



CERTIFIED MAIL 7000 0600 0023 5186 2583

TO: Interested Parties / Applicant
RE: Hanson Aggregates Midwest, Inc. - Harding Street Quarry / F097-19718-00104
FROM: Felicia A. Robinson
Administrator

Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within fifteen (15) calendar days of the receipt of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Indianapolis Office of Environmental Services, Air Permits at (317) 327-2234.

Enclosures



Air Quality Hotline: 317-327-4AIR | knozone.com

Department of Public Works
Office of Environmental Services

2700 Belmont Avenue
Indianapolis, IN 46221

317-327-2234
Fax 327-2274
TDD 327-5186
indygov.org/dpw



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

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

**Hanson Aggregates Midwest, Inc. – Harding Street Quarry
4200 South Harding Street
Indianapolis, Indiana 46217**

(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.

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.

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. This permit also addresses new source review requirements and is intended to fulfill the new source review procedures and permit revision requirements pursuant to 326 IAC 2-8-11.1, applicable to those conditions.

Operation Permit No.: F097-19718-00104	
Issued by: ORIGINAL SIGNED BY: Felicia A. Robinson Administrator Indianapolis Office of Environmental Services	Issuance Date: May 11, 2007 Expiration Date: May 11, 2012



Air Quality Hotline: 317-327-4AIR | knozone.com

**Department of Public Works
Office of Environmental Services**

2700 Belmont Avenue
Indianapolis, IN 46221

317-327-2234
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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 mining and quarrying operation and a stationary sand and gravel operation.

Source Address:	4200 South Harding Street, Indianapolis, Indiana 46217
Mailing Address:	209 Old Harrods Creek Road, P.O. Box 436329, Louisville, Kentucky 40253-6329
General Source Phone:	(317) 788-4086
SIC Code:	1422 and 1442
County Location:	Marion County
Source Location Status:	Nonattainment for ozone under the 8-hour standard, Nonattainment for PM _{2.5} Attainment for all other criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD and Emission Offset 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) Limestone Crushing Plant # 522, identified as Plant # 522, with a maximum primary crushing capacity of 1500 tons per hour, using a NESCO Systems water suppression system as control. Plant # 522 consists of:
 - (1) Two (2) receiving hoppers (R1 and R1A). R1 was installed in 1974 and R1A was installed in 2003. Each receiving hopper capacity is 1500 tons.
 - (2) Two (2) primary crushers, a 5348 Cedar Rapids impact crusher (CR1A) installed in 1974, and a 4248 jaw crusher (CR1) installed in 2003.
 - (3) Four (4) secondary crushers, a Boehringer impact crusher (CR2) installed in 1993, a 5 ½ standard cone crusher (CR3) installed prior to 1983, a VSI crusher (CR4) installed in 1997, and a 4 1/4 short head cone crusher (CR6) installed prior to 1983, with a combined maximum crushing capacity of 1500 tons per hour.
 - (4) One (1) tertiary crusher (CR5), a 5 ½ short head cone crusher with a maximum capacity of 275 tons per hour installed in 1991.
 - (5) Twelve (12) screens (S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, BS1 and BS2), with a combined maximum screening capacity of 1500 tons per hour. S7, S8, S9 and BS1 were installed in 1974. S1, S2, S3, S4, S10, and BS2 were installed in 1993. S5 and S6 were installed in 1997.

- (6) Forty-eight (48) conveyors (C0, C1, C1A, C2, C2A, C3, C3A, C4 through C28 and BC1 through BC16), with a combined maximum conveying capacity of 1500 tons per hour. C1, C2, C3, C4 through C21, C23 through C26, C28, BC1, BC2, BC5, BC14 and BC15 were installed prior to 1983. C22 was installed in 1993. C27, BC3, BC4, BC6 through BC13 and BC16 were installed in 1997. C0, C1A, C2A and C3A were installed in 2003.
- (b) One (1) dredging and screening of sand and gravel operation, identified as Plant # 510, with a maximum capacity of 450 tons per hour, using a NESCO Systems water suppression system for washing and screening and as additional control. Plant # 510 was installed in 1991 and consists of one (1) receiving hopper, (SR1), three (3) screens (SS1, SSC1 and SSC2) and seven (7) conveyors (SC1 through SC7).
- (c) Drilling and blasting of nonmetallic minerals in a mining and quarrying operation. Installed prior to 1974.

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

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

- (a) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons.
- (b) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.
- (c) Application of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings.
- (d) Paved and unpaved roads and parking lots with public access. [326 IAC 6-5]
- (e) On-site fire and emergency response training approved by the department.
- (f) Emergency Generators as follows:
 - (1) Gasoline generators not exceeding 110 horsepower. [326 IAC 6.5-1-2(a)]

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 for a Federally Enforceable State Operating Permit (FESOP).

SECTION B GENERAL CONDITIONS

B.1 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.2 Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

- (a) This permit, F097-19718-00104, 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 of this permit.
- (b) If IDEM, OAQ and OES, upon receiving a timely and complete renewal 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.

B.3 Term of Conditions [326 IAC 2-1.1-9.5]

Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

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 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.6 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.7 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.8 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.9 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. One (1) certification may cover multiple forms in one (1) submittal.
- (c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

B.10 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. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than April 15 of each year to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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.11 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 prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, 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.

If due to circumstances beyond the Permittee’s control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

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

The PMP extension notification does not require the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1).

- (b) 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 PMPs do not require the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1).
- (c) 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.12 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.: 317-233-0178 (ask for IDEM, OAQ, Compliance Section)
Facsimile No.: 317-233-6865

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
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, 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.13 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to F097-19718-00104 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised
 - (3) deleted
- (b) All previous registrations and permits are superseded by this permit.

B.14 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.15 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
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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 not 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.16 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.17 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
MC 61-53 IGCN 1003
Indianapolis, IN 46204-2251

and

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

- (b) A timely renewal application is one that is:
- (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (2) 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) 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.18 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
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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)]

B.19 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 limitations provided in 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
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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, on a rolling five (5) year basis, which document all such changes and emissions trades that are subject to 326 IAC 2-8-15(b) through (d). The Permittee shall make 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 emissions increases and decreases at 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.
- (d) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.20 Source Modification 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.21 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.22 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
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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.23 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 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.24 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314][326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 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 make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-3 (Emission Offset) not applicable.
 - (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) The potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period. This limitation shall make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.
- (c) 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 that the source's potential to emit does not exceed the above specified limits.
- (d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.2 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.3 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.4 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.5 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.6 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 July 15, 2004. The plan is included as Attachment A.

C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

The Permittee shall comply with the applicable requirements of 326 IAC 14-10, 326 IAC 18, and 40 CFR 61.140.

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

C.8 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
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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.9 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.10 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 within ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

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

in writing, prior to the end of the initial ninety (90) day compliance schedule with full justification of the reasons for inability to meet this date.

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

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.11 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.12 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)] [326 IAC 2-8-5(1)]

- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.
- (b) The Permittee may request that the IDEM, OAQ, and OES approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

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

C.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on December 8, 1988.
- (b) Upon direct notification by IDEM, OAQ, and OES, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.14 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.15 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit(s) (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:

- (1) monitoring results;
 - (2) review of operation and maintenance procedures and records;
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
- (1) monitoring data;
 - (2) monitor performance data, if applicable; and
 - (3) corrective actions taken.

C.16 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 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.17 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.18 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

- (a) The source 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 IAC2-1.1-1(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 Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. 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.
- (f) 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.19 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)]:

- (a) One (1) Limestone Crushing Plant, identified as Plant # 522, with a maximum primary crushing capacity of 1500 tons per hour, using a NESCO Systems water suppression system as control. Plant # 522 was installed in 1974 and consists of:
- (1) Two (2) receiving hoppers (R1 and R1A). R1 was installed in 1974 and R1A was installed in 2003. Each receiving hopper capacity is 1500 tons.
 - (2) Two (2) primary crushers, a 5348 Cedar Rapids impact crusher (CR1A) installed in 1974 and a 4248 jaw crusher (CR1) installed in 2003.
 - (3) Four (4) secondary crushers, a Boehringer impact crusher (CR2) installed in 1993, a 5 ½ standard cone crusher (CR3) installed prior to 1983, a VSI crusher (CR4) installed in 1997, and a 4 ¼ short head cone crusher (CR6) installed prior to 1983, with a combined maximum crushing capacity of 1500 tons per hour.
 - (4) One (1) tertiary crusher (CR5), a 5 ½ short head cone crusher with a maximum capacity of 275 tons per hour installed in 1991.
 - (5) Twelve (12) screens (S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, BS1 and BS2), with a combined maximum screening capacity of 1500 tons per hour. S7, S8, S9 and BS1 were installed in 1974. S1, S2, S3, S4, S10, and BS2 were installed in 1993. S5 and S6 were installed in 1997.
 - (6) Forty-eight (48) conveyors (C0, C1, C1A, C2, C2A, C3, C3A, C4 through C28 and BC1 through BC16), with a combined maximum screening capacity of 1500 tons per hour. C1, C2, C3, C4 through C21, C23 through C26, C28, BC1, BC2, BC5, BC14 and BC15 were installed prior to 1983. C22 was installed in 1993. C27, BC3, BC4, BC6 through BC13 and BC16 were installed in 1997. C0, C1A, C2A and C3A were installed in 2003.
- (b) One (1) dredging and screening of sand and gravel operation, identified as Plant # 510, with a maximum capacity of 450 tons per hour, using a NESCO Systems water suppression system for washing and screening and as additional control. Plant # 510 was installed in 1991 and consists of one (1) receiving hopper (SR1), three (3) screens (SS1, SSC1 and SSC2) and seven (7) conveyors (SC1 through SC7).
- (c) Drilling and blasting of nonmetallic minerals in a mining and quarrying operation. Installed prior to 1974.

(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 Emission Limitations; Mineral Aggregate Operations [326 IAC 6.5-1-2(g)]

Pursuant to 326 IAC 6.5-1-2(g) (Particulate Emission Limitations; Mineral Aggregate Operations), 326 IAC 2 (Permit Review Rules), 326 IAC 5-1 (Opacity Limitations) and 326 6-4 (Fugitive Dust Emissions) shall apply to all mineral aggregate operations (mining, blasting, crushing, sizing, storing and transporting of mineral materials) at Hanson Aggregates Midwest, Inc. - Harding Street Quarry.

D.1.2 PSD Minor Limit [326 IAC 2-2]

PM emissions from the following emission units shall not exceed the following:

Plant # 522

Process	Combined Process Rate (tons per hour)	Allowable PM emissions (pounds per hour)
CR1A, CR1	1500	0.81 (each)
CR2, CR3, CR4, CR6	1500	0.81 (each)
CR5	275	0.15
S1, S2, S3, S4,S5, S6, S7, S8, S9, S10, BS1, BS2	1500	3.75 (each)

Compliance with these limits for these emission units, combined with the potential emissions from Plant # 522 conveyors identified as C0, C1, C1A, C2, C2A, C3, C3A, C4 through C28 and BC1 through BC16, the potential emissions from Plant # 510, and the potential emissions from Insignificant Activities shall render 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to this source.

D.1.3 PSD Minor Limit and FESOP Limit [326 IAC 2-2] [326 IAC 2-8-4]

PM10 emissions from the following emission units shall not exceed the following:

Plant # 522

Process	Combined Process Rate (tons per hour)	Allowable PM10 emissions (pounds per hour)
CR1A, CR1	1500	0.36 (each)
CR2, CR3, CR4, CR6	1500	0.36 (each)
CR5	275	1.82
S1, S2, S3, S4,S5, S6, S7, S8, S9, S10, BS1, BS2	1500	1.31 (each)

Compliance with these limits for these emission units, combined with the potential emissions from Plant # 522 conveyors identified as C0, C1, C1A, C2, C2A, C3, C3A, C4 through C28 and BC1 through BC16, the potential emissions from Plant # 510, and the potential emissions from Insignificant Activities shall render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD) Requirements) and 326 IAC 2-7 (Part 70 Permit Program) not applicable to this source.

D.1.4 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from individual processes comprising the one (1) Limestone Crushing Plant, identified as Plant # 522 and the one (1) dredging and screening of sand and gravel operation, identified as Plant # 510, shall each not exceed the values shown in the following tables when operating at the process weight shown:

PLANT # 522

Process	Process Weight (tons per hour)	326 IAC 6-3-2 Allowable Emissions (pounds per hour)
R1	1500	82.9
R1A	1500	82.9
CR1A, CR1	1500	82.9 (each)
CR2, CR3, CR4, CR6	1500	82.9 (each)
CR5	275	62.0
S1, S2, S3, S4,S5, S6, S7, S8, S9, S10, BS1, BS2	1500	82.9 (each)
C0, C1, C1A, C2, C2A, C3, C3A, C4 through C28, BC1 through BC16	1500	82.9 (each)

PLANT # 510

Process	Process Weight (tons per hour)	326 IAC 6-3-2 Allowable Emissions (pounds per hour)
SR1	450	67.7
SS1	450	67.7
SSC1	100	51.3
SSC2	200	58.5
SC1	450	67.7
SC2	50	44.6
SC3, SC4, SC5	100	51.3 (each)
SC6, SC7	200	58.5 (each)

The allowable particulate emission rate was calculated with the following equation:
 Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40$$

where E = rate of emission in pounds per hour and
 P = process weight rate in tons per hour

When the process rate weight rate exceeds two hundred (200) tons per hour, the allowable emissions may exceed that calculated from the above equation provided the concentration of particulate in the discharge gases to the atmosphere is less than one-tenth (0.10) pound per thousand (1,000) pounds of gases.

D.1.5 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 R1, R1A, CR1A, CR1, CR2, CR3, CR4, CR6, CR5, S1, S2, S3, S4,S5, S6, S7, S8, S9, S10, BS1, BS2, C0, C1, C1A, C2, C2A, C3, C3A, C4 through C28, BC1 through BC16 and the NESCO Systems water suppression control device.

Compliance Determination Requirements

D.1.6 Particulate Control

In order to comply with Conditions D.1.1, D.1.2 and D.1.3, the NESCO Systems water suppression systems for particulate control shall be in operation and control emissions from Plant # 522 and Plant # 510 at all times that Plant # 522 and Plant # 510 are in operation.

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

D.1.7 Visible Emissions Notations

- (a) Visible emission notations of R1A, CR1A, CR1, CR2, CR3, CR4, CR5, CR6, S1, S2, S3, S4,S5, S6, S7, S8, S9, S10, BS1, BS2, C0, C1A, C2A, C3A, C22, C27, BC3, BC4, BC6,

BC7, BC8, BC9, BC10, BC11, BC12, BC13 and BC16 shall be performed once per day during normal daylight operations when in operation. 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) If abnormal visible emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C – Response to Excursions or Exceedances. Observation of abnormal emissions that do not violate 326 IAC 6-4 (Fugitive Dust Emissions) or an applicable opacity limit is not a deviation from this permit.

D.1.8 Parametric Monitoring

The Permittee shall record the water flow rate of the NESCO Systems water suppression system in Plant # 522 and in Plant # 510 at least once per day when in operation. When for any one reading, the water flow rate is below 3.0 gallons per minute, or a minimum established during the latest 40 CFR Part 60, Appendix A, Method 9 evaluation, the Permittee shall take reasonable response steps in accordance with Section C – Response to Excursions or Exceedances of this FESOP. A reading that is below 3.0 gallons per minute is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances of this FESOP shall be considered a deviation from this permit.

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

D.1.9 Record Keeping Requirements

- (a) To document compliance with Conditions D.1.1, D.1.2, D.1.3, D.1.5, D.1.6, D.1.7 and D.1.8, the Permittee shall maintain records of once per day visible emission notations and once per day NESCO System water flow rate checks. The Permittee shall include in its daily record when a visible emission notation is not taken, when a water flow rate check is not taken and the reason for the lack of the visible emission notation or water flow rate check (i.e. the process did not operate that day). Records necessary to demonstrate compliance shall be available within thirty (30) days of the end of each compliance period.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]

D.1.10 General Provisions Relating to NSPS [40 CFR Part 60, Subpart A][326 IAC 12-1]

- (a) The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to Plant # 522 as described in this section except when otherwise specified in 40 CFR Part 60, Subpart OOO.

- (b) Pursuant to 40 CFR 60.7, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, IN 46204-2251

and

City of Indianapolis
Office of Environmental Services
Air Quality Management Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

D.1.11 New Source Performance Standards for Nonmetallic Mineral Processing Plants [40 CFR 60.670, Subpart OOO][326 IAC 12]

Pursuant to 40 CFR 60.670, Subpart OOO (New Source Performance Standards for Nonmetallic Mineral Processing Plants), crushing operations in Plant # 522 identified as CR1, CR2, CR4, R1A, screening operations in Plant # 522 identified as S1, S2, S3, S4, S5, S6, S10, BS2, and conveying operations in Plant # 522 identified as C0, C1A, C2A, C3A, C22, C27, BC3, BC4, BC6, BC7, BC8, BC9, BC10, BC11, BC12, BC13 and BC16 shall each comply with the following:

§ 60.670 Applicability and designation of affected facility.

(a)(1) Except as provided in paragraphs (a)(2), (b), (c), and (d) of this section, the provisions of this subpart are applicable to the following affected facilities in fixed or portable nonmetallic mineral processing plants: each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station. Also, crushers and grinding mills at hot mix asphalt facilities that reduce the size of nonmetallic minerals embedded in recycled asphalt pavement and subsequent affected facilities up to, but not including, the first storage silo or bin are subject to the provisions of this subpart.

(2) The provisions of this subpart do not apply to the following operations: All facilities located in underground mines; and stand-alone screening operations at plants without crushers or grinding mills.

(b) An affected facility that is subject to the provisions of subpart F or I or that follows in the plant process any facility subject to the provisions of subparts F or I of this part is not subject to the provisions of this subpart.

(c) Facilities at the following plants are not subject to the provisions of this subpart:

(1) Fixed sand and gravel plants and crushed stone plants with capacities, as defined in §60.671, of 23 megagrams per hour (25 tons per hour) or less;

(2) Portable sand and gravel plants and crushed stone plants with capacities, as defined in §60.671, of 136 megagrams per hour (150 tons per hour) or less; and

(3) Common clay plants and pumice plants with capacities, as defined in §60.671, of 9 megagrams per hour (10 tons per hour) or less.

(d)(1) When an existing facility is replaced by a piece of equipment of equal or smaller size, as defined in §60.671, having the same function as the existing facility, the new facility is exempt from the provisions of §§60.672, 60.674, and 60.675 except as provided for in paragraph (d)(3) of this section.

(2) An owner or operator complying with paragraph (d)(1) of this section shall submit the information required in §60.676(a).

(3) An owner or operator replacing all existing facilities in a production line with new facilities does not qualify for the exemption described in paragraph (d)(1) of this section and must comply with the provisions of §§60.672, 60.674 and 60.675.

(e) An affected facility under paragraph (a) of this section that commences construction, reconstruction, or modification after August 31, 1983 is subject to the requirements of this part.

(f) Table 1 of this subpart specifies the provisions of subpart A of this part 60 that apply and those that do not apply to owners and operators of affected facilities subject to this subpart.

[51 FR 31337, Aug. 1, 1985, as amended at 62 FR 31359, June 9, 1997]

§ 60.671 Definitions.

All terms used in this subpart, but not specifically defined in this section, shall have the meaning given them in the Act and in subpart A of this part.

Bagging operation means the mechanical process by which bags are filled with nonmetallic minerals.

Belt conveyor means a conveying device that transports material from one location to another by means of an endless belt that is carried on a series of idlers and routed around a pulley at each end.

Bucket elevator means a conveying device of nonmetallic minerals consisting of a head and foot assembly which supports and drives an endless single or double strand chain or belt to which buckets are attached.

Building means any frame structure with a roof.

Capacity means the cumulative rated capacity of all initial crushers that are part of the plant.

Capture system means the equipment (including enclosures, hoods, ducts, fans, dampers, etc.) used to capture and transport particulate matter generated by one or more process operations to a control device.

Control device means the air pollution control equipment used to reduce particulate matter emissions released to the atmosphere from one or more process operations at a nonmetallic mineral processing plant.

Conveying system means a device for transporting materials from one piece of equipment or location to another location within a plant. Conveying systems include but are not limited to the following: Feeders, belt conveyors, bucket elevators and pneumatic systems.

Crusher means a machine used to crush any nonmetallic minerals, and includes, but is not limited to, the following types: jaw, gyratory, cone, roll, rod mill, hammermill, and impactor.

Enclosed truck or railcar loading station means that portion of a nonmetallic mineral processing plant where nonmetallic minerals are loaded by an enclosed conveying system into enclosed trucks or railcars.

Fixed plant means any nonmetallic mineral processing plant at which the processing equipment specified in §60.670(a) is attached by a cable, chain, turnbuckle, bolt or other means (except electrical connections) to any anchor, slab, or structure including bedrock.

Fugitive emission means particulate matter that is not collected by a capture system and is released to the atmosphere at the point of generation.

Grinding mill means a machine used for the wet or dry fine crushing of any nonmetallic mineral. Grinding mills include, but are not limited to, the following types: hammer, roller, rod, pebble and ball, and fluid energy. The grinding mill includes the air conveying system, air separator, or air classifier, where such systems are used.

Initial crusher means any crusher into which nonmetallic minerals can be fed without prior crushing in the plant.

Nonmetallic mineral means any of the following minerals or any mixture of which the majority is any of the following minerals:

(a) Crushed and Broken Stone, including Limestone, Dolomite, Granite, Traprock, Sandstone, Quartz, Quartzite, Marl, Marble, Slate, Shale, Oil Shale, and Shell.

(b) Sand and Gravel.

(c) Clay including Kaolin, Fireclay, Bentonite, Fuller's Earth, Ball Clay, and Common Clay.

(d) Rock Salt.

(e) Gypsum.

(f) Sodium Compounds, including Sodium Carbonate, Sodium Chloride, and Sodium Sulfate.

(g) Pumice.

(h) Gilsonite.

(i) Talc and Pyrophyllite.

(j) Boron, including Borax, Kernite, and Colemanite.

(k) Barite.

(l) Fluorospar.

(m) Feldspar.

(n) Diatomite.

(o) Perlite.

(p) Vermiculite.

(q) Mica.

(r) Kyanite, including Andalusite, Sillimanite, Topaz, and Dumortierite.

Nonmetallic mineral processing plant means any combination of equipment that is used to crush or grind any nonmetallic mineral wherever located, including lime plants, power plants, steel mills, asphalt concrete plants, portland cement plants, or any other facility processing nonmetallic minerals except as provided in §60.670 (b) and (c).

Portable plant means any nonmetallic mineral processing plant that is mounted on any chassis or skids and may be moved by the application of a lifting or pulling force. In addition, there shall be no cable, chain, turnbuckle, bolt or other means (except electrical connections) by which any piece of equipment is attached or clamped to any anchor, slab, or structure, including bedrock that must be removed prior to the application of a lifting or pulling force for the purpose of transporting the unit.

Production line means all affected facilities (crushers, grinding mills, screening operations, bucket elevators, belt conveyors, bagging operations, storage bins, and enclosed truck and railcar loading stations) which are directly connected or are connected together by a conveying system.

Screening operation means a device for separating material according to size by passing undersize material through one or more mesh surfaces (screens) in series, and retaining oversize material on the mesh surfaces (screens).

Size means the rated capacity in tons per hour of a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station; the total surface area of the top screen of a screening operation; the width of a conveyor belt; and the rated capacity in tons of a storage bin.

Stack emission means the particulate matter that is released to the atmosphere from a capture system.

Storage bin means a facility for storage (including surge bins) or nonmetallic minerals prior to further processing or loading.

Transfer point means a point in a conveying operation where the nonmetallic mineral is transferred to or from a belt conveyor except where the nonmetallic mineral is being transferred to a stockpile.

Truck dumping means the unloading of nonmetallic minerals from movable vehicles designed to transport nonmetallic minerals from one location to another. Movable vehicles include but are not limited to: trucks, front end loaders, skip hoists, and railcars.

Vent means an opening through which there is mechanically induced air flow for the purpose of exhausting from a building air carrying particulate matter emissions from one or more affected facilities.

Wet mining operation means a mining or dredging operation designed and operated to extract any nonmetallic mineral regulated under this subpart from deposits existing at or below the water table, where the nonmetallic mineral is saturated with water.

Wet screening operation means a screening operation at a nonmetallic mineral processing plant which removes unwanted material or which separates marketable fines from the product by a washing process which is designed and operated at all times such that the product is saturated with water.

[51 FR 31337, Aug. 1, 1985, as amended at 62 FR 31359, June 9, 1997]

§ 60.672 Standard for particulate matter.

(b) On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under §60.11 of this part, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility any fugitive emissions which exhibit greater than 10 percent opacity, except as provided in paragraphs (c), (d), and (e) of this section.

(c) On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under §60.11 of this part, no owner or operator shall cause to be discharged into the atmosphere from any crusher, at which a capture system is not used, fugitive emissions which exhibit greater than 15 percent opacity.

(d) Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of this section.

(f) On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under §60.11 of this part, no owner or operator shall cause to be discharged into the atmosphere from any baghouse that controls emissions from only an individual, enclosed storage bin, stack emissions which exhibit greater than 7 percent opacity.

[51 FR 31337, Aug. 1, 1985, as amended at 62 FR 31359, June 9, 1997; 65 FR 61778, Oct. 17, 2000]

§ 60.673 Reconstruction.

(a) The cost of replacement of ore-contact surfaces on processing equipment shall not be considered in calculating either the “fixed capital cost of the new components” or the “fixed capital cost that would be required to construct a comparable new facility” under §60.15. Ore-contact surfaces are crushing surfaces; screen meshes, bars, and plates; conveyor belts; and elevator buckets.

(b) Under §60.15, the “fixed capital cost of the new components” includes the fixed capital cost of all depreciable components (except components specified in paragraph (a) of this section) which are or will be replaced pursuant to all continuous programs of component replacement commenced within any 2-year period following August 31, 1983.

§ 60.675 Test methods and procedures.

(c)(1) In determining compliance with the particulate matter standards in §60.672 (b) and (c), the owner or operator shall use Method 9 and the procedures in §60.11, with the following additions:

(i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).

(ii) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.

(iii) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.

(2) In determining compliance with the opacity of stack emissions from any baghouse that controls emissions only from an individual enclosed storage bin under §60.672(f) of this subpart, using Method 9, the duration of the Method 9 observations shall be 1 hour (ten 6-minute averages).

(3) When determining compliance with the fugitive emissions standard for any affected facility described under §60.672(b) of this subpart, the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply:

(i) There are no individual readings greater than 10 percent opacity; and

(ii) There are no more than 3 readings of 10 percent for the 1-hour period.

(4) When determining compliance with the fugitive emissions standard for any crusher at which a capture system is not used as described under §60.672(c) of this subpart, the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply:

(i) There are no individual readings greater than 15 percent opacity; and

(ii) There are no more than 3 readings of 15 percent for the 1-hour period.

(d) In determining compliance with §60.672(e), the owner or operator shall use Method 22 to determine fugitive emissions. The performance test shall be conducted while all affected facilities inside the building are operating. The performance test for each building shall be at least 75 minutes in duration, with each side of the building and the roof being observed for at least 15 minutes.

(e) The owner or operator may use the following as alternatives to the reference methods and procedures specified in this section:

(1) For the method and procedure of paragraph (c) of this section, if emissions from two or more facilities continuously interfere so that the opacity of fugitive emissions from an individual affected facility cannot be read, either of the following procedures may be used:

(i) Use for the combined emission stream the highest fugitive opacity standard applicable to any of the individual affected facilities contributing to the emissions stream.

(ii) Separate the emissions so that the opacity of emissions from each affected facility can be read.

[54 FR 6680, Feb. 14, 1989, as amended at 62 FR 31360, June 9, 1997]

§ 60.676 Reporting and recordkeeping.

(a) Each owner or operator seeking to comply with §60.670(d) shall submit to the Administrator the following information about the existing facility being replaced and the replacement piece of equipment.

(1) For a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station:

(i) The rated capacity in megagrams or tons per hour of the existing facility being replaced and

(ii) The rated capacity in tons per hour of the replacement equipment.

(2) For a screening operation:

(i) The total surface area of the top screen of the existing screening operation being replaced and

(ii) The total surface area of the top screen of the replacement screening operation.

(3) For a conveyor belt:

(i) The width of the existing belt being replaced and

(ii) The width of the replacement conveyor belt.

(4) For a storage bin:

(i) The rated capacity in megagrams or tons of the existing storage bin being replaced and

(ii) The rated capacity in megagrams or tons of replacement storage bins.

(f) The owner or operator of any affected facility shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in §60.672 of this subpart, including reports of opacity observations made using Method 9 to demonstrate compliance with §60.672(b), (c), and (f), and reports of observations using Method 22 to demonstrate compliance with §60.672(e).

(h) The subpart A requirement under §60.7(a)(2) for notification of the anticipated date of initial startup of an affected facility shall be waived for owners or operators of affected facilities regulated under this subpart.

(i) A notification of the actual date of initial startup of each affected facility shall be submitted to the Administrator.

(1) For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted by the owner or operator to the Administrator. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.

(j) The requirements of this section remain in force until and unless the Agency, in delegating enforcement authority to a State under section 111(c) of the Act, approves reporting requirements or an alternative means of compliance surveillance adopted by such States. In that event, affected facilities within the State will be relieved of the obligation to comply with the reporting requirements of this section, provided that they comply with requirements established by the State.

[51 FR 31337, Aug. 1, 1985, as amended at 54 FR 6680, Feb. 14, 1989; 62 FR 31360, June 9, 1997; 65 FR 61778, Oct. 17, 2000]

SECTION D.2

FACILITY OPERATION CONDITIONS

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

Insignificant Activities

- (a) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons.
- (b) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.
- (c) Application of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings.
- (d) Paved and unpaved roads and parking lots with public access. [326 IAC 6-5]
- (e) On-site fire and emergency response training approved by the department.
- (f) Emergency generators as follows:
 - (1) Gasoline generators not exceeding 110 horsepower. [326 IAC 6.5-1-2(a)]

(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 Particulate Matter Limitations Except Lake County [326 IAC 6.5-1-2(a)]

Pursuant to 326 IAC 6.5-1-2(a) (Particulate Matter Limitations Except Lake County), particulate matter (PM) emissions from gasoline generators not exceeding 110 horsepower shall be limited to three hundredths (0.03) grains per dry standard cubic foot of exhaust air.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
and
INDIANAPOLIS OFFICE OF ENVIRONMENTAL SERVICES
FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
CERTIFICATION**

Source Name: Hanson Aggregates Midwest, Inc. – Harding Street Quarry
Source Address: 4200 South Harding Street, Indianapolis, IN 46217
Mailing Address: 209 Old Harrods Creek Road, P.O. Box 436329, Louisville, Kentucky 40253-6329
FESOP No.: F097-19718-00104

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
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2700 South Belmont Avenue
Indianapolis, IN 46221-2209**

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

Source Name: Hanson Aggregates Midwest, Inc. – Harding Street Quarry
Source Address: 4200 South Harding Street, Indianapolis, IN 46217
Mailing Address: 209 Old Harrods Creek Road, P.O. Box 436329, Louisville, Kentucky 40253-6329
FESOP No.: F097-19718-00104

This form consists of 2 pages

Page 1 of 2

- | |
|---|
| <input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none">• The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and• The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), 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, PM10, 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
 AIR COMPLIANCE**

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

Source Name: Hanson Aggregates Midwest, Inc. - Harding Street Quarry
 Source Address: 4200 South Harding Street, Indianapolis, IN 46217
 Mailing Address: 209 Old Harrods Creek Road, P.O. Box 436329, Louisville, Kentucky 40253-6329
 FESOP No.: F097-19718-00104

Months: _____ to _____ Year: _____

<p>This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked No deviations occurred this reporting period.</p>	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

ATTACHMENT A
Harding Street Quarry
FUGITIVE DUST CONTROL PLAN

Source Background and Description

Source Name: Hanson Aggregates Midwest, Inc.
Source Location: 4200 South Harding Street, Indianapolis, Indiana 46217
County: Marion
ID No.: 097-00104
SIC Code: 1422 & 1442

Section 1 - Introduction

The following control plan, when implemented, is designed to reduce uncontrolled fugitive dust from open storage piles, unpaved roadways, paved roadways, and material loading and unloading operations such that the visible emissions limitations specified in the permit are met.

The plan shall be implemented on a year-round basis until such time as another plan is approved or ordered by the Indiana Department of Environmental Management or Department of Public Works Office of Environmental Services.

The following persons shall be responsible for implementing the plan:

- (a) James R. Smith, Environmental Manager
Office Tel. No.: 502-244-7550
Mobile No.: 502-649-9264
- (b) Marshall Zoll, Area Manager
Office Tel. No.: 317-788-4086
Mobile No.: 765-721-7620
- (c) Greg Mitchell, Plant Superintendent
Office Tel. No.: 317-788-4086
Mobile No.: 765-721-1041
- (d) Alan Burnette, Asst. Superintendent
Office Tel. No.: 317-788-4086
Mobile No.: 317-371-0070

Section 2 - Wind Erosion from Open Storage Piles

Open storage piles consist of limestone in various stages of processing. To maintain product quality and chemical stability, watering the stockpiles shall be the primary means of dust control. Water must be limited so as to keep the moisture content of the product within standards.

Hanson shall spray open storage piles with water, on an "as-needed" basis to eliminate wind erosion and not exceed the opacity limitations in the permit. Water added to the product during processing provides added control. Visible emissions shall be determined in accordance with the procedures specified in the permit.

ATTACHMENT A

Section 3 - Unpaved Areas within the Limestone Processing Area

Hanson shall treat unpaved areas traveled around material storage piles and limestone processing equipment with water on an “as needed” basis. Fugitive dust emissions shall be reduced by at least 50 percent instantaneous control on PM and PM-10 mass emission basis. This facility has an annual average precipitation history of 125 days of + 0.01 inches of rainfall, 55 days + 0.1 inches of rainfall and 10 days of snowfall accumulation.

Treating of unpaved areas may be delayed by one day when:

- (a) 0.1 or more inches of rain have accumulated during the 24-hour period prior to the scheduled treatment.
- (b) Unpaved areas are saturated with water.
- (c) Unpaved areas are frozen or covered by ice, snow, or standing water.
- (d) The area is closed or abandoned.
- (e) It is raining at the time of the scheduled treatment.

Hanson shall perform the above dust control measures such that the visible emission limitations in the permit are met. Visible emissions shall be determined in accordance with the procedures specified in the permit.

Section 4 - Paved Roadways

Hanson shall control fugitive emissions generated from sections of all paved roadways that are within the permitted area by the use of a vehicular vacuum sweeper, in place spray nozzles (sprinklers) or water truck on an “as needed” basis. See precipitation history in Section 3.

Vacuum sweeping or water application shall be performed at least once every operating day. Vehicles shall also not be allowed to travel on the shoulder of paved roadways.

Cleaning of paved road segments and parking lots may be delayed by one day when:

- (a) 0.1 or more inches of rain has accumulated during the 24-hour period prior to the scheduled cleaning.
- (b) The road segment is closed or abandoned. Abandoned roads will be barricaded to prevent vehicle access.
- (c) It is raining at the time of the scheduled cleaning.

Hanson shall perform the above dust control measures such that the visible emission limitations in the permit are met. Visible emissions shall be determined in accordance with the procedures specified in the permit.

ATTACHMENT A

Section 5 - Material Handling and Processing

Emissions from material processing operations shall be controlled through the application of water on an “as needed” basis. Application rates and frequencies shall be sufficient to provide at least 90 percent control efficiency by limiting conveyor to pile drop height, front end loader batch drop height into trucks and screening & crushing emission points.

Section 6 - Vehicle Speed Control

Speed limits on paved roads shall be posted to be 15 mph. Speed limits on unpaved areas shall be 15 mph.

Compliance with these speed limits shall be monitored by plant superintendent or manager. Violations shall be documented and appropriate corrective actions shall be taken to eliminate repeat violations.

Section 7 - Material Spill Control

Incidents of material spillage on plant property shall be investigated by the person responsible for implementing the plan. That person shall arrange for prompt cleanup and shall contact the party responsible for the spill to insure that corrective action can be taken. A “Safe Area” shall be provided to allow truckers the opportunity to clean off any excess material from tailgates and side panels.

Section 8 - Monitoring and Recording Keeping

Records shall be kept within a journal which will be updated on a daily basis by the plant manager. The journals shall include vacuum sweeping and spill control activities. Also, the journal shall contain the amount of water sprayed on the open storage piles, the amount of water sprayed at the limestone processing spray bars, and the amount of water applied on unpaved areas. The journals shall be kept at the designated plant location for a minimum of three years and shall be available for inspection or copying upon reasonable prior notice. Hanson shall retain a certified Visual Emissions reader on site.

Section 9 - Compliance Schedule

This plan shall be fully implemented upon issuance of the Federally Enforceable State Operating Permit. Until that time, the plan shall be implemented on a timely manner as to be fully complete upon issuance of said permit.

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

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

Source Background and Description

Source Name: Hanson Aggregates Midwest, Inc. - Harding Street Quarry
Source Location: 4200 South Harding Street, Indianapolis, IN 46217
County: Marion
SIC Code: 1422 & 1442
Operation Permit No.: F097-19718-00104
Permit Reviewer: M. Caraher

On April 5, 2007, the Office of Air Quality (OAQ) and the City of Indianapolis Office of Environmental Services (OES) had a notice published in the Indianapolis Star newspaper stating Hanson Aggregates Midwest, Inc. - Harding Street Quarry had applied for a Federally Enforceable State Operating Permit (FESOP) relating to a mining and quarrying operation and a sand and gravel operation. 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 also 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.

IDEM, OAQ and OES have made changes to the permit. These changes are listed below. The Technical Support Document (TSD) will remain as it originally appeared when published. Changes to the permit or technical support material that occur after the draft permit has published for public notice 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 ~~strikeout~~ has been deleted.

Change 1

IDEM, OAQ has an updated mail address. The change in mail address affects Conditions B.10, B.11, B.12, B.15, B.17, B.18, B.19, B.22, C.8, C.10, C.18, D.1.10 and the Emergency Occurrence Report Form as follows:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Indiana Department of Environmental Management
Air Compliance Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Change 2

Records need to be kept of all visible emission notations and NESCO System water flow rate checks. If visible emission notations and NESCO System water flow rate checks are not taken for some reason, then a record needs to be kept of why the record was not taken, i.e. unit not operating that day. As a result, Condition D.1.9 of the FESOP is revised as follows:

D.1.9 Record Keeping Requirements

- (a) To document compliance with Conditions D.1.1, D.1.2, D.1.3, D.1.5, D.1.6, D.1.7 and D.1.8, the Permittee shall maintain records of once per day visible emission notations and once per day NESCO System water flow rate checks. **The Permittee shall include in its daily record when a visible emission notation is not taken, when a water flow rate check is not taken and the reason for the lack of the visible emission notation or water flow rate check (i.e. the process did not operate that day).** Records necessary to demonstrate compliance shall be available within thirty (30) days of the end of each compliance period.

...

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

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

Source Background and Description

Source Name: Hanson Aggregates Midwest, Inc. - Harding Street Quarry
Source Location: 4200 South Harding Street, Indianapolis, IN 46217
County: Marion
SIC Code: 1422 & 1442
Operation Permit No.: F097-19718-00104
Permit Reviewer: M. Caraher

The Indiana Department of Environmental Management (IDEM) Office of Air Quality (OAQ) and the City of Indianapolis Office of Environmental Services (OES) have reviewed an application from Hanson Aggregates Midwest, Inc. - Harding Street Quarry (hereafter referred to as Hanson) relating to a mining and quarrying operation under a Standard Industrial Classification (SIC) Code of 1422 (establishments primarily engaged in mining and quarrying crushed and broken limestone, including rip rap) and a sand and gravel operation under a Standard Industrial Classification (SIC) Code of 1442 (establishments primarily engaged in operating sand and gravel pits and dredges and in washing, screening or otherwise preparing sand and gravel for construction uses).

Source History

This existing source has been operating under Certificate of Operation 104-01, 104-02, 104-03 and 104-04 issued by the City of Indianapolis on July 13, 1993 and Certificate of Operation 104-05 issued by the City of Indianapolis on April 4, 1994. Each Certificate of Operation had a stated valid period through June 30, 1996. The Certificates of Operation are for Plant # 510, Plant # 522, Plant # 552 and two (2) portable recycled asphalt crushing plants (see TSD Appendix A page 1 of 11).

On June 13, 1996, prior to the expiration of the valid period for the existing Certificates of Operation for this source, this existing source filed three (3) separate Source Specific Operating Agreement (SSOA) applications under 326 IAC 2-9 (SSOA) for a stone crushing SSOA for Plant # 522, a second separate SSOA application for a stone crushing SSOA for Plant # 552 and a third separate SSOA for a sand and gravel operation for Plant # 510. Pursuant to 326 IAC 2-9.1(g) (Source Specific Operating Agreement (SSOA) Program), a source may apply for up to four (4) different types of source specific operating agreements provided allowable emissions or potential to emit for any regulated pollutant, as limited under the SSOA, do not exceed major source levels when aggregated. The potential to emit PM₁₀, when aggregated, for the SSOA categories selected for this existing source exceeds the major source threshold for PM₁₀.

On December 21, 1999, OES sent a letter to Hanson requesting Hanson to review SSOA eligibility for the source and, if not eligible, submit a Part 70 Operating Permit application (or a FESOP application) within sixty (60) days of certified receipt of the letter.

On March 7, 2000, this existing source filed a Minor Source Operating Permit (MSOP) application, M097-11976-00104. On March 15, 2004, OES sent a Notice of Deficiency letter to Hanson requesting Hanson submit a Part 70 Permit application (or a FESOP application) within sixty (60) days as the potential to emit PM10 from the source is greater than the major source threshold for PM10 of one hundred (100) tons per year.

On July 15, 2004, Hanson Aggregates Midwest replaced the MSOP application with a FESOP application, F097-19718-00104.

Pursuant to 326 IAC 2-7-3 (Requirement for a Permit) and 326 IAC 2-7-4 (Permit Application), all existing major sources in Indiana must have a complete Part 70 Permit Program application on file with IDEM, OAQ by December 13, 1996. Because Hanson replaced the SSOA applications with a Minor Source Operating Permit (MSOP) application, the emission units at Hanson will be considered as unpermitted for the purposes of this review.

Plant # 522 consists of primary crushing equipment and conveying equipment to the secondary and tertiary crushers, screens or conveyors. Plant # 522 was in existence prior to August 31, 1983, the applicability date for the New Source Performance Standard, 326 IAC 12 and 40 CFR 60.670, Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants).

Plant # 552 consists of secondary and tertiary crushing, screening and conveying operations which can be used in unison with the existing Plant # 522. Hanson Aggregates Midwest, Inc. has specifically requested in the FESOP application that the facility descriptions of Plant # 522 and Plant # 552 be combined into one (1) description, identified as Plant # 522, for all crushing, screening and conveying operations for mined or quarried nonmetallic mineral processing at Hanson Aggregates Midwest, Inc. - Harding Street Quarry.

Unpermitted Emission Units and Pollution Control Equipment

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

- (a) One (1) Limestone Crushing Plant # 522, identified as Plant # 522, with a maximum primary crushing capacity of 1500 tons per hour, using a NESCO Systems water suppression system as control. Plant # 522 consists of:
 - (1) Two (2) receiving hoppers (R1 and R1A). R1 was installed in 1974 and R1A was installed in 2003. Each receiving hopper capacity is 1500 tons.
 - (2) Two (2) primary crushers, a 5348 Cedar Rapids impact crusher (CR1A) installed in 1974, and a 4248 jaw crusher (CR1) installed in 2003.
 - (3) Four (4) secondary crushers, a Boehringer impact crusher (CR2) installed in 1993, a 5 ½ standard cone crusher (CR3) installed prior to 1983, a VSI crusher (CR4) installed in 1997, and a 4 1/4 short head cone crusher (CR6) installed prior to 1983, with a combined maximum crushing capacity of 1500 tons per hour.
 - (4) One (1) tertiary crusher (CR5), a 5 ½ short head cone crusher with a maximum capacity of 275 tons per hour installed in 1991.
 - (5) Twelve (12) screens (S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, BS1 and BS2), with a combined maximum screening capacity of 1500 tons per hour. S7, S8, S9 and BS1 were installed in 1974. S1, S2, S3, S4, S10, and BS2 were installed in 1993. S5 and S6 were installed in 1997.
 - (6) Forty-eight (48) conveyors (C0, C1, C1A, C2, C2A, C3, C3A, C4 through C28 and BC1 through BC16), with a combined maximum conveying capacity of 1500 tons per hour. C1, C2, C3, C4 through C21, C23 through C26, C28, BC1, BC2,

BC5, BC14 and BC15 were installed prior to 1983. C22 was installed in 1993. C27, BC3, BC4, BC6 through BC13 and BC16 were installed in 1997. C0, C1A, C2A and C3A were installed in 2003.

- (b) One (1) dredging and screening of sand and gravel operation, identified as Plant # 510, with a maximum capacity of 450 tons per hour, using a NESCO Systems water suppression system for washing and screening and as additional control. Plant # 510 was installed in 1991. Plant # 510 consists of one (1) receiving hopper (SR1), three (3) screens (SS1, SSC1 and SSC2) and seven (7) conveyors (SC1 through SC7).
- (c) Drilling and blasting of nonmetallic minerals in a mining and quarrying operation. Installed prior to 1974.

Insignificant Activities

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

- (a) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons.
- (b) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.
- (c) Applications of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings.
- (d) Paved and unpaved roads and parking lots with public access. [326 IAC 6-5]
- (e) On-site fire and emergency response training approved by the department.
- (f) Emergency generators as follows:
 - (1) Gasoline generators not exceeding 110 horsepower. [326 IAC 6.5-1-2(a)]

Previous Approvals

The source had been operating under previous approvals including, but not limited to, the following:

- (a) Installation Permit 900104-04, issued by the City of Indianapolis on March 15, 1991, for installation of Plant # 552.
- (b) Installation Permit 920104-01, issued by the City of Indianapolis on July 28, 1992, issued for additional and replacement facilities in Plant # 510 operations.
- (c) Certificate of Operation 104-01, 104-02, 104-03 and 104-04, issued by the City of Indianapolis on July 13, 1993; and
- (d) Certificate of Operation 104-05, issued by the City of Indianapolis on April 4, 1994; and
- (e) Review Request letter RR097-18147-00104 sent by City of Indianapolis on September 29, 2003.

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

- (a) Certificate of Operation 104-03, issued by the City of Indianapolis on July 13, 1993.

All Conditions pertaining to Certificate of Operation 104-03 are not incorporated.

Reason not incorporated: Certificate of Operation 104-03 was issued to American Aggregates, Inc. who formerly operated on the site. Certificate of Operation 104-03 was for one (1) Greenville Manufacturing Works Mobile Asphalt Recycling (MARS) Plant. On December 19, 1997, the Kentucky Stone Company purchased the American Aggregates, Inc. Harding Street operations from the owner Martin Marietta Materials. The Kentucky Stone Company later changed its operating name to Hanson Aggregates Midwest, Inc. on or after January 19, 1999. Following the purchase of the Harding Street Quarry by the Kentucky Stone Company, American Aggregates retained the mobile MARS plant and moved it off the site. Therefore, all conditions pertaining to Certificate of Operation 104-03 are not incorporated in this review and issuance.

- (b) Certificate of Operation 104-05, issued by the City of Indianapolis on April 4, 1994.

All Conditions pertaining to Certificate of Operation 104-05 are not incorporated.

Reason not incorporated: Certificate of Operation 104-05 was issued to American Aggregates, Inc. who formerly operated on the site. Certificate of Operation 104-05 was for one (1) Greenville Manufacturing Works Recycling Asphalt Plant (RAP). On December 19, 1997, the Kentucky Stone Company purchased the American Aggregates, Inc. Harding Street operations from the owner Martin Marietta Materials. The Kentucky Stone Company later changed its operating name to Hanson Aggregates Midwest, Inc. on or after January 19, 1999. Following the purchase of the Harding Street Quarry by the Kentucky Stone Company, American Aggregates retained the portable RAP plant and moved it off the site. Therefore, all conditions pertaining to Certificate of Operation 104-05 are not incorporated in this review and issuance.

- (c) Certificate of Operation 104-04, issued by the City of Indianapolis on July 13, 1993.
Installation Permit 900104-04 issued by the City of Indianapolis on March 15, 1991.

The description of Certificate of Operation 104-04, identified as a separate "Portable Limestone Crushing Plant # 552", and Condition 4 of Installation Permit 900104-04 issued by the City of Indianapolis on March 15, 1991.

Reason not incorporated: Plant # 552 consists of secondary and tertiary crushing, screening and conveying operations which can be used in unison with the existing Plant # 522. Plant # 522 consists of primary crushing equipment and conveying to the secondary and tertiary crushers, screens or conveyors. Therefore, Hanson Aggregates Midwest, Inc. has identified in the FESOP application that the facility descriptions of Plant # 522 and Plant # 552 should be combined into one (1) description, identified as Plant # 522 for all crushing, screening and conveying operations for mined or quarried nonmetallic mineral processing at Hanson Aggregates Midwest, Inc. - Harding Street Quarry. Condition 4 stated "The Permittee shall be restricted to a maximum throughput of 485,875 tons per year." This limitation was established utilizing AP-42 and Ohio EPA emission factors at maximum capacity and projected annual operating hours. There is no regulatory justification to continue to limit annual throughput to 485,875 tons per year. AP-42 emission factors for limestone crushing and for sand and gravel operations have since been revised in August 2004. Also, allowable PM and/or PM10 emission limitations for this review and issuance will be established pursuant to 326 IAC 6 (Particulate Rules), 326 IAC 2-8 (Federally Enforceable State Operating Permit Program) and 40 CFR 60.670 Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants), where applicable. Therefore, Condition 4 of Installation Permit 900104-04 is not incorporated in this review and issuance.

- (d) Certificate of Operation 104-01, 104-02 and 104-04, issued by the City of Indianapolis on July 13, 1993.

Condition 3(a) through 3(d) are not incorporated.

Reason not incorporated: Condition 3(a) through 3(d) established allowable Total Suspended Particulate (TSP) for Plant # 522, # 552 and # 510 in pounds per hour and tons per year based on AP-42, Ohio EPA emission factors and projected actual annual operating hours. TSP is no longer a regulated pollutant. The classification is now entitled particulate (PM) and particulate matter less than ten microns in aerodynamic diameter (PM10). In addition, AP-42 emission factors for limestone crushing and for sand and gravel operations have since been revised in August 2004. Also, allowable PM and/or PM10 emission limitations for this review and issuance will be established pursuant to 326 IAC 6 (Particulate Rules), 326 IAC 2-8 (Federally Enforceable State Operating Permit Program) and 40 CFR 60.670 Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants), where applicable. Therefore, allowable Total Suspended Particulate (TSP) for Plant # 522, # 552 and # 510 in pounds per hour and tons per year are no longer applicable and are not incorporated in this review and issuance.

- (e) Certificate of Operation 104-01, 104-02 and 104-04, issued by the City of Indianapolis on July 13, 1993.

Condition 5 is not incorporated.

Reason not incorporated: Condition 5 referenced specific fugitive dust measures for paved and unpaved roads at the source, such as, paved roads shall be flushed or wet swept at least once per day and unpaved roads shall have a minimum of 3000 gallons of water applied each hour. These requirements are not specifically stated by any existing applicable requirement. These Certificate of Operation requirements did not cite any existing compliance order or schedule to mandate these specific minimum fugitive dust control measures. These Certificate of Operation requirements were not contained in any previous construction permits or conditions. Therefore, Condition 5 is not incorporated in this review and issuance.

- (f) Certificate of Operation 104-01, 104-02, and 104-04, issued by the City of Indianapolis on July 13, 1993.

Condition 6, Condition 7 and Condition 9 are each not incorporated.

Reason not incorporated: Each of these Conditions referenced a specific City of Indianapolis Air Pollution Control Board (IAPCB) Regulation (Regulation II-4 Air Borne Particulate, Regulation VII Malfunctions and Scheduled Maintenance, and Regulation IX-1 Permits) that is no longer applicable or in effect. The IAPCB has since adopted State rules by reference. For the purposes of this permit, all State rules adopted by reference by the IAPCB are enforceable by OES using local enforcement procedures. Therefore, Condition 6, 7 and 9 are each not incorporated in this review and issuance.

Air Pollution Control Justification as an Integral Part of the Process

Hanson Aggregates Midwest, Inc. has submitted the following justification that the presence of water in the dredging and screening of sand and gravel operation, identified as Plant # 510, should be considered as an integral part of Plant # 510.

- (a) Sand and gravel is taken out of a lake on site by drag line and hauled directly to a receiving hopper. Therefore, all subsequent receiving, screening and conveying in Plant # 510 is a totally wet process and should be considered as an integral part of the operation.

- (b) IDEM, OAQ and OES have evaluated the justification and agree that dredging from the lake on site and all subsequent receiving, screening and conveying in Plant # 510 is a wet process and will be considered as an integral part of Plant # 510. Therefore, the permitting level will be determined using the potential to emit after the wet process (see TSD Appendix A page 6 of 11). Operating conditions in the proposed permit will specify that dredging, receiving, screening and conveying in Plant # 510 shall be a wet process at all times Plant # 510 is in operation.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (°F)
no stack(s)	NA	NA	NA	NA	NA

Enforcement Issue

IDEM and OES are aware that the source was not issued a FESOP by December 14, 1996, nor did the source submit a complete Part 70 Operating Permit application by that date. SSOA applications were submitted by the source on June 13, 1996 but were replaced by a MSOP application on March 7, 2000. The MSOP application was subsequently replaced with FESOP application F097-19718-00104. IDEM and OES are also aware that the source added the 4248 jaw crusher (CR1) without having a proper permit under 326 IAC 2-7 or 326 IAC 2-8. IDEM and OES are reviewing this matter and will take appropriate action. This proposed permit is intended to satisfy the requirements of the construction and operation permit rules.

Recommendation

The staff recommends to the Commissioner and the Administrator that the Federally Enforceable State Operating Permit (FESOP) for this existing stationary source 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 application for the purposes of this review was received by OES on July 15, 2004. No Notice of Completeness letter was sent to the source.

Information was received on July 9, 2003 in regards to stone crushing operation emission estimates.

Information was received on September 16, 2003 in regards to MARS and RAP plant operating status and the chronology of owner and operating name changes.

Information was received on February 20, 2004 in regards to fugitive emissions.

Information on the applicability of 40 CFR 60.670, Subpart OOO to individual mineral aggregate operations (bins, crushers, conveyors and screens) and information on the NESCO water suppression systems was received on August 12 and August 16, 2004. Pursuant to 40 CFR 60.675, Appendix A, Method 9 visible emissions evaluations were performed and reported for the primary 4248 jaw crusher (CR1) and related conveyors (C0, C1A, C2A and C3A) in October 2004 and in May 2005 (see TSD Appendix A page 10 of 11).

On May 20, 1998, the source filed an application for an owner name change from Martin Marietta Material and requested that the permit be transferred to the new owner, the Kentucky Stone Company. On January 19, 1999, the Kentucky Stone Company notified OES in writing that the

owner of the company did not change but the operating name of the source has been changed to Hanson Aggregates Midwest, Inc. - Harding Street Quarry. This review, F097-19718-00104, incorporates the ownership change to the Kentucky Stone Company and the operating name change to Hanson Aggregates Midwest, Inc. - Harding Street Quarry.

Emission Calculations

See Appendix A pages 1 through 11 of this document for detailed emissions calculations.

Pursuant to AP-42 Chapter 11.19.2 (8/04) (Crushed Stone Processing and Pulverized Mineral Processing), "...emissions for stone quarry blasting operations are not presented because of the unreliability of available tests. While a procedure for estimating blasting emissions is presented in Chapter 11.9 (Western Surface Coal Mining), that procedure should not be applied to stone quarries because of dissimilarities in the blasting techniques, material blasted, and size of blast areas." Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 or 326 IAC 2-3, the limited potential to emit PM is less than two hundred fifty (250) tons per year, the limited potential to emit PM10 is less than one hundred (100) tons per year, and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, fugitive blasting emissions at this existing source are not estimated and are not counted toward determination of PSD and Emission Offset applicability for the purposes of this review.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

Pollutant	Potential To Emit (tons/year)
PM	271.5
PM10	105.3
SO ₂	4.6
VOC	15.0
CO	4.6
NO _x	10.0

HAP's	Potential To Emit (tons/year)
none	0.0

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM10 is equal to or greater than 100 tons per year. The source is subject to the provisions of 326 IAC 2-7. However, the source has agreed to limit PM10 emissions to less than Title V levels, therefore the source will be issued a FESOP.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all other criteria pollutants are less than 100 tons per year.
- (c) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is less than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is less than twenty-five (25) tons per year.

Potential to Emit After Issuance

This source has opted to be 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.

Process/facility	Potential to Emit (tons/year)						
	PM	PM10	SO ₂	VOC	CO	NO _x	HAPs
Limestone Crushing Plant # 522 crushing and screening operations CR1A, CR1, CR2, CR3, CR4, CR6, CR5, S1, S2, S3, S4,S5, S6, S7, S8, S9, S10, BS1, BS2	220.1 ⁽¹⁾	86.2 ⁽¹⁾	0.0	0.0	0.0	0.0	0.0 / 0.0
Limestone Crushing Plant # 522 conveying operations C0, C1, C1A, C2, C2A, C3, C3A, C4 through C28 and BC1 through BC16	19.7	7.2	0.0	0.0	0.0	0.0	0.0 / 0.0
Dredging and screening of sand and gravel Plant # 510 receiving, screening and conveying operations SR1, SS1, SSC1, SSC2, SC1 through SC7	5.5	1.9	0.0	0.0	0.0	0.0	0.0 / 0.0
Drilling & Mining; Insignificant Activities	4.6	4.6	4.6	15.0	4.6	10.0	0.0 / 0.0
Total Emissions	< 250.0	< 100.0	4.6	15.0	4.6	10.0	0.0 / 0.0

Notes: (1) Limited potential to emit, see State Rule Applicability – Entire Source section

- (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 and it is not one of the 28 listed source categories.
- (b) These emissions were based on the FESOP application submitted by Hanson Aggregates Midwest, Inc. - Harding Street Quarry, the use of AP-42 emission factors, operation at rated capacity for 8760 operating hours per year, and the presence of water in the dredging and screening of sand and gravel operation, identified as Plant # 510.

County Attainment Status

The source is located in Marion County.

Pollutant	Status
PM10	Attainment
PM2.5	Nonattainment
SO ₂	Maintenance attainment
NO _x	Attainment
8-hour Ozone	Basic nonattainment
CO	Attainment
Lead	Attainment

- (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 Emission Offset.
- (b) Marion County has been classified as nonattainment for PM2.5 in 70 FR 943 dated January 5, 2005. Until U.S. EPA adopts specific New Source Review rules for PM2.5 emissions, it has directed states to regulate PM10 emissions as a surrogate for PM2.5 emissions pursuant to the requirements of Emission Offset, 326 IAC 2-3. See the State Rule Applicability – Entire Source section.
- (c) Marion County has been classified as attainment or unclassifiable in Indiana for PM10, SO₂, CO and Lead. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the 326 IAC 2-2 discussion under State Rule Applicability - Entire Source.
- (d) 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) emissions are not counted toward determination of PSD and Emission Offset applicability.
- (e) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.

Federal Rule Applicability

326 IAC 12 and 40 CFR Part 60, Subpart OOO

- (a) The provisions of the New Source Performance Standard, 326 IAC 12, (40 CFR 60.670, Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants)) apply to each affected facility that commences construction, reconstruction, or modification after August 31, 1983.

Hanson Aggregates Midwest, Inc. - Harding Street Quarry performs primary, secondary and tertiary crushing of nonmetallic minerals, including limestone, and screening and conveying of sand and gravel. Mineral aggregate operations (blasting, crushing, sizing, storing and transporting) have been taking place at this site since at least 1974. There are bins, crushers, screens and conveyors at this source that have been in existence prior to 1983 and have not been constructed, reconstructed or modified after August 31, 1983. In addition, there are bins, crushers, screens and conveyors at this source that have been constructed, reconstructed or modified after August 31, 1983 (see TSD Appendix A page 10 of 11).

Pursuant to 40 CFR 60.670(a)(2), the provisions of Subpart OOO do not apply to any facility located in underground mines.

Pursuant to 40 CFR 60.670(a)(2), the provisions of Subpart OOO do not apply to stand-alone screening operations at plants without crushers or grinding mills. The dredging and screening of sand and gravel operation, identified as Plant # 510, includes screening operations. Plant # 510 does not crush or grind nonmetallic minerals and does not have any combination of equipment that is used to crush or grind any nonmetallic mineral. None of the materials processed in Plant # 510 are transferred to or from Plant # 522. On November 26, 1997, EPA published a notice of policy clarification in the Federal Register that crushing or grinding of nonmetallic minerals must take place for Subpart OOO to be applicable and, as long as crushing or grinding occurs at a nonmetallic mineral processing plant, any affected facility listed in 40 CFR 60.670(a) may be subject to Subpart OOO. Under 40 CFR 60.670 Subpart OOO, a nonmetallic mineral processing plant is defined as any combination of equipment that is used to crush or grind any nonmetallic mineral. Therefore, the provisions of Subpart OOO do not apply to the dredging and screening of sand and gravel operation, identified as Plant # 510, because Plant # 510 does not crush or grind nonmetallic minerals, the sand and gravel operation does not have or use any combination of equipment that is used to crush or grind any nonmetallic mineral, and none of the materials processed in Plant # 510 is transferred to or from Plant # 522.

The primary 4248 jaw crusher (CR1) was installed in 2003. The installation of the 4248 jaw crusher does not increase the maximum throughput capacity of 1500 tons per hour for Plant # 522 and is not a replacement crusher for the existing primary 5348 Cedar Rapids impact crusher. In addition, on August 16, 2004, Hanson Aggregates Midwest, Inc. stated that the 4248 jaw crusher was reconstructed, whereby, prior to its installation and operation in 2003, replacement components costs for this crusher exceeded fifty percent (50%) of the fixed capital costs of an entirely new crusher. Therefore, pursuant to 40 CFR 60.15, the 4248 jaw crusher (CR1) is subject to the provisions of 40 CFR 60.670 because it is an affected facility that commenced construction, reconstruction, or modification after August 31, 1983.

Plant # 522 utilizes a combination of equipment that commenced construction, reconstruction, or modification after August 31, 1983 to crush or grind nonmetallic minerals. Therefore, Plant # 522 is subject to the New Source Performance Standards for Nonmetallic Mineral Processing Plants, Subpart OOO (40 CFR 60.670), which is incorporated by reference as 326 IAC 12. In the FESOP application of July 15, 2004, Hanson Aggregates Midwest, Inc. identified the following affected facilities (each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin and enclosed truck or railcar loading station that commenced construction, reconstruction, or modification after August 31, 1983) that are each subject to the New Source Performance Standard, 326 IAC 12 and 40 CFR 60.670, Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants):

- (1) Crushing operations identified as CR1, CR2, CR4 and receiving hopper R1A.
- (2) Screening operations identified as S1, S2, S3, S4, S5, S6, S10 and BS2.
- (3) Conveying operations identified as C0, C1A, C2A, C3A, C22, C27, BC3, BC4, BC6, BC7, BC8, BC9, BC10, BC11, BC12, BC13 and BC16.

Nonapplicable portions of the NSPS will not be included in the permit. These units are each subject to the following portions of Subpart OOO:

- (1) 40 CFR 60.670
- (2) 40 CFR 60.671
- (3) 40 CFR 60.672(b)
- (4) 40 CFR 60.672(c)

- (5) 40 CFR 60.672(d)
- (6) 40 CFR 60.672(f)
- (7) 40 CFR 60.673
- (8) 40 CFR 60.675(c)
- (9) 40 CFR 60.675(d)
- (10) 40 CFR 60.675(e)
- (11) 40 CFR 60.676(a)
- (12) 40 CFR 60.676(f)
- (13) 40 CFR 60.676(h)(i)(1)
- (14) 40 CFR 60.676(j)

Hanson Aggregates Midwest, Inc. - Harding Street Quarry provided documentation that 40 CFR Part 60, Appendix A, Method 9 visible emissions evaluations have historically been performed pursuant to 40 CFR 60.675 (see TSD Appendix A page 10 of 11). 40 CFR Part 60, Appendix A, Method 9 visible emissions evaluations were performed for the primary 4248 jaw crusher (CR1) and related conveyors (C0, C1A, C2A and C3A) in October 2004 and in May 2005 (see TSD Appendix A page 10 of 11).

- (b) There are no additional New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the FESOP for this source.

326 IAC 14, 20, 40 CFR Part 61, 40 CFR Part 63

There are no National Emission Standards for Hazardous Air Pollutants (NESHAP) (326 IAC 14, 20 and 40 CFR Part 61, 63) included in the FESOP for this source.

40 CFR Part 64

This source is not subject to the provisions of 40 CFR Part 64, Compliance Assurance Monitoring (CAM). In order for this rule to apply, a specific emissions unit must meet the following criteria for a given pollutant: 1) the unit is subject to an emission limitation or standard for the applicable regulated pollutant, 2) the unit uses a control device to achieve compliance with any such emission limitation or standard, and, 3) the unit has potential pre-control device emissions of the applicable regulated pollutant that are equal to or greater than 100 percent of the amount required for a source to be classified as a major source. Additionally, the source must have a Part 70 Operating Permit. This source has chosen to be permitted as a FESOP and is, therefore, not subject to 40 CFR Part 64.

State Rule Applicability - Entire Source

326 IAC 1-5-2 (Emergency Reduction Plans)

This existing source has the potential to emit particulate (PM) from fugitive and non-fugitive operations in excess of one hundred (100) tons per year. The source submitted an Emergency Reduction Plan on December 8, 1988. This plan has been verified to fulfill the requirements of 326 IAC 1-5-2.

326 IAC 2-1.1-5 (Air Quality Requirements)

Marion County has been designated as nonattainment for PM2.5. According to an EPA guidance memo dated April 5, 2005, PM10 is to be utilized as a surrogate for PM2.5 until the EPA can promulgate the PM2.5 implementation rule. There have been no major modifications to this source for PM10 emissions. Therefore, this source is not subject to nonattainment new source review requirements for PM2.5 emissions.

326 IAC 2-2 (Prevention of Significant Deterioration (PSD) Requirements)

This existing source was constructed prior to the promulgation of 326 IAC 2-2 (Prevention of Significant Deterioration). This source is not one (1) of the twenty eight (28) listed source categories under 326 IAC 2-2 (Prevention of Significant Deterioration). This source has the

potential to emit particulate (PM) of equal to or greater than two hundred fifty (250) tons per year from non-fugitive operations (crushing, screening and conveying; see TSD Appendix A page 9 of 11). This source has not had any new construction or modification that was deemed subject to the provisions of 326 IAC 2-2 (Prevention of Significant Deterioration) at the time of construction or modification. With the use of NESCO Systems water suppression systems as particulate control (PM) for Plant # 522 and for Plant # 510, source wide PM emissions after controls are less than two hundred fifty (250) tons per twelve (12) consecutive month period from combined total source wide non-fugitive operations (see TSD Appendix A page 9 of 11). Therefore, combined total non-fugitive particulate (PM) emissions from Plant # 522, Plant # 510 and insignificant activities (see TSD Appendix A page 9 of 11) are limited to less than two hundred fifty (250.0) tons per twelve (12) consecutive month period with compliance determined at the end of each month such that 326 IAC 2-2 (Prevention of Significant Deterioration) is not applicable. The NESCO Systems water suppression systems shall be in operation at all times Plant # 522 and Plant # 510 is in operation in order to comply with the particulate (PM) limit. In order to make this limit practically enforceable, an hourly allowable PM limit is derived as follows: (249.9 tons per year of source wide limited potential to emit – 5.5 tons potential to emit from Plant # 510 – 19.7 tons potential to emit from 48 conveyors in Plant # 522 – 4.6 tons potential to emit from Insignificant Activity PM emissions) x 2000 lbs/ton/8760 hrs/yr = 50.2 lbs PM/hr for combined non-fugitive emissions in Plant # 522 operations consisting of CR1A, CR1, CR2, CR3, CR4, CR6, CR5, S1, S2, S3, S4,S5, S6, S7, S8, S9, S10, BS1, BS2. Individual process operations in Plant # 522, excluding the 48 conveyors, shall each not exceed the following:

Plant # 522

Process	Combined Process Rate (tons per hour)	AP-42 emission factor (pounds per ton)	Control efficiency (%)	PM emissions after control (pounds per hour)	Allowable PM emissions (pounds per hour) (pursuant to 326 IAC 2-2)
CR1A, CR1	1500	0.0054	90	0.81	0.81 (each)
CR2, CR3, CR4, CR6	1500	0.0054	90	0.81	0.81 (each)
CR5	275	0.0054	90	0.15	0.15
S1, S2, S3, S4,S5, S6, S7, S8, S9, S10, BS1, BS2	1500	0.025	90	3.75	3.75 (each)
Total				5.5	50.2

326 IAC 2-4.1 (New Source Toxics Control)

This existing source commenced operation prior to July 27, 1997 and does not have the potential to emit hazardous air pollutant (HAP) emissions of greater than ten (10) tons per year for any individual HAP nor does this source have the potential to emit HAP of greater than twenty five (25) tons per year for any combination of HAP. This source did not undergo a construction or a reconstruction of a major HAP source after July 27, 1997. Therefore, this source is not subject to 326 IAC 2-4.1 (New Source Toxics Control).

326 IAC 2-6 (Emission Reporting)

This source is not subject to 326 IAC 2-6-1(a) (Emission Reporting) because it is located in Marion County, it does not 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 2-6.1 (Minor Source Operating Permit Program)

Because the unrestricted potential to emit non-fugitive Particulate Matter less than ten (10) microns in aerodynamic diameter (PM10) is greater than one hundred (100) tons per year, this source is not eligible to be permitted pursuant to 326 IAC 2-6.1 (Minor Source Operating Permit Program). The Minor Source Operating Permit (MSOP) application, M097-11976-00104, submitted on March 7, 2000 was replaced by Hanson with FESOP application, F097-19718-00104, submitted to IDEM, OAQ and OES on July 15, 2004.

326 IAC 2-8 (Federally Enforceable State Operating Permit Program) and (Prevention of Significant Deterioration (PSD) Requirements)

The source wide potential to emit non-fugitive PM10 is greater than one hundred (100.0) tons per year (crushing, screening, conveying and insignificant activities; see TSD Appendix A page 9 of 11). With the use of NESCO Systems water suppression systems as PM10 control for Plant # 522 and for Plant # 510, source wide PM10 emissions after controls are less than one hundred (100.0) tons per twelve (12) consecutive month period from combined total source wide non-fugitive operations (see TSD Appendix A page 9 of 11). Pursuant to 326 IAC 2-8-4, combined total non-fugitive PM10 emissions from Plant # 522, Plant # 510 and insignificant activities are limited to less than one hundred (100.0) tons per twelve (12) consecutive month period with compliance determined at the end of each month. Compliance with these conditions limits the potential to emit non-fugitive PM10 emissions to less than one hundred (100) tons per year and renders 326 IAC 2-2 (Prevention of Significant Deterioration (PSD) Requirements) and 326 IAC 2-7 (Part 70 Permit Program) not applicable to Hanson Aggregates Midwest, Inc. - Harding Street Quarry. The NESCO Systems water suppression systems shall be in operation at all times Plant # 522 and Plant # 510 is in operation in order to comply with the PM10 limit. In order to make this limit practically enforceable, an hourly PM10 limit is derived as follows: (99.9 tons per year of source wide limited potential to emit – 1.9 tons potential to emit from Plant # 510 – 7.2 tons potential to emit from 48 conveyors in Plant # 522 – 4.6 tons potential to emit from Insignificant Activity PM10 emissions) x 2000 lbs/ton/8760 hrs/yr = 19.7 lbs PM10/hr for combined non-fugitive emissions in Plant # 522 operations consisting of CR1A, CR1, CR2, CR3, CR4, CR6, CR5, S1, S2, S3, S4,S5, S6, S7, S8, S9, S10, BS1, BS2. Individual process operations in Plant # 522, excluding the 48 conveyors, shall each not exceed the following:

Plant # 522

Process	Combined Process Rate (tons per hour)	AP-42 emission factor (pounds per ton)	Control efficiency (%)	PM10 emissions after control (pounds per hour)	Allowable PM10 emissions (pounds per hour) (pursuant to 326 IAC 2-8)
CR1A, CR1	1500	0.0024	90	0.36	0.36 (each)
CR2, CR3, CR4, CR6	1500	0.0024	90	0.36	0.36 (each)
CR5	275	0.0024	90	0.07	1.82
S1, S2, S3, S4,S5, S6, S7, S8, S9, S10, BS1, BS2	1500	0.0087	90	1.31	1.31 (each)
Total				2.1	19.7

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 this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) 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 6.5-1-2(a) (Particulate Matter Limitations Except Lake County)

Sources or facilities located in Marion County which have the potential to emit greater than one hundred (100) tons per year of particulate or that have actual emissions greater than ten (10) tons per year and are not otherwise limited by 326 IAC 6.5-1-2(b) through (g) or 326 IAC 6.5-6 shall not exceed three hundredth (0.03) grains per dry standard cubic foot of exhaust. This source is subject to 326 IAC 6.5-1-2(a) because the potential to emit particulate is greater than one

hundred (100) tons per year. Mineral aggregate operations at this source are subject to 326 IAC 6.5-1-2(g).

326 IAC 6.5-1-2(g) (Particulate Emission Limitations; Mineral Aggregate Operations)

This source is subject to 326 IAC 6.5-1-2(g) because it has mineral aggregate operations located in Marion County with the potential to emit greater than one hundred (100) tons per year of particulate. Pursuant to 326 IAC 6.5-1-2(g) (Particulate Emission Limitations; Mineral Aggregate Operations), mineral aggregate operations (operations involving mining, blasting and crushing, sizing, storing and transporting of mineral materials) shall be limited to the following:

- (a) Mineral aggregate operations, where the process is totally enclosed, shall comply with the requirements set forth in 326 IAC 6.5-1-2(a) (Particulate Matter Limitations Except Lake County).
- (b) In addition, 326 IAC 2 (Permit Review Rules), 326 IAC 5-1 (Opacity Limitations), and 326 IAC 6-4 (Fugitive Dust Emissions) shall apply in all cases to mineral aggregate operations.

Mineral aggregate operations at Hanson Aggregates Midwest, Inc. - Harding Street Quarry are not totally enclosed. Therefore, the particulate emission limitation of three hundredths (0.03) grains per dry standard cubic foot of exhaust air established pursuant to 326 IAC 6.5-1-2(a) (Particulate Matter Limitations Except Lake County) does not apply to mineral aggregate operations at this source.

Pursuant to 326 IAC 6.5-1-2(g) (Particulate Emission Limitations; Mineral Aggregate Operations), Hanson Aggregates Midwest, Inc. - Harding Street Quarry shall comply with 326 IAC 2 (Permit Review Rules), 326 IAC 5-1 (Opacity Limitations), and 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 2 (Permit Review Rules), 326 IAC 5-1 and 326 IAC 6-4 shall apply in all cases to mineral aggregate operations. Hanson Aggregates Midwest, Inc. - Harding Street Quarry is seeking to comply with 326 IAC 6.5-1-2(g) and 326 IAC 2 (Permit Review Rules) with the submission of a Federally Enforceable State Operating Permit (FESOP) application pursuant to 326 IAC 2-8 (Federally Enforceable State Operating Permit Program).

326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)

Pursuant to 326 IAC 6-3-1(c), 326 IAC 6-3 shall not apply if an applicable particulate matter emission limitation established in 326 IAC 6.5-1 (Particulate Matter Limitations Except Lake County) or 326 IAC 12 (New Source Performance Standards) is more stringent than the particulate limitation established in 326 IAC 6-3. This source is subject to 326 IAC 6.5-1 (Particulate Matter Limitations Except Lake County) and 326 IAC 12 (New Source Performance Standards). However, IDEM, OAQ and OES have determined that the opacity limitations required under 40 CFR 60.670, Subpart OOO, 326 IAC 12 and 326 IAC 6.5-1 are not more stringent than the allowable mass particulate emission limitation that would be established pursuant to 326 IAC 6-3. Therefore, 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) does apply to this source.

Pursuant to 326 IAC 6-3-2(e)(3) (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from individual processes comprising the one (1) Limestone Crushing Plant, identified as Plant # 522 and the one (1) dredging and screening of sand and gravel operation, identified as Plant # 510 shall each not exceed the values shown in the following tables when operating at the process weight shown:

PLANT # 522

Process	Process Weight (tons per hour)	326 IAC 6-3-2 Allowable Emissions (pounds per hour)
R1	1500	82.9
R1A	1500	82.9
CR1A, CR1	1500	82.9 (each)
CR2, CR3, CR4, CR6	1500	82.9 (each)
CR5	275	62.0
S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, BS1, BS2	1500	82.9 (each)
C0, C1, C1A, C2, C2A, C3, C3A, C4 through C28, BC1 through BC16	1500	82.9 (each)

PLANT # 510

Process	Process Weight (tons per hour)	326 IAC 6-3-2 Allowable Emissions (pounds per hour)
SR1	450	67.7
SS1	450	67.7
SSC1	100	51.3
SSC2	200	58.5
SC1	450	67.7
SC2	50	44.6
SC3, SC4, SC5	100	51.3 (each)
SC6, SC7	200	58.5 (each)

The allowable particulate emission rate was calculated with the following equation:
 Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

When the process rate weight rate exceeds two hundred (200) tons per hour, the allowable emissions may exceed that calculated from the above equation provided the concentration of particulate in the discharge gases to the atmosphere is less than one-tenth (0.10) pound per thousand (1,000) pounds of gases.

326 IAC 6-4 (Fugitive Dust Emissions)

A source or sources generating fugitive dust shall be in violation of this rule (326 IAC 6-4) if any of the following criteria are violated:

- (a) A source or combination of sources which cause to exist fugitive dust concentrations greater than sixty-seven percent (67%) in excess of ambient upwind concentrations as determined by the following formula:

$$P = 100 (R-U)/U$$

P = Percentage increase
 R = Number of particles of fugitive dust measured at downward receptor site
 U = Number of particles of fugitive dust measured at upwind or background site

- (b) The fugitive dust is comprised of fifty percent (50%) or more respirable dust, then the percent increase of dust concentration in subdivision (1) of this section shall be modified as follows:

$$P_R = (1.5 \pm N) P$$

N = Fraction of fugitive dust that is respirable dust;
P_R = allowable percentage increase in dust concentration above background; and
P = no value greater than sixty-seven percent (67%).

- (c) The ground level ambient air concentrations exceed fifty (50) micrograms per cubic meter above background concentrations for a sixty (60) minute period.
- (d) If fugitive dust is visible crossing the boundary or property line of a source. This subdivision may be refuted by factual data expressed in subdivisions (a), (b) or (c) of this section.

Pursuant to 326 IAC 6-4-6 (Fugitive Dust Emissions: Exceptions), the following conditions will be considered as exceptions to this rule (326 IAC 6-4) and, therefore, not in violation:

- (a) Release of steam not in combination with any other gaseous or particulate pollutants unless the condensation from said steam creates a nuisance or hazard in the surrounding community.
- (b) Fugitive dust from publicly maintained unpaved thoroughfares where no nuisance or health hazard is created by its usage or where it is demonstrated to the commissioner that no means are available to finance the necessary road improvements immediately. A reasonable long-range schedule for necessary road improvements must be submitted to support the commissioner's granting such an exception.
- (c) Fugitive dust from construction or demolition where every reasonable precaution has been taken in minimizing fugitive dust emissions.
- (d) Fugitive dust generated from agricultural operations providing every reasonable precaution is taken to minimize emissions and providing operations are terminated if a severe health hazard is generated because of prevailing meteorological conditions.
- (e) Visible plumes from a stack or chimney which provide adequate dispersion and are in compliance with other applicable rules.
- (f) Fugitive dust from a source caused by adverse meteorological conditions.

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

326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations) applies to any source of fugitive particulate matter emissions located in nonattainment areas for particulate matter as designated by the Board which has potential fugitive particulate matter emissions of twenty-five (25) tons per year or more, including the following:

- (a) Primary nonattainment areas, to include the portion of Marion County bounded on the west by Keystone Avenue, on the north and east by Southeastern Avenue, and on the east and south by Center Township.
- (b) Secondary nonattainment areas as follows:
 - (1) The portions of Marion County included in Center and Wayne Townships, the portion of Decatur Township located east and north of I-465, and the portion of Perry Township located north of I-465.

Sources specified in 326 IAC 6-5-1(a) shall submit a fugitive particulate matter emissions control plan or request an exemption from the control plan within six (6) months following December 13, 1985. A control plan or request for an exemption from the control plan shall be included in all

permit applications and submitted to the Administrator by those sources specified in 326 IAC 6-5-1(b). Any control practice or measure that has been used to determine applicability or exemption of this rule (326 IAC 6-5) shall be incorporated into the source's operating permit.

Hanson Aggregates Midwest, Inc. - Harding Street Quarry submitted a revised fugitive dust plan, pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), on July 15, 2004. This plan is included as Attachment A of the FESOP, F097-19718-00104.

326 IAC 7 (Sulfur Dioxide Rules)

This source does not have the potential to emit Sulfur Dioxide of equal to or greater than twenty five (25) tons per year or ten (10) pounds per hour. This source is not specifically listed in 326 IAC 7-4-2 (Sulfur Dioxide Emission Limitations: Marion County). Therefore, this source is not subject to the provisions of 326 IAC 7 (Sulfur Dioxide Rules).

326 IAC 8 (Volatile Organic Compound Rules)

There are no provisions under 326 IAC 8 (Volatile Organic Compound Rules) for nonmetallic mineral processing plants or mineral aggregate operations (operations involving mining, blasting and crushing, sizing, storing and transporting of mineral materials). Therefore, nonmetallic mineral processing and mineral aggregate operations at Hanson Aggregates Midwest, Inc. - Harding Street Quarry are not subject to the provisions of 326 IAC 8 (Volatile Organic Compound Rules). This source, existing as of January 1, 1980, does not have the potential to emit volatile organic compounds equal to or greater than twenty five (25) tons per year. Therefore, this source is not subject to the provisions of 326 IAC 8-1-6 (General Provisions Relating to VOC Rules: General Reduction Requirements for New Facilities).

See State Rule Applicability - Individual Facilities for the discussion of 326 IAC 8-4-6 (Petroleum Sources: Gasoline Dispensing Facilities) applicability to the Insignificant Activity gasoline fuel transfer and dispensing operation.

326 IAC 9 (Carbon Monoxide Emission Rules)

There are no provisions under 326 IAC 9 (Carbon Monoxide Emission Rules) for nonmetallic mineral processing plants and/or mineral aggregate operations (operations involving mining, blasting and crushing, sizing, storing and transporting of mineral materials). Therefore, this source is not subject to the provisions of 326 IAC 9 (Carbon Monoxide Emission Rules).

326 IAC 10 (Nitrogen Oxide Rules)

There are no provisions under 326 IAC 10 (Nitrogen Oxide Rules) for nonmetallic mineral processing plants and/or mineral aggregate operations (operations involving mining, blasting and crushing, sizing, storing and transporting of mineral materials). This source has not opted in to 326 IAC 10 (Nitrogen Oxide Rules). Therefore, this source is not subject to the provisions of 326 IAC 10 (Nitrogen Oxide Rules).

326 IAC 11 (Emission Limitations for Specific Types of Operations)

Nonmetallic mineral processing plants and/or mineral aggregate operations (operations involving mining, blasting and crushing, sizing, storing and transporting of mineral materials) are not specifically identified in 326 IAC 11 (Emission Limitations for Specific Types of Operations). Therefore, 326 IAC 11 (Emission Limitations for Specific Types of Operations) does not apply to this source.

326 IAC 12 (New Source Performance Standards)

See discussion under Federal Rule Applicability section.

326 IAC 14 (Emission Standards for Hazardous Air Pollutants)

There are no provisions under 326 IAC 14 (and 40 CFR Part 61) for nonmetallic mineral processing plants and/or mineral aggregate operations (operations involving mining, blasting and crushing, sizing, storing and transporting of mineral materials). Therefore, this source is not subject to 326 IAC 14 (Emission Standards for Hazardous Air Pollutants).

326 IAC 20 (Hazardous Air Pollutants)

This source does not have the potential to emit any single Hazardous Air Pollutant (HAP) of equal to or greater than ten (10) tons per twelve (12) consecutive month period or equal to or greater than twenty five (25) tons of any combination of HAPs per twelve (12) consecutive month period. Therefore, this source is not subject to 326 IAC 20 (Hazardous Air Pollutants).

State Rule Applicability - Individual Facilities

Addition of 4248 jaw crusher to Plant # 522

326 IAC 2-2 (Prevention of Significant Deterioration (PSD) Requirements)

The installation of the 4248 jaw crusher (CR1) in 2003 did not increase the maximum throughput capacity for Plant # 522 of 1500 tons per hour nor is it a replacement crusher for the existing primary 5348 Cedar Rapids impact crusher (CR1A). The potential to emit PM from the 4248 jaw crusher (CR1) is 35.5 tons per year and the potential to emit PM10 from the 4248 jaw crusher (CR1) is 15.8 tons per year (see TSD Appendix A pages 2 and 3 of 11). This source is not an existing major source pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration (PSD) Requirements). Therefore, the addition of the 4248 jaw crusher (CR1) in 2003 was not a major modification. As a result, the provisions of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD) Requirements) do not apply to the installation of the 4248 jaw crusher (CR1).

326 IAC 12 (New Source Performance Standards)

A letter notifying the Office of Environmental Services (OES) of the installation of an additional primary crusher, a 4248 jaw crusher (CR1), for the existing Plant # 522 was received on August 7, 2002. The installation of the 4248 jaw crusher (CR1) does not increase the maximum throughput capacity of 1500 tons per hour for Plant # 522 and is not a replacement crusher for the existing primary 5348 Cedar Rapids impact crusher (CR1A).

On August 16, 2004, Hanson Aggregates Midwest, Inc. stated that the 4248 jaw crusher was reconstructed, whereby, prior to its installation and operation in 2003, replacement components costs for this crusher exceeded fifty percent (50%) of the fixed capital costs of an entirely new crusher. Therefore, pursuant to 40 CFR 60.15, the 4248 jaw crusher (CR1) is subject to the provisions of 40 CFR 60.670 Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants) because it is an affected facility that commenced construction, reconstruction, or modification after August 31, 1983.

The installation of the 4248 jaw crusher (CR1) is subject to 326 IAC 12 (New Source Performance Standards) and 40 CFR 60.670 Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants) because the crushing capacity of nonmetallic minerals exceeds 150 tons per hour and the crusher is not a replacement crusher.

Pursuant to 40 CFR 60.670 and 326 IAC 12, the 4248 jaw crusher (CR1) in Plant # 522 shall be limited to fifteen percent (15%) opacity. See an additional discussion under Federal Rule Applicability section.

Insignificant Activities - A gasoline fuel transfer and dispensing operation

326 IAC 8-4-6 (Petroleum Sources: Gasoline Dispensing Facilities)

Pursuant to 326 IAC 8-4-6 (Petroleum Sources: Gasoline Dispensing Facilities), a gasoline dispensing facility is any facility where gasoline is dispensed into motor vehicle fuel tanks or portable containers from a storage tank with a capacity of two thousand one hundred and seventy six (2,176) liters (575 gallons) or more. Diesel fuel and kerosene are not considered motor vehicle fuels.

Pursuant to 326 IAC 8-4-1(e) and (f) (Petroleum Sources: Applicability), 326 IAC 8-4-6 applies to any gasoline storage tank installed after July 1, 1989, at a gasoline dispensing facility unless such

facility has monthly gasoline throughput of less than ten thousand (10,000) gallons per month and was in existence prior to July 1, 1989. The gasoline dispensing facility at Hanson Aggregates Midwest, Inc. - Harding Street Quarry was in existence prior to July 1, 1989 and has monthly gasoline throughput of less than ten thousand (10,000) gallons per month. Therefore, 326 IAC 8-4-6 (Petroleum Sources: Gasoline Dispensing Facilities) does not apply to Hanson Aggregates Midwest, Inc. - Harding Street Quarry.

Insignificant Activities - Gasoline generators not exceeding 110 horsepower

326 IAC 6.5-1-2(a) (Particulate Matter Limitations Except Lake County)

Sources or facilities located in Marion County which have the potential to emit greater than one hundred (100) tons per year of particulate or that have actual emissions greater than ten (10) tons per year and are not otherwise limited by 326 IAC 6.5-1-2(b) through (g) or 326 IAC 6.5-6 shall not exceed three hundredth (0.03) grains per dry standard cubic foot of exhaust. This source has the unrestricted potential to emit particulate in excess of one hundred (100) tons per year. The gasoline generators are not otherwise limited by 326 IAC 6.5-1-2(b) through (g) or 326 IAC 6.5-6. Therefore, pursuant to 326 IAC 6.5-1-2(a) (Particulate Matter Limitations Except Lake County), particulate matter (PM) emissions from gasoline generators not exceeding 110 horsepower shall be limited to three hundredths (0.03) grains per dry standard cubic foot of exhaust air.

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 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.

Hanson Aggregates Midwest, Inc. has applicable compliance monitoring conditions as specified below:

Visible Emission Notations

- (a) Visible emission notations of R1A, CR1A, CR1, CR2, CR3, CR4, CR5, CR6, S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, BS1, BS2, C0, C1A, C2A, C3A, C22, C27, BC3, BC4, BC6, BC7, BC8, BC9, BC10, BC11, BC12, BC13 and BC16 shall be performed once per day during normal daylight operations when in operation. 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) If abnormal visible emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C – Response to Excursions or Exceedances. Observation of abnormal emissions that do not violate 326 IAC 6-4 (Fugitive Dust Emissions) or an applicable opacity limit is not a deviation from this permit.

Parametric Monitoring

The Permittee shall record the water flow rate of the NESCO water suppression system for Plant # 522 and for Plant # 510 at least once per day when in operation. When for any one reading, the water flow rate is below 3.0 gallons per minute, or a minimum established during the latest 40 CFR Part 60, Appendix A, Method 9 evaluation, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances of the FESOP. A reading that is below 3.0 gallons per minute is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

These monitoring conditions are necessary because the source needs to operate properly to ensure compliance with 326 IAC 6.5-1-2(g), 326 IAC 2-8 (Federally Enforceable State Operating Permit Program), 326 IAC 12 (New Source Performance Standards) and 40 CFR 60.670, Subpart 000.

Conclusion

This existing mining and quarrying operation and existing sand and gravel operation shall be subject to the conditions of the attached proposed FESOP **F097-19718-00104**.

Appendix A: Emission Calculations

**Plant wide Summary
of Certificate of Operation equipment
prior to FESOP Issuance**

Company Name: Hanson Aggregates Midwest, Inc.
Address City IN Zip: 4200 S. Harding, Indpls., IN 46217
Permit Number: F 097-19718-00104
Plant ID: 097-00104
Reviewer: M. Caraher
Date: 10/17/2005

From C.O. Issued 7/13/93 to 6/30/96	Unit	Status	Subject to NSPS 40 CFR 60.670 ?	TSP allowable from Permit *	
				lbs/hr	tons/yr
Certificate of Operation 104-01	Crushing Plant # 522 (1974)	On-site	Portions **	188.2	284.6
Certificate of Operation 104-02	Sand & Gravel # 510 (1956/1992)	On-site	No	18.7	20.2
Certificate of Operation 104-03	MARS Portable Crusher	retained by American Agg.	NA	NA	NA
Certificate of Operation 104-04	Crushing Plant # 552 (1991)	On-site	Portions **	113.2	171.1

From C.O. Issued 4/04/94 to 6/30/96	Unit	Status	Subject to NSPS 40 CFR 60.670 ?	PM allowable from Permit *	
				lbs/hr	tons/yr
Certificate of Operation 104-05	Greenville Portable Crusher	retained by American Agg.	NA	NA	NA

* Utilizing AP-42 & Ohio EPA emission factors including fugitive emissions prior to 1995 AP-42 Chapter 11 revisions (AP-42 is now updated as of 8/04)

** For Plant # 522, the affected facilities are 1) 2 Eljay 6x16 Screens 2) 1 Conveyor #21 and 3) 1 42x72 Syntron Feeder

** For Plant # 552, the affected facilities are 1) 9 Conveyors 2) Eljay Screen and 4) Boehringer Crusher

Appendix A: Emission Calculations

**Plant wide Summary
of Certificate of Operation equipment
prior to FESOP Issuance**

Company Name: Hanson Aggregates Midwest, Inc.
Address City IN Zip: 4200 S. Harding, Indpls., IN 46217
Permit Number: F 097-19718-00104
Plant ID: 097-00104
Reviewer: M. Caraher
Date: 10/17/2005

From C.O. Issued 7/13/93 to 6/30/96	Unit	Status	Subject to NSPS 40 CFR 60.670 ?	TSP allowable from Permit *	
				lbs/hr	tons/yr
Certificate of Operation 104-01	Crushing Plant # 522 (1974)	On-site	Portions **	188.2	284.6
Certificate of Operation 104-02	Sand & Gravel # 510 (1956/1992)	On-site	No	18.7	20.2
Certificate of Operation 104-03	MARS Portable Crusher	retained by American Agg.	NA	NA	NA
Certificate of Operation 104-04	Crushing Plant # 552 (1991)	On-site	Portions **	113.2	171.1

From C.O. Issued 4/04/94 to 6/30/96	Unit	Status	Subject to NSPS 40 CFR 60.670 ?	PM allowable from Permit *	
				lbs/hr	tons/yr
Certificate of Operation 104-05	Greenville Portable Crusher	retained by American Agg.	NA	NA	NA

* Utilizing AP-42 & Ohio EPA emission factors including fugitive emissions prior to 1995 AP-42 Chapter 11 revisions (AP-42 is now updated as of 8/04)

** For Plant # 522, the affected facilities are 1) 2 Eljay 6x16 Screens 2) 1 Conveyor #21 and 3) 1 42x72 Syntron Feeder

** For Plant # 552, the affected facilities are 1) 9 Conveyors 2) Eljay Screen and 4) Boehringer Crusher

**Appendix A: Emission Calculations
Source Wide Potential to Emit**

Company Name: Hanson Aggregates Midwest, Inc.
Address City IN Zip: 4200 S. Harding, Indpls., IN 46217
Permit Number: F097-19718-00104
Plt ID: 097-00104
Reviewer: M. Caraher
Date: 02/08/07

Source Wide Potential to Emit (tons per year)							
Process		PM	PM10	SO ₂	NO _x	VOC	CO
Plant # 522	non-fugitive	261.42	98.81	0.00	0.00	0.00	0.00
	total	3149.60	769.34	0.00	0.00	0.00	0.00
Plant # 510	non-fugitive	5.52	1.93	0.00	0.00	0.00	0.00
	total	7.10	2.72	0.00	0.00	0.00	0.00
Drilling & Mining	total	0.00	0.00	0.00	0.00	0.00	0.00
Insignificant Activities	non-fugitive	4.60	4.60	4.60	10.00	15.00	4.60
	total	4.60	4.60	4.60	10.00	15.00	4.60
Total	non-fugitive	271.54	105.34	4.60	10.00	15.00	4.60
	total	3161.30	776.66	4.60	10.00	15.00	4.60

Notes:

Non-fugitive = crushing, screening, conveying

Total = non-fugitive + fugitive = crushing, screening, conveying, loading, storage, transport

Plant # 522 total includes source wide fugitive emissions before controls, i.e. the use of water

Plant # 510 PTE is emissions after integral controls

Source Wide Emissions After Controls (tons per year)							
Process		PM	PM10	SO ₂	NO _x	VOC	CO
Plant # 522	non-fugitive	26.14	9.88	0.00	0.00	0.00	0.00
	total	1470.23	345.15	0.00	0.00	0.00	0.00
Plant # 510	non-fugitive	5.52	1.93	0.00	0.00	0.00	0.00
	total	7.10	2.72	0.00	0.00	0.00	0.00
Drilling & Mining	total	0.00	0.00	0.00	0.00	0.00	0.00
Insignificant Activities	non-fugitive	4.60	4.60	4.60	10.00	15.00	4.60
	total	4.60	4.60	4.60	10.00	15.00	4.60
Total	non-fugitive	36.26	16.41	4.60	10.00	15.00	4.60
	total	1481.93	352.47	4.60	10.00	15.00	4.60

Notes:

Non-fugitive = crushing, screening, conveying

Total = non-fugitive + fugitive = crushing, screening, conveying, loading, storage, transport

Plant # 522 total includes source wide fugitive emissions after controls, i.e. the use of water

Plant # 510 PTE is emissions after integral controls

Appendix A: Emission Calculations
Crushed Stone Processing

Company Name: Hanson Aggregates Midwest, Inc.
Address City IN Zip: 4200 South Harding Street, Indianapolis, IN 46217
Permit #: F097-19718-00104
Plt ID: 097-00104
Reviewer: M. Caraher
Date: 05/13/05

Process ID	Description	Throughput Rate (ton/hr)	Throughput Rate (tons/yr)	Subpart OOO apply? (Yes/No)	Date of NSPS VE's	VE Conducted by?
R1	Receiving Hopper	1500	13,140,000	No		
R1A	Receiving Hopper	1500	13,140,000	Yes	Oct-04 & May-05	Hanson
CR1A	Primary CR Impactor	1500	13,140,000	No		
CR1	Primary CR Jaw Crusher	1500	13,140,000	Yes	Oct-04 & May-05	Hanson
CR2	Boehringher Impactor Secondary	600	5,256,000	Yes	Dec-93	American Aggregates
CR3	5 1/2 Std Cone Crusher Secondary	300	2,628,000	No		
CR4	VSI Crusher Secondary	500	4,380,000	Yes	Dec-97	GME Con.
CR5	5 1/2 Shorthead Cone Tertiary	275	2,409,000	No		
CR6	4 1/4 Shorthead Cone Secondary	150	1,314,000	No		
S1	Eljay 6x16 flat Scalping Screen	750	6,570,000	Yes	Dec-93	American Aggregates
S2	Eljay 6x16 flat Scalping Screen	750	6,570,000	Yes	Dec-93	American Aggregates
S3	Deister 6x16 Wet Fines Screen	400	3,504,000	Yes	Dec-93	American Aggregates
S4	Deister 6x16 Wet Fines Screen	400	3,504,000	Yes	Dec-93	American Aggregates
S5	Eljay 6x16 flat Scalping Screen	385	3,372,600	Yes	Dec-97	GME Con.
S6	Eljay 6x16 flat Scalping Screen	385	3,372,600	Yes	Dec-97	GME Con.
S7	Deister 6x12 High Vibe Screen	250	2,190,000	No		
S8	Deister 6x12 Wet Fines Screen	450	3,942,000	No		
S9	Deister 6x12 Wet Fines Screen	450	3,942,000	No		
S10	Deister 6x12 Wet Fines Screen	450	3,942,000	Yes	Dec-93	American Aggregates
BS1	Deister 6x16 Wet Fines Screen	1500	13,140,000	No		
BS2	Deister 6x20 Scalping Screen	1500	13,140,000	Yes	Dec-93	American Aggregates
C0	Primary to C1	1500	13,140,000	Yes	Oct-04 & May-05	Hanson
C1	Primary to C2	1500	13,140,000	No		
C1A	Primary to C2A	1500	13,140,000	Yes	Oct-04 & May-05	Hanson
C2	C1 or C2A to surge or C3	1500	13,140,000	No		
C2A	C1A to C2 or C3A	1500	13,140,000	Yes	Oct-04 & May-05	Hanson
C3	C2 to A surge or D surge bin	1500	13,140,000	No		
C3A	C2A to D stone surge	1500	13,140,000	Yes	Oct-04 & May-05	Hanson
C4	Surge to C5	1500	13,140,000	No		
C5	C4 to S1 & S2	1500	13,140,000	No		
C6	S1 & S2 to RipRap pile	400	3,504,000	No		
C7	CR3 & CR4 to C5	800	7,008,000	No		
C8	S1 & S2 to CR4	500	4,380,000	No		
C9	S3 & S4 to S9	1500	13,140,000	No		
C10	S9 to # 8 pile	555	4,861,800	No		
C11	S3 & S4 to C13	125	1,095,000	No		
C12	S5 & S6 to C13	125	1,095,000	No		
C13	S5 & S6 to S10	150	1,314,000	No		
C14	S10 to # 9 or # 11 pile	150	1,314,000	No		
C15	S1 & S2 to C16	275	2,409,000	No		
C16	C15 to # 2 or # 4 pile	275	2,409,000	No		
C17	S1 & S2 to C18	275	2,409,000	No		
C18	C17 to CR5	275	2,409,000	No		
C19	CR4 & CR5 to C20	775	6,789,000	No		
C20	C19 to S5 & S6	775	6,789,000	No		
C21	S5 & S6 to S7	170	1,489,200	No		
C22	S7 to aglime pile	170	1,489,200	Yes	Dec-93	American Aggregates
C23	S7 to C24	170	1,489,200	No		
C24	S2, S4 & C23 to S11	350	3,066,000	No		
C25	S11 to # 11 pile	180	1,576,800	No		
C26	S11 to # 12 pile	100	876,000	No		
C27	Sand Screw to C28	100	876,000	Yes	Dec-97	GME Con.
C28	C27 to # 24 Sand pile	100	876,000	No		
BC1	D surge bin to BC2	1500	13,140,000	No		
BC2	BC1 to D surge	1500	13,140,000	No		
BC3	D surge to BC4	1500	13,140,000	Yes	Dec-97	GME Con.
BC4	BC3 to BS1	1500	13,140,000	Yes	Dec-97	GME Con.
BC5	BS1 to BC 4 or BC12	600	5,256,000	No		
BC6	BS1 to BC7	1100	9,636,000	Yes	Dec-97	GME Con.
BC7	BC6 to BC8	1200	10,512,000	Yes	Dec-97	GME Con.
BC8	BC7 to # 53 pile	1200	10,512,000	Yes	Dec-97	GME Con.
BC9	BS1 to BC10	100	876,000	Yes	Dec-97	GME Con.
BC10	BC9 to # 2 pile	100	876,000	Yes	Dec-97	GME Con.
BC11	Sand Hopper to BC7	100	876,000	Yes	Dec-97	GME Con.
BC12	BC5 to BS2	600	5,256,000	Yes	Dec-97	GME Con.
BC13	CR6 to BC12	150	1,314,000	Yes	Dec-97	GME Con.
BC14	BS2 to BC15	300	2,628,000	No		
BC15	BC15 to # 78 pile	300	2,628,000	No		
BC16	BS2 to BC7	300	2,628,000	Yes	Dec-97	GME Con.

Throughput rate in tons/yr = tons/hr x 8760 hrs/yr

Applicability of NSPS Subpart OOO based on info submitted by the source in application and with update info submitted on 8/16/04

**Appendix A: Emissions Calculations
Sand and Gravel Plants**

Company Name: Hanson Aggregates Midwest, Inc.
Address City IN Zip: 4200 South Harding Street, Indianapolis, IN 46217
Permit #: F097-19718-00104
Plt ID: 097-00104
Reviewer: M. Caraher
Date: 08/17/04

Process ID	Description	Throughput Rate (ton/hr)	Throughput Rate (tons/yr)	Subpart OOO apply? (Yes/No)
SR1	Receiving Hopper	500	4,380,000	No
SS1	6X20 Wet Scalping Screen	450	3,942,000	No
SSC1	36X18' Single Screw (Wet)	100	876,000	No
SSC2	54X34' Double Screw (Wet)	200	1,752,000	No
SC1	SR1 to Slurry Box	450	3,942,000	No
SC2	SS1 to 1" Oversize Pile	50	438,000	No
SC3	SS1 to #8 Gravel Pile	100	876,000	No
SC4	SS1 to Pea Gravel Pile	100	876,000	No
SC5	SSC1 to Mason/Fill Sand Pile	100	876,000	No
SC6	SSC2 to SC7	200	1,752,000	No
SC7	SC6 to Concrete Sand Pile	200	1,752,000	No

Throughput rate in tons/yr = tons/hr x 8760 hrs/yr

Applicability of NSPS Subpart OOO based on info received 8/16/04 from source where no crushing or grinding of nonmetallic minerals occurs and no material is transferred to or from plant # 522.