

**FEDERALLY ENFORCEABLE STATE
OPERATING PERMIT (FESOP) RENEWAL**

**INDIANA DEPARTMENT OF ENVIRONMENTAL
MANAGEMENT
OFFICE OF AIR QUALITY
and
INDIANAPOLIS OFFICE OF ENVIRONMENTAL SERVICES**

**Mar-Zane, Inc.
2605 Kentucky Avenue
Indianapolis, Indiana 46241**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

The Permittee must comply with all conditions of this permit. Noncompliance with any provision of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; and denial of a permit renewal application. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: F097-19229-00165	
Issued by: John B. Chavez, Administrator Indianapolis Office of Environmental Services	Issuance Date: September 3, 2004 Expiration Date: September 3, 2009

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ), and Indianapolis Office of Environmental Services (OES). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates a stationary hot drum mix asphalt plant.

Authorized individual:	Larry E. Young – Vice President
Source Address:	2605 Kentucky Avenue, Indianapolis, Indiana 46241
Mailing Address:	P.O. Box 1585, Zanesville, Ohio 43702
General Source Phone:	(317) 773-2351
SIC Code:	2951
Source Location Status:	Marion County
Source Status:	Nonattainment for ozone under the 8-hour standard; Attainment for all other criteria pollutants Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD Rules; Minor Source, Section 112 of the Clean Air Act

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This stationary source consists of the following emission units and pollution control devices:

- (a) One (1) stationary hot asphalt drum mixer and aggregate dryer, constructed in 2003, identified as 001, with a maximum capacity of 400 tons per hour and an effective maximum capacity of 300 tons per hour based on the most recent stack test, equipped with one (1) natural gas-fired burner with a rated heat input of 125 million Btu per hour (MMBtu/hr), using No. 2 fuel oil, No. 4 fuel oil, and waste oil as a backup fuel, controlled by one (1) baghouse, identified as CE001A, as particulate control, and exhausting to stack 001.
- (b) Cold mix asphalt storage pile.
- (c) One (1) asphalt storage tank with a maximum capacity of 33,750 gallons.

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million BTU per hour:
 - One (1) hot oil heater rated at 2.0 million Btu per hour (MMBtu/hr) combusting natural gas and No. 2 fuel oil as a backup, and exhausting through one (1) stack.
- (b) One (1) portable No.2 distillate fuel oil storage tank with a maximum storage capacity of 10,000 gallons.
- (c) One (1) portable emulsion storage tank with a maximum storage capacity of 10,000 gallons.

- (d) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (e) Paved and unpaved roads and parking lots with public access.[326 IAC 6-4]
- (f) Truck and conveyor transfer operations.
- (g) Aggregate stockpiles and vehicular trafficking.
- (h) Storage tanks emitting less than five (5) tons per year of VOCs, less than one (1) ton per year of a single HAP, and less than two and one-half (2.5) tons per year of any combination fo HAPs:

Four (4) above-ground, fixed-roof dome storage tanks, identified as T-1, T-2, T-3, and T-4, constructed in 2003, each having a maximum storage capacity of 20,000 gallons.

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ), and OES to renew a Federally Enforceable State Operating Permit (FESOP).

A.5 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deletedby this permit.
- (b) All previous registrations and permits are superseded by this permit.

SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [IC 13]

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

B.2 Definitions [326 IAC 2-8-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2, and 326 IAC 2-7) shall prevail.

B.3 Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5]

This permit is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date.

B.4 Enforceability [326 IAC 2-8-6]

- (a) Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM and OES, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.
- (b) Unless otherwise stated, all terms and conditions in this permit that are local requirements, including any provisions designed to limit the source's potential to emit, are enforceable by OES.

B.5 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

B.6 Severability [326 IAC 2-8-4(4)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

B.8 Duty to Provide Information [326 IAC 2-8-4(5)(E)]

- (a) The Permittee shall furnish to IDEM, OAQ, and OES within a reasonable time, any information that IDEM, OAQ, and OES may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ, and OES copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, and OES, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ and OES may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.10 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an authorized individual of truth, accuracy, and completeness. This certification, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.
- (c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

B.11 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than April 15 of each year to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services
Air Compliance
2700 South Belmont Avenue
Indianapolis, IN 46221-2009

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, and OES on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
 - (5) Such other facts as specified in Sections D of this permit, IDEM, OAQ, and OES may require to determine the compliance status of the source.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.12 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs), including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.
- (c) A copy of the PMPs shall be submitted to IDEM, OAQ, and OES upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ, and OES. IDEM, OAQ, and OES may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMP does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation, Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.13 Emergency Provisions [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:
- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, and OES, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone No.: 1-800-451-6027 (ask for IDEM, OAQ, Compliance Section) or,
Telephone No.: 317-233-5674 (ask for IDEM, OAQ, Compliance Section)
Facsimile No.: 317-233-5967

and

Telephone No.: 317-327-2234 (ask for OES Air Compliance Section)
Facsimile No.: 317-327-2274

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services
Air Compliance
2700 South Belmont Avenue
Indianapolis, IN 46221-2009

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
 - (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
 - (e) IDEM, OAQ, and OES, may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
 - (f) Failure to notify IDEM, OAQ, and OES, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.

- (g) Operations may continue during an emergency only if the following conditions are met:
- (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.
- Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.
- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

B.14 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provision), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services
Air Compliance
2700 South Belmont Avenue
Indianapolis, IN 46221-2009

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated

noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if OES determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by OES to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by OES at least thirty (30) days in advance of the date this permit is to be reopened, except that OES may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.16 Permit Renewal [326 IAC 2-8-3(h)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and OES and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, IN 46206-6015

and

Indianapolis Office of Environmental Services
Air Permits
2700 South Belmont Avenue
Indianapolis, IN 46221-2009

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]
 - (1) A timely renewal application is one that is:
 - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be

considered timely if received by IDEM, OAQ, and OES on or before the date it is due.

- (2) If IDEM, OAQ, and OES upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.
- (c) **Right to Operate After Application for Renewal [326 IAC 2-8-9]**
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ, and OES takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, and OES, any additional information identified as needed to process the application.

B.17 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:
- Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015
- and
- Indianapolis Office of Environmental Services
Air Permits
2700 South Belmont Avenue
Indianapolis, IN 46221-2009
- Any such application shall be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]
- (d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.

B.18 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

- (a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without prior permit revision, if each of the following conditions is met:
- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;

(3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services
Air Permits
2700 South Belmont Avenue
Indianapolis, IN 46221-2009

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

(5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ, and OES, in the notices specified in 326 IAC 2-8-15(b)(2), (c)(1), and (d).

(b) Emission Trades [326 IAC 2-8-15(c)]
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).

(c) Alternative Operating Scenarios [326 IAC 2-8-15(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ, or U.S. EPA is required.

B.19 Permit Revision Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-8-11.1.

B.20 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, OES, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.21 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services
Air Permits
2700 South Belmont Avenue
Indianapolis, IN 46221-2009

The application which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.22 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.

- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4320 (ask for OAQ, Policy, Planning, and Coordinating Seciton), to determine the appropriate permit fee.

B.23 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314]

Notwithstanding the conditions of this permit that state specific methods that may be used to demonstrate compliance with, or a violation of, applicable requirements, any person (including the Permittee) may also use other credible evidence to demonstrate compliance with, or a violation of, any term or condition of this permit.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [40 CFR 52 Subpart P][326 IAC 6-3-2]

- (1) Pursuant to 40 CFR 52 Subpart P, particulate matter emissions from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.
- (2) Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

C.2 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

- (a) Pursuant to 326 IAC 2-8:
 - (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall also satisfy the requirements of 326 IAC 2-3 (Emission Offset);
 - (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
 - (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.
- (b) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided the source's potential to emit does not exceed the above specified limits.
- (c) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.3 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.4 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and in 326 IAC 9-1-2.

C.6 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

C.7 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted on October 29, 1997. The plan is included as Attachment A

C.8 Operation of Equipment [326 IAC 2-8-5(a)(4)]

Except as otherwise provided by statute, rule or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

C.9 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

C.10 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
- (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services
Asbestos Section
2700 South Belmont Avenue
Indianapolis, IN 46221-2009

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1 emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Accredited Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

Testing Requirements [326 IAC 2-8-4(3)]

C.11 Performance Testing [326 IAC 3-6]

- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ, and OES.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services
Air Compliance
2700 South Belmont Avenue
Indianapolis, IN 46221-2009

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ, and OES of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ, and OES not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, and OES, if the Permittee submits to IDEM, OAQ, and OES a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.12 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

C.13 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented upon issuance of this permit. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment.

Unless otherwise specified in the approval for the new emissions unit, compliance monitoring for new emission units or emission units added through a permit revision shall be implemented when operation begins.

C.14 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63 or other approved methods as specified in this permit.

C.15 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)] [326 IAC 2-8-5(1)]

- (a) Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (" 2%) of full scale reading.
- (b) Whenever a condition in this permit requires the measurement of a flow rate, the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (" 2%) of full scale reading.

- (c) The Preventive Maintenance Plan for the pH meter shall include calibration using known standards. The frequency of calibration shall be adjusted such that the typical error found at calibration is less than one pH point.
- (d) The Permittee may request the IDEM, OAQ, and OES approve the use of a pressure gauge or other instrument that does not meet the above specifications provided the Permittee can demonstrate an alternative pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of pressure drop or other parameters.

Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

C.16 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the Permittee must comply with the applicable requirements of 40 CFR 68.

C.17 Compliance Response Plan - Preparation, Implementation, Records, and Reports [326 IAC 2-8-4] [326 IAC 2-8-5]

-
- (a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. If a Permittee is required to have an Operation, Maintenance and Monitoring (OMM) Plan (or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan) under 40 CFR 60/63, such plans shall be deemed to satisfy the requirements for a CRP for those compliance monitoring conditions. A CRP shall be submitted to IDEM, OAQ, and OES upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and is comprised of:
 - (1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected time frame for taking reasonable response steps.
 - (2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan to include such response steps taken.

The OMM Plan shall be submitted within the time frames specified by the applicable 40 CFR60/63 requirement.

- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:
 - (1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan; or
 - (2) If none of the reasonable response steps listed in the Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.

- (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, and it will be ten (10) days or more until the unit or device will be shut down, then the Permittee shall promptly notify the IDEM, OAQ, and OES of the expected date of the shut down. The notification shall also include the status of the applicable compliance monitoring parameter with respect to normal, and the results of the response actions taken up to the time of notification.
 - (4) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (c) The Permittee is not required to take any further response steps for any of the following reasons:
 - (1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.
 - (3) An automatic measurement was taken when the process was not operating.
 - (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.
- (d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.
- (e) The Permittee shall record all instances when response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-8-12 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.
- (f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

C.18 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, and OES within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ, and OES that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ, and OES may extend the retesting deadline.
- (c) IDEM, OAQ, and OES reserve the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.19 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the OES Administrator makes a request for records to the Permittee, the Permittee shall furnish the records to the OES Administrator within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.20 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services
Air Compliance
2700 South Belmont Avenue
Indianapolis, IN 46221-2009

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, and OES on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

Stratospheric Ozone Protection

C.21 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR 82.156
- (b) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

One (1) stationary hot asphalt drum mixer and aggregate dryer, constructed in 2003, identified as 001, with a maximum capacity of 400 tons per hour and an effective maximum capacity of 300 tons per hour based on the most recent stack test, equipped with one (1) natural gas-fired burner with a rated heat input of 125 million Btu per hour (MMBtu/hr), using No. 2 fuel oil, No. 4 fuel oil, and waste oil as a backup fuel, controlled by one (1) using baghouse, identified as CE001A as particulate control, and exhausting to stack 001.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.1.1 Particulate Matter (PM) [326 IAC 12][326 IAC 6-1-2(a)][40 CFR 60.90, Subpart I][326 IAC 2-2][40 CFR 52.21]

Pursuant to 326 IAC 6-1-2(a) and the New Source Performance Standards, 326 IAC 12 (40 CFR 60.90 to 60.93, Subpart I):

- (a) particulate matter emissions from the hot mix asphalt facility shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf). Compliance with 326 IAC 6-1-2(a) will satisfy 326 IAC 12 and 40 CFR 60.92(a)(1), Subpart I, and
- (b) the visible emissions from the hot mix asphalt facility shall not exceed 20 percent opacity.

This emission limitation is equivalent to 9.84 pounds per hour based on an exhaust rate of 65,000 acfm and an exhaust gas temperature and moisture content of 230 degrees Fahrenheit, 30 percent respectively. Compliance with this limit makes 326 IAC 2-2 and 40 CFR 52.21 not applicable.

D.1.2 Particulate emissions less than ten (10) microns (PM-10) [326 IAC 2-8-4][326 IAC 2-2][40 CFR 52.21]

Pursuant to 326 IAC 2-8-4, particulate emissions less than ten (10) microns in diameter from the aggregate mixing and drying operation shall not exceed 22.2 pounds per hour, including both filterable and condensable fractions. Compliance with this limit will satisfy 326 IAC 2-8-4. Therefore, the Part 70 rules (326 IAC 2-7) and PSD rules (326 IAC 2-2 and 40 CFR 52.21) do not apply.

D.1.3 Sulfur Dioxide (SO₂) [326 IAC 7-1.1]

Pursuant to 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations), sulfur dioxide emissions from the burner for the aggregate dryer shall be limited to 0.5 pounds per million Btu heat input or a sulfur content of less than or equal to 0.50% by weight when combusting distillate oil and 1.6 pounds per MMBtu heat input when combusting residual oil.

D.1.4 NO_x Emissions - Natural gas usage [326 IAC 2-8-4] [326 IAC 2-2] [40 CFR 52.21]

Pursuant to 326 IAC 2-8-4(1), the input of natural gas and natural gas equivalents to the aggregate dryer burner shall not exceed 1028.95 million cubic feet (MMCF) per twelve (12) consecutive month period with compliance determined at the end of each month. For the purposes of determining compliance every 1,000 gallons (kgal) of No.2 fuel oil or No. 4 fuel oil burned is equivalent to 0.20 MMCF of natural gas burned; and every 1,000 gallons of waste fuel oil burned is

equivalent to 0.19 MMCF of natural gas burned. Therefore, the requirements of 326 IAC 2-7, 326 IAC 2-2, and 40 CFR 52.21 will not apply.

D.1.5 SO₂ Emissions – Fuel oil usage [326 IAC 2-8-4][326 IAC 2-2][40 CFR 52.21]

Pursuant to 326 IAC 2-8-4(1), the input of No. 2 fuel oil and No.2 fuel oil equivalents to the aggregate dryer shall be limited to, 2,663,662 U.S. gallons per twelve (12) consecutive month period, compliance determined at the end of each month (based on No. 2 fuel oil having a maximum sulfur content of 0.50%). For purposes of determining compliance: every MMCF of natural gas burned is equivalent to 8.5 gallons of No.2 fuel oil burned; every gallon of No. 4 fuel oil (with a sulfur content of 0.50%) burned is equivalent to 1.06 gallons of No. 2 fuel burned; and every gallon of waste oil (with a sulfur content of 1.51%) burned is equivalent to 3.13 gallons of No. 2 fuel oil burned. Therefore, the requirements of 326 IAC 2-7, 326 IAC 2-2, and 40 CFR 52.21 will not apply.

D.1.6 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and any control devices.

Compliance Determination Requirements

D.1.7 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

On or before May 6, 2009, in order to demonstrate compliance with Condition D.1.1 and Condition D.1.2, the Permittee shall perform PM and PM-10 testing for the aggregate mixer and dryer utilizing methods as approved by the IDEM Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM-10 includes filterable and condensable PM-10. Testing shall be conducted in accordance with Section C- Performance Testing.

D.1.8 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 3-7-4]

Compliance with the Condition D.1.3 shall be determined using one of the following options:

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the fuel oil sulfur content does not exceed five-tenths percent (0.5%) by weight for distillate fuel oil and 1.51% by weight for residual fuel oil by:
 - (1) Providing vendor analysis of fuel delivered, if accompanied by a certification;
 - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
 - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
 - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling; or
- (b) Compliance may also be determined by conducting stack tests for sulfur dioxide emissions from the 125.0 MMBTU per hour burner for the aggregate dryer, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to either of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

D.1.9 Particulate Matter (PM)

In order to comply with Conditions D.1.1 and D.1.2, the baghouse for PM control shall be in operation at all times when the aggregate dryer is in operation and exhausting to the outside atmosphere, and the throughput of the hot asphalt drum mixer and aggregate dryer shall not

exceed 300 tons per hour. The permittee shall record the average throughput once per twenty-four hour period and the hours of operation for that twenty-four hour period.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

D.1.10 Visible Emissions Notations

- (a) Visible emission notations of the aggregate dryer stack exhaust shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan – Preparation, Implementation, Records and Reports shall be considered a deviation from this permit.

D.1.11 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the aggregate dryer, at least once per shift when the aggregate dryer is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 2.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Compliance Response Plan – Preparation, Implementation, Records and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records and Reports shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and OES, and shall be calibrated at least once every six (6) months.

D.1.12 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the drum mixer and dryer operation when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting indoors. All defective bags shall be replaced.

D.1.13 Broken or Failed Bag Detection

In the event that bag failure has been observed:

- (a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with

Section C - Compliance Response Plan -Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit. If operations continue after bag failure is observed and it will be 10 days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ, and OES of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

- (b) For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.14 Record Keeping Requirements

- (a) To document compliance with Condition D.1.4, the Permittee shall maintain records in accordance with (1) through (2) below.
 - (1) Calendar dates covered in the compliance determination period;
 - (2) Actual natural gas and natural gas equivalents usage per month since last compliance determination period and equivalent NOx emissions;
- (b) To document compliance with Conditions D.1.5 and D.1.8, the Permittee shall maintain records in accordance with (1) through (5) below.
 - (1) Calendar dates covered in the compliance determination period;
 - (2) Actual No. 2 distillate fuel oil and fuel oil No. 2 equivalents usage per month since last compliance determination period and equivalent sulfur dioxide emissions;
 - (3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period; and

If the fuel supplier certification is used to demonstrate compliance, the following, as a minimum, shall be maintained:

- (4) Fuel supplier certifications.
- (5) The name of the fuel supplier; and
- (6) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

- (c) To document compliance with Condition D.1.10, the Permittee shall maintain once per shift records of visible emission notations of the aggregate dryer baghouse stack exhaust.

- (d) To document compliance with Condition D.1.11, the Permittee shall maintain the following:
 - (1) Once per shift records of the following operational parameters during normal operation when venting to the atmosphere:
 - (A) Inlet and outlet differential static pressure; and
 - (B) Cleaning cycle: frequency and differential pressure.
 - (2) Documentation of all response steps implemented, per event .
 - (3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.
 - (4) Quality Assurance/Quality Control (QA/QC) procedures.
 - (5) Operator standard operating procedures (SOP).
 - (6) Manufacturer's specifications or its equivalent.
 - (7) Equipment "troubleshooting" contingency plan.
- (e) To document compliance with Condition D.1.9, the Permittee shall maintain records of the average throughput once per twenty-four hour period and the hours of operation for each twenty-four hour period for the hot asphalt drum mixer and aggregate dryer.
- (f) To document compliance with Condition D.1.12, the Permittee shall maintain records of the results of the inspections required under Condition D.1.12 and the dates the vents are redirected.
- (g) To document compliance with Condition D.1.6, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.
- (h) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.15 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.4 and D.1.5 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the calendar quarter being reported.

D.1.16 Used Oil Requirements

The waste oil burned in the dryer shall comply with the used oil requirements specified in 329 IAC 13 (Used Oil Management). Pursuant to 329 IAC 13-3-2 (Used Oil Specifications), used oil burned for energy recovery that is classified as off-specification used oil fuel shall comply with the provisions of 329 IAC 13-8 (Used Oil Burners Who Burn Off-specification Used Oil For Energy Recovery), including:

- (a) Receipt of an EPA identification number as outlined in 329 IAC 13-8-3 (Notification),
- (b) Compliance with the used oil storage requirements specified in 329 IAC 13-8-5 (Used Oil Storage), and
- (c) Maintaining records pursuant to 329 IAC 13-8-6 (Tracking).

The burning of mixtures of used oil and hazardous waste that is regulated under 329 IAC 3.1 is prohibited at this source.

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

Cold mix asphalt storage pile.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.2.1 Cold-Mix (Stockpile Mix) VOC Usage [326 IAC 2-8-4]

- (a) The usage of diluent in the production of cold mix (stockpile mix) asphalt shall be limited to 336.77 tons per twelve (12) consecutive month period with compliance determined at the end of each month. This is equivalent to a VOC emission limit of 80.82 tons per twelve (12) consecutive month period in the production of cold mix (stockpile mix) asphalt.
- (b) The volume percent of diluent in the cutback asphalt shall not exceed 7.0%.
- (c) The VOC content of the diluent shall not exceed 35.0% by weight.

D.2.2 Volatile Organic Compounds (VOC) [326 IAC 8-5-2] [326 IAC 2-8-4]

- (a) Pursuant to 326 IAC 8-5-2 (Miscellaneous Operations: Asphalt Paving), no person shall cause or allow the use of cutback asphalt or asphalt emulsion containing more than seven percent (7%) of distillate by volume of emulsion for any paving application except:
 - (1) penetrating prime coating;
 - (2) stockpile storage;
 - (3) application during the months of November, December, January, February, and March.

D.2.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility.

Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.2.4 Record Keeping Requirements

- (a) To document compliance with Condition D.2.1, the Permittee shall maintain records of cold mix asphalt diluent usage in tons per month.
- (b) To document compliance with Condition D.2.3, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.2.5 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.2.1 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the calendar quarter being reported.

SECTION D.3

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

- (a) One (1) asphalt storage tank with a maximum capacity of 33,750 gallons.
- (b) Four (4) above-ground, fixed-roof dome storage tanks, identified as T-1, T-2, T-3, and T-4, constructed in 2003, each having a maximum storage capacity of 20,000 gallons.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.3.1 Volatile Organic Compounds (VOCs) [326 IAC 12] [40 CFR 60.110b, Subpart Kb]

Pursuant to 40 CFR Part 60.110b, Subpart Kb (Standards of Performance for Volatile Organic Liquid Storage Vessels), the 33,750 gallon asphalt cement storage tank and the four (4) 20,000 gallon asphalt storage tanks (T-1, T-2, T-3 and T-4), with a vapor pressure of less than 15.0 kPa, is subject to 40 CFR Part 60.116b, paragraphs (a), (b), and (d). 40 CFR Part 60.116b (a) and (b) requires record keeping and (d) requires notification if a volatile organic liquid is stored with a vapor pressure of 15.0 kPa or greater.

Any change or modification which may increase the capacity or maximum true vapor pressure of the liquid stored in the asphalt cement and asphalt storage tanks, shall obtain prior approval from the OES and Office of Air Quality (OAQ).

D.3.2 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.3.3 Record Keeping Requirements [326 IAC 12]

- (a) To document compliance with Condition D.3.1, the Permittee shall maintain permanent records at the source in accordance with (1) and (2) below:
 - (1) the dimension of the storage vessels; and
 - (2) an analysis showing the capacity of the storage vessels.
- (b) To document compliance with Condition D.3.2, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
and
INDIANAPOLIS OFFICE OF ENVIRONMENTAL SERVICES**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
CERTIFICATION**

Source Name: Mar-Zane, Inc.
Source Address: 2605 Kentucky Avenue, Indianapolis, Indiana 46241
Mailing Address: P.O. Box 1585, Zanesville, Ohio, 43702
FESOP No.: 097-19229-00165

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify) _____
- Report (specify) _____
- Notification (specify) _____
- Affidavit (specify) _____
- Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967
and
INDIANAPOLIS OFFICE OF ENVIRONMENTAL SERVICES
Air Compliance
2700 South Belmont Avenue
Indianapolis, IN 46221-2209**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
EMERGENCY OCCURRENCE REPORT**

Source Name: Mar-Zane, Inc.
Source Address: 2605 Kentucky Avenue, Indianapolis, Indiana 46241
Mailing Address: P.O. Box 1585, Zanesville, Ohio 43702
FESOP No.: 097-19229-00165

This form consists of 2 pages

Page 1 of 2

- This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
 - The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____
Title / Position: _____
Date: _____
Phone: _____

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION
 And
 INDIANAPOLIS OFFICE OF ENVIRONMENTAL SERVICES
 FESOP Quarterly Report**

Source Name: Mar-Zane, Inc.
 Source Address: 2605 Kentucky Ave, Indianapolis, Indiana 46241
 Mailing Address: P.O.Box 655, Noblesville, Indiana 46061
 FESOP No.: F097-19229-00135
 Facility: Aggregate dryer
 Parameter: NOx Emissions
 Limit: The input of natural gas and natural gas equivalents to the aggregate dryer burner shall not exceed 1,028.95 million cubic feet (MMCF) per twelve (12) consecutive month period. For purposes of determining compliance, when No.2 fuel oil is burned, the following equivalency calculation shall be performed: every 1000 gallons (kgal) of No.2 fuel oil burned is equivalent to 0.1263 MMCF of natural gas burned;

YEAR: _____

Month	Natural Gas and equivalent usage (MMCF)	Natural Gas and equivalent usage (MMCF)	Natural Gas and equivalent usage (MMCF/yr)
	This Month	Previous 11 Months	12 Month Total

- 9 No deviation occurred in this quarter.
- 9 Deviation/s occurred in this quarter.
 Deviation has been reported on: _____

Submitted by: _____
 Title / Position: _____
 Signature: _____
 Date: _____
 Phone: _____

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR MANAGEMENT
 COMPLIANCE DATA SECTION
 And
 INDIANAPOLIS OFFICE OF ENVIRONMENTAL SERVICES**

FESOP Quarterly Report

Source Name: Mar-Zane, Inc.
 Source Address: 2605 Kentucky Ave, Indianapolis, Indiana 46241
 Mailing Address: P.O.Box 1585, Zanesville, Ohio 43702
 FESOP No.: F097-19229-00135
 Facility: Aggregate dryer
 Parameter: SO₂ Emissions
 Limit: The input of No. 2 fuel oil and No.2 fuel oil equivalents to the aggregate dryer shall be limited to 2,663,662 U.S. gallons per twelve (12) consecutive months, rolled on a monthly basis and based on No. 2 fuel oil having a maximum sulfur content of 0.50%. For purposes of determining compliance, when natural gas is burned, the following equivalency calculations shall be performed: every MMCF of natural gas burned is equivalent to 8.5 gallons of No.2 fuel oil burned;

YEAR: _____

Month	No.2 Fuel oil and equivalent usage (U.S. Gallons)	No.2 Fuel oil and equivalent usage (U.S. Gallons)	No.2 Fuel oil and equivalent usage (U.S. Gallons/year)
	This Month	Previous 11 Months	12 Month Total

- 9 No deviation occurred in this quarter.
- 9 Deviation/s occurred in this quarter.
 Deviation has been reported on:

Submitted by: _____
 Title / Position: _____
 Signature: _____
 Date: _____
 Phone: _____

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR MANAGEMENT
 COMPLIANCE DATA SECTION
 And
 INDIANAPOLIS OFFICE OF ENVIRONMENTAL SERVICES**

FESOP Quarterly Report

Source Name: Mar-Zane, Inc.
 Source Address: 2605 Kentucky Ave, Indianapolis, Indiana 46241
 Mailing Address: P.O.Box 1585, Zanesville, Ohio 43702
 FESOP No.: F097-19229-00165
 Facility: Stockpile mix
 Parameter: VOC
 Limit: The usage of diluent in the production of cold mix (stockpile mix) asphalt shall be limited to 336.77 tons per twelve (12) consecutive month period with compliance determined at the end of each month. The total for each month shall not exceed the difference between the annual usage limit minus the sum of actual usage from the previous eleven (11) months. This is equivalent to a VOC emission limit of 80.82 tons per twelve (12) consecutive month period in the production of cold mix (stockpile mix) asphalt.

YEAR: _____

Month	Cold mix asphalt diluent (tons)	Cold mix asphalt throughput (tons)	Cold mix asphalt throughput (tons/year)
	This Month	Previous 11 Months	12 Month Total

- 9 No deviation occurred in this quarter.
- 9 Deviation/s occurred in this quarter.
 Deviation has been reported on: _____

Submitted by: _____
 Title / Position: _____
 Signature: _____
 Date: _____
 Phone: _____

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION
And
INDIANAPOLIS OFFICE OF ENVIRONMENTAL SERVICES**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
QUARTERLY COMPLIANCE MONITORING REPORT**

Source Name: Mar-Zane, Inc.
Source Address: 2605 Kentucky Ave, Indianapolis, Indiana 46241
Mailing Address: P.O.Box 1585, Zanesville, Ohio 43702
FESOP No.: F097-19229-00165

Months: _____ to _____ Year: _____

This report is an affirmation that the source has met all the compliance monitoring requirements stated in this permit. This report shall be submitted quarterly. Any deviation from the compliance monitoring requirements and the date(s) of each deviation must be reported. Additional pages may be attached if necessary. This form can be supplemented by attaching the Emergency/Deviation Occurrence Report. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

NO DEVIATIONS OCCURRED THIS REPORTING PERIOD

THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD.

Compliance Monitoring Requirement (eg. Permit Condition D.1.3)	Number of Deviations	Date of each Deviation

Form Completed By: _____
Title/Position: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

**Indiana Department of Environmental Management
Office of Air Quality
and
Indianapolis Office of Environmental Services**

Technical Support Document (TSD) for a Federally Enforceable State Operating Permit
(FESOP) Renewal

Source Background and Description

Source Name:	Mar-Zane, Inc.
Source Location:	2605 Kentucky Avenue, Indianapolis, Indiana 46241
County:	Marion
SIC Code:	2951
Operation Permit No.:	097-10435-00165
Operation Permit Issuance Date:	May 12, 2000
Permit Renewal No.:	097-19229-00165
Permit Reviewer:	Angelique Oligier

The Indiana Department of Environmental Management (IDEM) Office of Air Quality (OAQ) and Indianapolis Office of Environmental Services (OES) have reviewed a FESOP renewal application from Mar-Zane, Inc. relating to the operation of a hot drum mix asphalt plant.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

- (a) One (1) stationary hot asphalt drum mixer and aggregate dryer, constructed in 2003, identified as 001, with a maximum capacity of 400 tons per hour, equipped with one (1) natural gas-fired burner with a rated heat input of 125 million Btu per hour (MMBtu/hr), using No. 2 fuel oil, No. 4 fuel oil, and waste oil as a backup fuel, controlled by one (1) using baghouse, identified as CE001A as particulate control, and exhausting to stack 001.
- (b) Cold mix asphalt storage pile.
- (c) One (1) asphalt storage tank with a maximum capacity of 33,750 gallons.

Unpermitted Emission Units and Pollution Control Equipment

There are no unpermitted emission units operating at this source during this review process.

Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million BTU per hour:

- One (1) hot oil heater rated at 2.0 million Btu per hour (MMBtu/hr) combusting natural gas and No. 2 fuel oil as a backup, and exhausting through one (1) stack.
- (b) One (1) portable No.2 distillate fuel oil storage tank with a maximum storage capacity of 10,000 gallons.
 - (c) One (1) portable emulsion storage tank with a maximum storage capacity of 10,000 gallons.
 - (d) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
 - (e) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]
 - (f) Truck and conveyor transfer operations.
 - (g) Aggregate stockpiles and vehicular trafficking.
 - (h) Storage tanks emitting less than five (5) tons per year of VOCs, less than one (1) ton per year of a single HAP, and less than two and one-half (2.5) tons per year of any combination of HAPs:

Four (4) above-ground, fixed-roof dome storage tanks, identified as T-1, T-2, T-3, and T-4, constructed in 2003, each having a maximum storage capacity of 20,000 gallons.

Existing Approvals

The source has been operating under the previous FESOP 097-10435-00165 issued on May 12, 2000, with an expiration date of May 12, 2005, and the following amendments and revisions:

- (a) 097-17121-00165 issued on June 16, 2003.

All conditions from previous approvals were incorporated into this FESOP except the following:

097-10435-00165, issued on May 12, 2000

Condition C.18 Emission Statement [326 IAC 2-6][326 IAC 2-8-4(3)]:

- (1) The permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6. This annual statement must be received by April 15 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8) (Emission Statement Operating Year). The annual statement must be submitted to:
 - Indiana Department of Environmental Management
 - Technical Support and Modeling Section, Office of Air Quality
 - 100 North Senate Avenue, P.O. Box 6015
 - Indianapolis, Indiana 46206-6015
- (2) The annual emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

Reason not incorporated: Revisions to 326 IAC 2-6 (Emission Reporting) became effective on March 27, 2004. The Permittee is no longer required to submit an emission statement; therefore, the emission statement condition will be removed from the permit.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Administrator that the FESOP renewal be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete FESOP renewal application for the purposes of this review was received on June 1, 2004.

Emission Calculations

See Appendix A of this document for detailed emission calculations (seven pages).

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source, excluding the emission limits that were contained in the previous FESOP.

Pollutant	Unrestricted Potential Emissions (tons/yr)
PM	Greater than 250
PM-10	Greater than 250
SO ₂	Greater than 250
VOC	Greater than 250
CO	Less than 100
NO _x	Less than 100

HAPs	Unrestricted Potential Emissions (tons/yr)
Acetaldehyde	2.27
Benzene	0.70
Ethylbenzene	0.42
Formaldehyde	5.43
Hexane	1.61
Toluene	5.08
Xylene	0.35
Total	15.87

Potential to Emit After Issuance

The source has opted to remain a FESOP source. The table below summarizes the potential to emit, reflecting all limits of the emission units. Any control equipment is considered enforceable only after issuance of this FESOP and only to the extent that the effect of the control equipment is made practically enforceable in the permit. Since the source has not constructed any new

emission units, the source's potential to emit is based on the emission units included in the original FESOP

Process/ emission unit	Potential To Emit (tons/year)						
	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs
Hot Oil Heater	0.13	0.07	4.44	0.05	0.74	1.25	Negligible
Aggregate Dryer Burner	52.48	52.48	94.54	0.45	6.66	26.63	15.87
Conveying/ Handling	0.41	0.86	Negligible	Negligible	Negligible	Negligible	Negligible
Unpaved Roads	2.7	0.94	Negligible	Negligible	Negligible	Negligible	Negligible
Cold Mix Storage	Negligible	Negligible	Negligible	80.8	Negligible	Negligible	Negligible
Storage Piles	0.51	0.18	Negligible	Negligible	Negligible	Negligible	Negligible
Total Emissions	56.23	54.53	98.98	81.3	7.4	27.88	15.87

County Attainment Status

The source is located in Marion County.

Pollutant	Status
PM-10	attainment
SO ₂	maintenance attainment
NO ₂	attainment
1-hour Ozone	maintenance attainment
8-hour Ozone	basic nonattainment
CO	attainment
Lead	unclassifiable

- (a) Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to the ozone standards. Marion County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for nonattainment new source review.
- (b) Marion County has been classified as attainment or unclassifiable in Indiana for PM₁₀, SO₂, NO₂, CO, 1-hour Ozone, and Lead. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.
- (c) Fugitive Emissions
 Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2, or 326 IAC 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Source Status

Existing Source PSD, Part 70, or FESOP Definition (emissions after controls, based on 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/yr)
PM	Less than 100
PM-10	Less than 100
SO ₂	Less than 100
VOC	Less than 100
CO	Less than 100
NO _x	Less than 100
Single HAP	Less than 10
Combination HAPs	Less than 25

- (a) This existing source is not a major stationary source because no attainment regulated pollutant is emitted at a rate of 250 tons per year or greater, no nonattainment regulated pollutant is emitted at a rate of 100 tons per year or greater, and it is not in one of the 28 listed source categories.

Federal Rule Applicability

- (a) This source is subject to the New Source Performance Standard, 326 IAC 12, (40 CFR 60.90, Subpart I) because it meets the definition of a hot mix asphalt facility pursuant to the rule and it was constructed after June 11, 1973. This rule limits particulate matter emissions to 0.04 grains per dry standard cubic foot (gr/dscf) and also limits visible emissions to 20% opacity. This is equivalent to a particulate matter emission rate of 11.98 pounds per hour. The source will comply with this rule by using a baghouse to limit particulate matter emissions to less than 0.04 gr/dscf (see Appendix A, page 4 of 7, for detailed calculations).
- (b) The one (1) 10,000 gallon No. 2 fuel oil storage tank, and one (1) 10,000 gallon emulsion storage tank, (see Insignificant Activities) are not subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60.110b, Subpart Kb) because the tanks each have a storage capacity less than 40 cubic meters.
- (c) The one (1) 33,750 gallon asphalt cement storage tank, and the four (4) tanks, identified as T-1, T-2, T-3, and T-4, are subject to the requirements as specified by 40 CFR 60.116 (a) and (b) of the New Source Performance Standard, 326 IAC 12, (40 CFR 60.110b, Subpart Kb) because they were installed after July 23, 1984, and have storage capacities greater than 75 cubic meters. Since the tanks have storage capacities greater than 75 cubic meters but less than 151 cubic meters, and the liquid asphalt cement stored in the tanks has a maximum true vapor pressure of less than 15.0 kPa, the tanks are subject to only 40 CFR Part 60.116b, paragraph (a) and (b) which requires record keeping.
- (d) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP)(326 IAC 14, 20 and 40 CFR Part 61, 63) applicable to this source.

State Rule Applicability – Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration)

This source was constructed in 1994 and is not in one of the twenty-eight (28) listed source categories. At construction, the potential to emit of PM, PM₁₀, SO₂, and NO_x were greater than the 250 tons per year PSD threshold. The source agreed to limit the emissions of these pollutants to less than the major source thresholds, FESOP 097-10435-00165. The source agreed to comply

with source emission limitations after the installation of a new drum mixer and aggregate dryer in 2003, permit revision 097-17121-00165.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants)

This source is not subject to 326 IAC 2-4.1, because it has not constructed a major source of hazardous air pollutants, as defined in 40 CFR 63 after July 27, 1997.

326 IAC 2-6 (Emission Reporting)

This source is not subject to 326 IAC 2-6 (Emission Reporting), because it is located in Marion County, it is not required to have an operating permit under 326 IAC 2-7, Part 70 Permit Program, and it does not emit lead into the ambient air at levels equal to or greater than five (5) tons per year.

326 IAC 2-8-4 (FESOP)

The following operational limitations are necessary in order to limit emissions of criteria pollutants below 100 tons per year to comply with 326 IAC 2-8-4 (FESOP) and to make 326 IAC 2-7 (Part 70) not applicable.

- (a) The 125 MMBtu per hour burner for the aggregate dryer shall be limited as follows:
 - (1) The input of natural gas and natural gas equivalents to the aggregate dryer burner shall not exceed 1,028.95 MM cubic feet (MMCF) per twelve (12) consecutive month period with compliance determined at the end of each month. This limit, when combined with the NO_x emissions from other operations, shall limit the source-wide potential to emit NO_x to less than 100 tons per year. For purposes of determining compliance, 1,000 gallons of No. 2 fuel oil or No. 4 fuel oil burned is equivalent to 0.20 MMCF of natural gas burned; and 1,000 gallons of waste fuel oil burned is equivalent to 0.19 MMCF of natural gas burned.
 - (2) The input of No. 2 fuel oil equivalents to the aggregate dryer shall be limited to 2,663,662 gallons per twelve (12) consecutive month period with compliance determined at the end of each month. The sulfur content of the fuel oil burned shall be limited to 0.50%. This limit, when combined with the SO₂ emissions from other operations, shall limit the source-wide potential to emit SO₂ to less than 100 tons per year. For purposes of determining compliance: 1 MMCF of natural gas burned is equivalent to 8.5 gallons of No. 2 fuel oil burned; every gallon of No. 4 fuel oil (with sulfur content of 0.50%) burned is equivalent to 1.06 gallons of No. 2 fuel oil burned; and every gallon of waste oil (with sulfur content of 1.51%) burned is equivalent to 3.13 gallons of No.2 fuel oil burned.
- (b) The PM10 emissions from the aggregate dryer shall be limited to 22.2 pounds per hour. The source will comply with this limit using a baghouse, which has an outlet grain loading of 0.0075 grains /dscf and a maximum flow rate of 65,000 acfm. At a gas outlet temperature of 230 °F and a water content of approximately 30%, the particulate emissions from the dryer are equal to 2.24 pounds per hour, or 9.8 tons per year. See Appendix A page four of seven for detailed calculations.
- (c) The throughput of cold-mix asphalt shall be limited to 4,811 tons per twelve (12) consecutive month period with compliance determined at the end of each month. With a maximum oil distillate content of 35% in the cutback asphalt, and based on a maximum 7% of cutback asphalt or emulsion in the total cold-mix asphalt produced this is equivalent to 336.77 tons of diluent usage per year. This

condition limits the VOC emissions to 80.82 tons per year from the aggregate dryer. This limit combined with the VOC emissions from the insignificant activities limits the source-wide potential to emit VOC to less than 100 tons per year. See Appendix A page six of seven for detailed calculations.

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in the permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

326 IAC 6-4 (Fugitive Dust Emissions)

This source is subject to 326 IAC 6-4 for fugitive dust emissions. Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions), fugitive dust shall not be visible crossing the boundary or property line of a source.

326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted on October 29, 1997. The plan consists of:

- (a) the dust from the roads be swept or treated with water or dust suppressant on an as needed basis; and
- (b) the dust from the handling and storage of all materials be treated with water or dust suppressant on an as needed basis.

State Rule Applicability – Individual Facilities

326 IAC 6-1-2 (Particulate Emissions Limitations)

The particulate matter emissions from the aggregate mixing and drying operation are subject to the requirements of 325 IAC 6-1-2 (Particulate Emissions Limitations) because this source is located in Marion County and has actual particulate emissions greater than ten (10) tons per year. Pursuant to 326 IAC 6-1-2(a), the particulate emissions from the asphalt plant shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf). The source complies with this limit through the use of a baghouse that has an outlet grain loading of 0.0075 gr/dscf.

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

- (a) The dryer burner is subject to the requirements of 326 IAC 7-1.1 because the potential emissions of sulfur dioxide are greater than 25 tons per year. Pursuant to 326 IAC 7-1.1 (SO₂ Emissions Limitations), the SO₂ emissions from the dryer burner shall not exceed 0.5 pounds per million Btu when burning distillate oil and 1.6 pounds per million Btu heat input when burning residual oil. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average. The source is required to submit records of the sulfur content, heat content, fuel consumption, and sulfur dioxide emission rates, when requested by IDEM, OAQ, and OES.
- (b) The one (1) insignificant hot oil heater is not subject to 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitation), because it has a potential to emit less than 25 tons per year and 10 pounds per hour sulfur dioxides. Therefore, this rule does not apply to this unit.

326 IAC 8-5-2 (Miscellaneous Operations: Asphalt Paving)

Pursuant to 326 IAC 8-5-2, no person shall cause or allow the use of cutback asphalt or asphalt emulsion containing more than seven percent (7%) oil distillate by volume of emulsion of any paving application except:

- (a) Penetrating prime coating;
- (b) Stockpile storage; and
- (c) Application during the months of November, December, January, February, and March.

Compliance Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs, IDEM, OAQ, and OES, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring requirements applicable to this source are as follows:

1. The asphalt plant has applicable compliance monitoring conditions as specified below:
 - (a) Visible emissions notations of the dryer stack exhaust shall be performed once per shift during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting start up or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Compliance Response Plan for this unit shall contain troubleshooting contingency and corrective actions for when an abnormal emissions is observed.
 - (b) The Permittee shall record the total static pressure drop across the baghouse controlling the dryer, at least once per shift when the dryer is in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within a range of 2.0 to 6.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range of any one reading.

- (c) An inspection shall be performed within the last month of each calendar quarter of all bags controlling the aggregate mixer and dryer. All defected bags shall be replaced.
- (d) In the event that bag failure has been observed the following provisions shall be followed. For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is determined by other means, indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency.

These monitoring conditions are necessary because the baghouse used to control particulate emissions from the aggregate mixer and dryer must operate properly to ensure compliance with 326 IAC 6-1 (Particulate Emissions Limitations), 326 IAC 2-8 (FESOP Limitations), and 40 CFR 60, Subpart I (326 IAC 12).

Conclusion

The operation of this asphalt plant shall be subject to the conditions of the FESOP 097-19229-00165.

**Indiana Department of Environmental Management
Office of Air Quality
and
Indianapolis Office of Environmental Services**

Addendum to the Technical Support Document (TSD) for a Federally Enforceable State
Operating Permit (FESOP) Renewal

Source Background and Description

Source Name:	Mar-Zane, Inc.
Source Location:	2605 Kentucky Avenue, Indianapolis, Indiana 46241
County:	Marion
SIC Code:	2951
Operation Permit No.:	097-10435-00165
Operation Permit Issuance Date:	May 12, 2000
Permit Renewal No.:	097-19229-00165
Permit Reviewer:	Angelique Oligier

On June 14, 2004, the Office of Air Quality (OAQ) and the Office of Environmental Services (OES) had a notice published in the Indianapolis Star, Indianapolis, Indiana, stating that Mar-Zane, Inc. had applied for a FESOP renewal for the operation of a hot drum mix asphalt plant. The notice also stated that OAQ and OES proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

Written comments were received from the Applicant on August 9, 2004. Upon further review, the OAQ and OES have decided to make the following revisions to the draft FESOP. The TSD will remain as it originally appeared when published. Changes to the permit or technical support material that occur after the permit has been published are documented in this Addendum to the Technical Support Document. This accomplishes the desired result of ensuring that these types of concerns are documented and part of the record regarding this permit decision. Bolded language has been added, and the language with a line through it has been deleted. These comments and OES responses, including changes to the permit, are as follows:

Comment 1:

On May 6, 2004 a stack test was performed on the subject asphalt plant. At an average of 285 tons per hour, the production rate of the plant did not meet the minimum throughput rate required for a plant with a rating of 400 tons per hour. Mar-Zane, Inc. is opting to accept a lower production rate in order to meet the emission limit. 285 tons per hour is approximately 95% of 300 tons per hour. At this time, Mar-Zane, Inc. wishes to accept this lower rate of 300 tons per hour.

Response to Comment 1:

Sections A.2 (a) and D.1 (Facility Description) have been revised as follows:

One (1) stationary hot asphalt drum mixer and aggregate dryer, constructed in 2003, identified as 001, with a maximum capacity of 400 tons per hour **and an effective maximum capacity of 300 tons per hour based on the most recent stack test**, equipped with one (1) natural gas-fired burner with a rated heat input of 125 million Btu per hour (MMBtu/hr), using No. 2 fuel oil, No. 4 fuel oil, and waste oil as a backup fuel, controlled by one (1) using baghouse, identified as CE001A as particulate control, and exhausting to stack 001.

Condition D.1.9 has also been revised as follows:

D.1.9 Particulate Matter (PM)

In order to comply with Conditions D.1.1 and D.1.2, the baghouse for PM control shall be in operation at all times when the aggregate dryer is in operation and exhausting to the outside atmosphere, **and the throughput of the hot asphalt drum mixer and aggregate dryer shall not exceed 300 tons per hour. The Permittee shall record the twenty-four consecutive hour total throughput once per twenty-four hour period and the hours of operation for that twenty-four hour period.**

Condition D.1.14 has also been revised as follows:

D.1.14 Record Keeping Requirements

- (e) To document compliance with Condition D.1.9, the Permittee shall maintain records of the average throughput once per twenty-four hour period and the hours of operation for each twenty-four hour period for the hot asphalt drum mixer and aggregate dryer.**
- ~~(e)~~**(f)** To document compliance with Condition D.1.12, the Permittee shall maintain records of the results of the inspections required under Condition D.1.12 and the dates the vents are redirected.
- ~~(f)~~**(g)** To document compliance with Condition D.1.6, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.
- ~~(g)~~**(h)** All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

Comment 2:

In accordance with the credible evidence rule (62 Fed. Reg. 8314, Feb 24, 1997); Section 113(a) of the Clean Air Act, 42 U.S. C. § 7413 (a); and a letter from the United States Environmental Protection Agency (USEPA) to IDEM, OAQ dated May, 18 2004, all permits must address the use of credible evidence; otherwise, USEPA will object to the permits. The following language will be incorporated into the permit to address credible evidence:

B.23 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314]

Notwithstanding the conditions of this permit that state specific methods that may be used to demonstrate compliance with, or a violation of, applicable requirements, any person (including the Permittee) may also use other credible evidence to demonstrate compliance with, or a violation of, any term or condition of this permit.

Appendix A: Emission Calculations

Company Name: Mar-Zane Inc.
 Plant Location: 2605 Kentucky Ave., Indianapolis, IN 46241
 Permit Number: 097-19229-00165
 Date: June 14, 2004
 Permit Reviewer: Angelique Oligier

**** hot oil heater****

The following calculations determine the amount of emissions created by natural gas combustion, from hot oil heating, based on 8,760 hours of operation and US EPA's AP-42, 5th Edition, Section 1.4 - Natural Gas Combustion, Tables 1.4-1, 1.4-2, and 1.4-3(HAPs).

Criteria Pollutant: $\frac{2.00 \text{ MMBtu/hr} \times 8,760 \text{ hr/yr}}{1000 \text{ Btu/cf}} \times \text{Ef (lb/MMcf)} = (\text{ton/yr})$

P M:	7.60 lb/MMcf =	0.07 ton/yr
P M-10:	7.60 lb/MMcf =	0.07 ton/yr
S O 2:	0.6 lb/MMcf =	0.01 ton/yr
N O x:	100.0 lb/MMcf =	0.88 ton/yr
V O C:	5.5 lb/MMcf =	0.05 ton/yr
C O:	84.0 lb/MMcf =	0.74 ton/yr

The following calculations determine the amount of emissions created by the combustion of #2 distillate fuel oil @ 0.50 % sulfur, from hot oil heating, based on 8,760 hours of use and US EPA's AP-42, 5th Edition, Section 1.3 - Fuel Oil Combustion, Tables 1.3-1, 1.3-3, and 1.3-7.

Criteria Pollutant: $\frac{2.00 \text{ MMBtu/hr} \times 8,760 \text{ hr/yr}}{140,000 \text{ Btu/gal}} \times \text{Ef (lb/1,000 gal)} = (\text{ton/yr})$

P M:	2.0 lb/1000 gal =	0.13 ton/yr
P M-10:	1.1 lb/1000 gal =	0.07 ton/yr
S O 2:	71.0 lb/1000 gal =	4.44 ton/yr
N O x:	20.0 lb/1000 gal =	1.25 ton/yr
V O C:	0.34 lb/1000 gal =	0.02 ton/yr
C O:	5.0 lb/1000 gal =	0.31 ton/yr

Since the two fuels cannot be operated concurrently, the maximum potential emissions from the hot oil heater due to fuel combustion is as follows:

Criteria Pollutant:		Worst Case Fuel
P M:	0.13 ton/yr	No. 2 Fuel Oil
P M-10:	0.07 ton/yr	Natural Gas
S O 2:	4.44 ton/yr	No. 2 Fuel Oil
N O x:	1.25 ton/yr	No. 2 Fuel Oil
V O C:	0.05 ton/yr	Natural Gas
C O:	0.74 ton/yr	Natural Gas

**Appendix A: Emissions Calculations
Drum mixer/Aggregate Dryer**

Company Name: Mar-Zane Inc.
Plant Location: 2605 Kentucky Ave., Indianapolis, IN 46241
Permit Number: 097-19229-00165
Date: June 14, 2004
Permit Reviewer: Angelique Oliger

Natural Gas

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr			
125.0	1095.0			
Emission Factor in lb/MMCF	SO2 0.6	NOx 100.0 **see below	VOC 5.5	CO 84.0
Potential Emission in tons/yr	0.3	54.8	3.0	46.0

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32
 The emissions of PM and PM10 from the Rotary Dryer are estimated using the AP-42 Chapter 11.1 emission factors for asphalt plants, and are shown on page 3. The emissions of SO₂, NOx, VOC and CO are estimated using the boiler emission factors from AP-42 Chapter 1.4, as shown above. These boiler emission factors are being used for these pollutants based on IDEM guidance.

Methodology

All emission factors are based on normal firing.
 MMBtu = 1,000,000 Btu
 MMCF = 1,000,000 Cubic Feet of Gas
 Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
 Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Fuel Oil #2

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	S = Weight % Sulfur 0.5			
125.0	7821.4				
Emission Factor in lb/kgal		SO2 71.0 (142.0 S)	NO _x 20.0	VOC 0.34	CO 5.0
Potential Emission in tons/yr		277.7	78.2	1.3	19.6

Methodology

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu
 Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 kgal/1,000 gal x 1 gal/0.140 MMBtu
 Emission Factors are from AP 42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-03-005-01/02/03) Supplement E 9/98 (see errata file)
 Emission (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal)/2,000 lb/ton

Fuel Oil #4

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	S = Weight % Sulfur 0.5			
125.00	7500				
Emission Factor in lb/kgal		SO2 75 (150S)	NOx 20.0	VOC 0.20	CO 5.0
Potential Emission in tons/yr		281.3	75.0	0.8	18.8

Methodology

1 gallon of #4 Fuel oil has a heating value of 146,000 Btu
 Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 kgal per 1000 gallon x 1 gal per 0.146 MMBtu
 Emission Factors are from AP 42 Tables 1.3-1, 1.3-2 and 1.3-3 (SCC 1-03-004-02/03, 1-02-004-02/03, and 1-03-004-04) (AP-42 Supplement E 9/98)
 Emission (tons/yr) = Throughput (kgals/year) x Emission Factor (lb/kgal)/2,000 lb/ton

**Appendix A: Emission Calculations
Drum mixer/Aggregate Dryer (cont'd)**

Company Name: Mar-Zane Inc.
Plant Location: 2605 Kentucky Ave., Indianapolis, IN 46241
Permit Number: 097-19229-00165
Date: June 14, 2004
Permit Reviewer: Angelique Oliger

Waste Oil

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	L = Weight % Lead = 0.01 S = Weight % Sulfur = 1.51			
125.0	7877.7				
		Pollutant			
Emission Factor in lb/kgal		SO ₂ 221.97 (147 S)	NO _x 19.0	TOC 1.0	Pb 0.6 (55L)
Potential Emission in tons/yr		874.3	74.8	19.7	2.2

The emissions of PM and PM10 from the Rotary Dryer are estimated using the AP-42 Chapter 11.1 emission factors for asphalt plants.

Methodology

Emission Factor Units are lb/1000 gal
L = weight% lead in fuel, S = weight % sulfur in fuel
Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.139 MM Btu
Emission Factors from AP-42, Chapter 1.11, SCC 1-03-013-02 (Supplement B 10/96)
Emission (tons/yr) = Throughput kgals per year x Emission Factor (lb/kgal)/2,000 lb/ton
Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

PM and HAPs

Maximum Capacity
400 tons/hr

Pollutant	Emission Factor (lb/ton)*	Uncontrolled Emissions (tons/yr)
PM	28	49056
PM-10	6.5	11388
Acetaldehyde	0.0013	2.2776
Benzene	0.0004	0.7008
ethylbenzene	0.00024	0.42048
formaldehyde	0.0031	5.4312
hexane	0.00092	1.61184
toluene	0.0029	5.0808
xylene	0.0002	0.3504
total HAPs		15.87

Methodology: (Maximum capacity)*(8760 hr/yr)*(emission factor)*(1 ton/2000 lbs)
Emission factor are from AP-42 Chapter 11.1, Table 11.1-3 and Table 11.1-10.

* Greatest Emission Factor out of Waste-oil fired, Natural gas fired, and fuel-oil fired.

**Appendix A: Emission Calculations
Drum mixer/Aggregate Dryer (cont'd)**

Company Name: Mar-Zane Inc.
 Plant Location: 2605 Kentucky Ave., Indianapolis, IN 46241
 Permit Number: 097-19229-00165
 Date: June 14, 2004
 Permit Reviewer: Angelique Oligier

**** Aggregate dryer fuel usage limitations* ****

In order to qualify for the FESOP program, this facility must limit SO2 emissions to 99 tons per year.
 The SO2 emissions from the aggregate dryer must be limited to (99.0 - 4.5 tons/yr from hot oil heater) = 94.5 tons per year.
 Fuel Oil #2 Throughput may not exceed 2,663 kgals per year. One gallon of Fuel Oil #4 is equivalent to 1.06 gallons of Fuel Oil #2 burned, and one gallon of waste oil is equivalent to 3.13 gallons of Fuel Oil #2.

Fuel Oil #2

Heat Input Capacity MMBtu/hr	Limited Throughput kgals/year	S = Weight % Sulfur 0.5
125.0	2663.0	

Emission Factor in lb/kgal	Pollutant				
	SO2	NO _x	VOC	CO	
	71.0 (142.0 S)	20.0	0.34	5.0	
Limited Emission in tons/yr	94.5	26.6	0.5	6.7	

Methodology

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu
 Emission Factors are from AP-42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-03-005-01/02/03) Supplement E 9/98 (see errata file)
 Emission (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal)/2,000 lb/ton

Particulate Emissions Limit / Baghouse Control

- 0.0075 grains/dsft³
- 65000 acf³/min
- 230 °F
- 49928 dsft³/min*
- 30% water content
- 7000 grains/lb

9.84 tons/yr PM**

*ds flow rate = 65000 acft³ * (460+70) / (460 + 230)

**particulate emissions = 0.0075 gr/ft³ / 7000 grains/lb * 49928 dsft³/min * 60 min/hr * 8760 hr/yr * (1-30% water) / 2000 lb/ton

40 CFR 60, Subpart I limits particulate emissions to 0.04 grains/dsft³. This is equivalent to 52.48 tons/yr or 11.98 lbs/hr.
 The source is in compliance through the use of a baghouse.

In order to qualify for the FESOP program total source PM-10 emissions < 99 tpy. PM-10 from other sources = 2 tpy.
 Therefore the ADB is limited to 97 tpy, which is equivalent to 22.2 pounds per hour.

Appendix A: Emissions Calculations
Particulate Emissions

Company Name: Mar-Zane Inc.
Plant Location: 2605 Kentucky Ave., Indianapolis, IN 46241
Permit Number: 097-19229-00165
Date: June 14, 2004
Permit Reviewer: Angelique Olinger

**** conveying / handling ****

Source provided information obtained from AIRS document

PM-10 Emissions Per Operation:

$$\frac{283 \text{ ton/hr} * 8,760 \text{ hrs/yr} * \text{Ef (lb/ton of material)} * \text{Number of Similar Operations} = (\text{ton/yr})}{2,000 \text{ lb/ton}}$$

Operation					% control	emissions after control (tons/yr)
Truck Loading:	1 operation	1.0E-04 lb/ton of material =	0.12 ton/yr		50%	0.061977
Conveyor Transfers:	9 operation	4.8E-05 lb/ton of material =	0.54 ton/yr		50%	0.2677406
Screening:	1 operation	8.4E-04 lb/ton of material =	1.04 ton/yr		95.71%	0.0446681
Batch Drops:	7 operation	1.0E-04 lb/ton of material =	0.87 ton/yr		95.71%	0.0372234
Total PM 10 Emissions:			2.57 ton/yr			
Total PM Emissions:			5.39 ton/yr			
						0.4116091 ton/yr
						0.8643791 ton/yr

Total PM Emissions (tons/yr) = 2.1 * Total PM-10 Emissions (tons/yr) based on US EPA's AP-42, 5th Edition, Section 11.19.2, Table 11.19.2-2, footnote c.

**** unpaved roads ****

The following calculations determine the amount of emissions created by vehicle traffic on unpaved roads, based on 8,760 hours of use and US EPA's AP-42, 5th Edition, Section 13.2.2.2.

Vehicle Traffic

$$15 \text{ trip/hr} * 0.01 \text{ mile/trip} * 2 \text{ (round trip) } * 8,760 \text{ hr/yr} = 2628 \text{ miles per year}$$

$$\text{Ef} = k * 5.9 * (s/12) * (S/30) * (W/3)^{0.7} * (w/4)^{0.5} * ((365-p)/365)$$

$$= 4.10 \text{ lb/mile}$$

where k = 0.8 (particle size multiplier)
s = 4.8 % silt content of unpaved roads
p = 125 days of rain greater than or equal to 0.01 inches
S = 10 miles/hr vehicle speed
W = 32.50 tons average vehicle weight
w = 14 wheels

			control efficiency	after control
$\frac{4.10 \text{ lb/mi} * 2628 \text{ mi/yr}}{2000 \text{ lb/ton}}$		5.39 tons/yr	0.50	2.69607506
P M-10: 35% of PM =		1.89 tons/yr	0.50	0.94362627

**** storage ****

The following calculations determine the amount of emissions created by wind erosion of storage stockpiles, based on 8,760 hours of use and USEPA's AP-42 (Pre 1983 Edition), Section 11.2.3.

Sample Calculation: $\text{Ef} = 1.7 * (s/1.5) * (365-p) / 235 * (f/15)$

$$\text{Ef} = 5.55 \text{ lb/acre/day}$$

where s = 4.8 % silt
p = 125 days of rain greater than or equal to 0.01 inches
f = 15 % of wind greater than or equal to 12 mph

$$\text{Ep (storage)} = \frac{\text{Ef} * (\text{Pile Size in acres}) * (365 \text{ day/yr})}{(2,000 \text{ lb/ton})}$$

PM = 1.01 tons/yr	P M-10: 35% of PM = 0.35 tons/yr
after 50% control = 0.506438 tons/yr	after 50% control = 0.177253 tons/yr

Appendix A: Emissions Calculations

****cold mix VOC storage emissions****

Company Name: Mar-Zane Inc.
 Plant Location: 2605 Kentucky Ave., Indianapolis, IN 46241
 Permit Number: 097-19229-00165
 Date: June 14, 2004
 Permit Reviewer: Angelique Oliger

****cold mix VOC storage emissions****

The following calculations determine the amount of VOC emissions created by the application of stockpile mix with 35.0% oil distillate in cutback asphalt, based on 8,760 hours of use and USEPA's AP-42, 5th Edition, Section 4.5, Table 4-5-1.

VOC Emission Factor =	24.00%	weight percent flash-off of cold mix
Potential Throughput (tons/yr) =	2,479,000	tons/yr stockpile mix
Limited Throughput (tons/yr) =	4,811	tons/yr stockpile mix
Limited Dilent Usage (tons/yr) =	337	tons/y diluent usage

Potential VOC Emissions (tons/yr) =	Potential Throughput (tons/yr) * wt percent cutback asphalt * wt percent flash-off
Potential VOC Emissions =	41,647.20 tons/yr
Limited VOC Emissions =	80.82 tons/yr

Potential stockpile mix throughput is based on a stockpile mix consisting of 7% cutback asphalt and 93% aggregate.
 Potential Throughput (tons/yr) = Potential aggregate throughput / 93% aggregate in stockpile mix

Appendix A: Emissions Calculations
Summary of Emissions

Company Name: Mar-Zane Inc.
Plant Location: 2605 Kentucky Ave., Indianapolis, IN 46241
Permit Number: 097-19229-00165
Date: June 14, 2004
Permit Reviewer: Angelique Oligier

Potential Emissions (tons/yr)

Pollutant	Hot Oil Heater	Aggregate Dryer Burner	Conveying/ Handling	Unpaved Roads	Storage	Total
PM	0.13	49056	5.39	5.39	1.01	49067.92
PM-10	0.07	11388	2.57	1.89	0.35	11392.88
SO2	4.44	874.31				878.7489
Nox	1.25	78.21				79.47
VOC	0.05	3.94			41,647.20	41651.19
CO	0.74	45.99				46.73
Acetaldehyde		2.28				2.28
Benzene		0.70				0.70
ethylbenzene		0.42				0.42
formaldehyde		5.43				5.43
hexane		1.61				1.61
toluene		5.08				5.08
xylene		0.35				0.35
total HAPs		15.87				15.87

Limited/ Controlled Potential Emissions (tons/yr)

Pollutant	Hot Oil Heater	Aggregate Dryer Burner	Conveying/ Handling	Unpaved Roads	Storage	Total
PM	0.13	52.48	0.41	2.70	0.51	56.22
PM-10	0.07	52.48	0.86	0.94	0.18	54.53
SO2	4.44	94.54				98.98
Nox	1.25	26.63				27.88
VOC	0.05	0.45			80.82	81.33
CO	0.74	6.66				7.39
Acetaldehyde		2.28				2.28
Benzene		0.70				0.70
ethylbenzene		0.42				0.42
formaldehyde		5.43				5.43
hexane		1.61				1.61
toluene		5.08				5.08
xylene		0.35				0.35
total HAPs		15.87				15.87