



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
LUCAS COUNTY**

CERTIFIED MAIL

Street Address:

122 S. Front Street

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

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 04-01368

DATE: 7/15/2004

Hanson Aggregates Midwest, Inc.
Robert Snyder
P.O. Box 278
Sylvania, OH 43560

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, Ohio 43215

Sincerely,

Michael W. Ahern, Supervisor
Field Operations and Permit Section
Division of Air Pollution Control

cc: USEPA

TDES



**Permit To Install
Terms and Conditions**

**Issue Date: 7/15/2004
Effective Date: 7/15/2004**

FINAL PERMIT TO INSTALL 04-01368

Application Number: 04-01368
APS Premise Number: 0448040003
Permit Fee: **\$550**
Name of Facility: Hanson Aggregates Midwest, Inc.
Person to Contact: Robert Snyder
Address: P.O. Box 278
Sylvania, OH 43560

Location of proposed air contaminant source(s) [emissions unit(s)]:
**4100 Centennial Road
Sylvania, Ohio**

Description of proposed emissions unit(s):
Addition of new conveyors at existing crushing plant in a quarry.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized

representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

9. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio

Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

10. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

11. Applicability

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

12. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

13. Source Operation and Operating Permit Requirements After Completion of Construction

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

6

Hanson Aggregates Midwest, Inc.
PTI Application: 04-01368
Issued: 7/15/2004

Facility ID: 0448040003

14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year(increase)</u>
PM10	19.75(7.75)

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>product loading</u>	<u>Applicable Rules/Requirements</u>
F002 - Aggregate (non-metallic mineral) processing plant: 750 tons aggregate per hour, truck dumping		OAC rule 3745-31-05(A)(3)
		OAC rule 3745-17-07 (B), (B)(1)
		OAC rule 3745-17-08 (B), (B)(3)
crushing & screening		NSPS OOO
		OAC rule 3745-17-07 (B), (B)(1)
		OAC rule 3745-17-08 (B), (B)(3)
plant conveyors & transfer points		NSPS OOO
		OAC rule 3745-17-07 (B), (B)(1)

OAC rule 3745-17- 08 (B), (B)(3)

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

OAC rule 3745-17-07 (B), (B)(1)

OAC rule 3745-17-08(B), (B)(3)

Applicable Emissions
Limitations/Control Measures

See II.A.2.a

See II.A.2.a

PM₁₀ - 4.5 pounds per hour, 19.75 tons per year.

Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.c through A.2.e).

See II.A.2.a

See II.A.2.a

Less than or equal to 15 percent opacity, as a 6-minute average, from any crusher. Less than or equal to 10 percent opacity, as a 6-minute average, from any screening operation.

See II.A.2.a

See II.A.2.a

Less than or equal to 10 percent opacity, as a 6-minute average.

See II.A.2.a

See II.A.2.a

Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.c through A.2.e).

2. Additional Terms and Conditions

2.a The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

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

- Primary, Secondary & Tertiary Crushing
- All Screening & Conveying operations
- Product loading & truck dumping

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

<u>material handling operation(s)</u>	<u>control measure(s)</u>
Truck dumping;	maintain or apply sufficient moisture, to adequately control the fugitive dust emissions, and minimize drop heights.
Crushing and screening;	maintain or apply sufficient moisture, to adequately control the fugitive dust emissions, and minimize drop heights.
Plant conveyors and transfer points;	maintain or apply sufficient moisture to control dust emissions from conveyors and transfer points; minimize drop heights
Product loading;	maintain or apply sufficient moisture, to adequately control the fugitive dust emissions, and minimize drop heights.

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

2.d For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable

requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

- 2.e Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rules 3745-17-07, 3745-17-08, and 3745-31-05.

B. Operational Restrictions

None

C. Monitoring and/or Record keeping Requirements

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

<u>material handling operation(s)</u>	<u>minimum inspection frequency</u>
truck dumping;	daily
crushing and screening operations;	daily
plant conveyors and transfer points;	daily
product loading;	daily

- 2. The above-mentioned inspections shall be performed during representative, normal operating conditions.
- 3. The permittee may, upon receipt of written approval from the Toledo Division of Environmental Services, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
- 4. The permittee shall maintain records of the following information:
 - a. The date and reason any required inspection was not performed;

Hanson Aggregates Midwest, Inc.

PTI Application: 04 01368

Issued

Facility ID: 0448040003

Emissions Unit ID: F002

- b. The date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s): and
- c. The dates the control measure(s) was (were) implemented.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation reports that identify any of the following occurrences:
 - a. Each day during which an inspection was not performed by the required frequency; and
 - b. Each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

E. Testing Requirements

1. Compliance with the visible emission limitation for the material handling, crushing, and screening operation(s) identified above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and where applicable, the modifications listed in 40 CFR, Part 60.675 and/or paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.
2. Ongoing compliance with the visible emission limitation for the material handling operation(s) identified above shall be considered adequate demonstration of compliance with the hourly and annual mass emission limitations. The limits were established using the appropriate emission factor(s) for PM₁₀ (AP-42 table 11.19.2-2, dated 1/1995) multiplied by the maximum throughput(max rated capacity for all equipment comprising this emissions unit) in tons per hour for each emission point. The annual limit was established using a one time calculation by taking the hourly limit times 8760 hours of operation and dividing by 2000 lbs/ton.
3. Within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility and at such other times as may be required by the Director of the Ohio EPA or the Toledo Division of Environmental Services(TDOES), the owner or operator of such facility shall conduct performance test(s) as specified above and furnish the Toledo Division of Environmental Services a written report of the results of such performance test(s). The permittee shall notify the TDOES using the most recent intent to test notification form, available at the OEPA's website, (<http://www.epa.state.oh.us/dapc/files/files.html>) at least 30 days prior to the testing.

F. Miscellaneous Requirements

13

Hanso

PTI A

Issued: 7/15/2004

Emissions Unit ID: **F002**

1. This PTI shall supercede PTI 04-1152 for source F002.

NEW SOURCE REVIEW FORM B

PTI Number: 04-01368 Facility ID: 0448040003

FACILITY NAME Hanson Aggregates Midwest, Inc.

FACILITY DESCRIPTION Addition of new conveyors at existing crushing plant in a quarry CITY/TWP Sylvania

SIC CODE 1422 SCC CODE 3-05-020-01,02-05,15 EMISSIONS UNIT ID F002

EMISSIONS UNIT DESCRIPTION 750 TPH Aggregate Plant (modification)

DATE INSTALLED Upon PTI issue

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter					
PM ₁₀	unclassified/attainment	4.5 lbs/hr	3.95	4.5 lbs/hr	19.75
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? OOO NESHAP? PSD? OFFSET POLICY?

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

10 % opacity from any screening operation, transfer point on belt conveyors, and 15% opacity from any crusher, based on NSPS Subpart OOO requirements.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? YES NO

IDENTIFY THE AIR CONTAMINANTS:

NEW SOURCE REVIEW FORM B

PTI Number: 04-01368 Facility ID: 0448040003

FACILITY NAME Hanson Aggregates Midwest, Inc.

FACILITY DESCRIPTION Addition of new conveyors at existing crushing plant in a quarry CITY/TWP Sylvania

Ohio EPA Permit to Install Information Form Please describe below any documentation which is being submitted with this recommendation (must be sent the same day). Electronic items should be submitted with the e-mail transmitting the PTI terms, and in software that CO can utilize. If mailing any hard copy, this section must be printed as a cover page. All items must be clearly labeled indicating the PTI name and number. Submit **hard copy items to Pam McGraner**, AQM&P, DAPC, Central Office, and electronic files to **airpti@epa.state.oh.us**

Please fill out the following. If the checkbox does not work, replace it with an 'X'

	<u>Electronic</u>	<u>Additional information File Name Convention (your PTI # plus this letter)</u>	<u>Hard Copy</u>	<u>None</u>
<u>Calculations (required)</u>	<input checked="" type="checkbox"/>	0000000c.wpd	<input type="checkbox"/>	
<u>Modeling form/results</u>	<input type="checkbox"/>	0000000s.wpd	<input type="checkbox"/>	<input type="checkbox"/>
<u>PTI Application (complete or partial)*</u>	<input type="checkbox"/>	0000000a.wpd	<input type="checkbox"/>	<input type="checkbox"/>
<u>BAT Study</u>	<input type="checkbox"/>	0000000b.wpd	<input type="checkbox"/>	<input type="checkbox"/>
<u>Other/misc.</u>	<input type="checkbox"/>	0000000t.wpd	<input type="checkbox"/>	<input type="checkbox"/>

* Mandatory for netting, PSD, nonattainment NSR, 112(g), 21-07(G)(9)(g) and 21-09(U)(2)(f) - 2 complete copies.

Please complete (see comment bubble to the left for additional instructions):

NSR Discussion

NONE

Please complete for these type permits (For PSD/NSR Permit, place mouse over this text):

Synthetic Minor Determination and/or **Netting Determination**
Permit To Install **ENTER PTI NUMBER HERE**

- A. Source Description
- B. Facility Emissions and Attainment Status
- C. Source Emissions
- D. Conclusion

PLEASE PROVIDE ADDITIONAL NOTES OR COMMENTS AS NECESSARY:

This section also serves as the modification briefing memo.

This PTI is for the modification of a 750 ton per hour crushing operation (in a quarry) located in Sylvania, Ohio. This PTI will supercede PTI 04-1152 for F002. The facility is adding 7 conveyors which will trigger a chapter 31 modification. Upon file reviews it was noted that the aggregate handling was calculated using a different approach for estimating PTE. This modification calculates conservatively the maximum PTE of the material handling and the crushing and screening operations. The total PM10 increase will only be 0.6 tpy from the additional equipment but the changes will reflect an increase of 7.75 tpy of PM10. This difference is due to a more conservative calculation assuming all of the equipment comprising this emissions unit could operate at 100% capacity 8760 hours per year. The PTI total

NEW SOURCE REVIEW FORM B

PTI Number: 04-01368 Facility ID: 0448040003

FACILITY NAME Hanson Aggregates Midwest, Inc.

FACILITY DESCRIPTION	Addition of new conveyors at existing crushing plant in a quarry	CITY/TWP	Sylvania
----------------------	--	----------	----------

allowable will be 19.75 tons PM10 per year. QuattroPro "04-01368 calcs.qpw" is attached in email (if not it is available from TDOES).

B.A.T. DETERMINATION

F002: B.A.T. is 10 % opacity from any screening operation, transfer point on belt conveyors, and 15% opacity from any crusher, based on NSPS Subpart OOO requirements. To comply with BAT adequate moisture (water spray, chemical dust suppressant, etc shall be used when needed) and minimizing drop heights, as well as enclosures.

APPLICABLE RULES & REGULATIONS

3745-31-05	Criteria for decision by the director.
3745-17-07	Control of visible particulate emissions from stationary sources.
3745-17-08	Restriction of emissions of fugitive dust.
NSPS Subpart OOO	Standards of Performance For Nonmetallic Mineral Processing Plants

NEW SOURCE REVIEW FORM B

PTI Number: 04-01368 Facility ID: 0448040003

FACILITY NAME Hanson Aggregates Midwest, Inc.

FACILITY DESCRIPTION Addition of new conveyors at existing crushing plant in a quarry CITY/TWP Sylvania

Hanson Aggregates Midwest, Inc. PTI#04-01368
 Crushing Screening and material handling operations F002

Ohio EPA Engineering Guide 25 S = Screen
 AP-42 13.2.4 Aggregate Handling and Storage Piles (1/1995)
 AP-42 11.19.2 Crushed Stone Processing (1/1995) PTE will be the same as the allowable.

Listing ALL possible Drop Points, assuming all operating at maximum (conservative maximum)
 Control will be adequate moisture and/or enclosure.

Emission Point	Max. Cap. (tons/hr)	PM-10 EF (AP-42) lb/ton	PM-10 EF (controlled) lb/ton	PM-10 lb/hr	PM-10 tpy 8760 hours
(1)Truck dump to VGF F-1	1000	1.60E-05	1.60E-05	1.60E-02	0.07
(2)VGF F-1 to C-1	250	4.80E-05	4.80E-05	1.20E-02	0.05
(3)VGF F-1 to CR-1	750	4.80E-05	4.80E-05	3.60E-02	0.16
(4)Primary Crusher CR-1	750	5.90E-04	5.90E-04	4.43E-01	1.94
(5)CR-1 to C-1	750	4.80E-05	4.80E-05	3.60E-02	0.16
(6) C-1 to C-2	250	4.80E-05	4.80E-05	1.20E-02	0.05
(7) C-2 to C-3	1000	4.80E-05	4.80E-05	4.80E-02	0.21
(8) C-3 to C-3A	1000	4.80E-05	4.80E-05	4.80E-02	0.21
(9) C-3A to Surge Pile	1000	4.80E-05	4.80E-05	4.80E-02	0.21
(10) Surge Pile to C-4	1000	4.80E-05	4.80E-05	4.80E-02	0.21
(11) C-4 to S-1	1000	4.80E-05	4.80E-05	4.80E-02	0.21
(12) S-1	1000	8.40E-04	8.40E-04	8.40E-01	3.68
(13) S-1 to C-5	1000	4.80E-05	4.80E-05	4.80E-02	0.21
(14) S-1 to C-9	250	4.80E-05	4.80E-05	1.20E-02	0.05
(15) S-1 to C-11	250	4.80E-05	4.80E-05	1.20E-02	0.05
(16) S-1 to C-16B	200	4.80E-05	4.80E-05	9.60E-03	0.04
(17) C-9 to C-10	250	4.80E-05	4.80E-05	1.20E-02	0.05
(18) C-10 to RIP RAP Pile	250	4.80E-05	4.80E-05	1.20E-02	0.05
(19) C-11 to S-2	250	4.80E-05	4.80E-05	1.20E-02	0.05
(20) C-11 to C-14	250	4.80E-05	4.80E-05	1.20E-02	0.05
(21) C-14 to C-15	250	4.80E-05	4.80E-05	1.20E-02	0.05
(22) C-15 to #304,#411,#21AA	250	4.80E-05	4.80E-05	1.20E-02	0.05
(23) S-2	450	8.40E-04	8.40E-04	3.78E-01	1.66
(24) S-2 to C-12	450	4.80E-05	4.80E-05	2.16E-02	0.09
(25) C-12 to C-13	200	4.80E-05	4.80E-05	9.60E-03	0.04
(26) C-13 to Aglime Screening Pile	200	4.80E-05	4.80E-05	9.60E-03	0.04
(27) S-2 to C-14	450	4.80E-05	4.80E-05	2.16E-02	0.09
(28) S-2 to C-16	450	4.80E-05	4.80E-05	2.16E-02	0.09
(29) C-16B to 30 Ton Surge	200	4.80E-05	4.80E-05	9.60E-03	0.04
(30) 30 Ton Surge to CR-4	200	4.80E-05	4.80E-05	9.60E-03	0.04
(31) CR-4	400	5.90E-04	5.90E-04	2.36E-01	1.03

NEW SOURCE REVIEW FORM B

PTI Number: 04-01368

Facility ID: 0448040003

FACILITY NAME Hanson Aggregates Midwest, Inc.

FACILITY DESCRIPTION	Addition of new conveyors at existing crushing plant in a quarry		CITY/TWP	Sylvania	
(32) CR-4 to C-16	200	4.80E-05	4.80E-05	9.60E-03	0.04
(33) C-16 to C-5	200	4.80E-05	4.80E-05	9.60E-03	0.04
(34) S-1 to CR-2	600	4.80E-05	4.80E-05	2.88E-02	0.13
(35) CR-2	170	5.90E-04	5.90E-04	1.00E-01	0.44
(36) C-5 to S-3	450	4.80E-05	4.80E-05	2.16E-02	0.09
(37) S-3	450	8.40E-04	8.40E-04	3.78E-01	1.66
(38) S-3 to C-6	450	4.80E-05	4.80E-05	2.16E-02	0.09
(39) C-6 to 30 Ton Surge	500	4.80E-05	4.80E-05	2.40E-02	0.11
(40) 30 ton surge to CR-3	500	4.80E-05	4.80E-05	2.40E-02	0.11
(41) CR-3	490	5.90E-04	5.90E-04	2.89E-01	1.27
(42) CR-3 to C-5	500	4.80E-05	4.80E-05	2.40E-02	0.11
(43) S-3 to C-7	450	4.80E-05	4.80E-05	2.16E-02	0.09
(44) C-7 to C-8	700	4.80E-05	4.80E-05	3.36E-02	0.15
(45) S-3 to C-27	450	4.80E-05	4.80E-05	2.16E-02	0.09
(46) S-3 to C-29	450	4.80E-05	4.80E-05	2.16E-02	0.09
(47) C-29 to C-30	100	4.80E-05	4.80E-05	4.80E-03	0.02
(48) C-30 to C-11	100	4.80E-05	4.80E-05	4.80E-03	0.02
(49) C-27 to SS-1	200	4.80E-05	4.80E-05	9.60E-03	0.04
(50) SS-1 to C-28	300	4.80E-05	4.80E-05	1.44E-02	0.06
(51) C-28 to Manu. Sand Pile	200	4.80E-05	4.80E-05	9.60E-03	0.04
(52) FLUME to SS-1	520	4.80E-05	4.80E-05	2.50E-02	0.11
(53) C-8 to S-4	450	4.80E-05	4.80E-05	2.16E-02	0.09
(54) C-8 to S-5	80	4.80E-05	4.80E-05	3.84E-03	0.02
(55) S-4	450	8.40E-04	8.40E-04	3.78E-01	1.66
(56) S-5	80	8.40E-04	8.40E-04	6.72E-02	0.29
(57) S-4 to C-19	400	4.80E-05	4.80E-05	1.92E-02	0.08
(58) S-4 to C-22	250	4.80E-05	4.80E-05	1.20E-02	0.05
(59) S-4 to C-17	200	5.90E-04	5.90E-04	1.18E-01	0.52
(60) S-4 to C-25	200	4.80E-05	4.80E-05	9.60E-03	0.04
(61) S-5 to C-19	80	4.80E-05	4.80E-05	3.84E-03	0.02
(62) S-5 to C-22	80	4.80E-05	4.80E-05	3.84E-03	0.02
(63) S-5 to C-17	80	4.80E-05	4.80E-05	3.84E-03	0.02
(64) S-5 to C-25	80	4.80E-05	4.80E-05	3.84E-03	0.02
(65) S-4 to Flume	450	4.80E-05	4.80E-05	2.16E-02	0.09
(66) S-5 to Flume	80	4.80E-05	4.80E-05	3.84E-03	0.02
(67) C-19 to C-20	400	4.80E-05	4.80E-05	1.92E-02	0.08
(68) C-20 to C-21	400	4.80E-05	4.80E-05	1.92E-02	0.08
(69) C-21 to Pile #57	400	4.80E-05	4.80E-05	1.92E-02	0.08
(70) C-22 to C-23	250	4.80E-05	4.80E-05	1.20E-02	0.05
(71) C-23 to C-24	250	4.80E-05	4.80E-05	1.20E-02	0.05
(72) C-24 to Pile #7	250	4.80E-05	4.80E-05	1.20E-02	0.05
(73) C-17 to C-18	200	4.80E-05	4.80E-05	9.60E-03	0.04
(74) C-18 to Pile #8	200	4.80E-05	4.80E-05	9.60E-03	0.04
(75) C-25 to C-26	200	4.80E-05	4.80E-05	9.60E-03	0.04
(76) C-26 to Pile #9	200	4.80E-05	4.80E-05	9.60E-03	0.04
(77) S-5 to C-31	80	4.80E-05	4.80E-05	3.84E-03	0.02
(78) C-31 to C-32	400	4.80E-05	4.80E-05	1.92E-02	0.08
(79) C-32 to C-33	400	4.80E-05	4.80E-05	1.92E-02	0.08
(80) C-33 to new pile	400	4.80E-05	4.80E-05	1.92E-02	0.08
(81) C-33 to C-43?	400	4.80E-05	4.80E-05	1.92E-02	0.08

NEW SOURCE REVIEW FORM B

PTI Number: 04-01368 Facility ID: 0448040003

FACILITY NAME Hanson Aggregates Midwest, Inc.

FACILITY DESCRIPTION	Addition of new conveyors at existing crushing plant in a quarry		CITY/TWP	Sylvania	
(82) C-40 to new pile	400	4.80E-05	4.80E-05	1.92E-02	0.08
PTI TOTAL				4.50454	19.73
Total increase from new conveyors					0.59
Total administrative increase					7.75
The actual emissions are estimated to be 20% of the PTE					3.95

NEW SOURCE REVIEW FORM B

PTI Number: 04-01368

Facility ID: 0448040003

FACILITY NAME Hanson Aggregates Midwest, Inc.

FACILITY DESCRIPTION	Addition of new conveyors at existing crushing plant in a quarry	CITY/TWP	Sylvania
----------------------	--	----------	----------

Please complete:**SUMMARY (for informational purposes only)****TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS****Pollutant****Tons Per Year(increase)****PM10****19.75(7.75)**