Base Rock Minerals operates a stationary rock crushing plant at Fruitland Quarry in Jackson, Missouri under Construction Permit No. 122010-013. The plant is capable of crushing up to 650 tons per hour and has historically been powered by a 900 kW diesel generator set. The original construction permit was amended in May 2018 to remove the concurrent operation restriction and to remove the National Ambient Air Quality Standards (NAAQS) limitation for PM10, according to the Air Pollution Control Program’s updated construction industry policy: Ceasing the Use of Nomographs, dated May 1, 2016. Base Rock Minerals is amending the permit again to remove the generator set, since the crushing plant now operates using line power.

The removal of the generator set will cause the potential emissions of SOx, NOx, VOCs, CO, and HAPs for the plant to be reduced to zero. Potential PM, PM10, and PM2.5 emissions will also be slightly reduced. Special Condition 4 (annual NOx emission limit) & Special Condition 6 (fuel sulfur content limit) of Construction Permit 122010-013 will no longer apply since these conditions are dependent on the use of the generator set. Special Condition 3 will be superseded and reinstated to account for the change in PM10 emissions. Table 1 provides an updated emissions summary for the crushing plant.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PM</td>
<td>25.0</td>
<td>N/D</td>
<td>N/D</td>
<td>N/D</td>
<td>N/D</td>
</tr>
<tr>
<td>PM10</td>
<td>15.0</td>
<td>5.45</td>
<td>18.42</td>
<td>107.81</td>
<td>&lt;15.0</td>
</tr>
<tr>
<td>PM2.5</td>
<td>10.0</td>
<td>0.62</td>
<td>2.68</td>
<td>35.53</td>
<td>4.94</td>
</tr>
<tr>
<td>SOx</td>
<td>40.0</td>
<td>N/D</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>NOx</td>
<td>40.0</td>
<td>N/D</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VOC</td>
<td>40.0</td>
<td>N/D</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>CO</td>
<td>100.0</td>
<td>N/D</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Total HAPs</td>
<td>25.0</td>
<td>N/D</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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

a Excludes haul road and storage pile emissions
b Includes site specific haul road and storage pile emissions
c Conditioned potential emissions account for a voluntary PM10 de minimis limit
40 CFR 60, Subpart III – *Standards of Performance for Stationary Compression Ignition Internal Combustion Engines* did not previously apply to the generator set; however, 40 CFR 63, Subpart ZZZZ – *National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines* did apply. With the removal of the generator set, Subpart ZZZZ will no longer be applicable.

Operation of the crushing plant will not be changed in any way, and Base Rock Minerals shall continue to abide by all effective conditions/requirements of Construction Permit No. 122010-013 and its amendments. This amendment shall be kept onsite along with the original construction permit and be made available to Department of Natural Resources’ employees upon request.

If you were adversely affected by this permit decision, you may be entitled to pursue an appeal before the administrative hearing commission pursuant to Sections 621.250 and 643.075.6 RSMo. To appeal, you must file a petition with the administrative hearing commission within thirty 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 administrative hearing commission, whose contact information is: Administrative Hearing Commission, United States Post Office Building, 131 West High Street, Third Floor, P.O. Box 1557, Jefferson City, Missouri 65102, phone: 573-751-2422, fax: 573-751-5018, website: [www.oa.mo.gov/ahc](http://www.oa.mo.gov/ahc).

If you have any questions regarding this amendment, please do not hesitate to contact Ryan Schott, at the department’s Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or at (573) 751-4817. Thank you for your attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Kendall B. Hale
Permits Section Chief

KBH:rsj

Enclosures

c: Southeast Regional Office
PAMS File: 2018-06-034
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 to 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.”

Base Rock Minerals – Fruitland Quarry
Cape Girardeau County (S20, T32N, R13E)

1. Superseding Condition
   The conditions of this permit supersede Special Conditions 3, 4 & 6 found in Construction Permit No. 122010-013, previously issued by the Air Pollution Control Program.

2. Annual PM$_{10}$ Emission Limit
   A. Base Rock Minerals – Fruitland Quarry shall emit less than 15.0 tons of PM$_{10}$ in any consecutive 12-month period from the crushing plant and any associated haul roads and storage piles.
   
   B. Base Rock Minerals – Fruitland Quarry shall demonstrate compliance with Special Condition 2.A using Attachment A or an equivalent form that has been approved by the Air Pollution Control Program, including an electronic form.

3. Record Keeping and Reporting Requirement
   A. Base Rock Minerals – Fruitland Quarry shall maintain all records required by this permit for not less than five years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request.
   
   B. Base Rock Minerals – Fruitland Quarry shall report to the Air Pollution Control Program's Compliance/Enforcement Section, by mail at P.O. Box 176, Jefferson City, MO 65102 or by email at AirComplianceReporting@dnr.mo.gov, 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.
Attachment A: PM$_{10}$ Annual Emissions Tracking Sheet  
Base Rock Minerals – Fruitland Quarry (031-0124)  
Project Number: 2018-06-034  
Permit Number: 122010-013B

Site Address: 5454 Highway 61, Jackson, MO 63755  
Site County: Cape Girardeau County (S20, T32N, R13E)

This sheet covers the period from __________ to __________ (Copy as needed)

<table>
<thead>
<tr>
<th>Month</th>
<th>Production (tons)</th>
<th>Emission Factor (lb/ton)</th>
<th>Monthly Emissions$^1$ (lbs)</th>
<th>Monthly Emissions$^2$ (tons)</th>
<th>12-Month Total Emissions$^2$ (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example</td>
<td>65,000</td>
<td>0.0379</td>
<td>2,464</td>
<td>1.23</td>
<td>14.78</td>
</tr>
</tbody>
</table>

1 Multiply the monthly production by the emission factor.  
2 Divide the monthly emissions (lbs) by 2,000.  
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 12 consecutive months is necessary for compliance with Special Condition 2 of this amendment.