility >250 tpy allowable, or >100 tpy if facility one of 28 listed categories

THRESHOLDS - TPY

CO: 100
NOx: 40
SO₂: 40
TSP: 25
PM₁₀₋₁₅: 15
VOC: 40
Pb: 0.6
Hg: 0.1
Be: 0.0004
F: 3.0
Asbestos: 0.007
Vinyl Chloride: 1.0
H₂SO₄ Mist: 7.0
H₂S: 10.0
Total Reduced S: 10.0

MODELING THRESHOLDS - TPY

Hg: 0.1
Be: 0.0004
F: 3.0
Toxics: 1.0
Asbestos: 0.007
Vinyl Chloride: 1.0
H₂SO₄ Mist: 7.0
H₂S: 10.0
Total Reduced S: 10.0

TERMS AND CONDITIONS

3 NEW SOURCE REVIEW FORM B

PTI Number: 06-06124

Facility ID: 0660010242

FACILITY

FACILITY

Emissions Unit ID: **T002**

- All applicable rules listed, including exemptions
- All SIP rules cited (as applicable: 17-07, 17-08, 17-11, 18, 21-07, 21-09, 23, 75)
- Compliance determination and M, R, Rp for all limits, additional T&Cs and ORs
- Short term limit, except tanks, roads, storage piles, material handling
- TPY limit in applicable rules table
- Adequate T&Cs to support all applicable rules checked above
- PTO template #: 102,124 & 129 Why not/Changes: _____

PTI Num:

FACILITY

Emissions Unit ID: **T002** _____

FACILITY DESCRIPTION Hot Mix Asphalt Plant.

CITY/TWP Zanesville

ENGINEERING REVIEW FORM

FUGITIVE DUST EMISSION SOURCES

- 1. *Facility name:* Mar-Zane, Inc. Plant 24
- 2. *Facility location (city or township):* Zanesville
- Is location in appendix A area: (yes/no)* no
- 3. *Permit application number:* 06-06124

4. *Year source installed:* 2000

5. *Is source NSPS: (yes/no)* no *If yes category:*

6. *Emission Rates: One source per form*

Total facility Particulate emissions: 3.83 TPY

<i>Fugitive Dust Source Description</i>	<i>Applicable Section from Paragraph (B) of OAC Rule 3745-17-08 (i.e., (B)(1), (B)(2) . . .)</i>	<i>Uncontrolled lb/hr</i> <i>except for roadways, storage piles, and material handling</i>	<i>Uncontrolled</i> <i>TPY</i>	<i>Control led</i> <i>TPY</i>	<i>Allowable</i> <i>lb/hr or*</i>	<i>Allowable</i> <i>TPY</i>
F001-unpaved roadways/parking areas	NA		<i>negligible</i>	<i>negligible</i>		<0.50

** Some sample entries are as follows: 0.030 gr/dscf, no VE's, minimize or eliminate VE's, etc.*

7. *Modeling required if PM₁₀ greater than 10 TPY, Also if more than one ton HAP. PSD if major and more than 15 TPY*

8. *Calculations:*

See attached calculations sheet.

Source of emission factors (AP-42, RACM, or where):

AP-42

9. *Name of person completing form and date:*

Kay Gilmer, 3/30/00

PTI Num:

FACILITY

Emissions Unit ID: **T002** _____

FACILITY DESCRIPTION

Hot Mix Asphalt Plant.

CITY/TWP

Zanesville

ENGINEERING REVIEW FORM

FUGITIVE DUST EMISSION SOURCES

- 1. *Facility name:* Mar-Zane, Inc. Plant 24
- 2. *Facility location (city or township):* Zanesville
- Is location in appendix A area: (yes/no)* no
- 3. *Permit application number:* 06-06124

4. *Year source installed:* 2000

5. *Is source NSPS: (yes/no)* no *If yes category:*

6. *Emission Rates: One source per form*

Total facility Particulate emissions: 3.83 TPY

<i>Fugitive Dust Source Description</i>	<i>Applicable Section from Paragraph (B) of OAC Rule 3745-17-08 (i.e., (B)(1), (B)(2) . . .)</i>	<i>Uncontrolled lb/hr except for roadways, storage piles, and material handling</i>	<i>Uncontrolled TPY</i>	<i>Control led TPY</i>	<i>Allowable lb/hr or*</i>	<i>Allowable TPY</i>
F002-aggregate, recycled asphalt material handling	NA		3.19	1.59		1.59

** Some sample entries are as follows: 0.030 gr/dscf, no VE's, minimize or eliminate VE's, etc.*

7. *Modeling required if PM₁₀ greater than 10 TPY, Also if more than one ton HAP. PSD if major and more than 15 TPY*

8. *Calculations:*

See attached calculations sheet.

Source of emission factors (AP-42, RACM, or where):

AP-42

9. *Name of person completing form and date:*

Kay Gilmer, 3/30/00

NEW SOURCE REVIEW FORM B

PTI Number: 06-06124

Facility ID: 0660010240

FACILITY

FACILITY

Emissions Unit ID: T002

ENGINEERING REVIEW FORM

FUGITIVE DUST EMISSION SOURCES

- 1. Facility name: Mar-Zane, Inc. Plant 24
- 2. Facility location (city or township): Zanesville
Is location in appendix A area: (yes/no) no
- 3. Permit application number: 06-06124

4. Year source installed: 2000

5. Is source NSPS: (yes/no) no If yes category:

6. Emission Rates: One source per form

Total facility Particulate emissions: 3.83 TPY

<i>Fugitive Dust Source Description</i>	<i>Applicable Section from Paragraph (B) of OAC Rule 3745-17-08 (i.e., (B)(1), (B)(2) . . .)</i>	<i>Uncontrolled lb/hr except for roadways, storage piles, and material handling</i>	<i>Uncontrolled TPY</i>	<i>Control led TPY</i>	<i>Allowable lb/hr or*</i>	<i>Allowable TPY</i>
F003-coarse and fine aggregate and recycled asphalt storage piles	NA		1.39	0.69		0.69

* Some sample entries are as follows: 0.030 gr/dscf, no VE's, minimize or eliminate VE's, etc.

7. Modeling required if PM₁₀ greater than 10 TPY, Also if more than one ton HAP. PSD if major and more than 15 TPY

8. Calculations:

See attached calculations sheet.

Source of emission factors (AP-42, RACM, or where):

AP-42

9. Name of person completing form and date:

Kay Gilmer, 3/30/00

4 **NEW SC**

PTI Num

FACILITY

FACILITY DESCRIPTION

Hot Mix Asphalt Plant.

CITY/TWP

Emissions Unit ID: **T002**

Zanesville

ENGINEERING REVIEW FORM

1. Facility name: Mar-Zane, Inc. Plant 24

2. Permit application number: 06-06124

3. Source description: 400 ton per hour Drum Mix Asphalt Plant with baghouse (**P901**)

4. Year source installed/modified: 2000

5. Maximum rate (show units):

6. Emission rates:

<i>Pollutant</i>	<i>PSD/Ohio tpy</i>	<i>Total facility allowable tpy</i>	<i>Uncontrolled, #/hr</i>	<i>Uncontrolled, tpy</i>	<i>Actual #/hr</i>	<i>Actual tpy</i>	<i>Allowable #/hr</i>	<i>Allowable tpy</i>
<i>Particulate matter</i>	--/--	3.83	7600 lb/hr	5415	0.24 lb/hr	1.05	0.04 gr/dscf (0.24 lb/hr)	1.05
<i>PM₁₀</i>	15/10							
<i>SO₂</i>	40/25	0.94	1.32 lb/hr	5.78	1.32 lb/hr	0.94	1.32 lb/hr	0.94
<i>NO_x</i>	40/25	8.55	12.0 lb/hr	52.6	12.0 lb/hr	8.55	12.0 lb/hr	8.55
<i>CO</i>	100/100	15.96	22.4 lb/hr	98.11	22.4 lb/hr	15.96	22.4 lb/hr	15.96
<i>VOC / OC</i>	40/--	15.04	20.4 lb/hr	89.35	20.4 lb/hr	14.54	20.4 lb/hr	14.54
<i>Toxics/HAPs</i>	--/1.0							

7. PSD Major facility (see below) NSPS, Subpart: I MACT, Subpart:
 Contemporaneous increases (allowable, last 2 yrs): PM: _____ SO₂: _____ NO_x: _____ CO: _____ OC: _____

8. Identify regulation(s) governing this source and describe pertinent requirements and exemptions.

OAC 3745-31-05 - includes NSPS limits and lb/hr and TPY limits for CO, NO_x, SO₂ and VOC; OAC 3745-17-07 and 17-11 - less stringent than 3745-31-05; NSPS Subpart I - 20% opacity and 0.04 gr/dscfm PM

9. Control Strategy: baghouse

10. CALCULATIONS:

Uncontrolled: based on AP-42 Chapter 11.1 emission factors

PM = 19 lb/ton x 400 ton per hour = 7600 lb/hr x 8760 hour/yr ÷ 2000 lb/ton = 5415 TPY
 CO = 0.056 lb/ton x 400 ton per hour = **22.4 lb/hr** x 8760 hours/yr ÷ 2000 lb/ton = 98.11 TPY
 NO_x = 0.030 lb/ton x 400 ton per hour = **12.0 lb/hr** x 8760 hours/yr ÷ 2000 lb/ton = 52.6 TPY
 SO₂ = 0.0033 lb/ton x 400 ton per hour = **1.32 lb/hr** x 8760 hours/yr ÷ 2000 lb/ton = 5.78 TPY
 VOC = 0.051 lb/ton x 400 ton per hour = **20.4 lb/hr** x 8760 hours/yr ÷ 2000 lb/ton = 89.35 TPY

Allowable:

42 NEW SOURCE REVIEW FORM B

PTI Number: 06-06124

Facility ID: 0660010242

FACILITY

FACILITY

Emissions Unit ID: **T002**

$$PM = 0.04 \text{ gr/dscfm} \times \text{lb}/7000 \text{ gr} \times 60 \text{ min/hr} \times 70000 \text{ acfm} = 0.24 \text{ lb/hr}$$

$$0.24 \text{ lb/hr} \times 8760 \text{ hours/yr} \div 2000 \text{ lb/ton} = 1.05 \text{ TPY}$$

CO, NOx,SO2 and VOC **hourly emission rates same as uncontrolled above;**

annual emission rates based on AP-42 Chapter 11.1 emission factors and 570,000 ton per year production limit:

$$CO = 0.056 \text{ lb/ton} \times 570,000 \text{ ton per year} \div 2000 \text{ lb/ton} = 15.96 \text{ TPY}$$

$$NOx = 0.030 \text{ lb/ton} \times 570,00 \text{ ton per year} \div 2000 \text{ lb/ton} = 8.55 \text{ TPY}$$

$$SO2 = 0.0033 \text{ lb/ton} \times 570,00 \text{ ton per year} \div 2000 \text{ lb/ton} = 0.94 \text{ TPY}$$

$$VOC = 0.051 \text{ lb/ton} \times 570,00 \text{ ton per year} \div 2000 \text{ lb/ton} = 14.54 \text{ TPY}$$

Actual: same as allowables

HAP emissions (max.): based on maximum HAP content and maximum coating usage

None > 10/25 TPY

Toxics emissions: based on maximum toxics content and maximum coating usage

None > 1 TPY

11. Comments: None

12. Reviewer, date: Kay Gilmer, 03/30/00

43 NEW SC

PTI Num

FACILITY

FACILITY DESCRIPTION

Hot Mix Asphalt Plant.

CITY/TWP

Emissions Unit ID: T002

Zanesville

ENGINEERING REVIEW FORM

1. Facility name: Mar-Zane, Inc. Plant 24

2. Permit application number: 06-06124

3. Source description: 25000 gallon liquid asphalt storage tank (T001) and (T002)

4. Year source installed/modified: 2000

5. Maximum rate (show units):

6. Emission rates:

Pollutant	PSD/Ohio tpy	Total facility allowable tpy	Uncontrolled, #/hr	Uncontrolled, tpy	Actual #/hr	Actual tpy	Allowable #/hr	Allowable tpy
Particulate matter	--/--							
PM ₁₀	15/10							
SO ₂	40/25							
NO _x	40/25							
CO	100/100							
VOC / OC	40/--	15.04	negligible	< 0.25	negligible	< 0.25	NA	< 0.25
Toxics/HAPs	--/1.0							

7. PSD Major facility (see below) NSPS, Subpart:Kb MACT, Subpart:
Contemporaneous increases (allowable, last 2 yrs): PM: _____ SO₂: _____ NO_x: _____ CO: _____ OC: _____

8. Identify regulation(s) governing this source and describe pertinent requirements and exemptions.
OAC 3745-31-05 - includes NSPS limits and TPY limits for VOC; NSPS Subpart Kb - recordkeeping

9. Control Strategy: NA

10. CALCULATIONS:

Uncontrolled: see attached TANKS Program 3.1 print-out

Allowable: same as above

Actual: same as above

HAP emissions (max.): based on maximum HAP content and maximum coating usage

None > 10 TPY

Toxics emissions: based on maximum toxics content and maximum coating usage

None > 1.0 TPY

11. Comments: None

12. Reviewer, date: Kay Gilmer, 03/30/00

NEW SOURCE REVIEW FORM B

PTI Number: 06-06124

Facility ID: 0660010242

FACILITY NAME Mar Zane Plant No 24

FACILITY DESCRIPTION Hot Mix Asphalt Plant.

CITY/TWP

Zanesville

45 **NEW SC**

PTI Num:

FACILITY

Emissions Unit ID: **F001** _____

FACILITY DESCRIPTION Hot Mix Asphalt Plant.

CITY/TWP Zanesville

Please describe any hard copy information is being submitted with this recommendation (Please send hard copy information to Pam McGraner, DAPC Central Office - Air Quality Modeling and Planning):

Emission calculations for F001, F002, F003 - Quattro Pro Tables.

Emission calculations for T001 and T002 - TANKS Program 3.1 print-out.

Please provide any additional permit specific notes as you deem necessary:

NONE

Permit To Install Synthetic Minor Write-Up

NONE

Please fill in the following for this permit:

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
PM	3.83
CO	15.96
NOx	8.55
SO₂	0.94
VOC	15.04