

Facility ID: 0857710044 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: 0857710044 Emissions Unit ID: F001 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>
F001 - limestone plant	OAC rule 3745-31-05(A)(3) 08-04364	The requirements of this rule also include compliance with the requirements of NSPS 40 CFR Part 60, Subpart 000.
Crushing Operations: 640 tons/hr; 4248 Lippman Jaw Crusher (primary)		9.86 lbs/hr and 18.54 tons/yr particulate emissions plant wide
280 tons/hr; 2- 41/4"STD Cone Crushers (secondary)		15% opacity, as a 6-minute average from the crushers
444 tons/hr; *ISC VSI Crusher (tertiary)		10% opacity, as a 6-minute average from the unsaturated screens
160 tons/hr; *VSI Crusher (tertiary)		10% opacity, as a 6-minute average from any unsaturated transfer point
Screening Operations: 800 tons/hr; 4 x 8 H.R Scalping Screen (Primary)		no visible emissions from all saturated equipment except crushers
800 tons/hr; 5 x 12 H.R. 2D Screen (secondary)		
680 tons/hr; 6 x 16' H.R. 3D Screen (secondary)		15% opacity, as a 6-minute average from the crushers
238 tons/hr; 5 x 14' H.R 2D Screen (secondary) wash	*NSPS 40 CFR Part 60, Subpart 000	10% opacity, as a 6-minute average from the screens
400 tons/hr; *6 x 16 El-Jay Screen (secondary) wash		no visible emissions from all saturated equipment except crushers
444 tons/hr; *6 x 16 El-Jay 2D low head Screen (tertiary) wash		
Material Handling: 20 conveyors		
4 x 20 H.R Feeder		
24" x 82' Radial Stacker		
Hopper		

2. Additional Terms and Conditions

- (a) The hourly emission limitation was established to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

The aggregate materials processed through the equipment identified under this emissions unit shall have a moisture content sufficient to minimize or eliminate visible emissions of fugitive dust from the crushers, screens, conveyors and transfer points, so that compliance with the opacity requirements specified above is continuously maintained.

B. Operational Restrictions

1. The maximum annual production rate for this facility shall not exceed 2,000,000 tons.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the total aggregate materials produced in this facility.
2. The permittee shall conduct visible emission evaluations (all unsaturated screens and unsaturated crushers) at a minimum annually. The VE evaluations shall be performed during the period of May 1 through September 30. The duration of the Method 9 observations shall be 1 hour at a minimum (ten 6-minute averages), and twenty 3-minute averages.

D. Reporting Requirements

1. The permittee shall submit annual reports of the annual production rate for this facility. These reports shall be submitted by January 31 of each year to the Director (the appropriate Ohio EPA District Office or local air agency).
2. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) of any Method 9 evaluation that did not demonstrate compliance with the opacity requirements specified above. The notification shall be in writing and shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA DO or laa) within 30 days after the exceedance occurs.
3. The permittee shall report within 30 days, any change in the saturated or unsaturated nature of the material being processed in the screens and conveyors. The affected emissions unit is then subject to the provisions of the standard applicable to the type of material being processed.

E. Testing Requirements

1. Compliance Method

Compliance with the emission limitations in this permit for emissions unit F001 shall be determined in accordance with the following method(s):

Emission Limitation-
9.86 lbs/hr particulate

Applicable Compliance Method-

Compliance shall be determined by summing the maximum hourly emission rates for the crushers, screens, and the material handling equipment. (See i. through vii. below)

i. The maximum hourly emission rate for the primary crusher is determined by multiplying the maximum hourly production rate of 640 tons/hour by the emission factor of 0.00070 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95).

ii. The maximum hourly emission rate for the secondary crushers are determined by multiplying the maximum hourly production rate of 280 tons/hr, by the emission factor of 0.001239 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and summing the emission rates.

iii. The maximum hourly emission rate for the tertiary crushers are determined by multiplying the maximum hourly production rate of 160 tons/hour and 444 tons/hr respectively by the emission factor of 0.001239 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and summing the emission rates.

iv. The maximum hourly emission rate for the primary screen is determined by multiplying the maximum hourly production rate of 800 tons/hour by the emission factor of 0.001764 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and summing the emissions rates for the two screens.

v. The maximum hourly emission rate for the secondary screens are determined by multiplying the maximum hourly production rate of 800 tons/hour, 400 tons/hr, 680 tons/hr and 238 tons/hr respectively for each screen by the emission factor of 0.001764

vi. The maximum hourly emission rate for the tertiary screen is determined by multiplying the maximum hourly production rate of 444 tons/hour by the emission factor of 0.001764 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95).

Emission Limitation-
18.54 tons/yr particulate combined

Applicable Compliance Method-

Compliance shall be determined by summing the annual emission rates for the crushers, screens and material handling equipment. (See i. through vii. below)

i. The annual emission rate for the primary crusher is determined by multiplying the 12-monthly production records for the calendar year, by the emission factor of 0.00070 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and dividing by 2,000 pounds per ton.

ii. The annual emission rate for the secondary crushers are determined by multiplying the 12-monthly production records for the calendar year, by the emission factor of 0.001239 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and dividing by 2,000 pounds per ton, and summing the emission rates.

iii. The annual emission rate for the tertiary crushers are determined by multiplying the 12-monthly production records for the calendar year, by the emission factor of 0.001239 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and dividing by 2,000 pounds per ton.

- iv. The annual emission rate for the primary screen is determined by multiplying the 12-monthly production records for the calendar year, by the emission factor of 0.001764 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and dividing by 2,000 pounds per ton and summing the emission rates for the two screens.
- v. The annual emission rate for the secondary screens are determined by multiplying the 12-monthly production records for the calendar year for each screen by the emission factor of 0.001764 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and dividing by 2,000 pounds per ton and summing the emission rates.
- vi. The annual emission rate for the tertiary screen is determined by multiplying the 12-monthly production records for the calendar year by the emission factor of 0.001764 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and dividing by 2,000 pounds per ton.
- vii. The annual emission rate for the material handling equipment is determined by multiplying the 12-monthly production records for the calendar year for each piece of equipment by the emission factor of 0.000101 lb/ton, as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and dividing by 2,000 pounds per ton and summing the emission rates for each piece of equipment.

Emission Limitation-

15% opacity, as a 6-minute average (crushers)

Applicable Compliance Method-

Compliance shall be determined by visible emission evaluations performed using the methods and procedures specified in USEPA Reference Method 9.

Emission Limitation-

10% opacity, as a 6-minute average (screens, transfer points, conveyors, material handling equipment)

Applicable Compliance Method-

Compliance shall be determined by visible emission evaluations performed using the methods and procedures specified in USEPA Reference Method 9 and 40 CFR 60.675 Subpart OOO.

Emission Limitation-

No visible emissions (saturated equipment)

Applicable Compliance Method-

Compliance shall be based on USEPA 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