PERMIT TO CONSTRUCT

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to construct the air contaminant source(s) described below, in accordance with the laws, rules and conditions as set forth herein.

Permit Number: Saint Louis County Construction Permit # 8066
Project Number: AP201811016
Installation Number: 189-0017
Parent Company Address: 2320 Creve Coeur Mill Road
Installation Name: Fred Weber, Inc. – North Stone
Installation Address: 11900 Pritchard Farm Rd.
Location Information: St. Louis County

Application for Authority to Construct was made for:

Installation of conveyors, stockpile, feeders, and an increase in haul road length at an existing rock quarry. These are additions and modifications associated with a project to relocate the existing primary crusher to a new location within the quarry and install a series of new conveyors to convey crushed rock from the primary crusher approximately 6,800 ft (1.3 miles) to a new surge pile and new feeders used for delivery of crushed rock to remainder of existing plant which will not be changed. This review was conducted in accordance with Section (5), Missouri State Rule 10 CSR 10-6.060, Construction Permits Required.

☐ Standard Conditions (on reverse) are applicable to this permit.
☒ Standard Conditions (on reverse) and Special Conditions are applicable to this permit.

Prepared by
Jeremy Rogus
Saint Louis County Department of Public Health

DEC 17 2019
Effective Date
STANDARD CONDITIONS:

Permission to construct may be revoked if you fail to begin construction or modification within one year from the effective date of this permit. Permittee should notify the Air Pollution Control Program (APCP) if construction or modification is not started within two years after the effective date of this permit, or if construction or modification is suspended for one year or more.

You will be in violation of 10 CSR 10-6.060 and Saint Louis County Code of Ordinances Title VI Chapter 612 if you fail to adhere to the specifications and conditions listed in your application, this permit and the project review. In the event that there is a discrepancy between the permit application and this permit, the conditions of this permit shall take precedence. Specifically, all air contaminant control devices shall be operated and maintained as specified in the application, associated plans and specifications.

Like kind replacements of permitted equipment may not be approved under Saint Louis County Code of Ordinances Title VI Chapter 612. Any replacement of equipment which emits, captures, or controls air pollutants may be subject to permitting requirements under Saint Louis County Code of Ordinances Title VI Chapter 612. An air construction permit application or request for permit determination shall be submitted to the Saint Louis County Department of Public Health Air Pollution Control Program for any replacement of equipment which emits, captures, or controls air pollutants.

You must notify the Saint Louis County Department of Public Health Air Pollution Control Program (APCP) of the anticipated date of start-up of this (these) air contaminant source(s). The information must be made available within 30 days of actual startup.

A copy of this permit and permit review shall be kept at the installation address and shall be made available to the Saint Louis County Department of Public Health APCP and/or Missouri Department of Natural Resources' personnel upon request.

You may appeal this permit or any of the listed special conditions to the Appeal Board, as provided in Saint Louis County Code Section 612.090. Appeals shall be taken within ten (10) days of the time the parties have been notified in writing of the Director's decision and the appeal shall act as a stay of decision except those issued by the Director pursuant to Saint Louis County Code Section 612.100.

Permits or any condition therein issued under MO Air Conservation Commission Rule 10 CSR 10-6.060 may be appealed to the Administrative Hearing Commission (AHC), P.O. Box 1557, Jefferson City, MO 65102, as provided in RSMo 643.075.6 and 621.250.3. If you choose to appeal, you must file a petition with the AHC within 30 days after the date this decision was mailed or the date is was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed. If it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC. AHC phone: 573-751-2422, fax: 573-751-5018, website: www.oa.mo.gov/ahc.

If you choose not to appeal, this certificate, the project review and your application and associated correspondence constitutes your permit to construct. The permit allows you to construct and operate your air contaminant source(s), but in no way relieves you of your obligation to comply with all applicable provisions of the Missouri Air Conservation Law, regulations of the Missouri Department of Natural Resources and other applicable federal, state and local laws and ordinances.

The Air Pollution Control Program invites your questions regarding this air pollution permit. Please contact the Saint Louis County Department of Public Health APCP at 314-615-8924. If you prefer to write, please address your correspondence to the Saint Louis County Department of Public Health, Air Pollution Control Program, 6121 North Hanley Rd., Berkeley MO 63134 (or current address).
SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

The special conditions listed in this permit were included based on the authority granted the Missouri Air Pollution Control Program by the Missouri Air Conservation Law (specifically 643.075) and by the Missouri Rules listed in Title 10, Division 10 of the Code of State Regulations (specifically 10 CSR 10-6.060). For specific details regarding conditions, see 10 CSR 10-6.060 paragraph (12)(A)10. "Conditions required by permitting authority."

Fred Weber, Inc. – North Stone
St. Louis County, MO

1. PM10 Emission Limitation
   A. Fred Weber, Inc. – North Stone shall emit less than 15.0 tons of PM10 in any consecutive 12-month period from the combined emissions of the Emission Points in Table 1. These emission points are composed of the 2019 primary crusher relocation project as depicted in Appendix A. The SSM emissions as reported to the Air Pollution Control Program's Compliance/Enforcement Section in accordance with the requirements of 10 CSR 10-6.060 Start-Up, Shutdown, and Malfunction Conditions shall be included in the limit.

   Table 1: Installation Emission Points
<table>
<thead>
<tr>
<th>EU</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP04a</td>
<td>Haul Road – Pit to Plant Primary Crusher</td>
</tr>
<tr>
<td>EP05</td>
<td>Truck Unloading at EP06</td>
</tr>
<tr>
<td>EP06</td>
<td>Primary Crusher</td>
</tr>
<tr>
<td>EP06-1</td>
<td>Jaw Belt Conveyor</td>
</tr>
<tr>
<td>EP30 through EP36</td>
<td>Conveyors C1-C7</td>
</tr>
<tr>
<td>EP37</td>
<td>Surge Stockpile</td>
</tr>
<tr>
<td>EP38</td>
<td>Loadout Feeders</td>
</tr>
<tr>
<td>EP39</td>
<td>Loadout Conveyor C8</td>
</tr>
<tr>
<td>EP40</td>
<td>Conveyor C9</td>
</tr>
</tbody>
</table>

   B. Attachment A, or equivalent forms, such as electronic forms, approved by the Air Pollution Control Program shall be used to demonstrate compliance with Special Condition 1.A.

2. Undocumented Watering Requirement
   A. Fred Weber, Inc. – North Stone shall apply a water spray on the haul road
SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

listed below whenever conditions exist that would allow visible emissions from this source to leave the property.

1) EP04a – Haul Road – Pit to Plant Primary Crusher

3. Wet Suppression Control System Requirement
   A. Fred Weber, Inc. – North Stone shall install and operate wet spray devices on the primary crusher, EP06.
   B. Watering may be suspended during periods of freezing condition, when use of the wet spray devices may damage the equipment. During these conditions, Fred Weber, Inc. – North Stone shall adjust the production rate to control emissions from these units. Fred Weber, Inc. – North Stone shall record a brief description of such events.

4. Moisture Content Testing Requirement
   A. Fred Weber, Inc. – North Stone shall verify that the moisture content of the processed rock located at EP38 – Loadout Feeders is greater than or equal to 1.5% percent by weight.
   B. Testing shall be conducted according to the method prescribed by the American Society for Testing Materials (ASTM) D-2216, C-566 or another method approved by the Director.
   C. The initial test shall be conducted no later than 45 days after the start of operation. A second test shall be performed the calendar year following the initial test during the months of July or August.
   D. The test samples shall be taken from rock that enters EP38 – Loadout Feeders from EP37 – Surge Stockpile.
   E. The written analytical report shall include the raw data and moisture content of each sample, the test date and the original signature of the individual performing the test. The report shall be filed on-site or at the Fred Weber, Inc. – North Stone main office within 30 days of completion of the required test.
   F. If the moisture content of either of the two tests is less than the moisture content in Special Condition A, another test may be performed within 15 days of the noncompliant test. If the results of that test is less than the
SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

moisture content in Special Condition A, Fred Weber, Inc. – North Stone shall either:
1) Apply for a new permit to account for the revised information, or
2) Submit a plan for the installation of wet spray devices to the Compliance/Enforcement Section of the Air Pollution Control Program within 10 days of the second noncompliant test. Plans may be sent by mail to P.O. Box 176, Jefferson City, MO 65102 or by email at aircompliancereporting@dnr.mo.gov. The wet spray devices shall be installed and operational within 40 days of the second noncompliant test.

5. Record Keeping and Reporting Requirements
A. Fred Weber, Inc. – North Stone shall maintain all records required by this permit for not less than five years and shall make them available immediately to any St. Louis County Department of Public Health or Missouri Department of Natural Resources' personnel upon request.

B. Fred Weber, Inc. – North Stone shall report to the St. Louis County Department of Public Health Air Pollution Control Program, by mail at 6121 N. Hanley Rd., Berkeley MO 63134 or by email at aircompliancereporting.dph@stlouisco.com, no later than 10 days after the end of the month during which any record required by this permit shows an exceedance of a limitation imposed by this permit.
REVIEW SUMMAR Y

- Fred Weber, Inc. has applied for authority to install new conveyors, a stockpile, feeders, and increase the existing haul road length (EP04) at an existing rock quarry. The project is to relocate the existing primary crusher to a new location within the quarry and install a series of new conveyors to convey crushed rock from the primary crusher approximately 6,800 ft (1.3 miles) to a new surge pile and new feeders which deliver the crushed rock to the remainder of existing plant which will not be changed. Truck unloading at the primary crusher will no longer take place within a building. Primary crushing will no longer take place within a building. A water spray system will provide control of particulate matter from primary crushing.

- The application was deemed complete on October 1, 2018.

- HAP emissions are not expected from the proposed equipment.


- None of the National Emissions Standards for Hazardous Air Pollutants (NESHAPs) or National Emission Standards for Hazardous Air Pollutants for Source Categories (MACT) apply to the proposed equipment.

- This review was conducted in accordance with Section (5), Missouri State Rule 10 CSR 10-6.060, Construction Permits Required. Potential emissions of PM_{10} are conditioned below de minimis and no refined modeling is required. Potential emissions of PM are above de minimis but below major source levels. There are no modeling requirements for PM.

- This installation is located in Saint Louis County, a nonattainment area for the 2015 8-hour ozone standard and an attainment area for all other criteria pollutants.

- This installation is not on the List of Named Installations found in 10 CSR 10-6.020(3)(B), Table 2. The installation’s major source level is 100 tons per year for nonattainment
pollutants, 250 tons per year for attainment pollutants, and fugitive emissions are not counted toward major source applicability.

- Ambient air quality modeling was not performed since the potential emissions of all pollutants for this project are limited below deminimis levels. Potential emissions of PM are above de minimis but below major source levels. There are no modeling requirements for PM.

- Emissions testing is not required by this permit. Emissions testing is required for the new belt conveyors and feeders according to 40 CFR Part 60 Subpart OOO, "Standards of Performance for Nonmetallic Mineral Processing Plants." Emissions testing according to 40 CFR Part 60 Subpart OOO is also required for the primary crusher due to changes in the primary crusher emission controls.

- Approval of this permit is recommended with special conditions.

**INSTALLATION DESCRIPTION**

Fred Weber, Inc. - North Stone is an existing rock quarry operation with a maximum hourly design rate of 1500 tons/hour. The plant is composed of a drilling and blasting location, haul roads, primary and tertiary crushers, feeders, an enclosed screening operation, storage piles, conveyors, stackers, and vehicular activity areas. Table 2 contains a listing of existing emission units at the operation and calculated maximum hourly design rates (MHDRe). The calculated MHDRe were determined using a worst-case-analysis process flow which yielded the highest estimated potential emissions. It is important to note that in several cases, the calculated MHDRe is not equivalent to the equipment's manufacturer's rated design rate.

Table 2: Existing Plant Emission Unit (EU) List

<table>
<thead>
<tr>
<th>EU</th>
<th>Description</th>
<th>Calculated MHDRe (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP01</td>
<td>Wet Drilling</td>
<td>1500</td>
</tr>
<tr>
<td>EP03</td>
<td>Truck Loading</td>
<td>1500</td>
</tr>
<tr>
<td>EP04</td>
<td>Hauling</td>
<td>6.9767 VMT/hr (528 ft, 111 ton unloaded, 154 ton loaded, 1500 tph)</td>
</tr>
<tr>
<td>EP05</td>
<td>Truck Unloading</td>
<td>1500</td>
</tr>
<tr>
<td>EP06</td>
<td>Primary Crushing 391931</td>
<td>1050</td>
</tr>
<tr>
<td>EP08-1</td>
<td>East Diester Screen 291432</td>
<td>375</td>
</tr>
<tr>
<td>EP08-1</td>
<td>West Diester Screen 291433</td>
<td>375</td>
</tr>
<tr>
<td>EP08-2</td>
<td>East Simplicity Screen 291411</td>
<td>375</td>
</tr>
<tr>
<td>EP08-2</td>
<td>West Simplicity Screen 291407</td>
<td>375</td>
</tr>
<tr>
<td>EP08-3</td>
<td>Simplicity 8x20 Screen 291458</td>
<td>1500</td>
</tr>
<tr>
<td>EP09</td>
<td>Secondary Crushing 291209</td>
<td>825</td>
</tr>
<tr>
<td>EP10</td>
<td>Tertiary Crushing 291204</td>
<td>750</td>
</tr>
<tr>
<td>EP11-1</td>
<td>East Cedarapids 5 x 16 screen 291409</td>
<td>375</td>
</tr>
<tr>
<td>EP11-3</td>
<td>West Cedarapids 5 x 16 screen 291410</td>
<td>375</td>
</tr>
<tr>
<td>EP11-2</td>
<td>Hewitt Robbins Screen 291446</td>
<td>450</td>
</tr>
<tr>
<td>EP12</td>
<td>Haul Road</td>
<td>40.909 VMT/hr (1584 ft, 9 ton)</td>
</tr>
</tbody>
</table>
### PROJECT DESCRIPTION

Fred Weber, Inc. has applied for authority to install new conveyors, one new surge stockpile, new feeders, and increase haul road length (EP04) at an existing rock quarry. The project is to relocate the existing primary crusher to a new location within the quarry and install a series of new conveyors to convey crushed rock from the primary crusher approximately 6,800 ft (1.3 miles) to a new surge pile and new feeders which deliver the crushed rock to the remainder of existing plant which will not be changed. Truck unloading at the primary crusher will no longer take place within a building. Primary crushing will no longer take place within a building. A water spray system will provide control of particulate matter from primary crushing.

### Table 3: Previously Issued Permits

<table>
<thead>
<tr>
<th>Permit Number</th>
<th>Description</th>
<th>Active/Inactive</th>
</tr>
</thead>
<tbody>
<tr>
<td>4780, Issued 10/02/1980</td>
<td>Limestone Quarry, Dust Suppression</td>
<td>Active</td>
</tr>
<tr>
<td>5993, Issued 01/31/1995</td>
<td>Primary Crusher and Conveyor</td>
<td>Void December 2013</td>
</tr>
<tr>
<td>5994, Issued 01/31/1995</td>
<td>Secondary Crusher, Total Enclosure, 1500 tph, Subject to NSPS OOO</td>
<td>Active</td>
</tr>
</tbody>
</table>
EMISSIONS/CONTROLS EVALUATION

Potential to Emit of the Existing Installation

Potential to emit of the equipment described in Table 2 is based on the maximum hourly design rate (MHDR) of the equipment and emission factors from EPA document AP-42, *Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources, Fifth Edition (AP-42)* Section 11.19.2 Crushed Stone Processing and Pulverized Mineral Processing, Table 11.19.2-2, August 2004. Emissions factors provided by the Missouri Department of Natural Resources are used where PM$_{2.5}$ emission factors are not provided in Table 11.19.2-2.

Truck unloading and primary crushing are not currently considered fugitive for existing PTE because they are contained within an enclosure/building.


A control efficiency of 3.7% for PM$_{10}$ for EP05 is provided from AP-42 Table B.2-3 because this equipment is partially enclosed.


Emissions from haul roads and vehicular activity areas:
- Calculated using the predictive equation from AP-42 Section 13.2.1 "Paved Roads," November 2006.
- Calculated using the predictive equation from AP-42 Section 13.2.2 "Unpaved Roads," November 2006.
- A 50% control efficiency for PM and PM$_{10}$ and a 41% control efficiency for PM$_{2.5}$ were applied to the emission calculations for the use of undocumented watering.

Emissions from storage piles:
• Load-in and load-out of storage piles were calculated using the predictive equation from AP-42 Section 13.2.4.
• The moisture content of the aggregate is 0.7% by weight.
• Emissions from wind erosion of storage piles were calculated using an equation found in the Air Pollution Control Program's Emissions Inventory Questionnaire Form 2.8 "Storage Pile Worksheet."

Potential to Emit of the Application

Table 4: New or Modified Equipment/Emission Unit List

<table>
<thead>
<tr>
<th>EU</th>
<th>Description</th>
<th>MHDR (tons)</th>
<th>Fugitive/Non-Fugitive</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP04a</td>
<td>Haul Road – Pit to Plant Primary Crusher</td>
<td>3.231 VMT</td>
<td>Fugitive</td>
</tr>
<tr>
<td>EP05</td>
<td>Truck Unloading at EP06</td>
<td>1500</td>
<td>Fugitive</td>
</tr>
<tr>
<td>EP06</td>
<td>Primary Crusher</td>
<td>1050</td>
<td>Fugitive</td>
</tr>
<tr>
<td>EP06-1</td>
<td>Jaw Belt Conveyor</td>
<td>1500</td>
<td>Fugitive</td>
</tr>
<tr>
<td>EP30 through EP36</td>
<td>Conveyors C1-C7</td>
<td>1500</td>
<td>Fugitive</td>
</tr>
<tr>
<td>EP37</td>
<td>Surge Stockpile</td>
<td>1.0 acre</td>
<td>Fugitive</td>
</tr>
<tr>
<td>EP38</td>
<td>Loadout Feeders</td>
<td>1500</td>
<td>Fugitive</td>
</tr>
<tr>
<td>EP39</td>
<td>Loadout Conveyor C8</td>
<td>1500</td>
<td>Fugitive</td>
</tr>
<tr>
<td>EP40</td>
<td>Conveyor C9</td>
<td>1500</td>
<td>Fugitive</td>
</tr>
</tbody>
</table>

Table 5: Removed Equipment

<table>
<thead>
<tr>
<th>EU</th>
<th>Description</th>
<th>MHDR (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP15-2</td>
<td>Top Conveyor 910046</td>
<td>1500</td>
</tr>
<tr>
<td>EP15-3</td>
<td>Flat Belt Conveyor 910045</td>
<td>1500</td>
</tr>
<tr>
<td>Conveyor 291617 from EP17-2</td>
<td>Conveyor 291617 from EP17-2</td>
<td>1500</td>
</tr>
</tbody>
</table>

• EP05 and EP06
Truck unloading (EP05) at the primary crusher (EP06) will no longer take place within a building. Primary crushing (EP06) will no longer take place within a building. Truck unloading and primary crushing will now be considered fugitive emissions. Primary crushing will now receive 77.78% control efficiency for PM and 77.50% control efficiency for PM10 and PM2.5 for the use of water spray control.

• EP04 and EP04a
472 feet of haul road will be added to EP04.

Truck weights for EP04 are changed to 69 tons unloaded and 152 tons loaded.

A 50% control efficiency for PM and PM10 and a 41% control efficiency for PM2.5 were applied to the emission calculations for the use of undocumented watering.
• EP06-1 – Jaw Belt Conveyor
A jaw belt conveyor (EP06-1) which is attached to the primary crusher chassis has been inadvertently left off of existing PTE in the past. The conveyor will not be enclosed, therefore emissions are considered fugitive.

A 95.82% control efficiency for PM$_{2.5}$ and PM$_{10}$ and a 95.33% control efficiency for PM were applied to the Jaw Belt Conveyor emission calculations for the use of water spray or carryover moisture.

• EP30 through EP36 – Conveyors C1 through C7
Seven new conveyors will be added to transport rock approximately 6,800 ft (1.3 miles) from the primary crusher to an outdoor surge stockpile. Water spray will be added at several points to provide control of particulate matter emissions. The conveyors will not be enclosed, therefore emissions are considered fugitive.

A 95.82% control efficiency for PM$_{2.5}$ and PM$_{10}$ and a 95.33% control efficiency for PM were applied to the Conveyors C1 through C7 emission calculations for the use of water spray or carryover moisture.

• EP37 – Surge Stockpile
A new Surge Stockpile will be fed by Conveyor C7. Rock will discharge from the pile to feeders and a loadout conveyor in a tunnel constructed beneath the pile. No vehicular activity or load-in/load-out emissions will be associated with the pile. The stockpile is loaded by Conveyor C7. Wind erosion emissions are based on a maximum 1-acre pile area. Emissions from wind erosion of the surge stockpile were calculated using an equation found in the MDNR Air Pollution Control Program’s Emission Inventory Questionnaire Form 2.8 “Storage Pile Worksheet.”

• EP38 – Loadout Feeders
New loadout feeders located beneath the Surge Stockpile will dispense rock from the pile onto new loadout Conveyor C8. Water spray or moisture carryover will provide control of particulate matter emissions. Emissions are considered fugitive because feeders are not located in a complete enclosure. The location of feeders is beneath the surge pile but is not fully enclosed. The location of the feeder is described as inside an open tunnel running beneath the surge pile.

The moisture content of stockpiled rock in the surge stockpile (what is fed to loadout feeders) will have moisture content $\geq$ 1.5%. A 95.82% control efficiency for PM$_{2.5}$ and PM$_{10}$ and a 95.33% control efficiency for PM were applied to the Loadout Feeders emission calculations for the use of rock with moisture content $\geq$ 1.5%.

• EP39 – Loadout Conveyor C8
The new loadout conveyor will transfer the rock deposited by the feeders to new conveyor C9. Water spray will provide control of particulate matter emissions.

A 95.82% control efficiency for PM$_{2.5}$ and PM$_{10}$ and a 95.33% control efficiency for PM were applied to the Loadout Conveyor C8 emission calculations for the use of water spray or carryover moisture.
EP40 – Conveyor C9
A new conveyor will transfer rock to the existing EP08 Simplicity Screen (EP08-3). Water spray or moisture carryover will provide control of particulate matter emissions.

A 95.82% control efficiency for PM$_{2.5}$ and PM$_{10}$ and a 95.33% control efficiency for PM were applied to the Conveyor C9 emission calculations for the use of water spray or carryover moisture.

Table 6: Emissions Summary

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PM$_{2.5}$</td>
<td>10.0</td>
<td>16.99</td>
<td>4.86</td>
<td>6.06</td>
<td>2.03</td>
</tr>
<tr>
<td>PM$_{10}$</td>
<td>15.0</td>
<td>245.93</td>
<td>26.53</td>
<td>44.90</td>
<td>&lt;15.0</td>
</tr>
<tr>
<td>PM</td>
<td>25.0</td>
<td>331.71</td>
<td>N/D</td>
<td>152.38</td>
<td>50.88</td>
</tr>
<tr>
<td>SOx</td>
<td>40.0</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>NOx</td>
<td>40.0</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>VOC</td>
<td>40.0</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>CO</td>
<td>100.0</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>HAPs</td>
<td>10/25</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

N/A = Not Applicable; N/D = Not Determined

1 This includes all non-fugitive EU's listed in Table 2.

PERMIT RULE APPLICABILITY

This review was conducted in accordance with Section (5), Missouri State Rule 10 CSR 10-6.060, Construction Permits Required. Potential emissions of PM$_{10}$ are conditioned below de minimis and no refined modeling is required. Potential emissions of PM are above de minimis but below major source levels. There are no modeling requirements for PM.

APPLICABLE REQUIREMENTS

Fred Weber, Inc. – North Stone shall comply with the following applicable requirements. The Missouri Air Conservation Laws and Regulations should be consulted for specific record keeping, monitoring, and reporting requirements. Compliance with these emission standards, based on information submitted in the application, has been verified at the time this application was approved. For a complete list of applicable requirements for your installation, consult your operating permit.

SAINT LOUIS COUNTY CODE OF ORDINANCES

- 612.110, Permits Required
  The facility is required to obtain, in writing, a permit prior to installation of any equipment that may cause the issuance of air contaminants.

- 612.120, Permits to be Visibly Affixed or Placed
  Permits shall be visibly affixed and accessible.
• 612.260, Permit Fees-Schedules
  Pay applicable annual fees.

• 612.290 Right of Entry; Inspections; Samples.

GENERAL REQUIREMENTS

• Submission of Emission Data, Emission Fees and Process Information, 10 CSR 10-6.110

• Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin, 10 CSR 10-6.170

• Restriction of Emission of Visible Air Contaminants, 10 CSR 10-6.220

• Construction Permits Required, 10 CSR 10-6.060

• Operating Permits, 10 CSR 10-6.065

SPECIFIC REQUIREMENTS

• None of the National Emissions Standards for Hazardous Air Pollutants (NESHAPs) or National Emission Standards for Hazardous Air Pollutants for Source Categories (MACTS) apply to the proposes equipment.


STAFF RECOMMENDATION

On the basis of this review conducted in accordance with Section (5), Missouri State Rule 10 CSR 10-6.060, Construction Permits Required, it is recommended that this permit be granted with special conditions.

SAINT LOUIS COUNTY APCP CONSTRUCTION PERMIT #8066
PRIMARY CRUSHER RELOCATION PROJECT - 2019
ADDITION OF NINE CONVEYORS, SURGE PILE, HAUL ROAD AND FEEDERS

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

• The Application for Authority to Construct forms and supplied attachments, dated September 10, 2018, received by the Saint Louis County Department of Public Health on October 1, 2018, designating Fred Weber, Inc. as the owner and operator of the installation.
This sheet covers the period from ___________ to ___________ (copy as needed)

<table>
<thead>
<tr>
<th>Month/Year</th>
<th>Production (Tons)</th>
<th>PM$_{10}$ Composite Emission Factor (lb/ton)</th>
<th>Monthly PM$_{10}$ Emissions (lbs) $^1$</th>
<th>Monthly PM$_{10}$ Emissions (tons) $^2$</th>
<th>12-Month Total Emissions (tons) $^3$</th>
</tr>
</thead>
<tbody>
<tr>
<td>example</td>
<td>75,000</td>
<td>0.0068</td>
<td>510</td>
<td>0.255</td>
<td></td>
</tr>
</tbody>
</table>

$^1$ Multiply the monthly production by the PM$_{10}$ composite emission factor

$^2$ Divide the monthly production in pounds by 2000 to calculate tons

$^3$ Add the monthly emissions (tons) to the sum of the monthly emissions from the previous eleven months. A total of less than 15.0 tons of PM$_{10}$ per consecutive 12 months is necessary for compliance.
Appendix A: 2019 Primary Crusher Relocation Project Process Flow Diagram

Fred Weber, Inc. – North Stone
St. Louis County
Project Number: AP201811016
Installation ID Number: 189-0017
St. Louis County APCP Permit Number: 8066

From Existing Wet Drilling (EP01), Truck Loading (EP03), and Hauling: Pit to Plant (EP04)

Hauling: Pit to Plant – Primary Crusher (EP04a)


Note: Conveyors #910045 (EP15-3), #910045 (EP15-2), and Conveyor #291617 (Part of EP17-2) will be removed from the process.