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: 06 2 0 0 9 - 0 0 5 Project Number: 2009-03-077
Parent Company: Midwest Stone LLC
Parent Company Address: 329 Josephville Road, Wentzville, MO 63385
Installation Name: Midwest Stone LLC
Installation Address: 5199 County Road 371, Shelbina, MO 63468
Location Information: Shelby County (S5, T57N, R9W)

Application for Authority to Construct was made for:

The modification of an existing rock crushing plant to replace existing equipment and to change the plant from a portable plant to a stationary plant. The rock crushing plant has a maximum hourly design rate (MHDR) of 400 tons per hour (tph). Best Management Practices will be used to control fugitive emissions from haul roads and vehicular activity areas. 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.

JUN 5 2009
EFFECTIVE DATE
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/18 months 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
   Midwest Stone 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 Midwest Stone LLC’s rock crushing plant (205-0021) shall ensure, while operating at this site, that the ambient impact of PM$_{10}$ at or beyond the nearest property boundary does not exceed 150.0 µg/m$^3$ in any 24-hour period, in accordance with the Federal NAAQS requirements (40 CFR 50.6).
   B. The stationary plant is permitted to operate with other plants at the site. 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 and the resulting daily PM$_{10}$ ambient air impact. Attachment A, Daily Ambient PM$_{10}$ Impact Tracking Record, or other equivalent form(s), shall be used for this purpose.

3. Annual Emission Limit of Particulate Matter Less Than Ten Microns in Diameter (PM$_{10}$)
   A. The operator(s) shall ensure that Midwest Stone LLC’s rock crushing plant emits less than 15.0 tons of PM$_{10}$ into the atmosphere in any 12-month period.
   B. To demonstrate compliance, the operator(s) shall maintain a daily record of material processed and PM$_{10}$. Attachment B, Monthly PM$_{10}$ Emissions Tracking Record, or other equivalent form(s), shall be used for this purpose.

4. Annual Emission Limit of Nitrogen Oxides (NO$_x$)
   A. The operator(s) shall ensure that Midwest Stone LLC’s stationary rock crushing plant emits less than 40.0 tons of NO$_x$ into the atmosphere in any 12-month period.
   B. To demonstrate compliance, the operator(s) shall maintain a daily record of material processed and NO$_x$.
   C. Monthly Nitrogen Oxides (NO$_x$) Emissions Tracking Record, or other equivalent form(s), shall be used for this purpose.

5. Moisture Content Testing Requirement for Inherent Moisture Content
   A. The inherent moisture content of the rock will reduce particulate emissions. Midwest Stone LLC claimed the inherent moisture content of the processed rock to be greater than or equal to 1.5 wt%, which shall be verified by testing.
   B. Testing shall be conducted according to approved methods, such as those prescribed by the American Society for Testing Materials (ASTM D-2216 or C-566), EPA AP-42 Appendix C.2, or other method(s) approved by the Director. The first test shall be performed no later than 45 days after issuance of this permit. Testing shall be conducted for three consecutive years during the months of June through September, while the rock crushing plant is active at this site. If the test results have been consistently greater than 1.5 wt% and there is no reported emission exceedances from the plant, then no further testing is required and this site shall be deemed to have met this condition on all subsequent permits. Verification of the results will be performed during a routine inspection. If the test results have been less than 1.5 wt% and/or there is substantial change in the emissions from the...
SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

plant, then Midwest Stone LLC shall apply for a new construction permit to account for the revised information or operate a wet suppression system capable of maintaining visible emissions standards for each unit within 30 days.

C. The operator shall obtain test samples before processing (before entering the Primary Crusher, EP01) and after processing (prior to load-in to bins and/or storage piles). During the sample processing run only, any spray devices shall be turned off during the processing from which test samples are obtained. The written analytical report shall include the raw data and moisture content (wt.%) of each sample, the test date, and the original signature of the individual performing the test. Within 30 days of completion of the required tests, the report shall be filed on-site or at Midwest Stone LLC’s main office.

6. 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). Midwest Stone LLC has designated the following unit(s) as the primary emission point(s) of the rock crushing plant: primary crusher (EP01A). Bypassing the primary emission point(s) for processing is prohibited.

7. Restriction on Minimum Distance to Nearest Property Boundary
The primary emission point of the rock crushing plant, which is the primary crusher (EP01A), shall be located at least 600 feet from the nearest property boundary whenever it is operating at this site.

Midwest Stone LLC shall comply with all appropriate monitoring, testing, reporting and record keeping requirements of 40 CFR Part 60, Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants.

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 (APCP) 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.
TECHNICAL REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT

PROJECT DESCRIPTION

This rock crushing plant was originally permitted as a portable plant (PORT-0517) through Permit No. 022005-014 (Project no. 2004-12-101) for a site in Madison County. It was permitted to be moved to the site in Shelby County (S5, T57N, R9W) in 2007 through project no. 2007-05-123. This rock crushing plant would now like to be changed into a stationary plant. The plant will also be replacing a Nordberg Model LT105 Jaw Crusher, rated at 300 tons/hr, an attached grizzly feeder, two conveyors and a 300 horsepower diesel engine with a Nordberg Metso Model LT1213S impact crusher, rated at 400 tons/hr, an attached grizzly feeder, two conveyors and a 425 horsepower diesel engine.

There is another stationary rock crushing plant (Project 2006-02-077) currently permitted to operate at the site, but its permit (No. 052006-005) does not allow for concurrent operations with any plants other than portable plant, PORT-0297. According to the company, this plant has been sold and will no longer operate at the site.

This installation is not on the List of Named Installations [10 CSR 10-6.020(3)(B), Table 2]. The installation is located in Shelby County, an attainment area for all criteria air pollutants.

EMISSIONS EVALUATION

Criteria air pollutants will be emitted from this operation. The main air pollutant of concern is PM$_{10}$. 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 operation is considered a de minimis source under 10 CSR 10-6.060 section (5).

The rock crushing plant has accepted a limit of less than 15.0 tons of PM$_{10}$ and 40.0 tons of NO$_x$ in any 12-month period so increment analysis would not be required. A composite PM$_{10}$ emission factor and a NO$_x$ emission factor were developed for the rock crushing plant. The composite emission factor for PM$_{10}$ is incorporated into the monthly record keeping table, Attachment B and the NO$_x$ emission factor is incorporated into the monthly record keeping table, Attachment C.

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<td>PM$_{10}$</td>
<td>15.0</td>
<td>49.75</td>
<td>6.14</td>
<td>84.39</td>
<td>&lt;15.00</td>
<td>0.04817</td>
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<td>SO$_x$</td>
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<td>5.32</td>
<td>0.50</td>
<td>7.85</td>
<td>2.63</td>
<td>N/A</td>
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<tr>
<td>NO$_x$</td>
<td>40.0</td>
<td>80.87</td>
<td>7.55</td>
<td>119.32</td>
<td>&lt;40.00</td>
<td>0.6042</td>
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<td>VOC</td>
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<td>6.60</td>
<td>0.62</td>
<td>9.78</td>
<td>3.28</td>
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<td>1.63</td>
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<td>0.11</td>
<td>0.04</td>
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Note: N/A = Not Applicable; N/D = Not Determined
Note 1: Existing potential emissions taken from permit # 022005-014 (Project 2004-12-101)
Note 2: PM$_{10}$ and NO$_x$ conditioned potential based on limit required to avoid increment analysis. Other pollutants proportionately reduced based on NO$_x$ conditioned potential.
Note 3: 0.04817 is in lbs/ton; 0.6042 is in lbs/gal.

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/m$^3$ of PM$_{10}$ at or beyond the nearest property boundary in any single 24-hour period. 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/m$^3$ of PM$_{10}$. To ensure conformity with NAAQS, the remaining process emissions are limited to an impact of less than 130 µg/m$^3$ of PM$_{10}$ at or beyond the nearest property boundary.
The new stationary plant is permitted to operate under four (4) scenarios. The screening tools were used to develop ambient impact factors for the rock crushing plant during each operating scenario. The ambient impact factor is incorporated into the daily record keeping table, Attachment A. An ambient background level of PM$_{10}$ from the operation(s) of plants owned by other companies is included in Attachment A.

- **Solitary Operations:** This is operations when the stationary plant is the only plant located at this site. The stationary plant shall track its own daily PM$_{10}$ ambient impact to ensure compliance with NAAQS. Attachment A, or equivalent forms, shall be used for this purpose.
- **Concurrent (Same Owner) Operations:** This is operations when the stationary plant is located at this site at the same time as other plants owned by Midwest Stone LLC. Midwest Stone LLC may balance production between the plants to ensure compliance with NAAQS. Attachment A, or equivalent forms, shall be used for this purpose.
- **Concurrent (Separate Owner) Operations:** This is operations when the stationary plant is located at this site at the same time as plants owned by other companies. The stationary plant is permitted for 41.82 µg/m$^3$ of daily PM$_{10}$ ambient impact while plants owned by other companies are permitted for a combined 88.18 µg/m$^3$. The stationary plant shall track its own daily PM$_{10}$ ambient impact to ensure that its own daily PM$_{10}$ ambient impact does not exceed 41.82 µg/m$^3$. Attachment A, or equivalent forms, shall be used for this purpose.
- **Concurrent (Same and Separate Owner) Operations:** This is operations when the stationary plant is located at this site at the same time as plants owned by other companies and plants owned by Midwest Stone LLC. Plants owned by Midwest Stone LLC is permitted for 41.82 µg/m$^3$ of combined daily PM$_{10}$ ambient impact while plants owned by other companies are permitted for a combined 88.18 µg/m$^3$. The stationary plant shall track the daily PM$_{10}$ ambient impact of all plants owned by Midwest Stone LLC to ensure that the combined daily PM$_{10}$ ambient impact of these plants does not exceed 41.82 µg/m$^3$. Attachment A, or equivalent forms, shall be used for this purpose.

### Table 3: Ambient Air Quality Impact Analysis of PM$_{10}$, 24-Hour Averaging Time

<table>
<thead>
<tr>
<th>Operation</th>
<th>Ambient Impact Factor (µg/m$^3$/ton)</th>
<th>Modeled Impact (µg/m$^3$)</th>
<th>*Background (µg/m$^3$)</th>
<th>NAAQS (µg/m$^3$)</th>
<th>Daily Production Limit (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Solitary</td>
<td>0.01701</td>
<td>130.00</td>
<td>20.00</td>
<td>150.00</td>
<td>7,641</td>
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<tr>
<td>2. Concurrent (Same Owner)</td>
<td>0.01701</td>
<td>**</td>
<td>20.00</td>
<td>150.00</td>
<td>**</td>
</tr>
<tr>
<td>3. Concurrent (Separate Owners)</td>
<td>0.01002</td>
<td>41.82</td>
<td>108.18</td>
<td>150.00</td>
<td>4,172</td>
</tr>
<tr>
<td>4. Concurrent (Same and Separate Owners)</td>
<td>0.01002</td>
<td>**</td>
<td>108.18</td>
<td>150.00</td>
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</tbody>
</table>

*Background PM$_{10}$ level of 20.00 µg/m$^3$ from haul roads and stockpiles and 88.18 µg/m$^3$ from the operation of plants owned by other companies.

**The operator(s) must balance production among concurrently operating plants, with the ambient impact for each, such that NAAQS is not exceeded. Ambient impacts from other plants owned by Midwest Stone LLC 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
- **Operating Permits,** 10 CSR 10-6.065
- An Operating Permit application is required for this installation within 30 days of receiving this permit.
- **Restriction of Emission 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.

Chia-Wei Young  
Environmental Engineer

Date

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, designating Midwest Stone 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.
- Northeast Regional Office Site Survey.
- Best Management Practices.
### Attachment A: Daily Ambient PM<sub>10</sub> Impact Tracking Record

**Midwest Stone LLC, 205-0021 – Portable Rock Crushing Plant**

**Project Number:** 2009-03-077  
**County, CSTR:** Shelby County (S5, T57N, R9W)  
**Primary Unit Size:** 400 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>Date</th>
<th>Daily Production (tons)</th>
<th>¹Ambient Impact Factor (µg/m³/ton)</th>
<th>²Daily PM&lt;sub&gt;10&lt;/sub&gt; Impact (µg/m³)</th>
<th>³Daily PM&lt;sub&gt;10&lt;/sub&gt; Impact (µg/m³)</th>
<th>⁴Daily PM&lt;sub&gt;10&lt;/sub&gt; Impact (µg/m³)</th>
<th>⁵Background PM&lt;sub&gt;10&lt;/sub&gt; Level (µg/m³)</th>
<th>⁶TOTAL PM&lt;sub&gt;10&lt;/sub&gt; Level (µg/m³)</th>
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<tr>
<td></td>
<td>0.01701/0.01002</td>
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**Note 1:** 0.01701 shall be used during solitary and concurrent (same owner) operations and 0.01002 shall be used during concurrent (separate owners) and concurrent (same and separate owners) operations.

**Note 2:** The Daily PM<sub>10</sub> Impact (µg/m³) for the stationary plant is calculated by multiplying the Daily Production (tons) by the matching Ambient Impact Factor (µg/m³/ton).

**Note 3:** The Daily PM<sub>10</sub> Ambient Impact (µg/m³) of other plants owned by Midwest Stone LLC. can be obtained from the operators of these plants.

**Note 4:** The Background PM<sub>10</sub> Ambient Impact (µg/m³) from plants owned by other companies should only be used during concurrent (separate owner) and concurrent (same and separate owners) operations.

**Note 5:** Background PM<sub>10</sub> Level (µg/m³) is from Haul Roads and Stockpiles.

**Note 6:** The TOTAL PM<sub>10</sub> Level (µg/m³) is calculated by summing the Daily PM<sub>10</sub> Ambient Impact(s) and the Background PM<sub>10</sub> Level. A TOTAL PM<sub>10</sub> Level of less than 150.0 µg/m³ in any 24-hour period indicates compliance.
Attachment B: Monthly PM$_{10}$ Emissions Tracking Record  
Midwest Stone LLC, 205-0021 – Rock Crushing Plant

Project Number: 2009-03-077  
County, CSTR: Shelby County (S5, T57N, R9W)  
Primary Unit Size: 400 tph  
Distance to Nearest Property Boundary: 600 feet

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

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<th>$^1$Monthly PM$_{10}$ Emissions (lbs)</th>
<th>$^2$Monthly PM$_{10}$ Emissions (tons)</th>
<th>$^3$12-Month PM$_{10}$ Emissions (tons/year)</th>
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Note 1: The Monthly Emissions (lbs) are calculated by multiplying the Monthly Production (tons) by the Composite Emission Factor (lbs/ton).  
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 15.0 tons in any consecutive 12-month period indicates compliance.
**Attachment C: Monthly NO\textsubscript{x} Emissions Tracking Record**

**Midwest Stone LLC, 205-0021 – Rock Crushing Plant**

Project Number: 2009-03-077  
County, CSTR: Shelby County (S5, T57N, R9W)  
Primary Unit Size: 400 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>¹Monthly NO\textsubscript{x} Emissions (lbs)</th>
<th>²Monthly NO\textsubscript{x} Emissions (tons)</th>
<th>³12-Month NO\textsubscript{x} Emissions (tons/year)</th>
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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.

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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.
Mr. William Gaines  
Manager  
Midwest Stone  
329 Josephville Road  
Wentzville, MO 63385  

RE: New Source Review Permit - Project Number: 2009-03-077  

Dear Mr. Gaines:  

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 and the New Source Review application submitted for project 2009-03-077 is necessary for continued compliance. The installation will be required to apply for a basic operating permit within thirty (30) days after receiving this permit and to submit a full EIQ for emissions from its first full year as a stationary plant. Since 2010 will be the first year that the installation operates as a stationary installation for the entire year, a full EIQ should be submitted in 2011 for the emissions from 2010.  

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 Chia-Wei Young 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 Hale, P.E.  
New Source Review Unit Chief  
KH: cwyk  

Enclosures  

c: Northeast Regional Office  
PAMS File: 2009-03-077  
Permit Number: