Facility ID: 1652950005 Issuance type: Final State Permit To Operate

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In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

(a) None.

2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

(a) None.

A. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Portable 350 TPH Aggregate Processing/Crushing Plant #3 -BL-Pegson TrakPactor 4242 System	OAC rule 3745-31-05(A)(3) (PTI 16-02306)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07, OAC rule 3745-17-08, OAC rule 3745-17-11, OAC rule 3745-18-06, OAC rule 3745-21-07, OAC rule 3745-21-08, OAC rule 3745-23-06, and 40 CFR Part 60 Subpart OOO. 2.51 tpy particulate (fugitive emissions) See A.2.a below.
CAT 3306 - 294 HP diesel fired engine - 1.13 mmBtu/hr	OAC rule 3745-31-05(A)(3)	4.97 lbs/hr nitrogen oxides (NOx) 21.79 tpy NOx 1.07 lbs/hr carbon monoxide (CO) 4.69 tpy CO 0.33 lb/hr sulfur dioxide (SO2) 1.43 tpy SO2 0.35 lb/hr particulate 01.53 tpy particulate 0.39 lb/hr volatile organic compounds (VOC) 1.73 tpy VOC 5% opacity as a 6-minute average (stack emissions) See A.2.a & B.1 below. See A.2.h below.
	OAC rule 3745-17-07(A)(1)	0.310 lb/mmBtu particulate
	OAC rule 3745-17-11(B)(5)(a)	See A.2.i below.
	OAC rule 3745-18-06(G)	See A.2.j below.
	OAC rule 3745-21-07(B)	See A.2.j below.
	OAC rule 3745-21-08(B)	See A.2.j below.
	OAC rule 3745-23-06(B)	

Crushing operations - primary impact crusher	OAC rule 3745-31-05(A)(3)	Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See Section A.2.b below.) See A.2.h below.
	OAC rule 3745-17-07	See A.2.h below.
	OAC rule 3745-17-08 40 CFR Part 60 Subpart OOO	No permittee shall cause to be discharged into the atmosphere from any crusher, at which a capture system is not used, fugitive emissions which exhibit greater than 15 percent opacity.(see Section A.2.g).
Material Handling - conveyor transfer points (3 belt conveyors) - front-end loader dumping onto vibrating grizzly feeder	OAC rule 3745-31-05(A)(3)	10% opacity as a 3-minute average (front-end loader dumping onto vibrating grizzly feeder) (See Sections A.2.b through A.2.f below.) Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See Section A.2.b below.) See A.2.h below.
	OAC rule 3745-17-07	See A.2.h below.
	OAC rule 3745-17-08 40 CFR Part 60 Subpart OOO	No permittee shall cause to be discharged into the atmosphere from any transfer point any fugitive emissions which exhibit greater than 10 percent opacity (see Section A.2.g).

2. **Additional Terms and Conditions**

(a) The emission limitation was established for PTI purposes to reflect the potential to emit for this emission unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.
The permittee shall employ reasonably available control measures to minimize or eliminate visible emissions of fugitive dust from emissions unit F001. If the inherent moisture in the aggregate is not sufficient to comply with the opacity restrictions of this permit, the permittee shall install equipment to apply water, or any other suitable dust suppressant, at appropriate locations in the production line.
The material handling operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:

Front-end loader - vibrating grizzly feeder
Vibrating grizzly feeder - primary crusher
Primary crusher - product conveyor
Vibrating grizzly feeder - dirt conveyor
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:

material handling operation(s) control measure(s)

front-end loader dumping onto maintain a low drop height and a high
vibrating gizzly feeder moisture content for the material being processed

all conveyor and transfer points maintain a high moisture content for the material being processed

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
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.
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 rule 3745-31-05.
Compliance with the opacity limitations shall have been achieved on and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup.
The emissions limit based on this applicable rule is less stringent than the limit established pursuant to either OAC rule 3745-31-05 or 40 CFR 60 Subpart OOO.
This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(B).
The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) and the "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-07(B) and 3745-23-06(b) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3).

B. **Operational Restrictions**

1. The permittee shall only use diesel fuel (number 2 fuel oil) with a maximum sulfur content of 0.5 percent by weight for combustion in this emissions unit.

C. **Monitoring and/or Record Keeping Requirements**

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the crushing operations. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

   a. the color of the emissions;

   b. whether the emissions are representative of normal operations;

   c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;

   d. the total duration of any visible emission incident; and

   e. any corrective actions taken to eliminate the visible emissions.

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

   material handling operation(s) minimum inspection frequency

   All Daily

3. The above-mentioned inspections shall be performed during representative, normal 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;

   b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s):

   c. the dates the control measure(s) was (were) implemented; and

   d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

   The information in 5.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.

6. The permittee shall maintain record of the dates and places in which this emissions unit is relocated.

7. For each day which the permittee burns a fuel other than diesel fuel, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit. The permittee shall also maintain documentation of the sulfur content of all fuels received.

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; and

   b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented; and

   c. each day during which any visible particulate emissions were observed from the crushing operations serving this emissions unit, and all corrective actions taken to eliminate the visible particulate emissions.

   d. each day during which a fuel other than diesel fuel with a maximum sulfur content of 0.5 percent by weight was burned in this emissions unit.

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

3. The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in 40 CFR Part 60, Subpart OOO, including the reports of opacity observations made using Method 9 to demonstrate compliance with this subpart.

4. The permittee of any belt conveyor that processes saturated material and is subject to the no visible emission limit and subsequently processes unsaturated materials, shall submit a report of this change within 30 days following such change. This belt conveyor is then subject to the 10 percent opacity limit and the emission test requirements of Section 60.11 of 40 CFR Part 60, subpart A and 40 CFR Part 60, subpart OOO. Likewise a belt conveyor that processes unsaturated material but subsequently processes saturated material shall submit a report of this change within 30 days following such change. This belt conveyor is then subject to the no visible emission limit.

5. The permittee shall submit the following information for each piece of equipment that is replaced by a piece of equipment having the same function as the existing facility:

   a. for a crusher grinding mill, bagging operation, or enclosed truck or railcar loading station:

      i. the rated capacity in tons per hour of the existing facility being replaced, and

ii. the rated capacity in tons per hour of the replacement equipment;

b. for a conveyor belt:

i. the width of the existing belt being replaced, and

ii. the width of the replacement conveyor belt; and

c. for a storage bin:

i. the rated capacity in tons of the existing bin being replaced, and

ii. the rated capacity in tons of replacement storage bins.

The notification shall be submitted within 30 days after equipment replacement.

6. Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to 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).

The reports shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Air Quality Modeling and Planning
P.O. Box 1049
Columbus, OH 43216-1049

and

Akron Regional Air Quality Management District
146 South High Street, Room 904
Akron, OH 44308

E. **Testing Requirements**

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
The emission testing shall be conducted within 90 days after the final issuance of this permit.
The emission testing shall be conducted to demonstrate compliance with opacity emission limitations for the primary crusher and transfer points listed in Section A.2.c of these terms and conditions with an emission limitation of 10%(transfer points) & 15%(crusher) opacity and subject to 40 CFR Part 60, subpart OOO. The emission testing is not required for wet screening operations and subsequent screening operations, and belt conveyors that process saturated material in the production line up to, but not including the next crusher, grinding mill or storage bin, or for screening operations, and belt conveyors in the production line downstream of wet mining operations, that process saturated materials up to the first crusher, grinding mill, or storage bin in the production line.
The following test method(s) shall be employed to demonstrate compliance: for particulate emissions Method 9 of 40 CFR Part 60, Appendix A and the procedures in Section 60.11 of 40 CFR Part 60, subpart A, with the following additions:

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

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

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

When demonstrating compliance with the fugitive emissions standard for any crusher at which a capture system is not used as described under Section 60.672(c) of 40 CFR Part 60, subpart OOO, the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply:

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

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

When demonstrating compliance with the fugitive emissions standard for the transfer points listed in Section A.2.c of these terms and conditions with an emission limitation of 10% opacity and subject to 40 CFR Part 60, subpart OOO, the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply:

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

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

The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

2. 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) and 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 the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

3. 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 the performance of the control equipment.

4. A comprehensive written report on the results of the emissions 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 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.

5. The initial performance tests required in Sections E.1 through E.4 of these terms and conditions is not required for wet screening operations and subsequent screening operations, and belt conveyors that process saturated material in the production line up to, but not including the next crusher, grinding mill, or storage bin.

6. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
Emission Limitation:

2.51 tpy particulate

Applicable Compliance Method:

Total Emissions = crushing + transfer points

Crushing: for each crusher, multiply the AP-42 (9/95, Table 11.19.2-2) emission factor of 0.00059 lb PM-10/ton by 2.1 to convert the emission factor to total particulate and then multiply the result by the maximum process weight rate and divide the result by 2,000.

Transfer points: for each transfer point, multiply the AP-42 (9/95, Table 11.19.2-2) emission factor of 4.8 x 10-5 lb PM-10/ton by 2.1 to convert the emission factor to total particulate and then multiply the result by the maximum process weight rate and divide the result by 2,000.
Emission Limitation:

10% opacity as a 3-minute average
(front-end loader dumping onto grizzly feeder)

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)
Emission Limitation:

15% opacity for crushing operations
10% opacity for material handling operations

Applicable Compliance Method:

Compliance shall be demonstrated using US EPA Method 9 of 40 CFR Part 60, Appendix A and the procedures in 40 CFR Part 60, Subpart OOO as specified in sections E.1 through E.5 above.
Emission Limitation:

5% opacity as a 6-minute average (stack emissions)

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)
Emission Limitation:

4.97 lbs/hr nitrogen oxides (NOx)
21.79 tpy NOx

Applicable Compliance Method:

To demonstrate compliance with the hourly emission limitation, multiply the AP-42 (10/96) Table 3.3-1 NOx emission factor of 4.41 lb/MMBtu by the maximum heat input of the engine (1.13 MMBtu/hr). Compliance with the annual limitation shall be demonstrated by multiplying the hourly emission rate by 8760 hour/year and divide by 2000 to convert to tons.
Emission Limitation:

1.07 lbs/hr carbon monoxide (CO)

4.69 tpy CO

Applicable Compliance Method:

To demonstrate compliance with the hourly emission limitation, multiply the AP-42 (10/96) Table 3.3-1 CO emission factor of 0.95 lb/MMBtu by the maximum heat input of the engine (1.13 MMBtu/hr). Compliance with the annual limitation shall be demonstrated by multiplying the hourly emission rate by 8760 hour/year and divide by 2000 to convert to tons.
Emission Limitation:

0.33 lb/hr sulfur dioxide (SO2)
1.43 tpy SO2

Applicable Compliance Method:

To demonstrate compliance with the hourly emission limitation, multiply the AP-42 (10/96) Table 3.3-1 SO2 emission factor of 0.29 lb/MMBtu by the maximum heat input of the engine (1.13 MMBtu/hr). Compliance with the annual limitation shall be demonstrated by multiplying the hourly emission rate by 8760 hour/year and divide by 2000 to convert to tons.
Emission Limitation:

0.310 lb/mmBtu particulate
0.35 lb/hr particulate
1.53 tpy particulate

Applicable Compliance Method:

To demonstrate compliance with the hourly emission limitation, multiply the AP-42 (10/96) Table 3.3-1 PM-10 emission factor of 0.31 lb/MMBtu by the maximum heat input of the engine (1.13 MMBtu/hr). Compliance with the annual limitation shall be demonstrated by multiplying the hourly emission rate by 8760 hour/year and divide by 2000 to convert to tons.
Emission Limitation:

0.39 lb/hr volatile organic compounds (VOC)
1.73 tpy VOC

Applicable Compliance Method:

To demonstrate compliance with the hourly emission limitation, multiply the AP-42 (10/96) Table 3.3-1 VOC emission factor of 0.35 lb/MMBtu by the maximum heat input of the engine (1.13 MMBtu/hr). Compliance with the annual limitation shall be demonstrated by multiplying the hourly emission rate by 8760 hour/year and divide by 2000 to convert to tons.

F. **Miscellaneous Requirements**

1. Notice to Relocate a Portable or Mobile Source
Pursuant to Ohio Administrative Code (OAC) rule 3754-31-03 (A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a Permit to Install (PTI) providing the following criteria are met:

i. the portable emissions unit is equipped with the best available control technology for such portable emission unit;

ii. the portable emissions unit is operating pursuant to a currently effective Permit to Operate (PTO);

iii. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Akron Regional Air Quality Management District (ARAQMD) and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and

iv. in the ARAQMD's and the appropriate field offices's judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.

In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a (PTI) providing the following criteria of OAC rule 3745-31-05(F) are met:

i. the portable emissions unit permitee possesses an Ohio Environmental Protection Agency (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 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 Chapter 3745-47 of the Administrative Code, 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 fifteen days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to F.1.a or F.1.b above, shall be valid for no longer than three years and are subject to renewal.

In order for the ARAQMD and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the permittee of the portable or mobile 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 ARAQMD (146 S. High Street, Suite 904, Akron, OH 44308) and the appropriate field office having jurisdiction over the new site. Upon receipt of the notice, the ARAQMD, 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 Environmental Protection Agency approval prior to relocation of the emissions unit may result in fines and civil penalties.

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

   (a) None.

2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

   (a) None.

A. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Unpaved roadways and parking areas associated with portable crusher (F001)	OAC rule 3745-31-05(A)(3) (PTI 16-02306)	The requirements of this rule also include compliance with OAC rule 3745-17-07 and OAC rule 3745-17-08. 0.47 tpy particulate See A.2.a below. no visible particulate emissions except for 3 minutes during any 60-minute period best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.c through A.2.i) See A.2.b below. See A.2.b below.
	OAC rule 3745-17-07 (B)(5)	
	OAC rule 3745-17-08 (B), (B)(2)	

2. **Additional Terms and Conditions**

   (a) The emission limitation was established for PTI purposed to reflect the potential to emit for this emissions unit for any proposed site for relocation of the portable conveyor equipment. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

   The roadways and parking areas 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 emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05.
   The unpaved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:

unpaved roadways:

All Unpaved Roadways

unpaved parking areas:

All Unpaved Parking Areas

The size, quantity, and designation of the roadways and parking areas may change frequently depending on the current location of the portable facility.
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 and/or any other suitable dust suppression chemicals at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
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.
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 with the control measure(s) specified above 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 the visible emission limitation for paved roadways and parking areas.
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.
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.
Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.

B. **Operational Restrictions**

1. None

C. **Monitoring and/or Record Keeping Requirements**

1. Except as otherwise provided in this section, the permittee shall perform inspections of the roadways and parking areas in accordance with the following frequencies:

   unpaved roadways minimum inspection frequency

   All Daily

   unpaved parking areas minimum inspection frequency

   All Daily

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 quarter 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 require the control measures.

      The information required in 4.d. shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, 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, 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.

E. **Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
Emission Limitation:

0.47 tpy particulate

Applicable Compliance Method:

Total Emissions = roadways

E =(1 - control efficiency) k(s/12)a(W/3)b(VMT/2000) AP-42 (10/01) Equation 13.2.2

Where:
k,a,b = empirical constants
W = Mean Vehicle Weight (tons) = 15.5
s = Silt content of road surface material = 7.93%
VMT = 4,000 miles/year

Control Efficiency: Used 95% for use of water and vehicle speed reduction.
Emission Limitation:

no visible particulate emissions except for 3 minutes during any 60-minute period

Applicable Compliance Method:

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, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

F. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1652950005 Emissions Unit ID: F003 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

(a) None.

2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

(a) None.

A. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Aggregate storage piles associated with portable crushing system (F001)	OAC rule 3745-31-05(A)(3) (PTI 16-02306)	The requirements of this rule also include compliance with OAC rule 3745-17-07 and OAC rule 3745-17-08. 1.31 tpy particulate See A.2.a below.
Load-in and load-out of storage piles (see Section A.2.c for identification of storage	OAC rule 3745-31-05(A)(3)	no visible emissions except for one minute in any hour

piles)		best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.d, A.2.e and A.2.h) See A.2.b below.
	OAC rule 3745-17-07(B)(6)	See A.2.b below.
	OAC rule 3745-17-08(B), (B)(6)	
Wind erosion from storage piles (see Section A.2.c for identification of storage piles)	OAC rule 3745-31-05(A)(3)	no visible emissions except for one minute in any hour best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.f through A.2.h) See A.2.b below.
	OAC rule 3745-17-07(B)(6)	See A.2.b below.
	OAC rule 3745-17-08(B),(B)(6)	

2. **Additional Terms and Conditions**

(a) The emission limitation was established for PTI purposed to reflect the potential to emit for this emissions unit for any proposed site for relocation of the portable crushing system. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

The aggregate storage piles 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 emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05.
The storage piles that are covered by this permit and subject to the above-mentioned requirements are listed below:

Product Pile
Dirt Pile

The size, quantity, and designation of the storage piles may change frequently depending on the current location of the portable facility.
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 treat the load-in and load-out material(s) with water and/or any other suitable dust suppression chemicals to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
The above-mentioned control measure(s) 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 measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.
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 treat each storage pile with water and/or any other suitable dust suppression chemicals via the spray tower at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
The above-mentioned control measure(s) 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 measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) 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.
Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rules 3745-17-08 and 3745-31-05.

B. **Operational Restrictions**

1. None

C. **Monitoring and/or Record Keeping Requirements**

1. Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile in accordance with the following frequencies:

   storage pile identification minimum load-in inspection frequency

   All Daily

2. Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:

   storage pile identification minimum load-out inspection frequency

All Daily

3. Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:

storage pile identification minimum wind erosion inspection frequency

All Daily

4. No inspection shall be necessary for wind erosion from the surface of a storage pile when the 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.

5. 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 wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.

6. 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.

7. 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 7.d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), 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, 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.

E. **Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
Emission Limitation:

1.31 tpy particulate

Applicable Compliance Method:

Total Emissions = (1 - Control Efficiency) * Load-In/Load-Out + Wind Erosion

Load-In/Load-Out Emissions:

E = k(0.0032) [(U/5)1.3 / (M/2)1.4](W/2000) AP-42 (1/95) Equation 13.2.4

Where:
k = Particle Size Multiplier = 0.74 for particulate
U = Mean Wind Speed (mph) = 9.5 mph
M = Material Moisture Content = 1%
W = Weight of Material Processed (tpy) = 1,752,000 tpy

Wind Erosion Emissions:

E = (1.7)(s/1.5)[(365 - p)/235](f/15)(365)(A/2000)
"Control of Open Fugitive Dust Sourrces" USEPA (1988)

Where:
s = Silt Content of Stored Material (wt %) = 10%
p = # of days wih >0.01 inch precipitation per year = 149
f = percentage of time wind speed exceeds 12 mph = 20%
A = Total Surface Area of Storage Piles = 0.5 acres

Control Efficiency: Used 95% for use of water and low drop heights.

Emission Limitation:

no visible emissions except for one minute in any hour

Applicable Compliance Method:

Compliance with the visible emission limitations for the 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.

F. **Miscellaneous Requirements**

1. None