

Facility ID: 1677011140 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: 1677011140 Emissions Unit ID: F004 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>
Topsoil Screening Operation - portable, 100 tons/hour design capacity, topsoil screening plant (Power Screen Commander Company), including two (2) conveyors, and driven by a 50 hp, 0.29 mmBtu/hr heat input, 3-cylinder diesel engine, air emissions of nitrogen oxides (NOx), particulate matter (PM), and 10-micrometer particulate matter (PM-10) uncontrolled	OAC rule 3745-31-05(A)(3)	Fugitive Emissions: 10% opacity as a 3-minute average;  1.6 lbs/hr & 7.2 tpy PM-10; and  Best available control measures, such as dust containment around conveyor loading and discharge points and limiting material drop heights, that are sufficient to minimize visible emissions of fugitive dust to the extent possible with good engineering design.  Stack Emissions: 5% opacity as a 6-minute average 1.3 lbs/hr & 5.6 tpy NOx 0.310 lb PM/mmBtu heat input
	OAC rule 3745-17-11(B)(5)(a)	Exempt pursuant to OAC rule 3745-18-06(B).
	OAC rule 3745-18-06	The emissions limitations specified by these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05 (A)(3).
	OAC rule 3745-17-07(A)	
	OAC rule 3745-17-07(B)	
	OAC rule 3745-17-08(B)	

**2. Additional Terms and Conditions**

- (a) The 1.6 lbs/hr & 7.2 tpy PM-10 and 1.3 lbs/hr & 5.6 tpy NOx emissions limits regulated per OAC rule 3745-31-05(A)(3) are based upon accepted USEPA potential to emit procedures for this emissions unit. Therefore, no associated record keeping or reporting are required to demonstrate compliance with these emissions limits.

However, if any proposed change(s), such as with production capacity, operational procedures, or any of the dust containment equipment or control methods, or anything else that increase(s) the potential to emit, then the permittee shall apply for and obtain either a modification to the permit to install or a new final permit to install prior to the change(s).

**B. Operational Restrictions**

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

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

1. For each day a fuel other than the diesel fuel specified above is burned, 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 each day during which a fuel other than the diesel fuel specified above 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.

**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 using applicable emission factors, as noted:  
Emission Limitations: 1.3 lbs/hr & 5.6 tpy NOx

Applicable Compliance Method: The above emission limitations were established based upon the potential to emit as demonstrated in the equations below:

$$H = ND;$$

$$Y = H(8760 \text{ hrs/yr})(1 \text{ ton}/2000 \text{ lbs});$$

Where,

$$H = 1.3 \text{ lbs/hr NOx [hourly potential to emit];}$$

$$Y = 5.6 \text{ tpy NOx [yearly potential to emit];}$$

$$N = 4.41 \text{ lbs/mmBtu [AP-42, 10/96, Table 3.3-1 nitrogen oxides emission factor]; and}$$

$$D = 0.29 \text{ mmBtu/hr [rated heat input].}$$

Emission Limitation: 5% opacity from stack emissions, as a 6-minute average

Applicable Compliance Method: OAC rule 3745-17-03(B)(1)  
Emission Limitation: 10% opacity from fugitive emissions, as a 3-minute average

Applicable Compliance Method: OAC rule 3745-17-03(B)(3)  
Emission Limitation: 0.310 lb PM/mmBtu actual heat input

Applicable Compliance Method: The above particulates emission limitation is equal to the emissions unit's potential to emit, as demonstrated below:

Use the AP-42, 10/96, Table 3.3-1 emission factor of 0.31 lb PM/mmBtu of heat input.  
Emission Limitations: 1.6 lbs/hr & 7.2 tpy PM-10

Applicable Compliance Method: The above emission limitations were established based upon the potential to emit as demonstrated in the equations below:

$$H = P(S + T);$$

$$Y = H(8760 \text{ hrs/yr})(1 \text{ ton}/2000 \text{ lbs});$$

Where,

$$H = 1.6 \text{ lbs/hr PM-10 [hourly potential to emit];}$$

$$Y = 7.2 \text{ tpy PM-10 [yearly potential to emit];}$$

$$P = 100 \text{ tons/hr [topsoil screening plant design capacity];}$$

$$S = 0.015 \text{ lb PM-10/ton topsoil screened [AP-42, 1/95, Table 11.19.2-2 screening emission factor]; and}$$

$$T = 0.0014 \text{ lb PM-10/ton topsoil transferred [AP-42, 1/95, Table 11.19.2-2 conveyor transfer emission factor].}$$

**F. Miscellaneous Requirements**

1. Pursuant to OAC rule 3745-31-03(A)(1)(p), the permittee of the portable or mobile emissions unit identified within this Permit to Install (PTI) may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:
- the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
  - the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);
  - the applicant has provided proper notice of intent to relocate the portable emissions unit to the Akron Regional Air Quality Management District (ARAQMD) within a minimum of thirty days prior to the scheduled relocation; and
  - in the ARAQMD's judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.
2. As an 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:
- the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
  - the portable emissions unit is equipped with best available technology;
  - the portable emissions unit owner has identified the proposed site to Ohio EPA;
  - Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
  - a public notice, consistent with Chapter 3745-47 of the Administrative Code, is published in the county where the proposed site is located;
  - 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

- g. the portable emissions unit owner has provided Ohio EPA with fifteen days written notice of the relocation.
- 3. Any site approvals issued by the Ohio EPA shall be valid for no longer than three years and are subject to renewal.
- 4. In order for the ARAQMD 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 South High Street, Suite 904, Akron, OH 44308. Upon receipt of the notice, the ARAQMD, or the ARAQMD authorized representative, will evaluate the request in accordance with the above criteria. Failure to submit said notification and to receive Ohio EPA approval prior to relocation of the emissions unit may result in fines and civil penalties.