STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI AIR CONSERVATION COMMISSION

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: 062009-007 Project Number: 2009-03-069 186-0043

Parent Company: Fischer Quarry & Hauling LLC
Parent Company Address: 25501 State Rt. Z, St. Mary, MO 63673
Installation Name: Fischer Quarry & Hauling LLC
Installation Address: 25501 State Rt. Z, St Mary, MO 63673
Location Information: Ste. Genevieve County, S01, T36N, R9E

Application for Authority to Construct was made for:

The modification of an existing rock crushing plant. Rock is processed through 1 crusher(s), 2 screen(s), and 3 conveyor(s). The rock crushing plant has a maximum hourly design rate (MHDR) of 200 tons per hour (tph). Fischer Quarry is replacing their primary crusher and exchanging their secondary crusher for an additional screen. 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.

EFFECTIVE DATE

DIRECTOR OR DESIGNEE
DEPARTMENT OF NATURAL RESOURCES
STANDARD CONDITIONS:

Permission to construct may be revoked if you fail to begin construction or modification within two years from the effective date of this permit. Permittee should notify the Air Pollution Control Program 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 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 devises shall be operated and maintained as specified in the application, associated plans and specifications.

You must notify the Departments' Air Pollution Control Program of the anticipated date of start up of this (these) air contaminant sources(s). The information must be made available not more than 60 days but at least 30 days in advance of this date. Also, you must notify the Department of Natural Resources Regional office responsible for the area within which you are located within 15 days after the actual start up of this (these) air contaminant source(s).

A copy of this permit and permit review shall be kept at the installation address and shall be made available to Department of Natural Resources' personnel upon request.

You may appeal this permit or any of the listed special conditions 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 it 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.

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 sources(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 Construction Permit Unit at (573) 751-4817. If you prefer to write, please address your correspondence to the Missouri Department of Natural Resources, Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102-0176, attention: Construction Permit Unit.
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); by the Missouri Rules listed in Title 10, Division 10 of the Codes of State Regulations (specifically 10 CSR 10-6.060); by 10 CSR 10-6.060 paragraph (12)(A)10. “Conditions required by permitting authority”; by 10 CSR 10-6.010 “Ambient Air Quality Standards” and 10 CSR 10-6.060 subsections (5)(D) and (6)(A); and by control measures requested by the applicant, in their permit application, to reduce the amount of air pollutants being emitted, in accordance with 10 CSR 10-6.060 paragraph (6)(E)3. Furthermore, one or more of the Subparts of 40 CFR Part 60, New Source Performance Standards (NSPS), applies to this installation.

1. Best Management Practices
   Fischer Quarry & Hauling LLC shall control fugitive emissions from all of the haul roads and stockpiles at this site by performing Best Management Practices, which include the usage of paving, chemical dust suppressants, or documented watering. These practices are defined in Attachment AA.

2. National Ambient Air Quality Standards (NAAQS) Limitation for Particulate Matter Less Than Ten Microns in Diameter (PM$_{10}$)
   A. The operator(s) for Fischer Quarry & Hauling LLC rock crushing plant (186-0043) shall ensure, while operating at this site, that the ambient impact of PM$_{10}$ at or beyond the nearest property boundary does not exceed 150 µg/m$^3$ in any 24-hour period, in accordance with the Federal NAAQS requirements (40 CFR 50.6).
   B. The total daily ambient impact of PM$_{10}$ at this site shall include the combined impact of the rock crushing plant and any ambient background concentration from installations or equipment located on the same site as the rock crushing plant.
   C. To demonstrate compliance, the operator(s) shall maintain a daily record of material processed. Attachment A, Daily Ambient PM$_{10}$ Impact Tracking Record, or other equivalent form(s), will be used for this purpose.

3. Annual Emission Limit of Nitrous Oxides (NO$_x$)
   A. Fischer Quarry & Hauling LLC’s rock crushing plant (186-0043) shall emit into the atmosphere less than 40.0 tons of Nitrous Oxides (NO$_x$) from the 300 HP diesel engine (EP-7) on the new primary crusheer in any 12-month period.
   B. To demonstrate compliance, the operator(s) shall maintain a daily record of material processed. Attachment B, Monthly NO$_x$ Emissions Tracking Record, or other equivalent form(s), will be used for this purpose.

4. Usage of Wet Suppersion Control System on Equipment
   A. Fischer Quarry & Hauling LLC shall install and operate wet spray devices to restrict the emission of particulate matter. These wet spray devices must be used to control fugitive emissions whenever these units are in operation. The wet spray devices shall be installed on the following units:
      1) The primary crusher (EP1)
      2) The Cedar Rapids 2-Deck Screen (EP3)
   B. Watering may be suspended during periods of freezing conditions, when use of the wet spray devices may damage the equipment. During these conditions, the operator(s) shall adjust the production rate to control fugitive emissions from these units. The operator shall record a brief description of such events in a daily log.

5. Performance Testing for New Source Performance Standards (NSPS)
   A. Fischer Quarry & Hauling LLC shall submit the enclosed testing plan to the Enforcement section of the Air Pollution Control Program for all equipment applicable to NSPS Subpart “OOO”. Fischer Quarry & Hauling LLC shall contact the Enforcement section to obtain all requirements for testing, and the plan must be submitted to the Enforcement section at least 30 days prior to the proposed test date.
   B. Testing must be performed no later than 60 days after achieving the maximum production rate of the process, and in any case no later than 180 days after initial startup. The performance test results shall be submitted to the Enforcement section no later than 30 days after completion of any required testing.
SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

6. Prohibition Against Concurrent Operations of Separate Owner Plants Without Further Air Pollution Control Program Review
   The rock crushing plant (186-0043) is prohibited from operating whenever any other plant(s) are located at this site that are not owned by Fischer Quarry & Hauling, LLC.

7. Restriction on Process Configuration of Primary Emission Point(s)
   The maximum hourly design rate of the plant is equal to the sum of the design rate(s) of the primary emission point(s). Fischer Quarry & Hauling LLC has designated the following unit(s) as the primary emission point(s) of the rock crushing plant: primary crusher (EP1). The MHDR of EP1 is 200 tons per hour. Bypassing the primary emission point(s) for processing is prohibited.

8. Restriction on Minimum Distance to Nearest Property Boundary
   The primary emission point of the rock crushing plant, which is the primary crusher (EP1), shall be located at least 600 feet from the nearest property boundary whenever it is operating at this site.

9. Record Keeping Requirement
   The operator(s) shall maintain all records required by this permit for not less than five (5) years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request.

10. Reporting Requirement
    The operator(s) shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after any exceedances of the limitations imposed by this permit.

11. Superseding Condition
    The conditions of this permit supersede all special conditions found in the previously issued construction permit(s) (062004-013) from the Air Pollution Control Program.
TECHNICAL REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT

PROJECT DESCRIPTION

Fischer Quarries & Hauling, LLC has a stationary plant and is a minor source for PM$_{10}$ and NO$_x$. The stationary plant has a Section (5) construction permit where all pollutants will be held under de minimis because of a daily limit for PM$_{10}$ and an annual limit of NO$_x$. For this project, Fischer Quarries & Hauling, LLC is replacing their primary crusher with a 428 BL Pegson primary crusher and are also removing their secondary crusher and adding a Cedar Rapids 4 X 14 Two Deck Screen. The Pegson crusher has a 300 HP diesel engine to power itself. This diesel engine triggers the need for an annual 40.0 ton NO$_x$ limit.

Listed below is the equipment that is or will be permitted for Fischer Quarries & Hauling, LLC’s stationary plant on Site 186-0043

Table 1: Stationary Plant Equipment List for Site 186-0043

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>EP1</td>
<td>Primary Crusher – BL Pegson 428 (300 HP diesel engine)</td>
</tr>
<tr>
<td>EP3</td>
<td>Cedar Rapids 2-Deck Screen</td>
</tr>
<tr>
<td>EP3a</td>
<td>Screen Conveyor</td>
</tr>
<tr>
<td>EP3b</td>
<td>Screen Conveyor</td>
</tr>
<tr>
<td>EP5</td>
<td>Stockpile</td>
</tr>
<tr>
<td>EP6a</td>
<td>Haul Road #1</td>
</tr>
<tr>
<td>EP6b</td>
<td>Haul Road #2</td>
</tr>
<tr>
<td>*EP7</td>
<td>Diesel Engines combined into one Emission Unit</td>
</tr>
<tr>
<td>EP8</td>
<td>2003 Chiefton Power Screen (110 HP diesel engine)</td>
</tr>
<tr>
<td>EP8a</td>
<td>Screen Conveyor</td>
</tr>
</tbody>
</table>

*The primary crusher and Chiefton screen are powered by their own diesel engine. There is also a 130 HP diesel generator.

All the emission points are listed in the attached spreadsheet summary. This installation is not on the List of Named Installations [10 CSR 10-6.020(3)(B), Table 2]. The installation is located in Ste. Genevieve County, an attainment area for all criteria air pollutants.

Table 2: Other Permits Issued for Site 186-0043

<table>
<thead>
<tr>
<th>Permit Number</th>
<th>Completed</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>052004-003</td>
<td>5/5/2004</td>
<td>Amend primary plant for co-location</td>
</tr>
<tr>
<td>062004-013</td>
<td>6/24/2004</td>
<td>Add Power Screen and BMPs</td>
</tr>
</tbody>
</table>

EMISSIONS EVALUATION

Criteria air pollutants will be emitted from this operation. The main air pollutant of concern is NO$_x$. The potential emissions were calculated from the maximum hourly design rate (MHDR) of the equipment, appropriate emission factors, control device efficiencies, and the limiting operating hours at MHDR. The sources of the emission factors and control efficiencies are listed in the section “Permit Documents”. Based on the conditioned potential emissions, the project is considered a de minimis source under 10 CSR 10-6.060 section (5).

Table 3: Emissions Summary (tons per year)

<table>
<thead>
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<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PM$_{10}$</td>
<td>15.0</td>
<td>6.86</td>
<td>7.15</td>
<td>4.21</td>
<td>4.00</td>
<td>N/A</td>
</tr>
<tr>
<td>SO$_x$</td>
<td>40.0</td>
<td>2.76</td>
<td>0.56</td>
<td>2.77</td>
<td>2.63</td>
<td>N/A</td>
</tr>
<tr>
<td>NO$_x$</td>
<td>40.0</td>
<td>17.50</td>
<td>8.46</td>
<td>42.11</td>
<td>&lt;40.0</td>
<td>0.6042</td>
</tr>
<tr>
<td>VOC</td>
<td>40.0</td>
<td>0.45</td>
<td>0.69</td>
<td>3.44</td>
<td>3.27</td>
<td>N/A</td>
</tr>
<tr>
<td>CO</td>
<td>100.0</td>
<td>4.65</td>
<td>1.82</td>
<td>9.07</td>
<td>8.62</td>
<td>N/A</td>
</tr>
<tr>
<td>HAPs</td>
<td>10.0/25.0</td>
<td>0.01</td>
<td>0.00</td>
<td>0.04</td>
<td>0.04</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Note: N/A = Not Applicable
* Existing potential emissions taken from permit # 062004-013
** Conditioned potential based on voluntary limit. All other pollutants are proportionally reduced.
AMBIENT AIR QUALITY IMPACT ANALYSIS

Screening tools were used to evaluate the ambient air impact of the hourly emissions from this operation. The ambient impact was evaluated at a distance of 600 feet to the nearest property boundary. The ambient impact at this site shall not exceed the National Ambient Air Quality Standard (NAAQS) of 150 µg/m³ of PM₁₀ at or beyond the nearest property boundary in any single 24-hour period. The screening tools were used to develop an ambient impact factor for the rock crushing plant. This ambient impact factor is incorporated into the daily record keeping table, Attachment A.

For sources agreeing to use Best Management Practices (BMPs), as defined in Attachment AA, haul roads and stockpiles are not modeled with screening tools. Instead, they are addressed as a background level of 20 µg/m³ of PM₁₀. To ensure conformity with NAAQS, the remaining process emissions are limited to an impact of less than 130 µg/m³ of PM₁₀ at or beyond the nearest property boundary.

Table 4: Ambient Air Quality Impact Analysis of PM₁₀, 24-Hour Averaging Time

<table>
<thead>
<tr>
<th>Operation</th>
<th>Ambient Impact Factor (µg/m³/ton)</th>
<th>Modeled Impact (µg/m³)</th>
<th>*Background (µg/m³)</th>
<th>NAAQS (µg/m³)</th>
<th>Daily Production Limit (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solitary</td>
<td>0.0296</td>
<td>130.00</td>
<td>20.00</td>
<td>150.00</td>
<td>4399</td>
</tr>
<tr>
<td>Concurrent (Same)</td>
<td>0.0296</td>
<td>**</td>
<td>20.00</td>
<td>**</td>
<td>**</td>
</tr>
</tbody>
</table>

* Background PM₁₀ level of 20.00 µg/m³ from haul roads and stockpiles.
** The operator(s) must balance production among concurrently operating plants, with the ambient impacts for each, such that NAAQS is not exceeded. Ambient impacts for other plants owned by Fred Weber can be obtained from the operators of these plants.

APPLICABLE REQUIREMENTS

The owner is subject to compliance with the following applicable requirements. The Missouri Air Conservation Laws and Regulations should be consulted for specific record keeping, monitoring, and reporting 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
- **Restriction of Emission of Odors**, 10 CSR 10-3.090
- **Restriction of Emission of Particulate Matter From Industrial Processes**, 10 CSR 10-6.400
- **Restriction of Emission of Sulfur Compounds**, 10 CSR 10-6.260
- The National Emission Standards for Hazardous Air Pollutants (NESHAPs) and the currently promulgated Maximum Achievable Control Technology (MACT) regulations do not apply to the proposed 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, I recommend this permit be granted with special conditions.

Gerad Fox
Environmental Engineer

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:
- The Application for Authority to Construct form, designating Fischer Quarry & Hauling LLC as the owner and operator of the installation.
- Environmental Protection Agency (EPA) AP-42, Compilation of Air Pollutant Emission Factors; Volume I, Stationary Point and Area Sources, Fifth Edition.
- Spreadsheet calculations of potential-to-emit and ambient impact.
- Southeast Regional Office Site Survey.
- Best Management Practices
### Table: Daily Ambient PM$_{10}$ Impact Tracking Record

#### Fischer Quarry & Hauling LLC, 186-0043 – Portable Rock Crushing Plant

**Project Number:** 2009-03-069

**Site Name, County, CSTR:** Ste. Genevieve County, S01, T36N, R9E

**Primary Unit Size:** 200 tph

**Distance to Nearest Property Boundary:** 600 feet

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#### Project Information

<table>
<thead>
<tr>
<th>Date</th>
<th>Daily Production (tons)</th>
<th>Ambient Impact Factor ($\mu g/m^3/\text{ton}$)</th>
<th>$^1$Daily PM$_{10}$ Impact ($\mu g/m^3$)</th>
<th>Daily PM$_{10}$ Impact ($\mu g/m^3$)</th>
<th>Daily PM$_{10}$ Impact ($\mu g/m^3$)</th>
<th>Daily PM$_{10}$ Impact ($\mu g/m^3$)</th>
<th>Background PM$_{10}$ Level ($\mu g/m^3$)</th>
<th>TOTAL PM$_{10}$ Level ($\mu g/m^3$)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Example</strong></td>
<td>2500</td>
<td>0.0296</td>
<td>74.00</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>20.00</td>
<td>94.00</td>
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<tr>
<td></td>
<td>0.0296</td>
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<td>0.0296</td>
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<td>20.00</td>
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**Note 1:** The Daily PM$_{10}$ Impact ($\mu g/m^3$) for 186-0043 is calculated by multiplying the Daily Production (tons) by the matching Ambient Impact Factor.

**Note 2:** Background PM$_{10}$ Level ($\mu g/m^3$) is from Haul Roads and Stockpiles.

**Note 3:** The TOTAL PM$_{10}$ Level ($\mu g/m^3$) is calculated by summing the Daily PM$_{10}$ Ambient Impact(s) and the Background PM$_{10}$ Level. A TOTAL PM$_{10}$ Level of less than 150 $\mu g/m^3$ in any 24-hour period indicates compliance.
Attachment B: Monthly NO\textsubscript{x} Emissions Tracking Record

Fischer Quarry & Hauling LLC, 186-0043 – Portable Rock Crushing Plant

Project Number: 2009-03-069
County, CSTR: Ste. Genevieve County (S01, T36N, R9E)
Primary Unit Size: 200 tph
Distance to Nearest Property Boundary: 600 feet

This sheet covers the period from ________________ to ________________ (Month, Day, Year)
(Copy this sheet as needed.)

<table>
<thead>
<tr>
<th>Month</th>
<th>Monthly Fuel Usage (gal)</th>
<th>Composite NO\textsubscript{x} Emission Factor (lbs/gal)</th>
<th>(^1)Monthly NO\textsubscript{x} Emissions (lbs)</th>
<th>(^2)Monthly NO\textsubscript{x} Emissions (tons)</th>
<th>(^3)12-Month NO\textsubscript{x} Emissions (tons/year)</th>
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<tbody>
<tr>
<td>Example</td>
<td>4000</td>
<td>0.6042</td>
<td>2416.8</td>
<td>1.21</td>
<td>9.18</td>
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</tbody>
</table>

Note 1: The Monthly Emissions (lbs) are calculated by multiplying the Monthly Fuel Usage (gal) by the Composite Emission Factor (lbs/gal).
Note 2: The Monthly Emissions (tons) are calculated by dividing the Monthly Emissions (lbs) by 2,000.
Note 3: The 12-Month Emissions (tons/year) are a rolling total calculated by adding the Month’s Emissions (tons) to the Monthly Emissions (tons) of the previous eleven (11) months. A total of less than 40.0 tons in any consecutive 12-month period indicates compliance.
Attachment AA: Best Management Practices (BMPs)- Construction Industry

Fugitive Emissions

Construction Industry Sites covered by the Interim Relief Policy shall maintain Best Management Control Practices (BMPs) for fugitive emission areas at their installations when in operation. Options for BMPs are at least one of the following:

For Haul Roads:

1. **Pavement of Road Surfaces** –
   A. The operator(s) may pave all or any portion of the haul roads with materials such as asphalt, concrete, and/or other material(s) after receiving approval from the program. The pavement will be applied in accordance with industry standards for such pavement so as to achieve "Control of Fugitive Emissions" while the plant is operating.
   B. Maintenance and/or repair of the road surface will be conducted as necessary to ensure that the physical integrity of the pavement is adequate to achieve control of fugitive emissions from these areas while the plant is operating.
   C. The operator(s) shall periodically water, wash and/or otherwise clean all of the paved portions of the haul road(s) as necessary to achieve control of fugitive emissions from these areas while the plant is operating.

2. **Usage of Chemical Dust Suppressants** –
   A. The operator(s) shall apply a chemical dust suppressant (such as magnesium chloride, calcium chloride, lignosulfonates, etc.) to all the unpaved portions of the haul roads. The suppressant will be applied in accordance with the manufacturer’s suggested application rate (if available) and re-applied as necessary to achieve control of fugitive emissions from these areas while the plant is operating.
   B. The quantities of the chemical dust suppressant shall be applied, re-applied and/or maintained sufficient to achieve control of fugitive emissions from these areas while the plant is operating.
   C. The operator(s) shall record the time, date and the amount of material applied for each application of the chemical dust suppressant agent on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.

3. **Usage of Documented Watering** –
   A. The operator(s) shall control the fugitive emissions from all the unpaved portions of the haul roads at the installation by consistently and correctly using the application of a water spray. Documented watering will be applied in accordance with a recommended application rate of 100 gallons per day per 1,000 square feet of unpaved/untreated surface area of haul roads as necessary to achieve control of fugitive emissions from these areas while the plant is operating. For example, the operator(s) shall calculate the total square feet of unpaved vehicle activity area requiring control on any particular day, divide that product by 1,000, and multiply the quotient by 100 gallons for that day.
   B. The operator(s) shall maintain a log that documents daily water applications. This log shall include, but is not limited to, date and volumes (e.g., number of tanker applications and/or total gallons used) of water application. The log shall also record rationale for not applying water on day(s) the plant is in operation (e.g., meteorological situations, precipitation events, freezing, etc.)
   C. Meteorological precipitation of any kind, (e.g. a quarter inch or more rainfall, sleet, snow, and/or freeze thaw conditions) which is sufficient in the amount or condition to achieve control of fugitive emissions from these areas while the plant is operating.
   D. Watering may also be suspended when the ground is frozen, during periods of freezing conditions when watering would be inadvisable for traffic safety reasons, or when there will be no traffic on the roads. The operator(s) shall record a brief description of such events in the same log as the documented watering.
   E. The operator(s) shall record the date and the amount of water applied for each application on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.

1 For purposes of this document, Control of Fugitive Emissions means to control particulate matter that is not collected by a capture system and visible emissions to the extent necessary to prevent violations of the air pollution law or regulation. (Note: control of visible emission is not the only factor to consider in protection of ambient air quality.)
For Vehicle Activity Areas around Open Storage Piles:

1. **Pavement of Stockpile Vehicle Activity Surfaces** –
   
   A. The operator(s) may pave all or any portion of the vehicle activity areas around the storage piles with materials such as asphalt, concrete, and/or other material(s) after receiving approval from the program. The pavement will be applied in accordance with industry standards for such pavement so as to achieve control of fugitive emissions while the plant is operating.
   
   B. Maintenance and/or repair of the road surface will be conducted as necessary to ensure that the physical integrity of the pavement is adequate to achieve control of fugitive emissions from these areas while the plant is operating.
   
   C. The operator(s) shall periodically water, wash and/or otherwise clean all of the paved portions of the vehicle activity areas around the storage piles as necessary to achieve control of fugitive emissions from these areas while the plant is operating.

2. **Usage of Chemical Dust Suppressants** –
   
   A. The operator(s) shall apply a chemical dust suppressant (such as magnesium chloride, calcium chloride, lignosulfonates, etc.) to all the vehicle activity areas around the open storage piles. The suppressant will be applied in accordance with the manufacturer’s suggested application rate (if available) and re-applied as necessary to achieve control of fugitive emissions from these areas while the plant is operating.
   
   B. The quantities of the chemical dust suppressant shall be applied, re-applied and/or maintained sufficient to achieve control of fugitive emissions from these areas while the plant is operating.
   
   C. The operator(s) shall record the time, date and the amount of material applied for each application of the chemical dust suppressant agent on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.

3. **Usage of Documented Watering** –
   
   A. The operator(s) shall control the fugitive emissions from all the vehicle activity areas around the storage piles at the installation by consistently and correctly using the application of a water spray. Documented watering will be applied in accordance with a recommended application rate of 100 gallons per day per 1,000 square feet of unpaved/untreated surface area of vehicle activity areas around the storage piles as necessary to achieve control of fugitive emissions from these areas while the plant is operating. (Refer to example for documented watering of haul roads.)
   
   B. The operator(s) shall maintain a log that documents daily water applications. This log shall include, but is not limited to, date and volumes (e.g., number of tanker applications and/or total gallons used) of water application. The log shall also record rationale for not applying water on day(s) the plant is in operations (e.g., meteorological situations, precipitation events, freezing, etc.)
   
   C. Meteorological precipitation of any kind, (e.g. a quarter inch or more rainfall, sleet, snow, and/or freeze thaw conditions) which is sufficient in the amount or condition to achieve control of fugitive emissions from these areas while the plant is operating.
   
   D. Watering may also be suspended when the ground is frozen, during periods of freezing conditions when watering would be inadvisable for traffic safety reasons, or when there will be no traffic on the roads. The operator(s) shall record a brief description of such events in the same log as the documented watering.
   
   E. The operator(s) shall record the date and the amount of water applied for each application on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.
Enclosed with this letter is your New Source Review permit. Please review your permit carefully and note the special conditions, if any, and the requirements in your permit.

Operation in accordance with the conditions and requirements in your permit, the New Source Review application submitted for project 2009-03-069, and your amended operating permit, if required, is necessary for continued compliance. Please review your amended operating permit, as it will contain all applicable requirements for your rock crushing plant, including any special conditions from your New Source Review permit.

The section of the permit entitled “Technical Review of Application for Authority to Construct” should not be separated from the main portion of your permit. The entire permit must be retained in your files. The reverse side of your permit certificate has important information concerning standard permit conditions and your rights and obligations under the laws and regulations of the State of Missouri.

If you have any questions regarding this permit, please do not hesitate to contact Gerad Fox at the Department’s Air Pollution Control Program, P.O. Box 176, Jefferson City, Missouri 65102, or by telephone at (573) 751-4817. Thank you for your time and attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Kendall B. Hale, P.E.
Initial Review Unit Chief

KBH:gfk

Enclosures

c: Southeast Regional Office
   PAMS File: 2009-03-069
   Permit Number: