

**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: 092017-008

Project Number: 2017-06-049  
Installation ID: PORT-0756

Parent Company: BMC Stone, LLC

Parent Company Address: P.O Box 440459, St. Louis, MO 63144

Installation Name: BMC Stone - High Hill Quarry

Installation Address: 1164 Tree Farm Road, High Hill, MO 63350

Location Information: Warren County, S15/16 T47N R04W

Application for Authority to Construct was made for:  
Construction of a portable rock crushing plant. This review was conducted in accordance with Section (6), 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.

Hans Robinson  
Prepared by  
Hans Robinson  
New Source Review Unit

Kyra L. Nowu  
Director or Designee  
Department of Natural Resources

SEP 25 2017

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/>

**GENERAL SPECIAL CONDITIONS:**

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

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

1. **Equipment Identification Requirement**  
BMC Stone, LLC shall maintain easily read permanent markings on each component of the plant. These markings shall be the equipment's serial number or a company assigned identification number that uniquely identifies the individual component. These identification numbers shall be submitted to the Air Pollution Control Program no later than 15 days after start-up of the portable rock crushing plant.
2. **Relocation of Portable Rock Crushing Plant**
  - A. BMC Stone, LLC shall not be operated at any location longer than 24 consecutive months except if the Site Specific Special Conditions of this portable plant, PORT-0756, contain a nonroad engine requirement limiting the portable plant at the site specific location to 12 consecutive months.
  - B. A complete "Portable Source Relocation Request" application shall be submitted to the Air Pollution Control Program prior to any relocation of this portable rock crushing plant.
    - 1) If the portable rock crushing plant is moving to a site previously permitted, and if the circumstances at the site have not changed, then the application shall be received by the Air Pollution Control Program at least seven days prior to the relocation.
    - 2) If the portable rock crushing plant is moving to a new site, or if circumstances at the site have changed (e.g. the site was only permitted for solitary operation and now another plant is located at the site), then the application shall be received by the Air Pollution Control Program at least 21 days prior to the relocation. The application shall include written notification of any concurrently operating plants.
3. **Record Keeping Requirement**  
BMC Stone, LLC shall maintain all records required by this permit for not less than five years and shall make them available to any Missouri Department of Natural Resources' personnel upon request.
4. **Reporting Requirement**  
BMC Stone, LLC shall report to the Air Pollution Control Program Compliance/Enforcement Section either by mail – P.O. Box 176, Jefferson City, MO 65102 – or by email – [AirComplianceReporting@dnr.mo.gov](mailto:AirComplianceReporting@dnr.mo.gov) – no later than 10 days after any exceedances of the limitations imposed by this permit.

**SITE SPECIFIC SPECIAL CONDITIONS:**

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

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

PORT ID Number: PORT-0756

Site ID Number: 219-0032

Site Name: BMC Stone, LLC - High Hill Quarry

Site Address: 1164 Tree Farm Road, High Hill, MO 63350

Site County: Warren County S15/16 T47N R04W

PORT ID Number: PORT-0756

Site ID Number: 183-0015

Site Name: BMC Stone, LLC - Defiance Quarry

Site Address: HWY 95 and Hwy DD, St. Charles, MO 63303

Site County: St. Charles County, S8,T22N, R21W

1. **Equipment Identification Requirement**  
BMC Stone, LLC shall maintain easily read permanent markings on each component of the plant. These markings shall be the equipment's serial number or a company assigned identification number that uniquely identifies the individual component.
2. **Best Management Practices Requirement**  
BMC Stone, LLC 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.
3. **Annual Emission Limit**
  - A. BMC Stone, LLC shall emit less than 15.0 tons of PM<sub>10</sub> in any 12-month period from the entire installation. This includes all emission points listed in Table 1 of the Project Description excluding the nonroad engine (EP-11).
  - B. BMC Stone, LLC shall demonstrate compliance with Special Condition 3.A using Attachment A and B or another equivalent form that has been approved by the Air Pollution Control Program, including an electronic form.
4. **Moisture Content Testing Requirement**
  - A. BMC Stone, LLC 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.

**SITE SPECIFIC SPECIAL CONDITIONS:**

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

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- 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 BMC Stone, LLC main office within 30 days of completion of the required test.
- F. If the moisture content of either of the two tests is less than the moisture content in Special Condition 4.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 4.A, BMC Stone, LLC 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. The wet spray devices shall be installed and operational within 40 days of the second noncompliant test.
5. **Nonroad Engine Requirement**  
BMC Stone, LLC's engine shall not remain at one location within this site longer than 12 consecutive months in order for the engine (Caterpillar 2,206 BHP diesel engine) to meet the definition of a nonroad engine as stated in 40 CFR 89.2. These engines shall be moved with its associated equipment at least once every 12 consecutive months at this site.
6. **Primary Equipment Requirement**  
BMC Stone, LLC shall process all rock through the primary screen (EP-04). Bypassing the primary screen is prohibited.
7. **Record Keeping Requirement**  
BMC Stone, LLC 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**  
BMC Stone, LLC shall report to the Air Pollution Control Program Compliance/Enforcement Section either by mail – P.O. Box 176, Jefferson City, MO 65102 – or by email – [AirComplianceReporting@dnr.mo.gov](mailto:AirComplianceReporting@dnr.mo.gov) – no later than 10 days after any exceedances of the limitations imposed by this permit.

**REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT AND OPERATE  
SECTION (6) REVIEW**

**Project Number: 2017-06-049**

**Installation ID Number: PORT-0756**

**Permit Number: 092017-008**

**BMC Stone, LLC:  
1164 Tree Farm Road  
High Hill, MO 63350**

**Complete: 6/16/2017**

**Parent Company:  
BMC Stone, LLC  
P.O Box 440459  
St. Louis, MO 63144**

**Warren County, S15/16 T47N R04W**

**PROJECT DESCRIPTION**

BMC Stone, LLC is installing a new limestone crushing plant (PORT-0756) with a capacity of 300 tons per hour at their quarry in High Hill, MO. The quarry sits about a mile south of 1164 Tree Farm Road and there are currently no other emissions sources located at the site. Since this rock crushing plant is completely portable, BMC Stone is free to move the plant from High Hill Quarry (Site ID 219-0032) to Defiance Quarry (Site ID 183-0015) by applying for a 7-day relocation permit with the Department of Natural Resources. Operation outside of either of those two quarries will warrant a 21-day relocation permit with the department.

The rock crushing plant is bottlenecked to a capacity of 300 tons per hour or rock by the manufacturer's specifications for the 3-Deck screen for separating limestone pieces of greater than or equal to 3/16". Specifically, the 3-Deck screen will have a 2" top deck, a 1" middle deck, and a 3/8" bottom deck. Limestone rock is generated from blasting and loaded into a jaw crusher by a front-end loader. The loader travels approximately 160 from the raw materials to the jaw crusher. Crushed rock travels up a conveyor and is loaded into a screen where it is sorted by size and loaded onto one of the three stacking conveyors where the finished product is stockpiled. A fourth conveyor runs from the screen to move product to a cone crusher, where oversized material can be crushed a second time and loaded back into the screen. Loader operating weight is 37.7 tons unloaded and around 45.60 tons loaded. Finished product is also loaded into haul/dump trucks by the front-end loaders. Limestone will require regular testing to verify that moisture content is greater than or equal to 1.5% in order to control particulate emissions. The finished product travels 50' from the storage piles and is loaded into haul trucks. Haul trucks will weigh approximately 15 tons unloaded and 35 tons loaded. The haul road for the quarry is 1.1 miles (5,808 feet) of unpaved crushed aggregate.

The facility will be spraying the haul road to control fugitive dust.

A 2,206 BHP Caterpillar diesel engine – rated at 100% load to produce 1,500.0 ekW – will supply power for the portable crushing plant. This diesel engine and the engine(s) used to power the stacking conveyors meet the definition of non-road engine as defined in 40 CFR 89.2 (2)(iii). Therefore, the emissions of the engines were not included. Although a portable plant is allowed to operate at a site for 24 consecutive months, the diesel engine is only allowed to operate at this site for 12 consecutive months in order for the diesel engine to be classified as a non-road engine.

Diesel fuel for the engine will be held within a 1000 gallon horizontal tank onsite. An additional 963 gallon tank (62.5' diameter by 72.5' long) will hold diesel fuel for various vehicles and equipment on site (i.e. front loader, haul trucks). The tanks will be fixed volume without vents and therefore working and breathing losses were not evaluated. Some diesel VOC may escape during fuel tank loading.

While the installation will potentially emit enough particulate to warrant a limit on PM<sub>10</sub>, the emission limits placed by 10 CSR 10-6.400 *Restriction of Emission of Particulate Matter From Industrial Processes* will not be exceeded by the facility. Equation (1) below sets the lbs/hour limit on particulate emissions from the installation. No single emission point at the installation currently exceeds this limit.

$$E \left( \frac{lb}{hour} \right) = 55.0 * \frac{tons}{hour}^{0.11} - 40 = 55.0 * 300^{0.11} - 40 = 63 \frac{lbs}{hour} \text{ limit} \quad (\text{eq 1})$$

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 Warren County, an attainment area for all pollutants. This installation is not on the List of Named Installations [10 CSR 10-6.020(3)(B), Table 2]. The following Table lists all equipment and emission units at the facility:

Table 1: Installation Emission Point List

Emission Point/Unit	Equipment Point/Unit Description
EP-01	Grizzly Feeder
EP-02	Jaw Crusher
EP-03	Conveyor #1 (Jaw Crusher to 3-Deck Screen)
EP-04	3-Deck Screen ( ≥ 3/16")
EP-05	Conveyor #2 (3-Deck Screen to Cone Crusher)
EP-06	Cone Crusher
EP-07	Conveyor #3 (Cone Crusher recycle to Conveyor #1)
EP-08	Radial Stacker #1
EP-09	Stationary Stacker #1
EP-10	Stationary Stacker #2

EP-11	CAT 3512C Generator
EP-12	Diesel Fuel Tanks (engine and vehicles fuel tanks)
EP-13	Stacker Storage Piles
EP-14	Storage Pile-Load out, Front Loader Vehicular Activity, and Wind Erosion
EP-15	Raw material to Jaw crusher front loader raw material loading
EP-16	Haul Road (fines)

No permits have been issued to BMC Stone, LLC PORT-0756 from the Air Pollution Control Program. Previously a separate company operated a portable rock crushing plant at the facility (their last relocation permit expired in 2011). BMC Stone, LLC now leases the property and no other companies or processes are currently operating at this location.

### TABLES

The table below summarizes the emissions of this project. The potential emissions of the process equipment, which excluded emissions from haul roads and wind erosion, are not site specific and should not vary from site to site. The limestone crushing plant is a new installation at High Hill, MO with no existing emissions. BMC Stone operates an existing stationary rock crusher at the Defiance, MO quarry. Existing emissions for the Defiance Quarry are taken from the site's 2012 EIQ. The potential emissions of the application represent the emissions of all equipment and activities – including haul roads and wind erosion – 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 emission limit. Conditioned potential emissions account for a voluntary annual PM<sub>10</sub> emission limit of 15.0 tons per year in order to avoid refined modeling according to 10 CSR 10-6.060 (6)(B)3.

Table 2: Emissions Summary (tons per year) - High Hill Quarry

Pollutant	Regulatory <i>De Minimis</i> Levels	Potential Emissions of Process Equipment <sup>1,2</sup>	Existing Actual Emissions	Potential Emissions of the Application <sup>2</sup>	New Installation Conditioned Potential
PM	25.0	7.15	N/A	42.24	N/A
PM <sub>10</sub>	15.0	2.75	N/A	< 15.00	N/A
PM <sub>2.5</sub>	10.0	0.43	N/A	3.15	N/A
SO <sub>2</sub>	40.0	N/A	N/A	N/A	N/A
NO <sub>x</sub>	40.0	N/A	N/A	N/A	N/A
VOC	40.0	N/A	N/A	N/A	N/A
CO	100.0	N/A	N/A	N/A	N/A
HAPs	10.0/25.0	N/A	N/A	N/A	N/A

N/A = Not Applicable

<sup>1</sup>Potential Emissions of Process Equipment does not include site specific haul road and wind erosion emissions.

<sup>2</sup>Potential Emissions of the Application and Potential Emissions of Process Equipment do not include emissions from the 2,206 BHP horsepower Caterpillar engine because it is considered a nonroad engine

**Table 3: Emissions Summary (tons per year) - Defiance Quarry**

Pollutant	Regulatory <i>De Minimis</i> Levels	Potential Emissions of Process Equipment <sup>1,2</sup>	Existing Actual Emissions (2012 EIQ)	Potential Emissions of the Application <sup>2</sup>	New Installation Conditioned Potential
PM	25.0	7.15	N/A	39.54	N/A
PM <sub>10</sub>	15.0	2.75	12.99	< 15.00	N/A
PM <sub>2.5</sub>	10.0	0.43	1.62	2.91	N/A
SO <sub>2</sub>	40.0	N/A	N/A	N/A	N/A
NOx	40.0	N/A	N/A	N/A	N/A
VOC	40.0	N/A	N/A	N/A	N/A
CO	100.0	N/A	N/A	N/A	N/A
HAPs	10.0/25.0	N/A	N/A	N/A	N/A

N/A = Not Applicable

<sup>1</sup>Potential Emissions of Process Equipment does not include site specific haul road and wind erosion emissions.

<sup>2</sup>Potential Emissions of the Application and Potential Emissions of Process Equipment do not include emissions from the 2,206 BHP horsepower Caterpillar engine because it is considered a nonroad engine

### 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 and aggregate handling equipment:

- Calculated using emission factors from AP-42 Section 11.19.2 "Crushed Stone Processing and Pulverized Mineral Processing," August 2004.
- The controlled emission factors were used because the inherent moisture content of the crushed rock is greater than 1.5 % by weight.

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<sub>10</sub> and a 74% control efficiency for PM<sub>2.5</sub> 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.

- The moisture content of the aggregate is at least 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 (6) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. Potential emissions of PM<sub>10</sub> are conditioned below de minimis levels. Potential emissions of PM are above de minimis but below major source levels. There are no modeling requirements for PM.

### APPLICABLE REQUIREMENTS

BMC Stone, LLC 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.
- *Operating Permits*, 10 CSR 10-6.065, the operating permit is required as NSPS OOO applies. Typically, submittal of a Basic operating permit application is required within 30 days after a construction permit is issued. However, there is a proposed rulemaking to remove the requirement to obtain a Basic operating permit for de minimis installations if the only criteria triggering the operating permit is NSPS applicability. Contact the Air Pollution Control Program's Operating Permit Unit for an update prior to submitting an application.
- *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 60 Subpart OOO, "Standards of Performance for Nonmetallic Mineral Processing Plants" applies to the equipment.

### STAFF RECOMMENDATION

On the basis of this review conducted in accordance with Section (6), 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 6/12/2017, received 6/16/2017, designating BMC Stone, LLC as the owner and operator of the installation.

### Other Relied Upon Documents

- Emails among Hans Robinson and Ryan Ruckel. June 2016 to July 2017.





## **Attachment AA: Best Management Practices**

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.

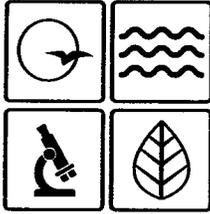
3. **Application of Water-Documented Daily**

- 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 rationale 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

<b>%</b> .....percent	<b>MMBtu</b> ....Million British thermal units
<b>°F</b> .....degrees Fahrenheit	<b>MMCF</b> .....million cubic feet
<b>acfm</b> .....actual cubic feet per minute	<b>MSDS</b> .....Material Safety Data Sheet
<b>BACT</b> .....Best Available Control Technology	<b>NAAQS</b> ....National Ambient Air Quality Standards
<b>BMPs</b> .....Best Management Practices	<b>NESHAPs</b> ..National Emissions Standards for Hazardous Air Pollutants
<b>Btu</b> .....British thermal unit	<b>NO<sub>x</sub></b> .....nitrogen oxides
<b>CAM</b> .....Compliance Assurance Monitoring	<b>NSPS</b> .....New Source Performance Standards
<b>CAS</b> .....Chemical Abstracts Service	<b>NSR</b> .....New Source Review
<b>CEMS</b> .....Continuous Emission Monitor System	<b>PM</b> .....particulate matter
<b>CFR</b> .....Code of Federal Regulations	<b>PM<sub>2.5</sub></b> .....particulate matter less than 2.5 microns in aerodynamic diameter
<b>CO</b> .....carbon monoxide	<b>PM<sub>10</sub></b> .....particulate matter less than 10 microns in aerodynamic diameter
<b>CO<sub>2</sub></b> .....carbon dioxide	<b>ppm</b> .....parts per million
<b>CO<sub>2e</sub></b> .....carbon dioxide equivalent	<b>PSD</b> Prevention of Significant Deterioration
<b>COMS</b> .....Continuous Opacity Monitoring System	<b>PTE</b> .....potential to emit
<b>CSR</b> .....Code of State Regulations	<b>RACT</b> .....Reasonable Available Control Technology
<b>dscf</b> .....dry standard cubic feet	<b>RAL</b> .....Risk Assessment Level
<b>EIQ</b> .....Emission Inventory Questionnaire	<b>SCC</b> .....Source Classification Code
<b>EP</b> .....Emission Point	<b>scfm</b> .....standard cubic feet per minute
<b>EPA</b> .....Environmental Protection Agency	<b>SDS</b> .....Safety Data Sheet
<b>EU</b> .....Emission Unit	<b>SIC</b> .....Standard Industrial Classification
<b>fps</b> .....feet per second	<b>SIP</b> .....State Implementation Plan
<b>ft</b> .....feet	<b>SMAL</b> .....Screening Model Action Levels
<b>GACT</b> .....Generally Available Control Technology	<b>SO<sub>x</sub></b> .....sulfur oxides
<b>GHG</b> .....Greenhouse Gas	<b>SO<sub>2</sub></b> .....sulfur dioxide
<b>gpm</b> .....gallons per minute	<b>SSM</b> .....startup, shutdown, malfunction
<b>gr</b> .....grains	<b>tph</b> .....tons per hour
<b>GWP</b> .....Global Warming Potential	<b>tpy</b> .....tons per year
<b>HAP</b> .....Hazardous Air Pollutant	<b>VMT</b> .....vehicle miles traveled
<b>hr</b> .....hour	<b>VOC</b> .....Volatile Organic Compound
<b>hp</b> .....horsepower	
<b>lb</b> .....pound	
<b>lbs/hr</b> .....pounds per hour	
<b>MACT</b> .....Maximum Achievable Control Technology	
<b>µg/m<sup>3</sup></b> .....micrograms per cubic meter	
<b>m/s</b> .....meters per second	
<b>Mgal</b> .....1,000 gallons	
<b>MW</b> .....megawatt	
<b>MHDR</b> .....maximum hourly design rate	



Missouri Department of dnr.mo.gov

# NATURAL RESOURCES

Eric R. Greitens, Governor

Carol S. Comer, Director

SEP 25 2017

Mr. Ryan Ruckel  
ESH Manager  
BMC Stone, LLC  
P.O Box 440459  
St. Louis, MO 63144

RE: Project Number: 2017-06-049; Installation Number: PORT-0756  
New Source Review Permit - Project Number: 2017-06-049

Dear Mr. Ruckel:

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 is necessary for continued compliance. 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](http://www.oa.mo.gov/ahc).



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Mr. Ryan Ruckel  
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If you have any questions regarding this permit, please do not hesitate to contact Hans Robinson 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:hrj

Enclosures

c: St. Louis Regional Office  
PAMS File: 2017-06-049

Permit Number: 092017-008