

Facility ID: 1431113998 Issuance type: Final State Permit To Operate

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

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.

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

Facility ID: 1431113998 Emissions Unit ID: F002 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F002-load-in and load-out of storage piles (see Section A.2.a for identification of storage piles)	OAC rule 3745-31-05(A)(3) (PTI 14-04513)	Fugitive particulate emissions (PE) from the load-in, load-out and wind erosion from the storage piles shall not exceed 10.77 TPY.  Fugitive particulate emissions 10 microns and less in diameter (PM10) from the load-in, load-out and wind erosion from the storage piles shall not exceed 5.38 TPY.
	OAC rule 3745-17-07(B)(6)	No visible particulate emissions except for a total of one minute during any 60 minute observation period.  Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see terms and conditions A.2.b, A.2.c and A.2.f)
	OAC rule 3745-17-08(B)	This emissions unit is exempt from the visible particulate emission limitations for fugitive dust, specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e), because the emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08.  This emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08, therefore, the requirements of OAC rule 3745-17-08 (B), which requires the installation of reasonably available control measures to prevent fugitive dust, do not apply to this emissions unit pursuant to OAC rule 3745-17-08(A)(1).

**2. Additional Terms and Conditions**

- (a) The storage piles that are covered by this permit and subject to the requirements of OAC rule 3745-31-05(A)(3) are listed below:
  - all aggregate storage piles
  - 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 minimal drop heights for front-loaders and to maintain aggregate material moisture content in order 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 maintain aggregate material moisture content in order 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, visible emissions limitations and compliance with specified limits is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05(A)(3).

**B. Operational Restrictions**

1. The maximum hourly and annual production rate in this emissions unit shall not exceed 400 tons per hour and 600,000 tons per year.

**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: all aggregate storage piles  
minimum load-in inspection frequency: 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: all aggregate storage piles  
minimum load-out inspection frequency: 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: all aggregate storage piles  
minimum wind erosion inspection frequency: 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 Hamilton County Department of Environmental Services, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

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 C.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.

8. The permittee shall maintain monthly records which show the total amount of aggregate material processed.

**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.

3. The permittee shall submit annual reports that identify any exceedances of the annual production limitation, as

well as any corrective actions taken to achieve compliance. These reports shall be submitted by January 30 of each year.

**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:**

Total particulate emissions (PE) from load-in, load-out and wind erosion shall not exceed 10.77 tons per year and total particulate emissions 10 microns and less (PM10) from load-in, load-out and wind erosion shall not exceed 5.38 tons per year.

**Applicable Compliance Method:**

Emissions shall be calculated and compliance determined by using the following equations:

PE from Load-in = 600,000 tons of aggregate/year x 0.0009 lbs of PE/ton of aggregate x (1-.80) x ton/2000 lbs = 0.054 TPY.

PE from Load-out = 600,000 tons of aggregate/year x 0.0009 lb of PE/ton of aggregate x (1-.80) x ton/2000 lbs = 0.054 TPY.

PE from wind erosion = 600,000 tons of aggregate/year x 0.1358 lb of PE/ton of aggregate x (1-.80) x ton/2000 lbs = 8.15 TPY.

PE from vehicle traffic = 600,000 tons of aggregate/year x 0.0167 lb of PE/ton of aggregate x (1-.50) x ton/2000 lbs = 2.51 TPY.

Total PE emissions = 0.054 TPY+ 0.054 TPY+ 8.15 TPY+ 2.51 TPY = 10.76 TPY.

PM10 emissions are assumed to be 50% of total PE emissions = 5.38 TPY.

In the above equations the following control efficiencies were employed:

Load-in/Load-out = 80% control by wet suppression.

Vehicle traffic = 50% control by watering.

Wind erosion = 80% control by wet storage.

In the above equations the emission factors for load-in/load-out were calculated using AP 42, Fifth Edition Compilation of Air Pollutant Emission Factors, Volume 1, Section 13.2.4.3 ,equation 1 (11/06).

In the above equations the emission factor for wind erosion was calculated using the document Reasonably Available Control Measures for Fugitive Dust Sources, 1980, Ohio EPA, Division of Air Pollution Control (RACM), Section 2.1.2, equation 4.

In the above equations the emission factor for storage pile vehicle traffic was calculated using section (RACM), Section 2.1.2, equation 5.

2. **Emission Limitations:**  
No visible PE except for a total of one minute during any 60 minute observation period.  
  
**Applicable Compliance Method:**  
If required, compliance with the visible PE limitations listed 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").
3. Compliance with the annual production limitation outlined in Section B.1 shall be determined by the records maintained pursuant to Section C.2.

**F. Miscellaneous Requirements**

1. None