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: 062020-018
Project Number: 2020-04-031
Installation ID: 071-0114

Parent Company: Barrett Materials, Inc.

Parent Company Address: 3880 Boeuf Creek Road, New Haven, MO 63088

Installation Name: Barrett Materials, Inc. New Haven Quarry #2

Installation Address: 370 Robller Vineyard Road, New Haven, MO 63068

Location Information: Franklin County, S1 T44N R3W

Application for Authority to Construct was made for:
New rock crushing plant. 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.

Director or Designee
Department of Natural Resources
June 25, 2020
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 Enforcement and Compliance Section of 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 devices shall be operated and maintained as specified in the application, associated plans and specifications.

You must notify the Enforcement and Compliance Section of the Department’s Air Pollution Control Program 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. Also, you must notify the Department’s 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 the permit application and this permit and permit review shall be kept at the installation address and shall be made available to Department’s 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 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 Construction Permit Unit using the contact information below.

Contact Information:
Missouri Department of Natural Resources
Air Pollution Control Program
P.O. Box 176
Jefferson City, MO 65102-0176
(573) 751-4817

The regional office information can be found at the following website: http://dnr.mo.gov/regions/
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 (3)(E). “Conditions required by permitting authority.”

1. Best Management Practices Requirement
   Barrett Materials, Inc. New Haven Quarry #2 shall control fugitive emissions from all of the haul roads and vehicular activity areas at this site by performing BMPs as defined in Attachment AA.

2. Annual Emission Limit
   A. Barrett Materials, Inc. New Haven Quarry #2 shall emit less than 15.0 tons of PM$_{10}$ in any 12-month period from the entire installation which consists of the equipment listed in Table 1 in the Table Section of this permit. Barrett Materials, Inc. New Haven Quarry #2 shall include all actual emissions in the limit including SSM emissions as well as any excess SSM emissions as reported to the Air Pollution Control Program’s Compliance/Enforcement Section in accordance with the requirements of 10 CSR 10-6.050 Start-Up, Shutdown, and Malfunction Condition.

   B. Barrett Materials, Inc. New Haven Quarry #2 shall demonstrate compliance with Special Condition 2.A using Attachment A or another equivalent form that has been approved by the Air Pollution Control Program, including an electronic form.

3. Moisture Content Testing Requirement
   A. Barrett Materials, Inc. New Haven Quarry #2 shall verify that the moisture content of the processed rock 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 has been processed by the plant or from each source of aggregate (e.g. quarry).

   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 Barrett Materials, Inc. New Haven Quarry #2 main office within 30 days of completion of the required test.
SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

F. If the moisture content of either of the two tests is less than the moisture content in Special Condition 3.A, another test may be performed within 15 days of the noncompliant test. If the results of that test is less than the moisture content in Special Condition 3.A, Barrett Materials, Inc. New Haven Quarry #2 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.

G. In lieu of testing, Barrett Materials, Inc. New Haven Quarry #2 may obtain test results that demonstrate compliance with the moisture content in Special Condition 3.A from the supplier of the aggregate.

4. Primary Equipment Requirement
   Barrett Materials, Inc. New Haven Quarry #2 shall process all rock through the primary crusher (EP-1). Bypassing the primary crusher is prohibited.

5. Diesel Engine Operational Restrictions
   Barrett Materials, Inc. New Haven Quarry #2 shall only operate its diesel engine to power equipment during rock crushing production.

6. Notification Requirement
   Barrett Materials, Inc. New Haven Quarry #2 shall notify the Air Pollution Control Program, Compliance / Enforcement Section by mail to P.O. Box 176, Jefferson City, MO 65102 or by email at AirComplianceReporting@dnr.mo.gov, no later than 10 days after converting the diesel engines (EP-10a and EP-10b) to emergency engine usage.

7. Record Keeping Requirement
   Barrett Materials, Inc. New Haven Quarry #2 shall maintain all records required by this permit for not less than five years and make them available to any Missouri Department of Natural Resources’ personnel upon request.

8. Reporting Requirement
   Barrett Materials, Inc. New Haven Quarry #2 shall report to the Air Pollution Control Program, Compliance / Enforcement Section by mail to P.O. Box 176, Jefferson City, MO 65102 or by email at AirComplianceReporting@dnr.mo.gov, no later than 10 days after any exceedances of the limitations imposed by this permit.
Barrett Materials, Inc. purchased the New Haven Quarry #2 from Con-Agg DBA Mid Mo Limestone. The crushing equipment owned by Con-Agg has been dismantled and will be removed from the site prior to start-up of this new plant. Barrett Materials is constructing a rock crushing plant consisting of the equipment listed in Table 1 in the Table section of the permit.

The Cummins Model CID855 diesel engine rated at 535 HP and manufactured in 2000 and the John Deere 250 HP diesel engine, manufactured in 2000 will be used for less than one year, while electric line power is being installed for the crushing equipment. After that, the engines will be only used for emergency backup power. Barrett Materials, Inc. is unsure of the timing for installation of electric line power. As such, two emission summary tables are included to show the potential to emit (PTE) including these two engines based on 8,760 hours of operation annually and the PTE including the two engines based on emergency usage of 500 hours operation annually. Attachment A reflects composite emission factors of each operating scenario for the PM\textsubscript{10} de minimis limit.

The applicant is using one of the methods described in Attachment AA, “Best Management Practices,” to control emissions from haul roads and vehicular activity areas.

This installation is located in Franklin County but outside of Boles Township. Therefore, it is in the area of Franklin County that attains the 2015 ozone standard and meets the 2012 PM\textsubscript{2.5} standard. It is an attainment/unclassifiable 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 250 tons per year and fugitive emissions are not counted toward major source applicability.

No permits have been issued to Barrett Materials, Inc. New Haven Quarry #2 from the Air Pollution Control Program. The previous permits associated with Site ID: 071-0114 were issued to Con-Agg DBA Mid-Missouri Limestone, Inc. and that equipment is no longer operable at that quarry.

**TABLES**

Table 1: New Equipment:

<table>
<thead>
<tr>
<th>Emission Point</th>
<th>Equipment Description</th>
<th>MHDR</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-9</td>
<td>Unload to Feeder</td>
<td>250 tph</td>
</tr>
<tr>
<td>EP-1</td>
<td>Primary Crusher Cedarapids Model 3042 Mfg. 2016</td>
<td>250 tph</td>
</tr>
<tr>
<td>EP-2A</td>
<td>Scalping Screen 6’ x 20’ mfg 1999</td>
<td>250 tph</td>
</tr>
<tr>
<td>EP-2B</td>
<td>Finish Screen Cedarapids 5” x 14’ Mfg. 1970</td>
<td>95 tph</td>
</tr>
<tr>
<td>EP-3A</td>
<td>Primary Crusher Underconveyor</td>
<td>250 tph</td>
</tr>
<tr>
<td>EP-3B</td>
<td>Two 30” CEC conveyors</td>
<td>250 tph</td>
</tr>
<tr>
<td>EP-3C</td>
<td>Scalping Screen Underconveyor</td>
<td>250 tph</td>
</tr>
<tr>
<td>EP-3D</td>
<td>Four 30” Marco Conveyors Mfg. 2012</td>
<td>250 tph</td>
</tr>
<tr>
<td>EP-3E</td>
<td>Secondary Crusher Underconveyor</td>
<td>95 tph</td>
</tr>
<tr>
<td>EP-3F</td>
<td>Finish Screen Underconveyor</td>
<td>95 tph</td>
</tr>
<tr>
<td>EP-4</td>
<td>Secondary Cone Crusher Sandvik Model CH430 Mfg. 2015</td>
<td>95 tph</td>
</tr>
<tr>
<td>EP-5a</td>
<td>Load In Storage Pile</td>
<td>250tph</td>
</tr>
<tr>
<td>EP-5b</td>
<td>Load Out Storage Pile</td>
<td>250 tph</td>
</tr>
<tr>
<td>EP-5c</td>
<td>Vehicular Activity</td>
<td>0.59 VMT/hr</td>
</tr>
<tr>
<td>EP-5d</td>
<td>Wind Erosion</td>
<td>3 acres</td>
</tr>
<tr>
<td>EP-6</td>
<td>Customer Haul Road</td>
<td>15.18 VMT/hr</td>
</tr>
<tr>
<td>EP-7</td>
<td>Drilling</td>
<td>N/D</td>
</tr>
<tr>
<td>EP-8</td>
<td>Pit Haul Road</td>
<td>15.34 VMT/hr</td>
</tr>
<tr>
<td>EP-10a</td>
<td>Cummins Model CID855 diesel engine, manufactured in 2000</td>
<td>535 HP</td>
</tr>
<tr>
<td>EP-10b</td>
<td>John Deere 250 HP diesel engine, manufactured in 2000</td>
<td>250 HP</td>
</tr>
</tbody>
</table>

The table below summarizes the emissions of this project. The potential emissions of the process equipment exclude emissions from haul roads and wind erosion. The existing actual emissions were not available since the last EIQ was in 2016. The potential emissions of the application represent the emissions of all equipment and activities assuming continuous operation (8760 hours per year). The conditioned potential emissions include emissions from sources that will limit their production to ensure compliance with the annual PM_{10} de minimis emission limit.
Table 2: Emissions Summary (tons per year) with engines at 8,760 hours

<table>
<thead>
<tr>
<th>Air Pollutant</th>
<th>De Minimis Level/SMAL</th>
<th>aPotential Emission of Process Equipment</th>
<th>Existing Actual Emissions</th>
<th>bPotential Emissions of the Application</th>
<th>Conditioned Potential Emissions</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM</td>
<td>25.0</td>
<td>11.80</td>
<td>N/A</td>
<td>180.23</td>
<td>43.42</td>
</tr>
<tr>
<td>PM₁₀</td>
<td>15.0</td>
<td>7.96</td>
<td>N/A</td>
<td>62.27</td>
<td>&lt;15.00</td>
</tr>
<tr>
<td>PM₂₅</td>
<td>10.0</td>
<td>6.06</td>
<td>N/A</td>
<td>18.91</td>
<td>4.55</td>
</tr>
<tr>
<td>SOₓ</td>
<td>40.0</td>
<td>0.04</td>
<td>N/A</td>
<td>0.04</td>
<td>0.01</td>
</tr>
<tr>
<td>NOₓ</td>
<td>40.0</td>
<td>87.06</td>
<td>N/A</td>
<td>87.06</td>
<td>20.97</td>
</tr>
<tr>
<td>VOC</td>
<td>40.0</td>
<td>8.10</td>
<td>N/A</td>
<td>8.10</td>
<td>1.95</td>
</tr>
<tr>
<td>CO</td>
<td>100.0</td>
<td>35.71</td>
<td>N/A</td>
<td>35.71</td>
<td>8.60</td>
</tr>
<tr>
<td>Total HAPs</td>
<td>25.0</td>
<td>0.09</td>
<td>N/A</td>
<td>0.09</td>
<td>0.02</td>
</tr>
</tbody>
</table>

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

aExcludes haul road and storage pile emissions.
bIncludes haul road and storage pile emissions.

Table 3: Emissions Summary (tons per year) with engines at 500 hours

<table>
<thead>
<tr>
<th>Air Pollutant</th>
<th>De Minimis Level/SMAL</th>
<th>aPotential Emission of Process Equipment</th>
<th>Existing Actual Emissions</th>
<th>bPotential Emissions of the Application</th>
<th>Conditioned Potential Emissions</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM</td>
<td>25.0</td>
<td>6.21</td>
<td>N/A</td>
<td>174.64</td>
<td>45.61</td>
</tr>
<tr>
<td>PM₁₀</td>
<td>15.0</td>
<td>2.50</td>
<td>N/A</td>
<td>56.81</td>
<td>15.00</td>
</tr>
<tr>
<td>PM₂₅</td>
<td>10.0</td>
<td>0.62</td>
<td>N/A</td>
<td>13.47</td>
<td>3.74</td>
</tr>
<tr>
<td>SOₓ</td>
<td>40.0</td>
<td>0.00</td>
<td>N/A</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>NOₓ</td>
<td>40.0</td>
<td>4.97</td>
<td>N/A</td>
<td>4.97</td>
<td>4.97</td>
</tr>
<tr>
<td>VOC</td>
<td>40.0</td>
<td>0.46</td>
<td>N/A</td>
<td>0.46</td>
<td>0.46</td>
</tr>
<tr>
<td>CO</td>
<td>100.0</td>
<td>2.04</td>
<td>N/A</td>
<td>2.04</td>
<td>2.04</td>
</tr>
<tr>
<td>Total HAPs</td>
<td>25.0</td>
<td>0.01</td>
<td>N/A</td>
<td>0.01</td>
<td>0.01</td>
</tr>
</tbody>
</table>

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

aExcludes haul road and storage pile emissions.
bIncludes haul road and storage pile emissions.

EMISSIONS CALCULATIONS

Emissions for the project were calculated as described below and using emission factors found in the United States EPA document AP-42 Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources, Fifth Edition (AP-42).

Emissions from the rock-crushing equipment:

- The controlled emission factors were used because the inherent moisture content of the crushed rock is greater than 1.5 % by weight.

Emissions from the diesel engines/generators:

- Calculated using emission factors from AP-42 Section 3.3 Gasoline and Diesel Industrial Engines,” October 1996.
Emissions from haul roads and vehicular activity areas:
  - Calculated using the predictive equation from AP-42 Section 13.2.2 “Unpaved Roads,” November 2006.
  - A 90% control efficiency for PM and PM\textsubscript{10} and a 74% control efficiency for PM\textsubscript{2.5} were applied to the emission calculations for the use of BMPs.

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 “Aggregate Handling and Storage Piles,” November 2006.
  - The moisture content of the aggregate is 1.5% 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.”

PERMIT RULE APPLICABILITY

This review was conducted in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, Construction Permits Required. Potential emissions of PM\textsubscript{10} are conditioned to de minimis levels. Potential emissions of PM are above de minimis levels, but below major levels.

APPLICABLE REQUIREMENTS

Barrett Materials, Inc. New Haven Quarry #2 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.

GENERAL REQUIREMENTS
  - Submission of Emission Data, Emission Fees and Process Information, 10 CSR 10-6.110.

  - No Operating Permit is required for this installation.

  - 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 10-6.165
SPECIFIC REQUIREMENTS

• 40 CFR Part 60 Subpart OOO, "Standards of Performance for Nonmetallic Mineral Processing Plants" applies to the equipment.

• 40 CFR Part 60 Subpart IIII—Standards of Performance for Stationary Compression Ignition Internal Combustion Engines


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

• Control of Sulfur Dioxide Emissions, 10 CSR 10-6.261

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.

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

• The Application for Authority to Construct form, dated April 13, 2020, received April 16, 2020, designating Barrett Materials, Inc. as the owner and operator of the installation.
**Attachment A: PM$_{10}$ Annual Emissions Tracking Sheet**

**Barrett Materials, Inc. New Haven Quarry #2 071-0114**

**Project Number:** 2020-04-031  
**Permit Number:** 062020-018

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**Site Name:** New Haven Quarry #2  
**Site Address:** 370 Robller Vineyard Road, New Haven, MO 63068  
**Site County:** Franklin, S1 T44N R3W  
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>SSM Emissions$^2$ (tons)</th>
<th>Monthly Emissions$^3$ (tons)</th>
<th>12-Month Total Emissions$^4$ (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example with engines</td>
<td>20,000</td>
<td>0.0569</td>
<td>1,138</td>
<td>0.0</td>
<td>0.6</td>
<td>0.6+ 11 previous months at this site</td>
</tr>
<tr>
<td>Example without engines</td>
<td>20,000</td>
<td>0.0516</td>
<td>1,548</td>
<td></td>
<td>0.8</td>
<td>0.8+ 11 previous months at this site</td>
</tr>
</tbody>
</table>

$^1$ Multiply the monthly production by the emission factor that applies with the operation/non operation of engines. With engines, use 0.0569 lb/ton. Without engines, use 0.0516 lb/ton.

$^2$ Write the startup, shutdown and malfunction emissions (SSM) in tons including any excess SSM emissions as reported to the Air Pollution Control Program’s Enforcement/Compliance Section according to the provisions of 10 CSR 10-6.050 for the month.

$^3$ Divide the monthly emissions (lbs) by 2000 and add the SSM Emissions.

$^4$ 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.
Haul roads and vehicular activity areas shall be maintained in accordance with at least one of the following options when the plant is operating.

1. **Pavement**
   A. The operator shall pave the area with materials such as asphalt, concrete or other materials approved by the Air Pollution Control Program. The pavement will be applied in accordance with industry standards to achieve control of fugitive emissions while the plant is operating.
   B. Maintenance and 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 shall periodically wash or otherwise clean all of the paved portions of the haul roads as necessary to achieve control of fugitive emissions from these areas while the plant is operating.

2. **Application of Chemical Dust Suppressants**
   A. The operator shall apply a chemical dust suppressant (such as magnesium chloride, calcium chloride, lignosulfonates, etc.) to unpaved areas.
   B. The quantities of the chemical dust suppressant shall be applied and maintained in accordance with the manufacturer’s recommendation (if available) and in sufficient quantities to achieve control of fugitive emissions from these areas while the plant is operating.
   C. The operator 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 shall keep these records with the plant for not less than five (5) years and make these records available to Department of Natural Resources’ personnel upon request.

3. **Application of Water-Documented Daily**
   A. The operator shall apply water to unpaved areas. Water shall be applied at a rate of 100 gallons per day per 1,000 square feet of unpaved or untreated surface area while the plant is operating.
   B. Precipitation may be substituted for watering if the precipitation is greater than one quarter of one inch and is sufficient to control fugitive emissions.
   C. 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.
   D. The operator shall record the date, volume of water application and total surface area of active haul roads or the amount of precipitation that day. The operators shall also record the rational for not watering (e.g. freezing conditions or not operating).
   E. The operator shall keep these records with the plant for not less than five (5) years, and the operator shall make these records available to Department of Natural Resources’ personnel upon request.
APPENDIX A

Abbreviations and Acronyms

% ............... percent
°F ............. degrees Fahrenheit
acfm .......... actual cubic feet per minute
BACT ......... Best Available Control Technology
BMPs ......... Best Management Practices
Btu .......... British thermal unit
CAM .......... Compliance Assurance Monitoring
CAS .......... Chemical Abstracts Service
CEMS ........ Continuous Emission Monitor System
CFR .......... Code of Federal Regulations
CO .......... carbon monoxide
CO₂ .......... carbon dioxide
CO₂e ......... carbon dioxide equivalent
COMS ....... Continuous Opacity Monitoring System
CSR .......... Code of State Regulations
dscf ........ dry standard cubic feet
EIQ .......... Emission Inventory Questionnaire
EP .......... Emission Point
EPA .......... Environmental Protection Agency
EU .......... Emission Unit
fps .......... feet per second
ft ............. feet
GACT ...... Generally Available Control Technology
GHG ........ Greenhouse Gas
gpm .......... gallons per minute
gr ............ grains
GWP .......... Global Warming Potential
HAP .......... Hazardous Air Pollutant
hr .......... hour
hp .......... horsepower
lb .......... pound
lbs/hr ...... pounds per hour
MACT .... Maximum Achievable Control Technology
μg/m³ ....... micrograms per cubic meter
m/s .......... meters per second
Mgal ...... 1,000 gallons
MW .......... megawatt
MHDR .... maximum hourly design rate

MMBtu .... Million British thermal units
MMCF ...... million cubic feet
MSDS ...... Material Safety Data Sheet
NAAQS .... National Ambient Air Quality Standards
NESHAPs . National Emissions Standards for Hazardous Air Pollutants
NOₓ ........ nitrogen oxides
NSPS ........ New Source Performance Standards
NSR .......... New Source Review
PM .......... particulate matter
PM₂.₅ ...... particulate matter less than 2.5 microns in aerodynamic diameter
PM₁₀ ...... particulate matter less than 10 microns in aerodynamic diameter
ppm .......... parts per million
PSD .......... Prevention of Significant Deterioration
PTE .......... potential to emit
RACT ...... Reasonable Available Control Technology
RAL .......... Risk Assessment Level
SCC .......... Source Classification Code
scfm ........ standard cubic feet per minute
SDS .......... Safety Data Sheet
SIC .......... Standard Industrial Classification
SIP .......... State Implementation Plan
SMAL ...... Screening Model Action Levels
SOₓ ........ sulfur oxides
SO₂ .......... sulfur dioxide
SSM .......... startup, shutdown, & malfunction
tph .......... tons per hour
tpy .......... tons per year
VMT .......... vehicle miles traveled
VOC .......... Volatile Organic Compound
June 25, 2020

James Barrett
President
Barrett Materials, Inc. New Haven Quarry #2
3880 Boeuf Creek Road
New Haven, MO 63088

RE: New Source Review Permit - Project Number: 2020-04-031

Dear James Barrett:

Enclosed with this letter is your permit to construct. Please study it carefully and refer to Appendix A for a list of common abbreviations and acronyms used in the permit. Also, note the special conditions on the accompanying pages. The document entitled, "Review of Application for Authority to Construct," is part of the permit and should be kept with this permit in your files. Operation in accordance with these conditions and your new source review permit application are necessary for continued compliance. In addition, please note that Barrett Materials, Inc. New Haven Quarry #2 cannot operate with any other plants that have ambient impact limits based on the Air Pollution Control Program’s nomographs. Please refer to the permits of any plant that you are operating with to see if their respective permits contain an ambient impact limit. 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.

This permit may include requirements with which you may not be familiar. If you would like the department to meet with you to discuss how to understand and satisfy the requirements contained in this permit, an appointment referred to as a Compliance Assistance Visit (CAV) can be set up with you. To request a CAV, please contact your local regional office or fill out an online request. The regional office contact information can be found at the following website: http://dnr.mo.gov/regions/. The online CAV request can be found at http://dnr.mo.gov/cav/compliance.htm.

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.

If you have any questions regarding this permit, please do not hesitate to contact Kathy Kolb, 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

Susan Heckenkamp
New Source Review Unit Chief

SH:kka

Enclosures

c: St. Louis Regional Office
   PAMS File: 2020-04-31

Permit Number: 062020-018