



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
Toll Free (800) 451-6027  
[www.idem.IN.gov](http://www.idem.IN.gov)

TO: Interested Parties / Applicant

DATE: September 13, 2011

RE: Wheeler Corporation / 145-30541-00076

FROM: Matthew Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

## 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, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing 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 Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures  
FNPER.dot12/03/07



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## New Source Construction and Minor Source Operating Permit OFFICE OF AIR QUALITY

**Wheeler Corporation  
841 Elston Dr.  
Shelbyville, Indiana 46176**

(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.: M145-30541-00076	
Issued by:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: September 13, 2011 Expiration Date: September 13, 2016

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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). 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 concrete block manufacturer.

Source Address:	841 Elston Dr., Shelbyville, Indiana 46176
General Source Phone Number:	(317) 398-7500
SIC Code:	3271 (Concrete Block and Brick)
County Location:	Shelby
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD and Emission Offset Rules
	Major 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) Cement Silo #1, identified as Unit 1, constructed in 1995, with a maximum capacity of 4,125 pounds of cement per hour, using a baghouse, identified as Baghouse #2, as particulate control, and exhausting to the outside.
- (b) One (1) Cement Silo #2, identified as Unit 3, constructed in 2005, with a maximum capacity of 4,125 pounds of cement per hour, using a baghouse, identified as Baghouse #4, as particulate control, and exhausting to the outside.
- (c) One (1) Cement Weigh Batcher, identified as Unit 5, constructed in 1995, with a maximum capacity of 4,125 pounds of cement per hour, using no controls, and exhausting inside the building.
- (d) Two (2) Sand Storage Bunker, identified as Unit 6a and 6b, constructed in 1995, with a maximum storage capacity of 100 tons, each, using no controls, and exhausting outside.
- (e) One (1) Pea gravel Storage Bunker, identified as Unit 7, constructed in 1995, with a maximum storage capacity of 100 tons, using no controls, and exhausting outside.
- (f) One (1) Stone Storage Bunker, identified as Unit 8, constructed in 1995, with a maximum storage capacity of 100 tons, using no controls, and exhausting outside.
- (g) One (1) Haydite Light weight Aggregate Storage Bunker, identified as Unit 9, constructed in 1995, with a maximum storage capacity of 50 tons, using no controls, and exhausting outside.
- (h) One (1) Ground Level Belt Feed Hopper, identified as Unit 11, constructed in 1995, with a maximum capacity of 18.75 tons of aggregate per hour, using no controls, and exhausting outside.

- (i) Two (2) Aggregate Conveyors, identified as Unit 12 and 13, constructed in 1995, with a maximum capacity of 18.75 tons of aggregate per hour, each, using no controls, and exhausting outside.
- (j) One (1) Aggregate Storage Bin, identified as Unit 14, constructed in 1995, with a maximum capacity of 18.75 tons of aggregate per hour, using no controls, and exhausting inside the building.
- (k) One (1) Aggregate Weigh Batcher, identified as Unit 17, constructed in 1995, with a maximum capacity of 18.75 tons of aggregate per hour, using no controls, and exhausting inside the building.
- (l) One (1) Concrete Mixer, identified as Unit 18, constructed in 1995, with a maximum capacity of 20.81 tons of concrete per hour, using no controls, and exhausting inside the building.
- (m) One (1) Concrete Block Forming Line, identified as Unit 21, constructed in 1999, with a maximum capacity of 20.81 tons of concrete per hour, using no controls, and exhausting inside the building.
- (n) One (1) Curing Room, identified as Unit 22, constructed in 1995, with a maximum capacity of 41,625 pounds of concrete block per hour and using the following to create steam to cure the concrete:
  - One (1) natural gas-fired steam generator, identified as Unit 23, installed in 2005 with a maximum heat capacity of 5.00 MMBtu/hr, and exhausting through stack 23B.
- (o) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour:
  - (1) Two (2) natural gas-fired space ray tube heaters, identified as Units 27 and 28, constructed in 1995, with a maximum heat capacity of 0.175 MMBtu/hr, each and exhausting through stack 27B and 28B.
  - (2) Two (2) natural gas-fired space ray tube heaters, identified as Units 29 and 30, constructed in 1995, with a maximum heat capacity of 0.130 MMBtu/hr, each and exhausting through stack 29B and 30B.
  - (3) Two (2) natural gas-fired radiant heater, identified as Unit 31 and 32, constructed before 1995, with a maximum heat capacity of 0.050 MMBtu/hr, each and exhausting through stack 31B and 32B.
  - (4) Two (2) natural gas-fired furnaces, identified as Unit 33 and 34, constructed before 1995, with a maximum heat capacity of 0.10 MMBtu/hr, each and exhausting through stack 33B and 34B.
  - (5) Two (2) natural gas-fired furnaces, identified as Units 35 and 36, constructed in 1995, with a maximum heat capacity of 0.154 MMBtu/hr and 0.088 MMBtu/hr, respectively, and exhausting through stack 35B and 36B.

## **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 Affidavit of Construction [326 IAC 2-5.1-3(h)] [326 IAC 2-5.1-4]**

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This document shall also become the approval to operate pursuant to 326 IAC 2-5.1-4 when prior to the start of operation, the following requirements are met:

- (a) The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ), verifying that the emission units were constructed as proposed in the application or the permit. The emission units covered in this permit may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM if constructed as proposed.
- (b) If actual construction of the emission units differs from the construction proposed in the application, the source may not begin operation until the permit has been revised pursuant to 326 IAC 2 and an Operation Permit Validation Letter is issued.
- (c) The Permittee shall attach the Operation Permit Validation Letter received from the Office of Air Quality (OAQ) to this permit.

### **B.4 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]**

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- (a) This permit, M145-30541-00076, 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, 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.5 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.6 Enforceability**

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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, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

**B.7 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.8 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.9 Duty to Provide Information**

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- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ 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. Upon request, the Permittee shall also furnish to IDEM, OAQ 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.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 and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251
- (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 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) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, 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 and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

The Permittee shall implement the PMPs.

- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ 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.
- (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 M145-30541-00076 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 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 an affirmation that the statements in the application are true and complete 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  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

- (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 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 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, pursuant to 326 IAC 2-6.1-4(b), in writing by IDEM, OAQ 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  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251
- (c) The Permittee shall notify the OAQ no later than 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**

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[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, 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]**

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- (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  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
  
The application which shall be submitted by the Permittee does require an affirmation that the statements in the application are true and complete 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]**

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- (a) The Permittee shall pay annual fees due no later than thirty (30) calendar days of receipt of a bill from IDEM, OAQ,.
- (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]**

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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 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]**

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

**C.2 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, the fact that continuance of this permit is not consistent with purposes of this article.

**C.3 Opacity [326 IAC 5-1]**

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-1 (Applicability) and 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 forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

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

**C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]**

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

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

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

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

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Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the attached plan as in Attachment A.

C.8 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 by using ambient air quality modeling pursuant to 326 IAC 1-7-4.

C.9 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

---

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

All required notifications shall be submitted to:

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

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.

- (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.10 Performance Testing [326 IAC 3-6]**

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- (a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:  
  
Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
  
no later than thirty-five (35) days prior to the intended test date.
- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date.
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ 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.11 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.12 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.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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Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

- (a) The Permittee shall take reasonable response steps to 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 excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
  - (1) initial inspection and evaluation;
  - (2) recording that operations returned or are returning 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 normal or usual manner of operation.
- (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 record the reasonable response steps 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 submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) 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.

**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 makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of

permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

C.18 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (a) Reports required by conditions in Section D of this permit shall be submitted to:
- Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251
- (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 on or before the date it is due.
- (c) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, 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) Cement Silo #1, identified as Unit 1, constructed in 1995, with a maximum capacity of 4,125 pounds of cement per hour, using a baghouse, identified as Baghouse #2, for particulate control, and exhausting to the outside.
- (b) One (1) Cement Silo #2, identified as Unit 3, constructed in 2005, with a maximum capacity of 4,125 pounds of cement per hour, using a baghouse, identified as Baghouse #4, for particulate control, and exhausting to the outside.
- (c) One (1) Cement Weigh Batcher, identified as Unit 5, constructed in 1995, with a maximum capacity of 4,125 pounds of cement per hour, using no controls, and exhausting inside the building.
- (d) Two (2) Sand Storage Bunker, identified as Unit 6, constructed in 1995, with a maximum storage capacity of 100 tons, using no controls, and exhausting outside.
- (e) One (1) Pea gravel Storage Bunker, identified as Unit 7, constructed in 1995, with a maximum storage capacity of 100 tons, using no controls, and exhausting outside.
- (f) One (1) Stone Storage Bunker, identified as Unit 8, constructed in 1995, with a maximum storage capacity of 100 tons, using no controls, and exhausting outside.
- (g) One (1) Haydite Light weight Aggregate Storage Bunker, identified as Unit 9, constructed in 1995, with a maximum storage capacity of 50 tons, using no controls, and exhausting outside.
- (h) One (1) Ground Level Belt Feed Hopper, identified as Unit 11, constructed in 1995, with a maximum capacity of 18.75 tons of aggregate per hour, using no controls, and exhausting outside.
- (i) Two (2) Aggregate Conveyors, identified as Unit 12 and 13, constructed in 1995, with a maximum capacity of 18.75 tons of aggregate per hour, each, using no controls, and exhausting outside.
- (j) One (1) Aggregate Storage Bin, identified as Unit 14, constructed in 1995, with a maximum capacity of 18.75 tons of aggregate per hour, using no controls, and exhausting inside the building.
- (k) One (1) Aggregate Weigh Batcher, identified as Unit 17, constructed in 1995, with a maximum capacity of 18.75 tons of aggregate per hour, using no controls, and exhausting inside the building.
- (l) One (1) Concrete Mixer, identified as Unit 18, constructed in 1995, with a maximum capacity of 20.81 tons of concrete per hour, using no controls, and exhausting inside the building.
- (m) One (1) Concrete Block Forming Line, identified as Unit 21, constructed in 1999, with a maximum capacity of 20.81 tons of concrete per hour, using no controls, and exhausting inside the building.
- (n) One (1) Curing Room, identified as Unit 22, constructed in 1995, with a maximum capacity of 41,625 pounds of concrete block per hour and using the following to create steam to cure the concrete:

One (1) natural gas-fired steam generator, identified as Unit 23, installed in 2005 with a maximum heat capacity of 5.00 MMBtu/hr, and exhausting through stack 23B.

(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 [326 IAC 6-3-2]**

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate shall not exceed the following limits:

Emission Unit	Process Weight Rate (tons/hr)	Allowable Particulate Emissions (326 IAC 6-3-2) (lb/hr)
Cement Silo #1 (Unit 1)	2.06	6.65
Cement Silo #2 (Unit 2)	2.06	6.65
Cement Weigh Batcher (Unit 5)	2.06	6.65
Ground Level Belt Feed Hopper (Unit 11)	18.75	29.22
Aggregate Conveyor (Unit 12)	18.75	29.22
Aggregate Conveyor (Unit 13)	18.75	29.22
Aggregate Weigh Batcher (Unit 17)	20.81	33.34
Cement Mixer (Unit 18)	20.81	33.34

The pound per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and } P = \text{process weight rate in tons per hour}$$

**D.1.2 Preventive Maintenance Plan [326 IAC 1-6-3]**

A Preventive Maintenance Plan is required for the two (2) cement silos, identified as Unit 1 and Unit 2), identified as Baghouse #2 and #4. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

**Compliance Determination Requirements**

**D.1.3 Particulate Control**

- (a) In order to comply with Condition D.1.1, the baghouse #2 and #4, for particulate control, shall be in operation and control emissions at all times the cement silos are in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) day or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also

include the status of the applicable compliance monitoring parameters with respect to normal, and the result of any response actions take up to the time of notification.

### **Compliance Monitoring Requirements [326 IAC 2 6.1 5(a)(2)]**

#### **D.1.4 Visible Emissions Notations**

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- (a) Visible emission notations of the baghouses BH1 and BH2 exhausts shall be performed once per day during normal daylight operations. 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 emissions are observed, the Permittee shall take reasonable response steps. Section C- Response to Excursions or Exceedances contains the Permittee's obligation

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

#### **D.1.5 Record Keeping Requirements**

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- (a) To document the compliance status with Condition D.1.4, the Permittee shall maintain daily records of the visible emission notations of the baghouses stack exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation, (i.e. the process did not operate that day).
- (b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH**

**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>	Wheeler Corporation
<b>Address:</b>	841 Elston Dr.
<b>City:</b>	Shelbyville, Indiana 46176
<b>Phone #:</b>	(317) 398-7500
<b>MSOP #:</b>	M145-30541-00076

I hereby certify that Wheeler Corporation is:

still in operation.

no longer in operation.

I hereby certify that Wheeler Corporation is:

in compliance with the requirements of MSOP M145-30541-00076.

not in compliance with the requirements of MSOP M145-30541-00076.

<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**  
**COMPLIANCE AND ENFORCEMENT BRANCH**  
**FAX NUMBER: (317) 233-6865**

**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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Mail to: Permit Administration and Support Section  
Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

Wheeler Corporation  
841 Elston Dr.  
Shelbyville, Indiana 46176

Affidavit of Construction

I, \_\_\_\_\_, being duly sworn upon my oath, depose and say:  
(Name of the Authorized Representative)

1. I live in \_\_\_\_\_ County, Indiana and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.
2. I hold the position of \_\_\_\_\_ for \_\_\_\_\_  
(Title) (Company Name)
3. By virtue of my position with \_\_\_\_\_, I have personal  
(Company Name)  
knowledge of the representations contained in this affidavit and am authorized to make these representations on behalf of \_\_\_\_\_  
(Company Name)
4. I hereby certify that Wheeler Corporation 841 Elston Dr., Shelbyville, Indiana 46176, completed construction of the concrete block on \_\_\_\_\_ in conformity with the requirements and intent of the construction permit application received by the Office of Air Quality on May 12, 2011 and as permitted pursuant to New Source Construction Permit and Minor Source Operating Permit No. M145-30541-00076, Plant ID No. 145-00076 issued on \_\_\_\_\_.
5. **Permittee, please cross out the following statement if it does not apply:** Additional (operations/facilities) were constructed/substituted as described in the attachment to this document and were not made in accordance with the construction permit.

Further Affiant said not.

I affirm under penalties of perjury that the representations contained in this affidavit are true, to the best of my information and belief.

Signature \_\_\_\_\_  
Date \_\_\_\_\_

STATE OF INDIANA)  
)SS

COUNTY OF \_\_\_\_\_ )

Subscribed and sworn to me, a notary public in and for \_\_\_\_\_ County and State of Indiana  
on this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_. My Commission expires: \_\_\_\_\_.

Signature \_\_\_\_\_  
Name \_\_\_\_\_ (typed or printed)

## Indiana Department of Environmental Management Office of Air Quality

### Technical Support Document (TSD) for a New Source Construction and New Source Review and Minor Source Operating Permit (MSOP)

#### Source Description and Location

<b>Source Name:</b>	<b>Wheeler Corporation</b>
<b>Source Location:</b>	<b>841 Elston Dr., Shelbyville, IN 46176</b>
<b>County:</b>	<b>Shelby</b>
<b>SIC Code:</b>	<b>3271 (Concrete Block and Brick)</b>
<b>Operation Permit No.:</b>	<b>F145-30541-00076</b>
<b>Permit Reviewer:</b>	<b>Bruce Farrar</b>

On May 12, 2011, the Office of Air Quality (OAQ) received an application from Wheeler Corporation related to the construction and operation of a concrete block manufacturing plant.

#### Existing Approvals

There have been no previous approvals issued to this source.

#### County Attainment Status

The source is located in Shelby County.

Pollutant	Designation
SO <sub>2</sub>	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O <sub>3</sub>	Attainment effective October 19, 2007, for the 8-hour ozone standard. <sup>1</sup>
PM <sub>10</sub>	Unclassifiable effective November 15, 1990.
NO <sub>2</sub>	Cannot be classified or better than national standards.
Pb	Not designated.
<sup>1</sup> Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.  Unclassifiable or attainment effective April 5, 2005, for PM <sub>2.5</sub> .	

- (a) **Ozone Standards**  
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. Shelby 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<sub>2.5</sub>**  
Shelby County has been classified as attainment for PM<sub>2.5</sub>. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM<sub>2.5</sub> emissions. These rules became effective on July 15, 2008. Indiana has three years from the publication of these rules to revise its PSD rules, 326 IAC 2-2, to include those requirements. The May 8, 2008 rule revisions require IDEM to regulate PM<sub>10</sub> emissions as a surrogate for PM<sub>2.5</sub> emissions until 326 IAC 2-2 is revised.

- (c) Other Criteria Pollutants  
Shelby County has been classified as attainment or unclassifiable in Indiana for pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

#### **Fugitive Emissions**

- (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, Emission Offset, and Part 70 Permit applicability.

#### **Background and Description of New Source Construction**

The Office of Air Quality (OAQ) has reviewed an application, submitted by Wheeler Corporation on May 12, 2011, relating to a concrete block manufacturer, that has been constructed and operating without a permit. The total Potential to emit particulate (PM) is less than 100 tons per year each, therefore a MSOP will be issued

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

The source consists of the following unpermitted emission units:

- (a) One (1) Cement Silo #1, identified as Unit 1, constructed in 1995, with a maximum capacity of 4,125 pounds of cement per hour, using a baghouse, identified as Baghouse #2, as particulate control, and exhausting to the outside.
- (b) One (1) Cement Silo #2, identified as Unit 3, constructed in 2005, with a maximum capacity of 4,125 pounds of cement per hour, using a baghouse, identified as Baghouse #4, as particulate control, and exhausting to the outside.
- (c) One (1) Cement Weigh Batcher, identified as Unit 5, constructed in 1995, with a maximum capacity of 4,125 pounds of cement per hour, using no controls, and exhausting inside the building.
- (d) Two (2) Sand Storage Bunker, identified as Unit 6, constructed in 1995, with a maximum storage capacity of 100 tons, using no controls, and exhausting outside.
- (e) One (1) Pea gravel Storage Bunker, identified as Unit 7, constructed in 1995, with a maximum storage capacity of 100 tons, using no controls, and exhausting outside.
- (f) One (1) Stone Storage Bunker, identified as Unit 8, constructed in 1995, with a maximum storage capacity of 100 tons, using no controls, and exhausting outside.
- (g) One (1) Haydite Light weight Aggregate Storage Bunker, identified as Unit 9, constructed in 1995, with a maximum storage capacity of 50 tons, using no controls, and exhausting outside.
- (h) One (1) Ground Level Belt Feed Hopper, identified as Unit 11, constructed in 1995, with a maximum capacity of 18.75 tons of aggregate per hour, using no controls, and exhausting outside.
- (i) Two (2) Aggregate Conveyors, identified as Unit 12 and 13, constructed in 1995, with a maximum

capacity of 18.75 tons of aggregate per hour, each, using no controls, and exhausting outside.

- (j) One (1) Aggregate Storage Bin, identified as Unit 14, constructed in 1995, with a maximum capacity of 18.75 tons of aggregate per hour, using no controls, and exhausting inside the building.
- (k) One (1) Aggregate Weigh Batcher, identified as Unit 17, constructed in 1995, with a maximum capacity of 18.75 tons of aggregate per hour, using no controls, and exhausting inside the building.
- (l) One (1) Concrete Mixer, identified as Unit 18, constructed in 1995, with a maximum capacity of 20.81 tons of concrete per hour, using no controls, and exhausting inside the building.
- (m) One (1) Concrete Block Forming Line, identified as Unit 21, constructed in 1999, with a maximum capacity of 20.81 tons of concrete per hour, using no controls, and exhausting inside the building.
- (n) One (1) Curing Room, identified as Unit 22, constructed in 1995, with a maximum capacity of 41,625 pounds of concrete block per hour and using the following to create steam to cure the concrete:

One (1) natural gas-fired steam generator, identified as Unit 23, installed in 2005 with a maximum heat capacity of 5.00 MMBtu/hr, and exhausting through stack 23B.

- (o) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour:
  - (1) Two (2) natural gas-fired space ray tube heaters, identified as Units 27 and 28, constructed in 1995, with a maximum heat capacity of 0.175 MMBtu/hr, each and exhausting through stack 27B and 28B.
  - (2) Two (2) natural gas-fired space ray tube heaters, identified as Units 29 and 30, constructed in 1995, with a maximum heat capacity of 0.130 MMBtu/hr, each and exhausting through stack 29B and 30B.
  - (3) Two (2) natural gas-fired radiant heater, identified as Unit 31 and 32, constructed before 1995, with a maximum heat capacity of 0.050 MMBtu/hr, each and exhausting through stack 31B and 32B.
  - (4) Two (2) natural gas-fired furnaces, identified as Unit 33 and 34, constructed before 1995, with a maximum heat capacity of 0.10 MMBtu/hr, each and exhausting through stack 33B and 34B.
  - (5) Two (2) natural gas-fired furnaces, identified as Units 35 and 36, constructed in 1995, with a maximum heat capacity of 0.154 MMBtu/hr and 0.088 MMBtu/hr, respectively, and exhausting through stack 35B and 36B.

**Enforcement Issues**

IDEM is aware that equipment has been constructed and operated prior to receipt of the proper permit. IDEM 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	67.44
PM10 <sup>(1)</sup>	22.59
PM2.5	22.59
SO <sub>2</sub>	0.02
NO <sub>x</sub>	2.61
VOC	0.14
CO	2.19
GHGs as CO <sub>2</sub> e	3,146

(1) Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".

HAPs	Potential To Emit (tons/year)
Hexane	0.047
Formaldehyde	negligible
Nickel	negligible
Cadmium	negligible
<b>TOTAL HAPs</b>	<b>0.049</b>

- (a) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) of PM is 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) 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.
- (c) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) of CO<sub>2</sub> equivalent emissions (CO<sub>2</sub>e) is less than the Title V subject to regulation threshold of one hundred thousand (100,000) tons per year. Therefore, the source is 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) (326 IAC 12 and 40 CFR Part 60) included in the permit.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (b) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Brick and Structural Clay Products Manufacturing, 40 CFR 63.8380, Subpart JJJJJ (5J) (326 IAC 20-72), are not included in the permit, since this source is not a major source of HAPs.
- (c) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Clay Ceramics Manufacturing, 40 CFR 63.8530, Subpart KKKKK (5K), are not included in the permit, since this source does not manufacture clay ceramic products is not a major source of HAPs.
- (d) The requirements of the National Emission Standards for Hazardous Air Pollutants for Area Source Standards for Nine Metal Fabrication and Finishing Source Categories (40 CFR 63, Subpart XXXXXX (6X)), are not included for this proposed revision, because this source's SIC is not listed.
- (e) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Clay Ceramics Manufacturing Area Sources, 40 CFR 63.11435, Subpart RRRRRR (6R), are not included in the permit, since this source does not manufacture clay ceramic products.
- (f) 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.

<b>State Rule Applicability Determination</b>
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The following state rules are applicable to the source:

- (a) 326 IAC 2-6.1 (Minor Source Operating Permits (MSOP))  
MSOP applicability is discussed under the Permit Level Determination – MSOP section above.
- (b) 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.
- (c) 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.
- (d) 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.

- (e) 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 forty percent (40%) 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.
- (f) 326 IAC 6-4 (Fugitive Dust Emissions Limitations)  
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.

#### Cement Silos #1 and #2

- (g) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)  
Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the Cement Silos #1 and #2 shall not exceed 6.65 pounds per hour each when operating at a process weight rate of 2.06 tons per hour. The pound per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

Based on calculations, the baghouses are not needed to comply with this limit. However, AP-42 rating for cement silo loading is E (poor, factor is developed from C and D rated test data from a very few number of facilities). Therefore the baghouses shall be in operation at all times the cement silos #1 and #2 are in operation.

- (h) There are no 326 IAC 8 Rules that are applicable to the facility.

#### Cement Weigh Batcher, Unit 5

- (i) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)  
Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the Cement Weigh Batcher shall not exceed 6.65 pounds per hour each when operating at a process weight rate of 2.06 tons per hour. The pound per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

- (j) There are no 326 IAC 8 Rules that are applicable to the facility.

Storage Bunkers, Units 6a, 6b, 7, 8, 9, 14

- (k) 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)  
The source is not subject to the requirements of 326 IAC 6-5, because the storage bunkers have potential fugitive particulate emissions less than 25 tons per year.
- (l) There are no 326 IAC 8 Rules that are applicable to the facility.

Ground Level Belt Feed Hopper, Unit 11

- (m) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)  
Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the Ground Level Belt Feed Hopper shall not exceed 29.22 pounds per hour when operating at a process weight rate of 18.75 tons per hour. The pound per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

- (n) There are no 326 IAC 8 Rules that are applicable to the facility.

Aggregate Conveyors, Units 12 and 13

- (o) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)  
Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the Ground Level Belt Feed Hopper shall not exceed 29.22 pounds per hour, each when operating at a process weight rate of 18.75 tons per hour, each. The pound per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

- (p) There are no 326 IAC 8 Rules that are applicable to the facility.

Aggregate Weigh Batcher, Unit 17

- (q) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)  
Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the Aggregate Weigh Batcher shall not exceed 31.33 pounds per hour, when operating at a process weight rate of 20.81 tons per hour. The pound per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

- (r) There are no 326 IAC 8 Rules that are applicable to the facility.

Cement Mixer, Unit 18

- (s) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)  
Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the Cement Mixer, identified as 18, shall not exceed 33.34 pounds per hour when operating at a process weight rate of 20.81 tons per hour. The pound per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

- (t) There are no 326 IAC 8 Rules that are applicable to the facility.

Concrete Block Forming Unit 21

- (u) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)  
The Concrete Block forming is not subject to this rule because it has no particulate emissions
- (v) There are no 326 IAC 8 Rules that are applicable to the facility.

Curing Room, Unit 22

- (w) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)  
Pursuant to 326 IAC 6-3-1(b)(14), the curing room is exempt from the requirements of 326 IAC 6-3-2 because its potential emissions are less than 0.551 pounds of particulate per hour.
- (x) 326 IAC 7-1.1-1 (Sulfur Dioxide Emission Limitations)  
Pursuant to 326 IAC 7-1.1-1(1) the curing room is not subject to this rule because its PTE for Sulfur Dioxide is less than 25 tons per year and 10 pounds per hour.
- (y) There are no 326 IAC 8 Rules that are applicable to the facility.

**Compliance Determination, Monitoring and Testing Requirements**

- (a) The compliance determination and monitoring requirements applicable to this source are as follows:

Emission Unit/Control	Operating Parameters	Frequency
Baghouse (#2 and #4)	Visible notation	Once per day

Based on discussions with the Compliance Branch, parametric monitoring of the baghouses is not required, because the cement silos (baghouses #2 and #4) are used about one hour every three days. Therefore, when loading the cement silos, visible notation of the baghouses is sufficient.

- (b) There are no applicable testing requirements for this source.

**Conclusion and Recommendation**

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 May 12, 2011.

The operation of this source shall be subject to the conditions of the attached proposed New Source Construction and New Source Review and MSOP No. 145-30541-00076. The staff recommends to the Commissioner that this New Source Construction and New Source Review and MSOP be approved.

<b>IDEM Contact</b>
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- (a) Questions regarding this proposed permit can be directed to Bruce Farrar at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-5401 or toll free at 1-800-451-6027 extension 4-5401.
- (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.in.gov/idem](http://www.in.gov/idem)

**Appendix A: Emission Calculations**

**Company Name:** Wheeler Corporation  
**Address City IN Zip:** 841 Elston Drive  
**Permit Number:** M145-30541-00076  
**Plant ID:** 145-00076  
**Reviewer:** Bruce Farrar  
**Date:** May 12, 2011

Uncontrolled Potential Emissions (tons/year)										
Emission Units	Pollutants									
	PM	PM10	PM2.5	SO2	NOx	VOC	CO	GHGs as CO2e	total HAPs	Single HAP
Aggregate Conveyor	1.70	0.81	0.81	-	-	-	-	-	-	-
Silo Loading	13.19	8.31	8.31	-	-	-	-	-	-	-
Cement Mixing	49.58	12.21	12.21	-	-	-	-	-	-	-
Weigh Batching	0.88	0.51	0.51	-	-	-	-	-	-	-
Storage Piles	0.27	0.09	0.09	-	-	-	-	-	-	-
Unpaved Roads	1.78	0.45	0.45	-	-	-	-	-	-	-
Natural Gas Combustion	0.050	0.200	0.200	0.02	2.63	0.14	2.21	3,173	0.050	0.047 Hexane
<b>Totals:</b>	<b>67.44</b>	<b>22.59</b>	<b>22.59</b>	<b>0.02</b>	<b>2.63</b>	<b>0.14</b>	<b>2.21</b>	<b>3,173</b>	<b>&lt;25</b>	<b>&lt;10</b>

**Appendix A: Emissions Calculations  
Conveyor and Hopper**

**Company Name: Wheeler Corporation**  
**Address City IN Zip: 841 Elston Drive**  
**Permit Number: M145-30541-00076**  
**Plt ID: 145-00076**  
**Reviewer: Bruce Farrar**  
**Date: May 12, 2011**

Uncontrolled Emissions							
Emission Unit/Identification	PM Emission Factor (lbs/ton) <sup>1</sup>	PM10 Emission Factor (lbs/hr) <sup>1</sup>	Throughput (tons/hour)	lbs/hour		tons/year	
				PM Emissions	PM10 Emissions	PM Emissions	PM10 Emissions
Transfer Conveyor/12	0.0069	0.0033	18.75	0.13	0.06	0.57	0.27
Transfer Conveyor/13	0.0069	0.0033	18.75	0.13	0.06	0.57	0.27
Ground Level Belt Feed Hopper/11	0.0069	0.0033	18.75	0.13	0.06	0.57	0.27
<b>Total:</b>				<b>0.39</b>	<b>0.19</b>	<b>1.70</b>	<b>0.81</b>

**Using skit boards for Control with efficiency of 50%:            0.85            0.41**

Assume PM10 = PM2.5

1. PM emission factor from AP-42, Chapter 11.12 Concrete Batching, Table 11.12-2 (updated June 2006) SCC 3-05-011-23

**METHODOLOGY**

PM/PM10 Emissions (lbs/hr) = PM/PM10 EF (lbs/ton) \* Process weight (tons/hour)

PM/PM10 Emissions (tons/yr) = PM/PM10 EF (lbs/ton) \* Process weight (tons/hour) \* 8760 hrs/yr \* 1 ton/2000 lbs

**Appendix A: Emissions Calculations  
Silo Loading**

**Company Name: Wheeler Corporation**  
**Address City IN Zip: 841 Elston Drive**  
**Permit Number: M145-30541-00076**  
**Plt ID: 145-00076**  
**Reviewer: Bruce Farrar**  
**Date: May 12, 2011**

Uncontrolled Emissions							
Emission Unit/Identification	PM Emission Factor (lbs/ton) <sup>1</sup>	PM10 Emission Factor (lbs/hr) <sup>1</sup>	Throughput (tons/hour)	lbs/hour		tons/year	
				PM Emissions	PM10 Emissions	PM Emissions	PM10 Emissions
Cement Silo#1 (BH-2)	0.73	0.46	2.06	1.51	0.95	6.59	4.16
Cement Silo #2 (BH-4)	0.73	0.46	2.06	1.51	0.95	6.59	4.16
<b>Total:</b>				<b>3.01</b>	<b>1.90</b>	<b>13.19</b>	<b>8.31</b>
			<b>Baghouse (BH1) Control Efficiency 99.5%:</b>	<b>0.01</b>	<b>0.005</b>	<b>0.03</b>	<b>0.02</b>
			<b>Baghouse (BH2) Control Efficiency 99.5%:</b>	<b>0.01</b>	<b>0.005</b>	<b>0.03</b>	<b>0.02</b>

Assume PM10 = PM2.5

1. PM emission factor from AP-42, Chapter 11.12 Concrete Batching, Table 11.12-2 (updated June 2006) SCC 3-05-011-07

**METHODOLOGY**

PM/PM10 Emissions (lbs/hr) = PM/PM10 EF (lbs/ton) \* throughput (tons/hour)

PM/PM10 Emissions (tons/yr) = PM/PM10 EF (lbs/ton) \* throughput (tons/hour) \* 8760 hrs/yr \* 1 ton/2000 lbs

Controlled PM/PM10 Emissions (tons/yr) = PM/PM10 EF (lbs/ton) \* throughput (tons/hour) \* (1-.995) \* 8760 hrs/yr \* 1 ton/2000 lbs

**Appendix A: Emissions Calculations  
Cement Mixing**

**Company Name: Wheeler Corporation**  
**Address City IN Zip: 841 Elston Drive**  
**Permit Number: M145-30541-00076**  
**Pit ID: 145-00076**  
**Reviewer: Bruce Farrar**  
**Date: May 12, 2011**

Uncontrolled Emissions							
Emission Unit/Identification	PM Emission Factor (lbs/ton) <sup>1</sup>	PM10 Emission Factor (lbs/hr) <sup>1</sup>	Throughput (tons/hour)	lbs/hour		tons/year	
				PM Emissions	PM10 Emissions	PM Emissions	PM10 Emissions
Cement Mixer/18	0.544	0.134	20.81	11.32	2.79	49.58	12.21
<b>Total:</b>				<b>11.32</b>	<b>2.79</b>	<b>49.58</b>	<b>12.21</b>

**Wet Suppression Control Efficiency 50%: 24.79 6.11**

Assume PM10 = PM2.5

1. PM emission factor from AP-42, Chapter 11.12 Concrete Batching, Table 11.12-2 (updated June 2006) SCC 3-05-011-11

**METHODOLOGY**

PM/PM10 Emissions (lbs/hr) = PM/PM10 EF (lbs/ton) \* Process weight (tons/hour)

PM/PM10 Emissions (tons/yr) = PM/PM10 EF (lbs/ton) \* Process weight (tons/hour) \* 8760 hrs/yr \* 1 ton/2000 lbs

**Appendix A: Emissions Calculations  
Weigh Batcher**

**Company Name: Wheeler Corporation**  
**Address City IN Zip: 841 Elston Drive**  
**Permit Number: M145-30541-00076**  
**Pit ID: 145-00076**  
**Reviewer: Bruce Farrar**  
**Date: May 12, 2011**

Uncontrolled Emissions							
Emission Unit/Identification	PM Emission Factor (lbs/ton) <sup>1</sup>	PM10 Emission Factor (lbs/hr) <sup>1</sup>	Throughput (tons/hour)	lbs/hour		tons/year	
				PM Emissions	PM10 Emissions	PM Emissions	PM10 Emissions
Cement Weigh Batcher/5	0.0048	0.0028	20.81	0.10	0.06	0.44	0.26
Aggregate Weigh Batcher/17	0.0048	0.0028	20.81	0.10	0.06	0.44	0.26
<b>Total:</b>				<b>0.10</b>	<b>0.06</b>	<b>0.88</b>	<b>0.51</b>

**Wet Suppression Control Efficiency 50%: 0.44 0.26**

Assume PM10 = PM2.5

1. PM emission factor from AP-42, Chapter 11.12 Concrete Batching, Table 11.12-2 (updated June 2006) SCC 3-05-011-08

**METHODOLOGY**

PM/PM10 Emissions (lbs/hr) = PM/PM10 EF (lbs/ton) \* Process weight (tons/hour)

PM/PM10 Emissions (tons/yr) = PM/PM10 EF (lbs/ton) \* Process weight (tons/hour) \* 8760 hrs/yr \* 1 ton/2000 lbs

**Appendix A: Emissions Calculations  
Material Storage Piles**

**Company Name: Wheeler Corporation**  
**Address City IN Zip: 841 Elston Drive**  
**Permit Number: M145-30541-00076**  
**Plt ID: 145-00076**  
**Reviewer: Bruce Farrar**  
**Date: May 12, 2011**

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

$E_f = 1.7 \cdot (s/1.5) \cdot (365-p) / 235 \cdot (f/15)$ <p>where <math>E_f</math> = emission factor (lb/acre/day)  <math>s</math> = silt content (wt %)  <math>p</math> = 125 days of rain greater than or equal to 0.01 inches  <math>f</math> = 15% of wind greater than or equal to 12 mph</p>
--

Material	Silt Content (wt %) <sup>a</sup>	Emission Factor (lb/acre/day)	Maximum Anticipated Pile Size (acres)	Unlimited PTE of PM (tons/yr)	Unlimited PTE of PM10 (tons/yr)
Sand	2.6	3.01	0.12	0.066	0.023
peagravel	2.6	3.01	0.12	0.066	0.023
Haydite (light weight Aggregate)	2.6	3.01	0.12	0.066	0.023
Aggregate	2.6	3.01	0.12	0.066	0.023
Lime stone	1.6	1.85	0.01	0.004	0.001
<b>Totals</b>				<b>0.27</b>	<b>0.09</b>

**Methodology**

Limited PTE of PM (tons/yr) = [Emission Factor (lb/acre/day)] \* [Maximum Pile Size (acres)] \* (ton/2000 lbs) \* (8760 hours/yr)

Limited PTE of PM10 (tons/yr) = [Potential PM Emissions (tons/yr)] \* 35%

<sup>a</sup> Silt content values obtained from AP-42, Chapter 13.2.4 Aggregate Handling and Storage Piles, Table 13.2.4-1 (dated 1/95)

**Abbreviations**

PM = Particulate Matter  
 PM10 = Particulate Matter (<10 um)  
 PTE = Potential to Emit

**Appendix A: Emissions Calculations**

**Natural Gas Combustion Only**

**MM BTU/HR <100**

**Company Name: Wheeler Corporation**

**Address City IN Zip: 841 Elston Drive**

**Permit Number: M145-30541-00076**

**Plt ID: 145-00076**

**Reviewer: Bruce Farrar**

**Date: May 12, 2011**

Heat Input Capacity  
MMBtu/hr

Potential Throughput  
MMCF/yr

6.0

52.6

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.9	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.050	0.200	0.016	2.628	0.145	2.208

\*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

\*\*Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

**Methodology**

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

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

See page 8 for HAPs emissions calculations.

**Appendix A: Emissions Calculations**

**Natural Gas Combustion Only**

**MM BTU/HR <100**

**HAPs Emissions**

**Company Name: Wheeler Corporation**

**Address City IN Zip: 841 Elston Drive**

**Permit Number: M145-30541-00076**

**Plt ID: 145-00076**

**Reviewer: Bruce Farrar**

**Date: May 12, 2011**

HAPs - Organics					
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	5.519E-05	3.154E-05	1.971E-03	4.730E-02	8.935E-05

HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	1.314E-05	2.891E-05	3.679E-05	9.986E-06	5.519E-05

Methodology is the same as page 7.

The five highest organic and metal HAPs emission factors are provided above.

Additional HAPs emission factors are available in AP-42, Chapter 1.4.

See Page 9 for Greenhouse Gas calculations.

**Appendix A: Emissions Calculations**  
**Natural Gas Combustion Only**  
**MM BTU/HR <100**  
**Greenhouse Gas Emissions**

**Company Name: Wheeler Corporation**  
**Address City IN Zip: 841 Elston Drive**  
**Permit Number: M145-30541-00076**  
**Plt ID: 145-00076**  
**Reviewer: Bruce Farrar**  
**Date: May 12, 2011**

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120000	2.3	2.2
Potential Emission in tons/yr	3153.6	0.060444	0.057816
Summed Potential Emissions in tons/yr	3,153.72		
CO2e Total in tons/yr	3,172.79		

**Methodology**

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.

Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.

Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

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

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

**Appendix A: Emission Calculations  
Fugitive Dust Emissions - Unpaved Roads**

**Company Name:** Wheeler Corporation  
**Address City IN Zip:** 841 Elston Drive  
**Permit Number:** M145-30541-00076  
**Pit ID:** 145-00076  
**Reviewer:** Bruce Farrar  
**Date:** May 12, 2011

The following calculations determine the amount of emissions created by unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.2, Unpaved Roads (11/2006).

Vehicle Information (provided by source)

Type	Maximum number of vehicles	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight Loaded (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)
Vehicle (entering plant) (one-way trip)	1.0	1.0	10.0	24.0	240.0	264	0.050	0.5	182.5
Vehicle (leaving plant) (one-way trip)	1.0	1.0	10.0	24.0	240.0	264	0.050	0.5	182.5
Front end loader	1.0	1.0	50.0	4.0	200.0	26	0.005	0.3	91.3
<b>Total</b>			<b>70.0</b>		<b>680.0</b>			<b>1.3</b>	<b>456.3</b>

Average Vehicle Weight Per Trip =  $\frac{9.7}{0.02}$  tons/trip  
 Average Miles Per Trip =  $\frac{0.02}{1}$  miles/trip

Unmitigated Emission Factor,  $E_f = k \left[ \frac{s}{12} \right]^a \left[ \frac{W}{3} \right]^b$  (Equation 1a from AP-42 13.2.2)

	PM	PM10	PM2.5	
where k =	4.9	1.5	1.5	lb/mi = particle size multiplier (AP-42 Table 13.2.2-2 for Industrial Roads)
s =	4.8	4.8	4.8	% = mean % silt content of unpaved roads (AP-42 Table 13.2.2-1 Sand/Gravel Processing Plant)
a =	0.7	0.9	0.9	= constant (AP-42 Table 13.2.2-2 for Industrial Roads)
W =	35.0	35.0	35.0	tons = average vehicle weight (provided by source)
b =	0.45	0.45	0.45	= constant (AP-42 Table 13.2.2-2 for Industrial Roads)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor,  $E_{ext} = E_f \cdot \left[ \frac{365 - P}{365} \right]$  (Equation 2 from AP-42 13.2.2)

Mitigated Emission Factor,  $E_{ext} = \frac{E_f \cdot \left[ \frac{365 - P}{365} \right]}{125}$  days of rain greater than or equal to 0.01 inches (see Fig. 13.2.2-1)

	PM	PM10	PM2.5	
Unmitigated Emission Factor, $E_f$ =	7.79	1.99	1.99	lb/mile
Mitigated Emission Factor, $E_{ext}$ =	5.12	1.31	1.31	lb/mile
Dust Control Efficiency =	50%	50%	50%	(pursuant to control measures outlined in fugitive dust control plan)

Process	Unmitigated PTE of PM (tons/yr)	Unmitigated PTE of PM10 (tons/yr)	Unmitigated PTE of PM2.5 (tons/yr)	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM10 (tons/yr)	Mitigated PTE of PM2.5 (tons/yr)	Controlled PTE of PM (tons/yr)	Controlled PTE of PM10 (tons/yr)	Controlled PTE of PM2.5 (tons/yr)
Vehicle (entering plant) (one-way trip)	0.71	0.18	0.18	0.47	0.12	0.12	0.23	0.06	0.06
Vehicle (leaving plant) (one-way trip)	0.71	0.18	0.18	0.47	0.12	0.12	0.23	0.06	0.06
Front end loader	0.36	0.09	0.09	0.23	0.06	0.06	0.12	0.03	0.03
	<b>1.78</b>	<b>0.45</b>	<b>0.45</b>	<b>1.17</b>	<b>0.30</b>	<b>0.30</b>	<b>0.58</b>	<b>0.15</b>	<b>0.15</b>

**Methodology**

Total Weight driven per day (ton/day) = [Maximum Weight Loaded (tons/trip)] \* [Maximum trips per day (trip/day)]  
 Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip)] / [5280 ft/mile]  
 Maximum one-way miles (miles/day) = [Maximum trips per day (trip/day)] \* [Maximum one-way distance (mi/trip)]  
 Average Vehicle Weight Per Trip (ton/trip) = SUM[Total Weight driven per day (ton/day)] / SUM[Maximum trips per day (trip/day)]  
 Average Miles Per Trip (miles/trip) = SUM[Maximum one-way miles (miles/day)] / SUM[Maximum trips per day (trip/day)]  
 Unmitigated PTE (tons/yr) = (Maximum one-way miles (miles/yr)) \* (Unmitigated Emission Factor (lb/mile)) \* (ton/2000 lbs)  
 Mitigated PTE (tons/yr) = (Maximum one-way miles (miles/yr)) \* (Mitigated Emission Factor (lb/mile)) \* (ton/2000 lbs)  
 Controlled PTE (tons/yr) = (Mitigated PTE (tons/yr)) \* (1 - Dust Control Efficiency)

**Abbreviations**

PM = Particulate Matter  
 PM10 = Particulate Matter (<10 um)  
 PM2.5 = Particulate Matter (<2.5 um)  
 PTE = Potential to Emit



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
**Governor**

*Thomas W. Easterly*  
**Commissioner**

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## **SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED**

**TO:** David Wheeler  
Wheeler Corporation  
P.O. Box 283  
Shelbyville, IN 46176

**DATE:** September 13, 2011

**FROM:** Matt Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

**SUBJECT:** Final Decision  
MSOP  
145-30541-00076

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:  
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at [jbrush@idem.IN.gov](mailto:jbrush@idem.IN.gov).

Final Applicant Cover letter.dot 11/30/07



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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[www.idem.IN.gov](http://www.idem.IN.gov)

September 13, 2011

TO: Shelbyville – Shelby County Public Library

From: Matthew Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

Subject: **Important Information for Display Regarding a Final Determination**

**Applicant Name: Wheeler Corporation**  
**Permit Number: 145-30541-00076**

You previously received information to make available to the public during the public comment period of a draft permit. Enclosed is a copy of the final decision and supporting materials for the same project. Please place the enclosed information along with the information you previously received. To ensure that your patrons have ample opportunity to review the enclosed permit, **we ask that you retain this document for at least 60 days.**

The applicant is responsible for placing a copy of the application in your library. If the permit application is not on file, or if you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185.

Enclosures  
Final Library.dot 11/30/07

# Mail Code 61-53

IDEM Staff	MIDENNEY 9/13/2011 Wheeler Corporation 145-30541-00076 (final)		Type of Mail:  <b>CERTIFICATE OF MAILING ONLY</b>	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
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2		Mr. Charles L. Berger Attorney Berger & Berger, Attorneys at Law 313 Main Street Evansville IN 47700 (Affected Party)										
3		Mr. Hugh Garner 10203 S Degelow Road Milroy IN 46156 (Affected Party)										
4		Shelbyville City Council and Mayors Office 44 West Washington Shelbyville IN 46176 (Local Official)										
5		Shelby County Commissioners 25 West Polk Shelbyville IN 46176 (Local Official)										
6		Shelbyville Shelby Co Public 57 W Broadway Shelbyville IN 46176-1294 (Library)										
7		Shelby County Health Department 1600 E. SR 44B Shelbyville IN 46176 (Health Department)										
8		Margaret Brunk Shelby County Council PO Box 107 Fountaintown In 46130 (Affected Party)										
9		Tami Grubbs Shelby County Council 2961 N 100 W Shelbyville In 46176 (Affected Party)										
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