

Facility ID: 0634000108 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.

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

Facility ID: 0634000108 Emissions Unit ID: F001 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F001 - Mineral extraction/material handling: Blasting, drilling, overburden removal, bulldozing, and truck loading - 10 acres mined per year - Maximum of 176360 tons of coal and 366920 tons of limestone extracted per year	OAC rule 3745-31-03(A)(3) (PTI 06-08149 issued 12/21/06) OAC rule 3745-17-07(B) OAC rule 3745-17-08(B)	Total fugitive particulate emissions (PE) from mineral extraction and material handling activities shall not exceed 54.88 TPY. The permittee shall employ best available control measures that are sufficient to minimize or eliminate visible particulate emissions of fugitive dust. See section A.2.a-d. Opacity Restrictions (see A.2.e) See section A.2.f. See section A.2.g.

2. Additional Terms and Conditions

- (a) The following mineral extraction operations are covered by this permit and subject to the above mentioned requirements:
 - i. bulldozing of overburden;
 - ii. truck loading;
 - iii. blasting;
 - iv. drilling.

The permittee shall employ best available control measures for the above-identified mineral extraction 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 measures to ensure compliance:

Mineral Extraction Operation Control Measure(s)
 bulldozing of overburden maintain sufficient moisture content, water application as necessary
 truck loading maintain sufficient moisture content, water application as necessary
 blasting minimize area to be blasted and prevention of overshooting
 drilling wet drilling and/or baghouse

Nothing in the above table shall prohibit the permittee from employing other control measures to ensure compliance.

The above-mentioned control measure(s) shall be employed during blasting of coal and limestone, drilling of coal and limestone, bulldozing of overburden, material handling, and material transport 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.

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 rule

3745-31-05.

Visible particulate emissions shall not exceed 20% opacity as a 3-minute average from the following mineral extraction operations: bulldozing of overburden, truck loading, and drilling.

This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).

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 mineral extraction operation in accordance with the following frequencies:

mineral extraction identification minimum inspection frequency

All Daily

2. No inspection shall be necessary if any 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 mineral extraction activities. The inspections shall be performed during representative, normal operating conditions.
4. The permittee shall maintain records of the following information:
- 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;
 - the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - the dates the control measures were implemented; and
 - 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 in 4.d. shall be kept separately for each mineral extraction 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:
- 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
 - 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:

Total fugitive particulate emissions (PE) from mineral extraction and material handling activities shall not exceed 54.88 TPY.

Compliance with the annual emission limitation shall be demonstrated by the following calculation based on the emission factors in AP-42 section 11.9 (1/95) and RACM 2.1.4 (9/80):

Blasting = $(49.8 \text{ lb/blast} \times 194 \text{ blasts/acre} \times 10 \text{ acres/yr}) / 2000 \text{ lb/ton} = 48.31 \text{ TPY}$

Drilling = $(0.22 \text{ lb/hole} \times 194 \text{ holes/acre} \times 10 \text{ acres/yr}) / 2000 \text{ lb/ton}$
 $= 0.21 \text{ TPY} \times 0.10 \text{ (90\% control efficiency)} = 0.02 \text{ TPY controlled}$

Bulldozing of overburden = $[(5.7(20)^{1.2}) / (10)^{1.3}] \text{ lb/hr} \times 8760 \text{ hr/yr} / 2000 \text{ lb/ton} = 45.55 \text{ TPY} \times 0.10 \text{ (90\% control efficiency)} = 4.55 \text{ TPY controlled}$

Truck loading = $(1.16 / (10)^{1.2}) \text{ lb/ton} \times 62.5 \text{ tons/hr} \times 8760 \text{ hr/year} / 2000 \text{ lb/ton} = 20.04 \text{ TPY} \times 0.10 \text{ (90\% control efficiency)} = 2.00 \text{ TPY controlled}$

The sum of the above is 54.88 tons of PE/yr.

Emission Limitation:

Visible emissions of fugitive dust shall not exceed 20 percent opacity as a three-minute average.

Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

F. **Miscellaneous Requirements**

1. None