

Certified Mail No.: 7007 0710 0005 3965 5971



DATE: November 13, 2008

TO: Interested Parties / Applicant

RE: Coreslab Structures (Indianapolis) Inc. / M097-24975-00542

FROM: Richard Wise, Administrator  
Office of Environmental Services

## 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 501, 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](http://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](http://indygov.org/dpw)



# New Source Construction and Minor Source Operating Permit

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

**Coreslab Structures (Indianapolis) Inc.  
1030 S. Kitley Avenue  
Indianapolis, Indiana 46203**

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

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-5.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

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 MSOP under 326 IAC 2-6.1.

Operation Permit No.: M097-24975-00542	
Issued by:	Issuance Date: 11-13-2008
ORIGINAL SIGNED BY	Expiration Date: 11-13-2013
Richard Wise, Administrator Office of Environmental Services	



Air Quality Hotline: 317-327-4AIR | [knozone.com](http://knozone.com)

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

2700 Belmont Avenue  
Indianapolis, IN 46221

317-327-2234  
Fax 327-2274  
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[indygov.org/dpw](http://indygov.org/dpw)

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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 Office of Environmental Services (OES). The information describing the source contained in conditions A.1 and A.2 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 2-5.1-3(c)][326 IAC 2-6.1-4(a)]

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The Permittee owns and operates a stationary pre-cast concrete structure plant.

Source Address:	1030 S. Kitley Avenue, Indianapolis, Indiana 46203
Mailing Address:	1030 S. Kitley Avenue, Indianapolis, IN 46203
General Source Phone Number:	317-353-2118
SIC Code:	3272
County Location:	Marion
Source Location Status:	Nonattainment for PM2.5 standard Attainment for all other criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD and Nonattainment NSR Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

### A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) One (1) concrete batching operation, identified as Emission Unit CBO-1, constructed in 2007, with a maximum production capacity of 94 tons per hour of concrete, consisting of the following equipment:
  - (1) Two (2) raw material (aggregate) receiving hoppers, identified as Emission Unit H-1 and Emission Unit H-2, constructed in 2007, with a throughput capacity of 30 tons per hour each (they can only operate one at a time since there is only one conveyor).
  - (2) Raw material storage, consisting of the following:
    - (A) Six (6) storage bins, identified as Emission Unit B-1, B-2, B-3, B-4, B-5 and B-6, constructed in 2007, with a capacity of 50 tons each.
    - (B) Two (2) storage bins, identified as Emission Unit B-7 and B-8, constructed in 2007, with a capacity of 25 tons each.
  - (3) Two (2) Aggregate Conveyors, one for transferring aggregate from the receiving hoppers to the storage bins, identified as Emission Unit RC-1, and one for transferring aggregate from storage to the mixer, identified as Emission Unit LC-1, both constructed in 2007, with a throughput capacity of 300 tons per hour each, covered to reduce particulate emissions.
  - (4) Cement storage silos, as follows:
    - (A) Two (2) storage silos, identified as Emission Unit CS-1 and CS-2, with a storage capacity of 700 barrels each (132 tons), each controlled by an integral baghouse, identified as BH-1 and BH-2.
    - (B) One (1) storage silo, identified as Emission Unit CS-3, with a storage capacity of 270 barrels (51 tons), controlled by an integral baghouse, identified as BH-3.

- (5) Two (2) concrete mixing drums, identified as Emission Unit M-1 and M-2, with a combined throughput capacity of 94 tons per hour of concrete (they can only operate one at a time since there is only one conveyor), with particulate emissions from each controlled by a separate fabric filter baghouse, identified BH-4 and BH-5.
- (b) Combustion related activities, including the following:
  - (1) Propane or liquified petroleum gas, or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) Btu per hour.
  - (2) Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) Btu per hour and firing fuel containing less than five-tenths percent (0.5%) sulfur by weight.
- (c) Equipment powered by diesel fuel fired or natural gas fired internal combustion engines of capacity equal to or less than five hundred thousand (500,000) Btu/hour, except where total capacity of equipment operated by one stationary source exceeds two million (2,000,000) Btu/hour.
- (d) Fuel dispensing activities, including the following:
  - (1) A gasoline fuel transfer dispensing operation handling less than or equal to one thousand three hundred (1,300) gallons per day and filling storage tanks having a capacity equal to or less than ten thousand five hundred (10,500) gallons. Such storage tanks may be in a fixed location or on mobile equipment.
  - (2) A petroleum fuel, other than gasoline, dispensing facility, having a storage tank capacity less than or equal to ten thousand five hundred (10,500) gallons, and dispensing three thousand five hundred (3,500) gallons per day or less.
- (e) The following VOC and HAP storage containers:
  - (1) Storage tanks with capacity less than or equal to one thousand (1,000) gallons and annual throughputs less than twelve thousand (12,000) gallons.
  - (2) Vessels storing the following:
    - (i) Hydraulic oils.
    - (ii) Lubricating oils.
- (f) The following equipment related to manufacturing activities not resulting in the emission of HAPs:
  - (1) Cutting torches.
  - (2) Welding equipment.
- (g) Repair activities, including the following:
  - (1) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (h) One (1) sandblasting operation, identified as Emission Unit SB-1, using Starblast (manufactured by DuPont Titanium Technologies) as media and utilizing one (1) 3/8" nozzle at a maximum pressure of 100 psig, with emissions considered fugitive.

## **SECTION B GENERAL CONDITIONS**

### **B.1 Definitions [326 IAC 2-1.1-1]**

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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 2-1.1-1) shall prevail.

### **B.2 Revocation of Permits [326 IAC 2-1.1-9(5)]**

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Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the Commissioner may revoke this permit if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

### **B.3 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]**

- 
- (a) This permit, M097-24975-00542, 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.4 Term of Conditions [326 IAC 2-1.1-9.5]**

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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.5 Enforceability**

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- (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.6 Severability**

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

### **B.7 Property Rights or Exclusive Privilege**

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

### **B.8 Duty to Provide Information**

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- (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 an "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, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

**B.9 Certification**

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- (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 Notification [326 IAC 2-6.1-5(a)(5)]**

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- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.
- (b) The annual notice shall be submitted in the format attached no later than March 1 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, IN 46204-2251  
  
and  
  
Indianapolis Office of Environmental Services  
Air Quality Management Section  
2700 South Belmont Avenue  
Indianapolis Indiana 46221-2097
- (c) The notification 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.

**B.11 Preventive Maintenance Plan [326 IAC 1-6-3]**

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- (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 Quality Management Section  
2700 South Belmont Avenue  
Indianapolis Indiana 46221-2097

The PMP extension notification does not require the certification by an "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 an "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 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to M097-24975-00542 and issued pursuant to permitting programs approved into the state implementation plan have been either:
  - (1) incorporated as originally stated,
  - (2) revised, or
  - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

B.13 Termination of Right to Operate [326 IAC 2-6.1-7(a)]

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 one hundred twenty (120) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

B.14 Permit Renewal [326 IAC 2-6.1-7]

- (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 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require the certification by an "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, Indiana 46204-2251

and

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

- (b) A timely renewal application is one that is:
- (1) Submitted at least one hundred twenty (120) days 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 2-6.1 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 being needed to process the application.

**B.15 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]**

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- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 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 Quality Management Section  
2700 South Belmont Avenue  
Indianapolis Indiana 46221-2097

Any such application shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

**B.16 Source Modification Requirement**

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

**B.17 Inspection and Entry**

[326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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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, U.S. EPA, and OES or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a permitted 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.18 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]

- (a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 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 Quality Management Section  
2700 South Belmont Avenue  
Indianapolis Indiana 46221-2097

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

- (c) The Permittee may implement notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

B.19 Annual Fee Payment [326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ and OES within thirty (30) calendar days of receipt of a billing.
- (b) 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.20 Credible Evidence [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

### Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

#### C.1 Permit Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (Revocation of Permits), this permit to construct and operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
- (e) For any cause which establishes in the judgment of IDEM and OES, the fact that continuance of this permit is not consistent with purposes of this article.

#### 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]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 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 April 25, 2008. The plan is included as Attachment A.

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

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

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

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

All required notifications shall be submitted to:

Indiana Department of Environmental Management  
Asbestos Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-52 IGCN 1003  
Indianapolis, Indiana 46204-2251

and

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

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

- (e) Procedures for Asbestos Emission Control  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

- (f) Demolition and Renovation  
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) Indiana Licensed Asbestos Inspector  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

### **Testing Requirements [326 IAC 2-6.1-5(a)(2)]**

#### **C.9 Performance Testing [326 IAC 3-6]**

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- (a) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval. 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.

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 Quality Management Section  
2700 South Belmont Avenue  
Indianapolis Indiana 46221-2097

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

- (b) The Permittee shall notify IDEM, OAQ 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 an "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, 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.10 Compliance Requirements [326 IAC 2-1.1-11]**

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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 2-6.1-5(a)(2)]**

### **C.11 Compliance Monitoring [326 IAC 2-1.1-11]**

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Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

### **C.12 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]**

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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.13 Instrument Specifications [326 IAC 2-1.1-11]**

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- (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 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**

### **C.14 Response to Excursions or Exceedances**

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- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (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; and/or
  - (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.15 Actions Related to Noncompliance Demonstrated by a Stack Test**

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- (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 that retesting in one hundred twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves 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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

**Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]**

**C.16 Malfunctions Report [326 IAC 1-6-2]**

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Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.
- (b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).
- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.  
[326 IAC 1-2-39]

**C.17 General Record Keeping Requirements [326 IAC 2-6.1-5]**

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- (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 Commissioner or OES makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner or OES 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 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

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- (a) Reports required by conditions in Section D of this permit shall be submitted to:

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

and

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

- (b) 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.
- (c) 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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) 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.

## SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

- (a) One (1) concrete batching operation, identified as Emission Unit CBO-1, constructed in 2007, with a maximum production capacity of 94 tons per hour of concrete, consisting of the following equipment:
- (1) Two (2) raw material (aggregate) receiving hoppers, identified as Emission Unit H-1 and Emission Unit H-2, constructed in 2007, with a throughput capacity of 30 tons per hour each (they can only operate one at a time since there is only one conveyor).
  - (2) Raw material storage, consisting of the following:
    - (A) Six (6) storage bins, identified as Emission Unit B-1, B-2, B-3, B-4, B-5 and B-6, constructed in 2007, with a capacity of 50 tons each.
    - (B) Two (2) storage bins, identified as Emission Unit B-7 and B-8, constructed in 2007, with a capacity of 25 tons each.
  - (3) Two (2) Aggregate Conveyors, one for transferring aggregate from the receiving hoppers to the storage bins, identified as Emission Unit RC-1, and one for transferring aggregate from storage to the mixer, identified as Emission Unit LC-1, both constructed in 2007, with a throughput capacity of 300 tons per hour each, covered to reduce particulate emissions.
  - (4) Cement receiving, transfer and storage operations, as follows:
    - (A) Two (2) storage silos, identified as Emission Unit CS-1 and CS-2, with a storage capacity of 700 barrels each (132 tons), each controlled by an integral baghouse, identified as BH-1 and BH-2.
    - (B) One (1) storage silo, identified as Emission Unit CS-3, with a storage capacity of 270 barrels (51 tons), controlled by an integral baghouse, identified as BH-3.
  - (5) Two (2) concrete mixing drums, identified as Emission Unit M-1 and M-2, with a combined throughput capacity of 94 tons per hour of concrete (they can only operate one at a time since there is only one conveyor), with particulate emissions from each controlled by a separate fabric filter baghouse, identified BH-4 and BH-5.

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

### Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

#### D.1.1 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 (PM) emissions from the concrete batching operation (CBO-1), which includes the raw material (aggregate) receiving hoppers, the raw material storage bins, aggregate conveyors, cement storage silos and the concrete mixing drums, shall not exceed three hundredths (0.03) grains per dry standard cubic foot of exhaust air.

#### D.1.2 Particulate Matter Limitations

The baghouses (BH-1, BH-2 and BH-3) shall be in operation at all times that the cement storage silos (Emission Unit CS-1, CS-2 and CS-3) are in operation.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
and  
CITY OF INDIANAPOLIS  
OFFICE of ENVIRONMENTAL SERVICES  
  
MINOR SOURCE OPERATING PERMIT  
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

<b>Company Name:</b>	Coreslab Structures (Indianapolis) Inc.
<b>Address:</b>	1030 S. Kitley Avenue
<b>City:</b>	Indianapolis, Indiana 46203
<b>Phone #:</b>	317-353-2118
<b>MSOP #:</b>	M097-24975-00542

I hereby certify that Coreslab Structures (Indianapolis) Inc.  still in operation.  
 no longer in operation.  
I hereby certify that Coreslab Structures (Indianapolis) Inc.  in compliance with the requirements of MSOP M097-24975-00542.  
 not in compliance with the requirements of MSOP M097-24975-00542.

<b>Authorized Individual (typed):</b>
<b>Title:</b>
<b>Signature:</b>
<b>Date:</b>

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

<b>Noncompliance:</b>

### MALFUNCTION REPORT

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
FAX NUMBER - 317 233-6865  
and  
CITY OF INDIANAPOLIS  
OFFICE OF ENVIRONMENTAL SERVICES  
FAX NUMBER - 317 327-2274**

**This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6  
and to qualify for the exemption under 326 IAC 1-6-4.**

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?\_\_\_\_\_, 25 TONS/YEAR SULFUR DIOXIDE ?\_\_\_\_\_, 25 TONS/YEAR NITROGEN OXIDES?\_\_\_\_\_, 25 TONS/YEAR VOC ?\_\_\_\_\_, 25 TONS/YEAR HYDROGEN SULFIDE ?\_\_\_\_\_, 25 TONS/YEAR TOTAL REDUCED SULFUR ?\_\_\_\_\_, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?\_\_\_\_\_, 25 TONS/YEAR FLUORIDES ?\_\_\_\_\_, 100 TONS/YEAR CARBON MONOXIDE ?\_\_\_\_\_, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?\_\_\_\_\_, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?\_\_\_\_\_, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?\_\_\_\_\_, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?\_\_\_\_\_. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION \_\_\_\_\_.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC \_\_\_\_\_ OR, PERMIT CONDITION # \_\_\_\_\_ AND/OR PERMIT LIMIT OF \_\_\_\_\_

THIS INCIDENT MEETS THE DEFINITION OF "MALFUNCTION" AS LISTED ON REVERSE SIDE ? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ? Y N

COMPANY: \_\_\_\_\_ PHONE NO. ( ) \_\_\_\_\_  
LOCATION: (CITY AND COUNTY) \_\_\_\_\_  
PERMIT NO. \_\_\_\_\_ AFS PLANT ID: \_\_\_\_\_ AFS POINT ID: \_\_\_\_\_ INSP: \_\_\_\_\_  
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON: \_\_\_\_\_

DATE/TIME MALFUNCTION STARTED: \_\_\_\_/\_\_\_\_/20\_\_\_\_ \_\_\_\_\_ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: \_\_\_\_\_

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE \_\_\_\_/\_\_\_\_/20\_\_\_\_ \_\_\_\_\_ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER: \_\_\_\_\_

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: \_\_\_\_\_

MEASURES TAKEN TO MINIMIZE EMISSIONS: \_\_\_\_\_

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL\* SERVICES: \_\_\_\_\_

CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: \_\_\_\_\_

CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: \_\_\_\_\_

INTERIM CONTROL MEASURES: (IF APPLICABLE) \_\_\_\_\_

MALFUNCTION REPORTED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_  
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

\*SEE PAGE 2

**Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.**

**326 IAC 1-6-1 Applicability of rule**

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

**326 IAC 1-2-39 "Malfunction" definition**

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

**\*Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

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# **ATTACHMENT A**

## **Fugitive Dust Plan**



**326 IAC 6-5-5 Contents of Control Plans**

Authority: IC 13-1-1-4; IC 13-7-7

Affected: IC 13-1-1

Sec. 5. (a) The fugitive particulate matter emission control plan shall be in writing and shall include, at a minimum, the following information:

(1) *Name and address of the source:*

Coreslab Structures (Indianapolis), Inc.  
1030 S. Kitley Ave.  
Indianapolis, IN 46203

(2) *Name and address of the owner or operator responsible for the execution of the control plan:*

Tim Meckes  
1030 S. Kitley Ave.  
Indianapolis, IN 46203

(3) *Identification of all processes, operations, and areas which have the potential to emit fugitive particulate matter in accordance with 326 IAC 6-5-4:*

- Batch Plant
- Portable Sand Blasting Operation
- Yard Roads

(4) *A map of the source showing aggregate pile areas, access areas around the aggregate pile, unpaved roads, paved roads, parking lots and location of conveyor and transfer points, etc.:*

- Map Enclosed

(5) *The number and mix of vehicular activity occurring on paved roads, unpaved roads, and parking lots:*

- Eighty trips daily with semi-tractor and trailer
- Forty trips daily with forklifts and pick up trucks
- Forty trips daily with concrete trucks
- Ten trips daily with dump trucks
- All of the above occur over an area covering approximately 10 acres

(6) *Type and quantity of material handled:*

- No. 2 & No. 9 Limestone
- Riversand
- Various types of aggregate
- Bulk cement

1030 SOUTH KITLEY AVENUE • INDIANAPOLIS, INDIANA 46203 • (317) 353-2118 • FAX (317) 357-6012

ATLANTA • AUSTIN • BURLINGTON, ONTARIO • COLUMBIA, SC • LOS ANGELES • MIAMI • OKLAHOMA CITY • ORLANDO • PHOENIX • STONEY CREEK, ONTARIO • TAMPA  
THOMASTON, CT • ALBUQUERQUE • INDIANAPOLIS • KANSAS CITY, KS • MARSHALL, MO • OMAHA • TULSA

*(7) Equipment used to maintain aggregate piles:*

- Front end loader
- Dump trucks

*(8) A description of the measures to be implemented to control fugitive particulate matter emissions resulting from emission points identified in subdivision (3):*

- Concrete trucks and/or water truck will spread water over driveway areas periodically throughout the day
- Sweep paved roads and parking lot when necessary

*(9) A specification of the dust suppressant material, such as oil or chemical including the estimated frequency of application rates and concentrations:*

- Water will be spread on yard and drive lanes up to three times a day, depending on conditions.

*(10) A specification of the particulate matter collection equipment used as a fugitive particulate matter emission control measure:*

- See Attached

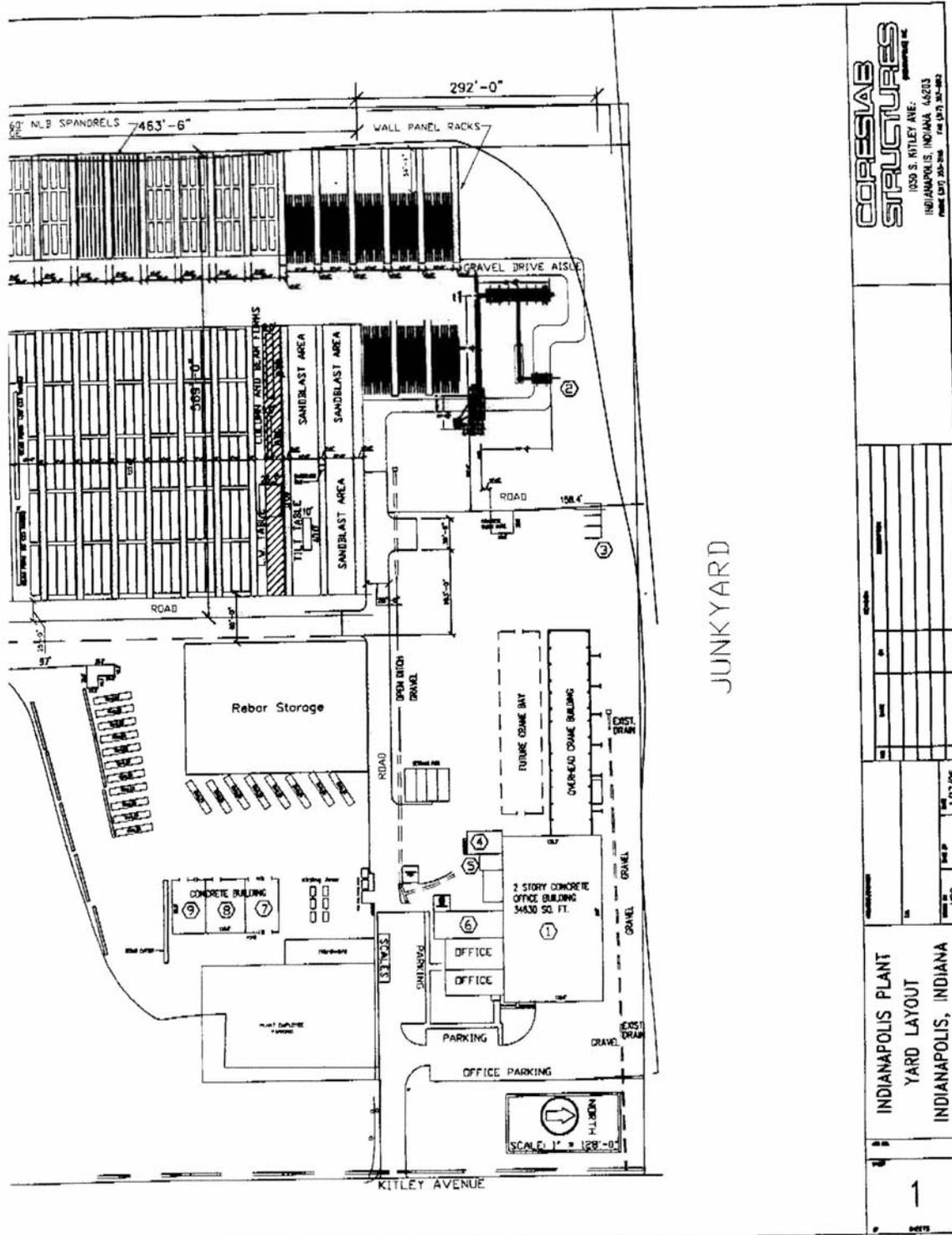
*(11) A schedule of compliance with the provisions of the control plan. Such schedule shall specify the amount of time the source requires to award any necessary contracts, commence and complete construction, installation, or modification of the fugitive particulate matter emission control measures:*

- All measures in place – (bag houses on when mixing, conveyors covered, bulk of sand and aggregate stored inside)

*(12) Other relevant data that may be requested by the commissioner, to evaluate the effectiveness of the control plan:*

- See attached logs



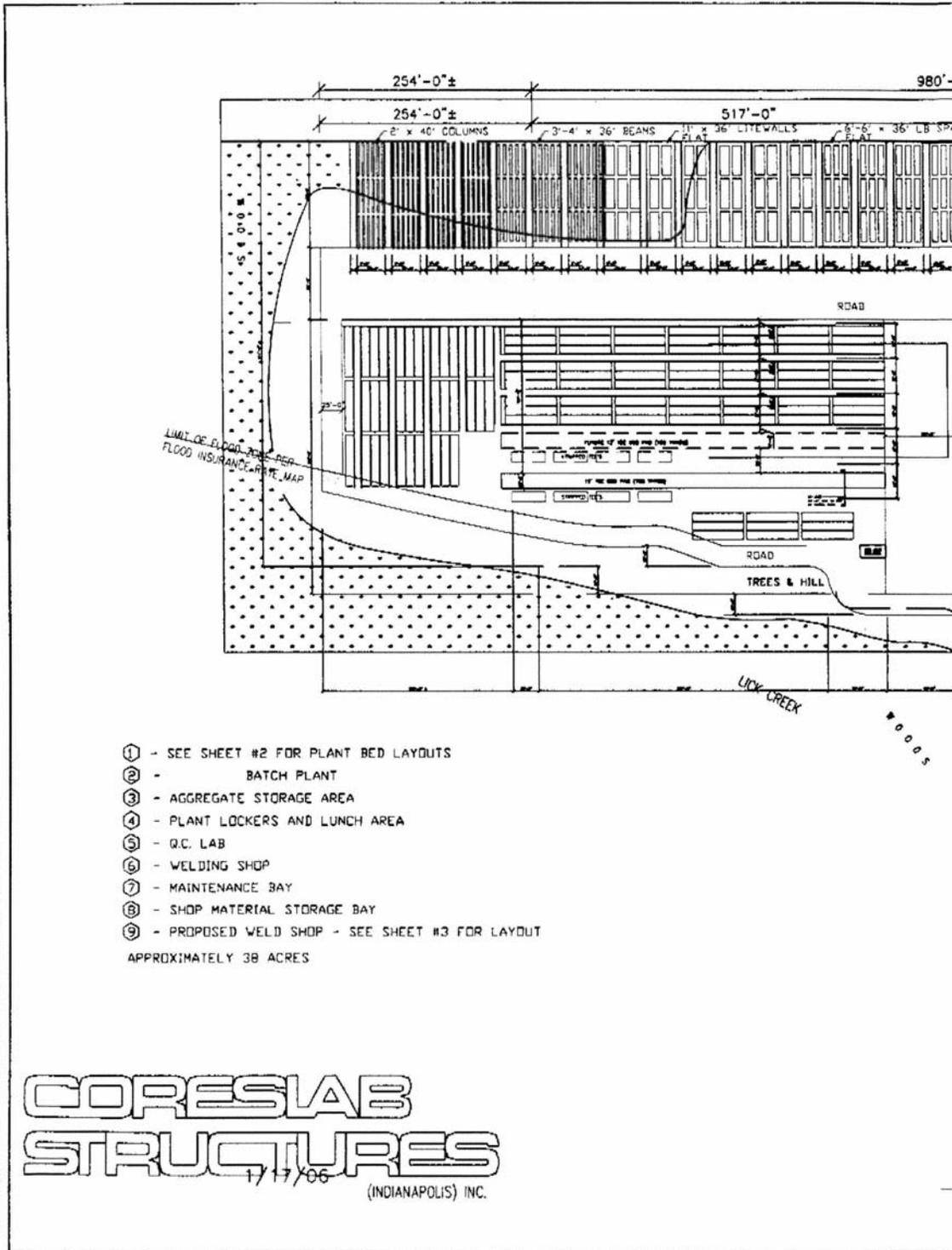


**CORESLAB STRUCTURES**  
 1050 S. KITLEY AVE.  
 INDIANAPOLIS, INDIANA 46203  
 PHONE (317) 362-2888 FAX (317) 362-8462



INDIANAPOLIS PLANT  
 YARD LAYOUT  
 INDIANAPOLIS, INDIANA

1  
 SHEET



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

Technical Support Document (TSD) for a SSOA Transitioning to a  
Minor Source Operating Permit (MSOP) with New Source Construction

**Source Description and Location**

**Source Name:** Coreslab Structures (Indianapolis) Inc.  
**Source Location:** 1030 S. Kitley Avenue, Indianapolis, Indiana, 46203  
**County:** Marion  
**SIC Code:** 3272  
**Operation Permit No.:** M097-24975-00542  
**Permit Reviewer:** Jeffrey Hege

The Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) and the Indianapolis Office of Environmental Services (OES) have reviewed the operating permit application from Coreslab Structures (Indianapolis) Inc. relating to the operation of an existing pre-cast concrete structure plant, the addition of a sandblasting operation which was constructed and has been operating without a permit, and the transition from a SSOA to a MSOP.

**History**

On June 27, 2007, the Office of Air Quality (OAQ) and the Office of Environmental Services (OES) have received an application from Coreslab Structures (Indianapolis) Inc. related to the construction and operation of new emission units and the continued operation of an existing stationary concrete batch plant, and the transition from a SSOA to a MSOP.

The source received a Source Specific Operating Agreement on February 1, 2005. During an OES compliance inspection (05/10/07), the sandblasting operation was discovered. The source stated that this operation had been present for several years but they did not know that it needed a permit. An enforcement referral was made by compliance and this application was submitted by the source.

**Existing Approvals**

The source has been operating under SSOA No. 097-19489-00542, issued on February 1, 2005. Due to this application, the source is transitioning from a SSOA to a MSOP.

**County Attainment Status**

The source is located in Marion County.

Pollutant	Designation
SO <sub>2</sub>	Better than national standards.
CO	Attainment effective February 18, 2000, for the part of the city of Indianapolis bounded by 11 <sup>th</sup> Street on the north; Capitol Avenue on the west; Georgia Street on the south; and Delaware Street on the east. Unclassifiable or attainment effective November 15, 1990, for the remainder of Indianapolis and Marion County.
O <sub>3</sub>	Attainment effective November 8, 2007, for the 8-hour ozone standard. <sup>1</sup>
PM-10	Unclassifiable effective November 15, 1990.
NO <sub>2</sub>	Cannot be classified or better than national standards.

Pollutant	Designation
Pb	Attainment effective July 10, 2000, for the part of Franklin Township bounded by Thompson Road on the south; Emerson Avenue on the west; Five Points Road on the east; and Troy Avenue on the north. Attainment effective July 10, 2000, for the part of Wayne Township bounded by Rockville Road on the north; Girls School Road on the east; Washington Street on the south; and Bridgeport Road on the west. The remainder of the county is not designated.
<sup>1</sup> Attainment effective October 18, 2000, for the 1-hour ozone standard for the Indianapolis area, including Marion County, and is a maintenance area for the 1-hour ozone National Ambient Air Quality Standards (NAAQS) for purposes of 40 CFR 51, Subpart X. The 1-hour designation was revoked effective June 15, 2005. Basic Nonattainment effective April 5, 2005 for PM-2.5.	

(a) Ozone Standards

- (1) 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.
- (2) On November 9, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Boone, Clark, Elkhart, Floyd, LaPorte, Hamilton, Hancock, Hendricks, Johnson, Madison, Marion, Morgan, Shelby, and St. Joseph as attainment for the 8-hour ozone standard.
- (3) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) 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 NOx emissions are considered when evaluating the rule applicability relating to ozone. Marion County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) PM-2.5

Marion County has been classified as nonattainment for PM2.5 in 70 FR 943 dated January 5, 2005. On May 8th, 2008, U.S. EPA promulgated specific New Source Review rules for PM2.5 emissions, and the effective date of these rules was July 15th, 2008. Therefore, direct PM2.5 and SO<sub>2</sub> emissions were reviewed pursuant to the requirements of Nonattainment New Source Review, 326 IAC 2-1.1-5. See the State Rule Applicability – Entire Source section.

(c) Other Criteria Pollutants

Marion County has been classified as attainment or unclassifiable in Indiana for SO<sub>2</sub>, NOx, CO and Lead. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

<b>Fugitive Emissions</b>
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- (a) The fugitive emissions of criteria pollutants and hazardous air pollutants are counted toward the determination of 326 IAC 2-6.1 (Minor Source Operating Permits) applicability.
- (b) Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD and Part 70 Permit applicability.

<b>Background and Description of Permitted Emission Units</b>
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The Office of Air Quality (OAQ) and Office of Environmental Services (OES) have reviewed an application, submitted by Coreslab Structures (Indianapolis) Inc. on June 27, 2007, relating to the operation of an existing pre-cast concrete structure plant, the addition of a sandblasting operation which was constructed and has been operating without a permit, and the transition from a SSOA to a FESOP.

The source consists of the following permitted emission unit(s):

- (a) One (1) concrete batching operation, identified as Emission Unit CBO-1, constructed in 2007, with a maximum production capacity of 94 tons per hour of concrete, consisting of the following equipment:
  - (1) Two (2) raw material (aggregate) receiving hoppers, identified as Emission Unit H-1 and Emission Unit H-2, constructed in 2007, with a throughput capacity of 30 tons per hour each (they can only operate one at a time since there is only one conveyor).
  - (2) Raw material storage, consisting of the following:
    - (A) Six (6) storage bins, identified as Emission Unit B-1, B-2, B-3, B-4, B-5 and B-6, constructed in 2007, with a capacity of 50 tons each.
    - (B) Two (2) storage bins, identified as Emission Unit B-7 and B-8, constructed in 2007, with a capacity of 25 tons each.
  - (3) Two (2) Aggregate Conveyors, one for transferring aggregate from the receiving hoppers to the storage bins, identified as Emission Unit RC-1, and one for transferring aggregate from storage to the mixer, identified as Emission Unit LC-1, both constructed in 2007, with a throughput capacity of 300 tons per hour each, covered to reduce particulate emissions.
  - (4) Cement storage silos, as follows:
    - (A) Two (2) storage silos, identified as Emission Unit CS-1 and CS-2, with a storage capacity of 700 barrels each (132 tons), each controlled by an integral baghouse, identified as BH-1 and BH-2.
    - (B) One (1) storage silo, identified as Emission Unit CS-3, with a storage capacity of 270 barrels (51 tons), controlled by an integral baghouse, identified as BH-3.
  - (5) Two (2) concrete mixing drums, identified as Emission Unit M-1 and M-2, with a combined throughput capacity of 94 tons per hour of concrete (they can only operate one at a time since there is only one conveyor), with particulate emissions from each controlled by a separate fabric filter baghouse, identified BH-4 and BH-5.
- (b) Combustion related activities, including the following:
  - (1) Propane or liquified petroleum gas, or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) Btu per hour.
  - (2) Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) Btu per hour and firing fuel containing less than five-tenths percent (0.5%) sulfur by weight.
- (c) Equipment powered by diesel fuel fired or natural gas fired internal combustion engines of capacity equal to or less than five hundred thousand (500,000) Btu/hour, except where total capacity of equipment operated by one stationary source exceeds two million (2,000,000) Btu/hour.
- (d) Fuel dispensing activities, including the following:
  - (1) A gasoline fuel transfer dispensing operation handling less than or equal to one thousand three hundred (1,300) gallons per day and filling storage tanks having a capacity equal to or less than ten thousand five hundred (10,500) gallons. Such storage tanks may be in a fixed location or on mobile equipment.
  - (2) A petroleum fuel, other than gasoline, dispensing facility, having a storage tank capacity less than or equal to ten thousand five hundred (10,500) gallons, and dispensing three thousand five hundred (3,500) gallons per day or less.

- (e) The following VOC and HAP storage containers:
- (1) Storage tanks with capacity less than or equal to one thousand (1,000) gallons and annual throughputs less than twelve thousand (12,000) gallons.
  - (2) Vessels storing the following:
    - (i) Hydraulic oils.
    - (ii) Lubricating oils.
- (f) The following equipment related to manufacturing activities not resulting in the emission of HAPs:
- (1) Cutting torches.
  - (2) Welding equipment.
- (g) Repair activities, including the following:
- (1) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.

#### **Unpermitted Emission Units and Pollution Control Equipment**

The source consists of the following unpermitted emission unit(s):

- (a) One (1) sandblasting operation, identified as Emission Unit SB-1, using Starblast (manufactured by DuPont Titanium Technologies) as media and utilizing one (1) 3/8" nozzle at a maximum pressure of 100 psig, with emissions considered fugitive.

#### **"Integral Part of the Process" Determination**

The Permittee has submitted the following information to justify why the cement storage silo baghouses, identified as BH-1, BH-2 and BH-3, should be considered an integral part of the cement storage silos, identified as Emission Unit CS-1, CS-2 and CS-3:

Each of the cement storage silos are equipped with a baghouse that controls emissions from the pressure relief vent on the storage silo. The dust collected by the baghouse is recovered, returned to the silo for use, and has a net cost of \$119/ton. The recovered value of the product is estimated at \$11,876 per silo per year. The cost of each baghouse is \$3,750. Therefore, the installation of the baghouses provides an overwhelming net economic benefit for particulate control.

The potential to emit from the cement storage silos (EU CS-1, CS-2 and CS-3) is calculated after baghouse emission control because the baghouse is integral to the process.

IDEM, OAQ and OES has evaluated the information submitted and agrees that the cement storage silo baghouses should be considered an integral part of the cement storage silos. This determination is based on the fact that there is an overwhelming net economic benefit for particulate control. Therefore, the permitting level will be determined using the potential to emit after the cement storage silo baghouse. Operating conditions in the proposed permit will specify that this cement storage silo baghouse shall operate at all times when the cement storage silo is in operation.

#### **Enforcement Issues**

IDEM, OAQ, and OES, are aware that equipment has been constructed and operated prior to receipt of the proper permit. IDEM and OES is reviewing this matter and will take the appropriate action. This proposed approval is intended to satisfy the requirements of the construction permit rules.

### Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

### Permit Level Determination – MSOP

The following table reflects the unlimited potential to emit (PTE) of the entire source before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential To Emit (tons/year)
PM	232.7
PM-10	59.9
PM-2.5	59.9
SO <sub>2</sub>	2.1
NO <sub>x</sub>	0.8
VOC	0.02
CO	0.1

HAPs	Potential To Emit (tons/year)
hexane	0.021
<b>TOTAL HAPs</b>	<b>0.022</b>

- (a) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1(16)) of PM-10 / PM-2.5 are each less than one hundred (100) tons per year, but greater than or equal to twenty-five (25) tons per year. The PTE of all other regulated criteria pollutants are less than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-6.1. A Minor Source Operating Permit (MSOP) will be issued.
- (b) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1(16)) of any single HAP is less than ten (10) tons per year and the PTE of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-7.

### Federal Rule Applicability Determination

#### New Source Performance Standards (NSPS)

- (a) There are no New Source Performance Standards (NSPS)(40 CFR Part 60) included in the permit.

#### National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in the permit.

#### Compliance Assurance Monitoring (CAM)

- (g) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the permit, because the unlimited potential to emit of the source is less than the Title V major source thresholds and the source is not required to obtain a Part 70 or Part 71 permit.

### State Rule Applicability Determination

The following state rules are applicable to the source:

- (a) 326 IAC 2-1.1-5 (Air Quality Requirements)  
Marion County has been classified as nonattainment for PM-2.5 in 70 FR 943 dated January 5,

2005. On May 8th, 2008, U.S. EPA promulgated specific New Source Review rules for PM-2.5 emissions, and the effective date of these rules was July 15th, 2008. Therefore, direct PM-2.5 and SO<sub>2</sub> emissions were reviewed pursuant to the requirements of Nonattainment New Source Review, 326 IAC 2-1.1-5. PM-2.5 and SO<sub>2</sub> emissions, from this source are less than one hundred (100) tons per twelve (12) consecutive month period. Therefore, this source is not subject to nonattainment new source review requirements for PM-2.5 emissions.
- (b) 326 IAC 2-6.1 (Minor Source Operating Permits (MSOP))  
MSOP applicability is discussed under the Permit Level Determination – MSOP section above.
- (c) 326 IAC 2-2 (Prevention of Significant Deterioration(PSD))  
This source is not a major stationary source, under PSD (326 IAC 2-2), because the potential to emit of all attainment regulated pollutants are less than 250 tons per year, and this source is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1). Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.
- (d) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))  
The potential to emit of any single HAP is less than ten (10) tons per year and the potential to emit of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-4.1.
- (e) 326 IAC 2-6 (Emission Reporting)  
Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake, Porter, or LaPorte County, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.
- (f) 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:
- (1) 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.
  - (2) 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.
- (g) 326 IAC 6-4 (Fugitive Dust Emissions Limitations)  
Coreslab Structures (Indianapolis) Inc. is subject to the requirements of 326 IAC 6-4 because the concrete batching operation and sandblasting operation have the potential to emit fugitive particulate emissions. Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source 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.
- (h) 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)  
Coreslab Structures (Indianapolis) Inc. is subject to the requirements of 326 IAC 6-5, because the concrete batching operation and sandblasting operation have potential fugitive particulate emissions greater than 25 tons per year. Pursuant to 326 IAC 6-5, fugitive particulate matter emissions shall be controlled according to the Fugitive Dust Control Plan, submitted on April 25, 2008, which is included as Attachment A to the permit.

### **State Rule Applicability – Individual Facilities**

#### Concrete Batching Operation (EU CBO-1)

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

The Concrete Batching Operations, identified as Emission Unit CBO-1 have the potential to emit greater than one hundred (100) tons per year of particulate and 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. Therefore the requirements of 326 IAC 6.5-1-2(a) apply to the Concrete Batching Operations, which includes the raw material (aggregate) receiving hoppers, the raw material storage bins, aggregate conveyors, cement storage silos and the concrete mixing drums. Particulate emissions from each of these facilities shall not exceed three hundredth (0.03) grains per dry standard cubic foot of exhaust.

Sandblasting Operation (EU SB-1)

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

Some of the pre-cast concrete parts that are manufactured at this facility are sandblasted to add texture to some of the surfaces. Since these pre-cast concrete parts are large and very heavy and require specialized equipment to move, the source claims it is not possible to sandblast these parts inside an enclosure for particulate control. Since this operation can not be feasibly enclosed, emissions are considered fugitive. Therefore, 326 IAC 6.5 and 326 IAC 6-3-2 do not apply and particulate emissions shall be limited by 326 IAC 6-5.

<b>Conclusion and Recommendation</b>
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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 on June 27, 2007, with additional info received on April 25, 2008.

The operation of this source shall be subject to the conditions of the attached proposed New Source Construction and MSOP No. 097-24975-00542. The staff recommends to the Administrator that this New Source Construction and MSOP be approved.

<b>OES Contact</b>
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- (a) Questions regarding this proposed permit can be directed to Jeffrey Hege at the Indianapolis Office of Environmental Services, Permits Section, 2700 South Belmont, Indianapolis, Indiana 46221 or by telephone at (317) 327-2234.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>.
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: [www.idem.in.gov](http://www.idem.in.gov).

**Appendix A: Emissions Calculations  
Summary**

**Company Name:** Coreslab Structures (Indianapolis) Inc.  
**Address City IN Zip:** 1030 South Kitley Avenue, Indianapolis, Indiana, 46203  
**Permit Number:** M097-24975-00542  
**Reviewer:** Jeffrey Hege  
**Date:** 4/1/2008

Process Name	Potential Emissions (tons per year)							
	PM	PM10 / PM-2.5	NOx	CO	SO <sub>2</sub>	VOC	Combined HAP	Highest Individual HAP
Concrete Batching	232.6	59.8	0	0	0	0	0	0
Insignificant Activities								
Propane Heaters	0.01	0.01	0.18	0.03	0	0.01	0.022	0.021 (hexane)
Kerosene Heaters	0.10	0.10	0.60	0.10	2.1	0.01	negl.	negl.
Fugitives								
Sandblasting Operations	40.8	28.5	0	0	0	0	0.000	0
<b>TOTAL</b>	232.7 *	59.9 *	0.8	0.1	2.1	0.02	0.022	0.021

\* Since this type of operation is not 1 of the 28 listed source categories and there is no applicable NSPS that was in effect prior to 8/7/80, fugitives are not counted toward PSD and part 70 applicability.

**Appendix A: Emission Calculations  
Unrestricted PTE - Concrete Batching Operations**

**Company Name:** Coreslab Structures (Indianapolis) Inc.  
**Address City IN Zip:** 1030 South Kitley Avenue, Indianapolis, Indiana, 46203  
**Permit Number:** M097-24975-00542  
**Reviewer:** Jeffrey Hege  
**Date:** 4/1/2008

	Throughput (ton/hr)	emission factors (lb/ton)		emissions (ton/year)		Emission Factor Source
		PM	PM10 / PM-2.5	PM	PM10 / PM-2.5	
Aggregate Receiving (EU H-1 & H-2)	30	0.0069	0.0033	0.9	0.4	AP-42 Ch.11.12.2
Aggregate Conveyors to Storage (EU RC-1) and Storage (EU B-1 through B-8)	300	0.0021	0.00099	2.8	1.3	AP-42 Ch.11.12.2
Aggregate Conveyors to Mixers (EU LC-1)	300	0.0021	0.00099	2.8	1.3	AP-42 Ch.11.12.2
Cement Receiving, Transfer and Storage (EU CS-1, CS-2 & CS-3)	20	0.72	0.46	3.2	2.0	AP-42 Ch.11.12.2
Mixer Loading/Dumping (EU M-1 & M-2)	94	0.544	0.134	224.0	55.2	AP-42 Ch.11.12.2
<b>TOTALS</b>				232.6	59.8	

1 PTE of the Cement Storage Silos (CS-1, 2 & 3) is calculated after baghouse emission control because the baghouse is integral to the process. Baghouse has a rated efficiency of 95%, based on manufacture's specifications provided by the source.

**METHODOLOGY**

$$\text{Ton/yr} = \text{Throughput (ton/hr)} * \text{EF (lb/ton)} * 8760 \text{ hr/yr} * \text{ton}/2000 \text{ lbs}$$

**Appendix A: Emission Calculations  
Fugitive Sandblasting Operations**

**Company Name:** Coreslab Structures (Indianapolis) Inc.  
**Address City IN Zip:** 1030 South Kitley Avenue, Indianapolis, Indiana, 46203  
**Permit Number:** M097-24975-00542  
**Reviewer:** Jeffrey Hege  
**Date:** 4/1/2008

**Table 1 - Emission Factors for Abrasives**

Abrasive	Emission Factor	
	lb PM / lb abrasive	lb PM10 / lb PM
Sand	0.041	0.70
Grit	0.010	0.70
Steel Shot	0.004	0.86
Other	0.010	

**Table 2 - Density of Abrasives (lb/ft3)**

Abrasive	Density (lb/ft3)
Al oxides	160
Sand	99
Star-Blast	128
Steel	487

**Table 3 - Sand Flow Rate (FR1) Through Nozzle (lb/hr)**

Flow rate of Sand Through a Blasting Nozzle as a Function of Nozzle pressure and Internal Diameter

Internal diameter, in	Nozzle Pressure (psig)							
	30	40	50	60	70	80	90	100
1/8	28	35	42	49	55	63	70	77
3/16	65	80	94	107	122	135	149	165
1/4	109	138	168	195	221	255	280	309
5/16	205	247	292	354	377	420	462	507
3/8	285	355	417	477	540	600	657	720
7/16	385	472	560	645	755	820	905	940
1/2	503	615	725	835	945	1050	1160	1265
5/8	820	990	1170	1336	1510	1680	1850	2030
3/4	1140	1420	1670	1915	2160	2400	2630	2880
1	2030	2460	2900	3340	3780	4200	4640	5060

**Calculations**

*Adjusting Flow Rates for Different Abrasives and Nozzle Diameters*

Flow Rate (FR) = Abrasive flow rate (lb/hr) with internal nozzle diameter (ID)  
 FR1 = Sand flow rate (lb/hr) with internal nozzle diameter (ID1) From Table 3 =  
 D = Density of abrasive (lb/ft3) From Table 2 =  
 D1 = Density of sand (lb/ft3) =  
 ID = Actual nozzle internal diameter (in) =  
 ID1 = Nozzle internal diameter (in) from Table 3 =

720
128
99
0.38
0.375

**Flow Rate (FR) (lb/hr) = 930.909** per nozzle

**Uncontrolled Emissions (E, lb/hr)**

EF = emission factor (lb PM/ lb abrasive) From Table 1 =  
 FR = Flow Rate (lb/hr) =  
 w = fraction of time of wet blasting =  
 N = number of nozzles =

0.010
930.909
0 %
1

<b>Uncontrolled Emissions =</b>	<b>9.31 lb/hr</b>
<b>PM =</b>	<b>40.77 ton/yr</b>
<b>PM10 / PM-2.5 =</b>	<b>28.54 ton/yr</b>

**METHODOLOGY**

Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition)  
 Ton/yr = lb/hr X 8760 hr/yr X ton/2000 lbs  
 Flow Rate (FR) (lb/hr) = FR1 x (ID/ID1)<sup>2</sup> x (D/D1)  
 E = EF x FR x (1-w/200) x N  
 w should be entered in as a whole number (if w is 50%, enter 50)

**Appendix A: Emissions Calculations  
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)  
Propane Heaters**

**Company Name:** Coreslab Structures (Indianapolis) Inc.  
**Address, City IN Zip:** 1030 South Kitley Avenue, Indianapolis, Indiana, 46203  
**Plt ID:** M097-24975-00542  
**Reviewer:** Jeffrey Hege  
**Date:** 4/1/2008

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
2.7500	24.1

	Pollutant					
	PM*	PM10 / PM-2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	0.5	0.5	0.1	15.0	0.6	2.1
Potential Emission in tons/yr	0.01	0.01	0.00	0.18	0.01	0.03

\* All PM emissions filterable. All PM was less than 10 um in aerodynamic equivalent diameter (PM-10).

**Methodology**

All emission factors are based on normal firing.  
 MMBtu = 1,000,000 Btu  
 MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu  
 Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3 (3/98) and Chapter 1.5, Table 1.5-1 (10/96).  
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

**Appendix A: Emissions Calculations**  
**Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)**  
**Propane Heaters**

**Company Name:** Coreslab Structures (Indianapolis) Inc.  
**Address City IN Zip:** 1030 South Kitley Avenue, Indianapolis, Indiana, 46203  
**Permit Number:** M097-24975-00542  
**Reviewer:** Jeffrey Hege  
**Date:** 4/1/2008

	HAPs - Organics				
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	0.00003	0.00001	0.00090	0.02168	0.00004

	HAPs - Metals				
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	0.00001	0.00001	0.00002	0.00000	0.00003

Methodology is the same as page 4.

The five highest organic and metal HAPs emission factors are provided above.  
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.

**Appendix A: Emissions Calculations  
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)  
Kerosene Heaters**

**Company Name:** Coreslab Structures (Indianapolis) Inc.  
**Address, City IN Zip:** 1030 South Kitley Avenue, Indianapolis, Indiana, 46203  
**Plt ID:** M097-24975-00542  
**Reviewer:** Jeffrey Hege  
**Date:** 4/1/2008

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	S = Weight % Sulfur
0.95	59.4429	0.5

Emission Factor in lb/kgal	Pollutant				
	PM*	SO2	NOx	VOC	CO
	2.0	71 <i>(142.0S)</i>	20.0	0.34	5.0
Potential Emission in tons/yr	0.1	2.1	0.6	0.01	0.1

**Methodology**

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.140 MM Btu

Emission Factors are from AP 42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-03-005-01/02/03) Supplement E 9/98 (see erata file)

\*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.

Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton

**Appendix A: Emissions Calculations**  
**Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)**  
**#1 and #2 Fuel Oil**  
**HAPs Emissions**

**Company Name:** Coreslab Structures (Indianapolis) Inc.  
**Address, City IN Zip:** 1030 South Kitley Avenue, Indianapolis, Indiana, 46203  
**Plt ID:** M097-24975-00542  
**Reviewer:** Jeffrey Hege  
**Date:** 4/1/2008

HAPs - Metals

	Arsenic	Beryllium	Cadmium	Chromium	Lead
Emission Factor in lb/mmBtu	4.0E-06	3.0E-06	3.0E-06	3.0E-06	9.0E-06
Potential Emission in tons/yr	1.66E-05	1.25E-05	1.25E-05	1.25E-05	3.74E-05
Potential Emissions for both boilers (tons/yr)	3.33E-05	2.50E-05	2.50E-05	2.50E-05	7.49E-05

HAPs - Metals (continued)

	Mercury	Manganese	Nickel	Selenium
Emission Factor in lb/mmBtu	3.0E-06	6.0E-06	3.0E-06	1.5E-05
Potential Emission in tons/yr	1.25E-05	2.50E-05	1.25E-05	6.24E-05
Potential Emissions for both boilers (tons/yr)	2.50E-05	4.99E-05	2.50E-05	1.25E-04

Methodology same as page 6

No data was available in AP-42 for organic HAPs.

Potential Emissions (tons/year) = Throughput (mmBtu/hr)\*Emission Factor (lb/mmBtu)\*8,760 hrs/yr / 2,000 lb/ton