



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: 04-01418

Fac ID: 0448950001

DATE: 9/8/2005

Hanson Aggregates Midwest, Inc
Robert Syder
8130 Brint Road
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, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

CC: USEPA

TDES



**Permit To Install
Terms and Conditions**

**Issue Date: 9/8/2005
Effective Date: 9/8/2005**

FINAL PERMIT TO INSTALL 04-01418

Application Number: 04-01418
Facility ID: 0448950001
Permit Fee: **\$2700**
Name of Facility: Hanson Aggregates Midwest, Inc
Person to Contact: Robert Syder
Address: 8130 Brint Road
Sylvania, OH 43560

Location of proposed air contaminant source(s) [emissions unit(s)]:
**600 South River Road
Waterville, Ohio**

Description of proposed emissions unit(s):
Hewitt Robins (HR) Portable Aggregate Processing Plant.

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

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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)

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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.

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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.

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**

Pollutant
 PE

Tons Per Year
 73.7

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>Applicable Rules/Requirements</u>
F010 - Hewitt Robins (HR) Portable Aggregate Processing 3653 Plant - Raw material unloading, crushing (primary and secondary) and screening/rescreening operations, conveying, product loading (front-end loaders into trucks)	40 CFR Part 60, Subpart OOO
Transfer of aggregate to grizzly feeder	OAC rule 3745-31-05(A)(3)
	OAC rule 3745-17-07(B)(1)
	OAC rule 3745-17-08(B), (B)(3)

Applicable Emissions
Limitations/Control Measures

10% opacity as a 6-minute average, from any conveying or screening operation.

Particulate emissions (PE) of fugitive dust shall not exceed 0.86 pound per hour or 3.8 tons per year.

Visible emissions of fugitive dust shall not exceed 10% opacity as a three-minute average from the screening system.

Visible emissions of fugitive dust shall not exceed 10% opacity as a three-minute average from the transfer points.

Visible emissions of fugitive dust shall not exceed 20% opacity as a three-minute average from the front-end loader dumping into the grizzly feeder.

Visible emissions of fugitive dust shall not exceed 15% opacity as a six-minute average, from any crusher.

Best available control measures that are sufficient to minimize or eliminate visible

emissions of fugitive dust (see Sections II.A.2.a. through d.)

See Section II.A.2.e. and f.

See Section II.A.2.e. and f.

2. Additional Terms and Conditions

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

- (1) VGF 16x44 grizzly feeder
- (1) 3653 Hewitt-Robins Crusher
- All associated Conveying and Screening

2.b The permittee shall employ best available control measures for the above-identified screening and material handling operations 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 Operations</u>	<u>Control Measures</u>
Plant conveyors and transfer points the crushing station(s) to control dust emissions from all subsequent conveyors and transfer points	maintain or apply sufficient moisture at
front-end loader to crusher control dust emissions	maintain or apply sufficient moisture to
crushing and screening	enclose and control, by applying sufficient water to adequately control the fugitive dust emissions

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

2.c For each screening and material handling operation that is not adequately enclosed, the above-identified control measures 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 measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during the operation of the material handling operations until further observation confirms that use of the control measures is unnecessary.

2.d Implementation of the above-mentioned control measures in accordance with the

Emissions Unit ID: **F010**

terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

- 2.e** This emissions unit is a portable source and is applicable to the requirements of OAC rule 3745-17-07(B) and OAC rule 3745-17-08(B) when located in an "Appendix A" area as identified in OAC rule 3745-17-08. The emission limitations and control requirements established by OAC rule 3745-17-07(B) and OAC rule 3745-17-08(B) are equivalent to or less stringent than the requirements established pursuant to OAC rule 3745-31-05(A)(3).

When the emissions unit is not located within an "Appendix A" area as identified in OAC rule 3745-17-08, this emission unit is exempt from the requirements of OAC rule 3745-17-08(B) pursuant to OAC rule 3745-17-08(A) and is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B)(1) pursuant to OAC rule 3745-17-07(B)(11)(e).

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

B. Operational Restrictions

None.

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform daily inspections of all operations comprising this emissions unit.
2. The above-mentioned inspections shall be performed during representative, normal operating conditions.
3. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or Local Air Agency, 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;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;

- c. the dates the control measures were implemented; and
- d. on a calendar quarter basis, the total number of days the control measures were implemented.

The information in 4.d. shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

D. Reporting Requirements

1. The permittee shall submit 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.

The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

2. Pursuant to OAC rule 3745-31-03(A)(1)(p), the permittee of a portable emissions unit may relocate within the State of Ohio without first obtaining a permit to install (PTI) providing certain criteria are met. The portable emissions unit shall meet one of the two following scenarios in order to qualify for this PTI exemption for the new location:
 - a. The following determinations have been documented, pursuant to OAC rule 3745-31-03(A)(1)(p)(i):
 - i. the portable emissions unit is equipped with the best available technology for such portable emissions unit;
 - ii. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO) or registration status;
 - iii. the applicant has provided proper notice of intent to relocate the portable emissions unit to the City of Toledo, Division of Environmental Services and the appropriate field office having jurisdiction over the new site within

- a minimum of 30 days prior to the scheduled relocation; and
- iv. in the City of Toledo, Division of Environmental Services and the appropriate field office's (having jurisdiction over the new site) judgment, the proposed site is acceptable under OAC rule 3745-15-07.
- b. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable emissions unit may relocate within the State of Ohio without first obtaining a PTI, providing the following criteria of OAC rule 3745-31-05(E) are met:
- i. the portable emissions unit possesses an Ohio EPA PTI, PTO or registration status;
 - ii. the portable emissions unit is equipped with best available technology;
 - iii. the portable emissions unit owner has identified the proposed site to the Ohio EPA;
 - iv. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
 - v. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
 - vi. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
 - vii. the portable emissions unit owner has provided Ohio EPA with 15 days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), shall be valid for no longer than 3 years and are subject to renewal.

In order for the City of Toledo, Division of Environmental Services and the appropriate field office having jurisdiction over the new site to determine compliance with all the above criteria, the permittee of the portable emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of

Emissions Unit ID: **F010**

the emissions unit with the City of Toledo, Division of Environmental Services and the appropriate field office having jurisdiction over the new site. Upon receipt of the notice, the City of Toledo, Division of Environmental Services, and/or appropriate field office having jurisdiction over the new site will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive Ohio EPA approval prior to the relocation of the emissions unit may result in fines and civil penalties.

Pursuant to OAC rule 3745-31-05(F), the Director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.

3. The permittee shall, as required in 40 CFR Part 60.676(i), report the following at the appropriate times:
 - a. construction date (no later than 30 days after such date);
 - b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
 - c. actual start-up date (within 15 days after such date); and
 - d. date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
 DAPC - Permit Management Unit
 P.O. Box 163669
 Columbus, Ohio 43219-3669

and

Toledo Division of Environmental Services
 348 South Erie Street
 Toledo, Ohio 43602

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
 0.86 pound fugitive PE/hr

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 5, or approved alternate, of 40 CFR Part 60, Appendix A and Section 60.8 and the procedures in OAC rule 3745-17-03(B)(1) and 40 CFR Part 60.675.

The emissions limitation was calculated utilizing sums of the maximum hourly throughput rate at each process point and the emissions factor listed in AP-42, Fifth Edition, Crushed Stone and Pulverized Mineral Processing, Section 11.19.2, Table 11.19.2-2 (English Units), dated 8/04, as follows:

$$((200 \text{ tons/hr} * 1.60E-05 \text{ lb/ton}) + (2 * (150 \text{ tons/hr} * 1.60E-05 \text{ lb/ton})) + (150 \text{ tons/hr} * 0.0012 \text{ lb/ton}) + (4 * (150 \text{ tons/hr} * 0.00014 \text{ lb/ton})) + (200 \text{ tons/hr} * 0.00014 \text{ lb/ton}) + (200 \text{ tons/hr} * 0.0022 \text{ lb/ton}) + (3 * (100 \text{ tons/hr} * 0.00014 \text{ lb/ton})) + (3 * (10 \text{ tons/hr} * 0.00014 \text{ lb/ton})) + (50 \text{ tons/hr} * 0.0012 \text{ lb/ton}) + (50 \text{ tons/hr} * 0.00014 \text{ lb/ton}) + (2 * (40 \text{ tons/hr} * 0.00014 \text{ lb/ton})))$$

$$= 0.86 \text{ pound fugitive PE/hr}$$

b. Emission Limitation:

3.8 tons fugitive PE/yr

Applicable Compliance Method:

The 3.8 TPY emission limitation was developed by multiplying the 0.86 lb/hr emission rate by a maximum operating schedule of 8,760 hours/year and dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

c. Emission Limitation:

20% opacity, as a 3-minute average from front-end loader dumping into grizzly feeder.

Applicable Compliance Method:

If required, compliance shall be demonstrated using Test Method 9 as set forth

Emissions Unit ID: **F010**

in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources") as such Appendix existed on July 1, 2002, and the modifications listed in 40 CFR Part 60.675.

d. Emission Limitation:

10% opacity, as a 3-minute average from the screening system.

Applicable Compliance Method:

If required, compliance shall be demonstrated using 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, 2002, and the modifications listed in 40 CFR Part 60.675.

e. Emission Limitation:

10% opacity, as a 3-minute average from the transfer points.

Applicable Compliance Method:

If required, compliance shall be demonstrated using 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, 2002, and the modifications listed in 40 CFR Part 60.675.

2. The permittee shall conduct, or have conducted, emission testing for all emission points on this emissions unit required in 40 CFR Part 60.8 in accordance with the following requirements:
- a. The emission testing shall be conducted 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.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for particulate matter.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable visible emission or mass emission rate(s):
 - i. For opacity, as required by 40 CFR Part 60.675, Method 9 of 40 CFR Part 60, Appendix A and the procedures in 40 CFR Part 60.11;
 - ii. For particulate, Methods 1-5, or approved alternate, of 40 CFR Part 60, Appendix A.

- d. The test(s) shall be conducted while all of the emissions units are operating at or near their maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or Local Air Agency.
- e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or Local Air Agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s), date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in Ohio EPA District Office's or Local Air Agency's refusal to accept the results of the emission test(s).
- f. Personnel from the appropriate Ohio EPA District Office or Local Air Agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or performance of the control equipment.
- g. A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or Local Air Agency within 30 days following the completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or Local Air Agency.

F. Miscellaneous Requirements

None.

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

A. Applicable Emissions Limitations and/or Control Requirements

- 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>Wind erosion from storage piles</u>	<u>Applicable Rules/Requirements</u>
F011 - Hewitt Robins (HR) Portable Aggregate Processing 3653 Plant: aggregate storage piles	Wind erosion from storage piles	OAC rule 3745-31-05(A)(3)
Load-in and load-out of storage piles		OAC rule 3745-17-07(B)(6) OAC rule 3745-17-08(B), (B)(3), (B)(6), (B)(7) OAC rule 3745-31-05(A)(3)

Applicable Emissions
Limitations/Control Measures

eliminate visible emissions of fugitive dust (see Sections II.A.2.a through II.A.2.f)

OAC rule 3745-17-07(B)(6)

Particulate emissions (PE) of fugitive dust shall not exceed 5.63 pounds per hour or 24.6 tons per year from load-in and load-out operations.

See Section II.A.2.g.

OAC rule 3745-17-08(B), (B)(3), (B)(6), (B)(7)

There shall be no visible emissions of fugitive dust except for a period of time not to exceed one minute in any 60-minute observation period.

See Section II.A.2.g.

The permittee shall employ best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections II.A.2.a through II.A.2.f).

See Section II.A.2.g.

See Section II.A.2.g.

Particulate emissions (PE) of fugitive dust shall not exceed 9.33 pounds per hour or 40.8 tons per year from wind erosion. There shall be no visible emissions except for a period of time not to exceed one minute during any 60-minute observation period.

Best available control measures that are sufficient to minimize or

2. Additional Terms and Conditions

- 2.a** All storage piles are covered by this permit and are subject to the above-mentioned requirements.
- 2.b** The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles 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 watering the storage piles as needed to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.c** The above-mentioned control measures shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during any such operation until further observation confirms that use of the measure is unnecessary.
- 2.d** The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles 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 watering the storage piles as needed to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.e** The above-mentioned control measures shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measures shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.
- 2.f** Implementation of the above-mentioned control measures in accordance with terms and conditions of this permit is appropriate and sufficient to satisfy the

requirements of OAC rules 3745-17-08 and 3745-31-05.

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

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform daily inspections of each of the above-identified processes at each storage pile.
2. No inspection shall be necessary for wind erosion from the surface of a storage pile when the storage pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
3. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile and for wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.
4. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or Local Air Agency, 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.
5. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;

- c. the dates the control measures were implemented; and
- d. on a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in 5.d. shall be kept separately for (i) load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated in a calendar quarter basis within 30 days after the end of each calendar quarter.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.
3. Pursuant to OAC rule 3745-31-03(A)(1)(p), the permittee of a portable emissions unit may relocate within the State of Ohio without first obtaining a permit to install (PTI) providing certain criteria are met. The portable emissions unit shall meet one of the two following scenarios in order to qualify for this PTI exemption for the new location:
 - a. The following determinations have been documented, pursuant to OAC rule 3745-31-03(A)(1)(p)(i):
 - i. the portable emissions unit is equipped with the best available technology for such portable emissions unit;
 - ii. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO) or registration status;

- iii. the applicant has provided proper notice of intent to relocate the portable emissions unit to the City of Toledo, Division of Environmental Services and the appropriate field office having jurisdiction over the new site within a minimum of 30 days prior to the scheduled relocation; and
 - iv. in the City of Toledo, Division of Environmental Services and the appropriate field office's (having jurisdiction over the new site) judgment, the proposed site is acceptable under OAC rule 3745-15-07.
- b. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable emissions unit may relocate within the State of Ohio without first obtaining a PTI, providing the following criteria of OAC rule 3745-31-05(E) are met:
- i. the portable emissions unit possesses an Ohio EPA PTI, PTO or registration status;
 - ii. the portable emissions unit is equipped with best available technology;
 - iii. the portable emissions unit owner has identified the proposed site to the Ohio EPA;
 - iv. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
 - v. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
 - vi. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
 - vii. the portable emissions unit owner has provided Ohio EPA with 15 days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), shall be valid for no longer than 3 years and are subject to renewal.

In order for the City of Toledo, Division of Environmental Services and the appropriate

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field office having jurisdiction over the new site to determine compliance with all the above criteria, the permittee of the portable emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the City of Toledo, Division of Environmental Services and the appropriate field office having jurisdiction over the new site. Upon receipt of the notice, the City of Toledo, Division of Environmental Services, and/or appropriate field office having jurisdiction over the new site will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive Ohio EPA approval prior to the relocation of the emissions unit may result in fines and civil penalties.

Pursuant to OAC rule 3745-31-05(F), the Director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1. of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:

There shall be no visible emissions of fugitive dust except for a period of time not to exceed one minute in any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the visible emission limitations for storage piles identified above shall be determined in accordance with Test Method 22 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 the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

- b. Emission Limitation:

The emissions of fugitive dust shall not exceed 5.63 lbs PE/hr total for all three storage piles included under this permit.

Applicable Compliance Method:

If required, compliance shall be demonstrated by utilizing the following calculations to determine the emission limitation. The emission limitation was established by combining the emissions from load-in and load-out operations and from wind erosion from each storage pile as listed in the permittee's application. Load-in and load-out operation emissions are based on a maximum load-in rate of 30 tons per hour and load-out rate of 200 tons per hour tons per year of aggregate. Wind erosion emissions are based on a maximum storage pile surface area of two acres as listed in the permit application:

The emission rate was determined as follows:

1. Load-in/load-out of piles - emissions associated with load-in/load-out operations were established by calculating the emission factor as depicted in AP-42 Section 13.2.4-3 (Eq. 1), dated 1/95 as follows:

$$\text{Emission factor} = k * 0.0032 * ((U/5)^{1.3}) / ((M/2)^{1.4})$$

where:

$$k = 0.74 \text{ for PE}$$

$$U = 9.5 \text{ mph}$$

$$M = 1.5\%$$

$$= 0.74 * 0.0032 * ((9.5/5)^{1.3}) / ((1.5/2)^{1.4})$$

$$= 0.0082 \text{ lb PE/ton}$$

Given 200 tons per hour for load-out and 30 tons per hour for load-in:

$$\text{Emission rate} = (200 \text{ TPH} + 30 \text{ TPH}) * 0.0082 \text{ lb PE/ton}$$

$$= 1.88 \text{ lbs PE/hr per storage pile}$$

$$= 5.63 \text{ lbs PE/hr total}$$

c. Emission Limitation:

The emissions of fugitive dust shall not exceed 24.6 tons PE/year total for all three storage piles included under this permit.

Applicable Compliance Method:

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The 24.6 TPY emission limitation was developed by multiplying the 5.63 lbs PE/hr emission rate by 8,760 hrs/yr multiplied and dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation

d. Emission Limitation:

The emissions of fugitive dust shall not exceed 9.33 lbs PE/hr total for wind erosion from all three storage piles included under this permit.

Applicable Compliance Method:

Wind erosion - emissions associated with wind erosion were established by calculating the emission factor as depicted in RACM, Section 2.1.2 Aggregate Storage Piles, dated 9/80 as follows:

$$\text{Emission factor} = 0.05 * (S/1.5) * (D/90) * (d/235) * (f/15)$$

where:

S = silt content, 4%

D = Duration of storage, 76 days

d = dry days per year, 134 days

f = % of time wind exceeds 12 mph, 20%

$$= 0.05 * (4/1.5) * (76/90) * (134/235) * (20/15)$$

$$= 0.09 \text{ lb PE/ton}$$

Given a maximum operating schedule of 8,760 hours/year, a maximum estimated storage of 230 TPH, and an 85% control efficiency for maintaining moisture content:

$$\text{Emission rate} = 0.09 \text{ lbs PE/ton} * 230 \text{ tons/hr} * 0.15$$

$$= 3.11 \text{ lbs PE/hr for wind erosion per storage pile}$$

$$= 9.33 \text{ lbs PE/hr for wind erosion for all 3 storage piles}$$

e. Emission Limitation:

The emissions of fugitive dust shall not exceed 40.8 tons PE/yr total for wind erosion from all three storage piles included under this permit.

Applicable Compliance Method:

The 40.8 TPY emission limitation was developed by multiplying the 9.33 lbs PE/hr emission rate by 8,760 hrs/yr and dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation

F. Miscellaneous Requirements

None

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>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F012 - Hewitt Robins (HR) Portable Aggregate Processing 3653 Plant: unpaved roadways and parking areas.	OAC rule 3745-31-05(A)(3)	Fugitive particulate emissions (PE) shall not exceed 1.03 pounds per hour or 4.5 tons per year. There shall be no visible particulate emissions from any unpaved roadway or parking area except for a period of time not to exceed three minutes during any 60-minute observation period. Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections II.A.2.a through II.A.2.i.)
	OAC rule 3745-17-07(B)(5)	See Section II.A.2.j.
	OAC rule 3745-17-08(B), (B)(2), (B)(7), (B)(8), (B)(9)	See Section II.A.2.j.

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control measures on all unpaved roadways and parking areas 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 treat the unpaved roadways and parking areas with water at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.b** The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for an unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- 2.c** Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled using appropriate dust control measures for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to a visible emission limitation of no visible particulate emissions except for one minute during any 60-minute period.
- 2.d** In accordance with the permittee's permit application, the permittee has committed to promptly remove all foreign materials from the paved entrance by utilizing a water truck to flush the paved entrance.

The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means

- 2.e** Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- 2.f** Implementation of the above-mentioned control measures in accordance with the

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terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05, OAC rule 3745-17-08 and OAC rule 3745-17-07.

- 2.g The hourly particulate emission limitations specified above are based upon the emission unit's potential to emit. Therefore, no hourly records are required to be maintained to demonstrate compliance with these limitations.
- 2.h The annual particulate emission limitations specified above are based upon the emission unit's potential to emit at the annual throughput restriction of 320,000 tons/year contained in the associated emissions unit, F010. Therefore, no annual emission records are required to be maintained for this emissions unit to demonstrate compliance with these limitations.
- 2.i The unpaved roadways and parking areas are associated with the tertiary crushers, recrushers, and conveyors (emissions unit F001) permitted under facility ID 0448000004. The emission limitation of 0.20 ton fugitive PE/yr represents the maximum emissions which will be emitted from the unpaved roadways and parking areas for any proposed site for relocation of the portable screening system.

The roadways are associated with a portable source and are applicable to the requirements of OAC rule 3745-17-07(B) and 3745-17-08(B) when located in an "Appendix A" area as identified in OAC rule 3745-17-08. The emission limitations and control requirements established by OAC rule 3745-17-07 (B) and OAC rule 3745-17-08(B) are less stringent than the requirements established pursuant to OAC rule 3745-31-05(A)(3).

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

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform daily inspections of all unpaved roadways and parking areas comprising this emissions unit.
2. The purpose of the inspections is to determine the need for implementing the

above-mentioned control measures, The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

3. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, 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, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not required the control measures.

The information required in 4.d. shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

D. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and

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- b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.
3. Pursuant to OAC rule 3745-31-03(A)(1)(p), the permittee of a portable emissions unit may relocate within the State of Ohio without first obtaining a permit to install (PTI) providing certain criteria are met. The portable emissions unit shall meet one of the two following scenarios in order to qualify for this PTI exemption for the new location:
 - a. The following determinations have been documented, pursuant to OAC rule 3745-31-03(A)(1)(p)(i):
 - i. the portable emissions unit is equipped with the best available technology for such portable emissions unit;
 - ii. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO) or registration status;
 - iii. the applicant has provided proper notice of intent to relocate the portable emissions unit to the City of Toledo, Division of Environmental Services and the appropriate field office having jurisdiction over the new site within a minimum of 30 days prior to the scheduled relocation; and
 - iv. in the City of Toledo, Division of Environmental Services and the appropriate field office's (having jurisdiction over the new site) judgment, the proposed site is acceptable under OAC rule 3745-15-07.
 - b. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable emissions unit may relocate within the State of Ohio without first obtaining a PTI, providing the following criteria of OAC rule 3745-31-05(E) are met:
 - i. the portable emissions unit possesses an Ohio EPA PTI, PTO or registration status;
 - ii. the portable emissions unit is equipped with best available technology;
 - iii. the portable emissions unit owner has identified the proposed site to the Ohio EPA;

- iv. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
- v. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
- vi. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
- vii. the portable emissions unit owner has provided Ohio EPA with 15 days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), shall be valid for no longer than 3 years and are subject to renewal.

In order for the City of Toledo, Division of Environmental Services and the appropriate field office having jurisdiction over the new site to determine compliance with all the above criteria, the permittee of the portable emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the City of Toledo, Division of Environmental Services and the appropriate field office having jurisdiction over the new site. Upon receipt of the notice, the City of Toledo, Division of Environmental Services, and/or appropriate field office having jurisdiction over the new site will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive Ohio EPA approval prior to the relocation of the emissions unit may result in fines and civil penalties.

Pursuant to OAC rule 3745-31-05(F), the Director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.

E. Testing Requirements

1. Compliance with the emission limitations in Section A.1. of the terms and conditions of this permit shall be determined in accordance with the following methods:

a. Emission Limitation:

There shall be no visible particulate emissions from any unpaved roadway or parking area except for a period of time not to exceed three minutes during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the emission limitation for the unpaved roadways and parking areas identified above shall be determined in accordance with Test Method 22 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, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

b. Emission Limitation:

The emissions of fugitive dust shall not exceed 1.03 pounds of particulate emissions (PE) per hour.

Applicable Compliance Method:

If required, compliance shall be demonstrated by summing the unpaved parking and roadway segments using the following procedure for each segment of traffic:

Unpaved roadways:

$$\text{Emission factor} = (k * ((s/12)^{0.7} * (S/30)) / ((M/0.5) - C)$$

Where:

k = constant, 4.9 for PE (particle size multiplier for pounds/VMT)

s = silt content, 4.8%

S = average vehicle speed (mph), 15

M = Moisture content, 4% (loader) 10% (customer trucks)

C = Emission factor for 1980s vehicle fleet exhaust, brake wear and tire tear, 0.00047

$$\begin{aligned} \text{Emission factor} &= 4.9 * (4.8/12)^{0.7} * (15/30) / ((4/0.5) - 0.00047) \\ &= 0.16 \text{ lb/VMT (loader)} \end{aligned}$$

$$= 4.9 * (4.8/12)^{0.7} * (15/30) / ((10/0.5) - 0.00047)$$

$$= 0.06 \text{ lb/VMT (customer trucks)}$$

Vehicle Miles Traveled (VMT)

Maximum production, 200 tons/hr
8,760 hrs/yr
Truck capacity, 15 tons
Distance traveled per trip, 0.35 miles

$$\text{VMT} = (200 \text{ tons/hr} * 8,760 \text{ hrs/yr} * 0.35 \text{ miles}) / 15 \text{ tons}$$

$$= 40,880 \text{ VMT}$$

Given 40,880 VMT/yr, PE emission limitation is:

$$= 0.16 \text{ lb/VMT} * 40,880 \text{ VMT/yr} / 8,760 \text{ hr/yr}$$

$$= 0.75 \text{ lb/hr (loader)}$$

$$= 0.06 \text{ lb/VMT} * 40,880 \text{ VMT/yr} / 8,760 \text{ hr/yr}$$

$$= 0.28 \text{ lb/hr (customer trucks)}$$

$$\text{Total emission limit} = 0.75 \text{ lb/hr} + 0.28 \text{ lb/hr}$$

$$= 1.03 \text{ lb/hr}$$

c. Emission Limitation:

The emissions of fugitive dust shall not exceed 4.5 TPY of particulate emissions (PE).

Applicable Compliance Method:

The 4.5 TPY emission limitation was developed by multiplying the 1.03 lbs/hr emission rate by 8,760 hrs/yr and dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

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F. Miscellaneous Requirements

None