

**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:

07 2017 - 004

Project Number: 2017-05-061

Installation ID: PORT-0752

Parent Company: Fischer Quarry & Hauling, LLC

Parent Company Address: 25501 State Route Z, St. Mary, MO 63673

Installation Name: Fischer Quarry & Hauling, LLC PORT-0752

Installation Address: 8181 State Route C, Ste. Genevieve, MO 63670

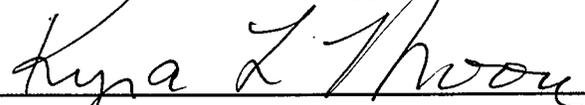
Location Information: Ste. Genevieve County, 1/4 SE, 1/4 NW T37N R07E

Application for Authority to Construct was made for:
New 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.


Prepared by
Kathy Kolb
New Source Review Unit


Director or Designee
Department of Natural Resources

JUL 06 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**
Fischer Quarry & Hauling, LLC PORT-0752 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. **Relocation of Portable Rock Crushing Plant**
 - A. Fischer Quarry & Hauling, LLC PORT-0752 shall not be operated at any location longer than 24 consecutive months except if the Site Specific Special Conditions of this portable plant, PORT-0752, 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 must 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 must 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 must be received by the Air Pollution Control Program at least 21 days prior to the relocation. The application must include written notification of any concurrently operating plants.
3. **Record Keeping Requirement**
Fischer Quarry & Hauling, LLC PORT-0752 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**
Fischer Quarry & Hauling, LLC PORT-0752 shall report to the Air Pollution Control Program Enforcement Section P.O. Box 176, Jefferson City, MO 65102, 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-0750

Site ID: 186-0058

Site Name: West County Quarry

Site Address: 8181 State Route, C, Ste. Genevieve, MO 636707

Site County: Ste. Genevieve, ¼ SE, ¼ NW, T37N, R07E

PORT ID Number: PORT-0752

Site ID Number: 157-0040

Site Name: Perry County Road and Bridge

Site Address: 321 N Main, Perryville, MO 63775

Site County: Perry County, S29, T35N, R11E

PORT ID Number: PORT-0752

Site ID Number: 031-0105

Site Name: Burfordville Quarry

Site Address: 1211 State Hwy OO, Whitewater, MO 63785

Site County: Cape Girardeau County, S23, T31N, R11E

PORT ID Number: PORT-0752

Site ID Number: 031-0105

Site Name: Arab Aggregates Quarry

Site Address: HC01 Box 541, Zalma, MO 63787

Site County: Bollinger County, S17, T28N, R09E

1. **Best Management Practices Requirement**
Fischer Quarry & Hauling, LLC PORT-0752 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. Fischer Quarry & Hauling, LLC PORT-0752 shall emit less than 15.0 tons of PM₁₀ in any 12-month period from the entire installation.
 - B. Fischer Quarry & Hauling, LLC PORT-0752 shall demonstrate compliance at the respective sites with Special Condition 2.A using Attachment A, B, C, D or another equivalent form that has been approved by the Air Pollution Control Program, including an electronic form.

SITE SPECIFIC SPECIAL CONDITIONS:

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

3. **Moisture Content Testing Requirement**
 - A. Fischer Quarry & Hauling, LLC PORT-0752 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 Fischer Quarry & Hauling, LLC PORT-0752 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 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, Fischer Quarry & Hauling, LLC PORT-0752 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.
4. **Primary Equipment Requirement**

Fischer Quarry & Hauling, LLC PORT-0752 shall process all rock through the primary crusher (EU-3). Bypassing the primary crusher is prohibited.
5. **Nonroad Engine Requirement**

Fischer Quarry & Hauling, LLC PORT-0752's engine shall not remain at one location within this site longer than 12 consecutive months in order for the engine (John Deere 300 HP 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.

SITE SPECIFIC SPECIAL CONDITIONS:

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

6. **Record Keeping Requirement**
Fischer Quarry & Hauling, LLC PORT-0752 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.

7. **Reporting Requirement**
Fischer Quarry & Hauling, LLC PORT-0752 shall report to the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, 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: 2017-05-061
Installation ID Number: PORT-0752
Permit Number:

07 2017 - 004

Fischer Quarry & Hauling, LLC PORT-0752
8181 State Route C
Ste. Genevieve, MO 63670

Complete: May 24, 2017

Parent Company:
Fischer Quarry & Hauling, LLC
25501 State Route Z
St. Mary, MO 63673

Ste. Genevieve County, 1/4 SE, 1/4 NW T37N R07E

PROJECT DESCRIPTION

Fischer Quarry & Hauling, LLC is leasing a 2011 Inertia 5066 Hawk crusher, S/N 11061065. It has a MHDR of 700 tph but will be bottlenecked by the MHDR (500 tph) of the Powerscreen Warrior 1800. It is a self-contained unit a hopper with a vibrating grizzly, a Inertia 5066 HS impactor, a John Deere 400 HP Tier III 125 KW generator, and a 42" x38' discharge conveyor. The rest of the portable plant will be a track mounted Powerscreen Warrior 1800 consisting of a screen, associated conveyors and stackers. The PORT-0752 will consist of the following equipment in Table 1.

Table 1: PORT-0752 Equipment

Emission No.	Equipment Description	MHDR
EP-1	Load-in	700/500
EP-2	Grizzly	700/500
EP-3	Impactor Crusher (Inertia 5066 Hawk. S/N 11060165)	700/500
EP-4	Discharge conveyor	700/500
EP-5	Stacking conveyor/Powerscreen M70	700/500
EP-6	Feeding conveyor	700/500
EP-7	Screen/Powerscreen Warrior 1800	500
EP-8, 9, & 10	Discharge Conveyors (3)	500
EP-11, 12, 13 & 14	Stacking conveyors (4)/Powerscreen M65, Swift P3680, MGL M85 and McCloskey 36 x80	500

A John Deere 400 HP diesel engine 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. The engine used to provide power to the track mounted Powerscreen Warrior 1800 serves a dual purpose by both propelling itself and provide power to the screen, therefore it meets the definition of a nonroad engine as stated in 40 CFR 89.2 (1)(i).

It will initially be located in Bollinger County at West County Quarry (Site ID: 186-0058). It is also being permitted to operate at the following sites:

- Perry County Road and Bridge Quarry (Site ID 157-0040).
- Arab Aggregates Quarry (Site ID 031-0105).
- Burfordville Quarry (Site ID: 031-0105)
- St. Mary's Quarry (Site ID: 186-0043) under permit #082015-005, as an alternate primary crusher for their generic stationary plant.

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 Ste. Genevieve County, an attainment area for all 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 Fischer Quarry & Hauling, LLC for PORT-0752 from the Air Pollution Control Program.

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 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 emission limit. Conditioned potential emissions account for the voluntary PM₁₀ annual emissions limit to avoid dispersion modeling requirements.

Table 2: Emissions Summary (tons per year) Perry County Road & Bridge Quarry (Perryville)

Air Pollutant	De Minimis Level/SMAL	Potential Emissions of Process Equipment	^a Potential Emissions of the Application	Conditioned Potential Emissions
PM	25.0	8.98	61.79	36.12
PM ₁₀	15.0	3.31	25.66	<15.0
PM _{2.5}	10.0	0.47	4.32	2.53
SO _x	40.0	N/A	N/A	N/A
NO _x	40.0	N/A	N/A	N/A
VOC	40.0	N/A	N/A	N/A
CO	100.0	N/A	N/A	N/A
Total HAPs	25.0	N/A	N/A	N/A

N/A = Not Applicable

^aIncludes site specific haul road and storage pile emissions

Table 3: Emissions Summary (tons per year) West County Quarry (Ste. Genevieve)

Air Pollutant	De Minimis Level/SMAL	Potential Emissions of Process Equipment	^a Potential Emissions of the Application	Conditioned Potential Emissions
PM	25.0	8.98	88.85	39.56
PM ₁₀	15.0	3.31	33.69	<15.0
PM _{2.5}	10.0	0.47	6.37	2.84
SO _x	40.0	N/A	N/A	N/A
NO _x	40.0	N/A	N/A	N/A
VOC	40.0	N/A	N/A	N/A
CO	100.0	N/A	N/A	N/A
Total HAPs	25.0	N/A	N/A	N/A

N/A = Not Applicable

^aIncludes site specific haul road and storage pile emissions

Table 4: Emissions Summary (tons per year) Arab Quarry (Bollinger)

Air Pollutant	De Minimis Level/SMAL	Potential Emissions of Process Equipment	^a Potential Emissions of the Application	Conditioned Potential Emissions
PM	25.0	8.98	115.15	41.71
PM ₁₀	15.0	3.31	41.42	<15.0
PM _{2.5}	10.0	0.47	9.39	3.04
SO _x	40.0	N/A	N/A	N/A
NO _x	40.0	N/A	N/A	N/A
VOC	40.0	N/A	N/A	N/A
CO	100.0	N/A	N/A	N/A
Total HAPs	25.0	N/A	N/A	N/A

N/A = Not Applicable

^aIncludes site specific haul road and storage pile emissions

Table 5: Emissions Summary (tons per year) Buffordville Quarry (Cape Girardeau)

Air Pollutant	De Minimis Level/SMAL	Potential Emissions of Process Equipment	^a Potential Emissions of the Application	Conditioned Potential Emissions
PM	25.0	8.98	127.55	42.56
PM ₁₀	15.0	3.31	44.95	<15.0
PM _{2.5}	10.0	0.47	9.34	3.12
SO _x	40.0	N/A	N/A	N/A
NO _x	40.0	N/A	N/A	N/A
VOC	40.0	N/A	N/A	N/A
CO	100.0	N/A	N/A	N/A
Total HAPs	25.0	N/A	N/A	N/A

N/A = Not Applicable

^aIncludes site specific haul road and storage pile emissions

EMISSIONS CALCULATIONS

Emissions for the project were calculated 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 were 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 less/greater than 1.5 % by weight.

Emissions from haul roads and vehicular activity areas were calculated using the predictive equation from AP-42 Section 13.2.2 "Unpaved Roads," November 2006. A 90% control efficiency for PM and PM₁₀ and a 40% control efficiency for PM_{2.5} were applied to the emission calculations for the use of BMPs. Emissions from 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 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."

OPERATING SCENARIOS

Fischer Quarry & Hauling PORT-0752 cannot operate with any other plants that have ambient impact limits based on the Air Pollution Control Program's nomographs. When another plant/portable plant is locating to these sites, please refer to that plant's permit's special conditions to see if they contain ambient impact limits.

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 PM₁₀ are conditioned below the de minimis level.

APPLICABLE REQUIREMENTS

Fischer Quarry & Hauling, LLC PORT-0752 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

- *Operating Permits*, 10 CSR 10-6.065 does not apply because this is a portable plant.
- *Start-Up, Shutdown, and Malfunction Conditions*, 10 CSR 10-6.050
- *Submission of Emission Data, Emission Fees and Process Information*, 10 CSR 10-6.110.
- *Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin*, 10 CSR 10-6.170
- *Restriction of Emission of Visible Air Contaminants*, 10 CSR 10-6.220
- *Restriction of Emission of Odors*, 10 CSR 10-6.165

SPECIFIC REQUIREMENTS

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

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 May 23, 2017, received May 23, 2017, designating Fischer Quarry & Hauling, LLC as the owner and operator of the installation.

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

%percent	MMBtuMillion British thermal units
°Fdegrees Fahrenheit	MMCFmillion cubic feet
acfmactual cubic feet per minute	MSDSMaterial Safety Data Sheet
BACTBest Available Control Technology	NAAQSNational Ambient Air Quality Standards
BMPsBest Management Practices	NESHAPs ..National Emissions Standards for Hazardous Air Pollutants
BtuBritish thermal unit	NO_xnitrogen oxides
CAMCompliance Assurance Monitoring	NSPSNew Source Performance Standards
CASChemical Abstracts Service	NSRNew Source Review
CEMSContinuous Emission Monitor System	PMparticulate matter
CFRCode of Federal Regulations	PM_{2.5}particulate matter less than 2.5 microns in aerodynamic diameter
COcarbon monoxide	PM₁₀particulate matter less than 10 microns in aerodynamic diameter
CO₂carbon dioxide	ppmparts per million
CO₂ecarbon dioxide equivalent	PSD Prevention of Significant Deterioration
COMSContinuous Opacity Monitoring System	PTEpotential to emit
CSRCode of State Regulations	RACTReasonable Available Control Technology
dscfdry standard cubic feet	RALRisk Assessment Level
EIQEmission Inventory Questionnaire	SCCSource Classification Code
EPEmission Point	scfmstandard cubic feet per minute
EPAEnvironmental Protection Agency	SDSSafety Data Sheet
EUEmission Unit	SICStandard Industrial Classification
fpsfeet per second	SIPState Implementation Plan
ftfeet	SMALScreening Model Action Levels
GACTGenerally Available Control Technology	SO_xsulfur oxides
GHGGreenhouse Gas	SO₂sulfur dioxide
gpmgallons per minute	tphtons per hour
grgrains	tpytons per year
GWPGlobal Warming Potential	VMTvehicle miles traveled
HAPHazardous Air Pollutant	VOCVolatile Organic Compound
hrhour	
hphorsepower	
lbpound	
lbs/hrpounds per hour	
MACTMaximum Achievable Control Technology	
µg/m³micrograms per cubic meter	
m/smeters per second	
Mgal1,000 gallons	
MWmegawatt	
MHDRmaximum hourly design rate	

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For Single Plant Operation

Hours per day	24.0
Days per year	162.5
Hours per year	3899.9

For Multiple Plant Operation

Hours per day	24.0
Days per year	162.5
Hours per year	3899.9

Pollutant Justification for Limit

PM10	De Minimis
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Pollutant	Potential Emissions of Process Equipment (tons/yr)	Potential Emissions including fugitives (tons/yr)	Allowable Emissions for 3900 hours per year (tons/yr)	De minimis Thresholds	Plant-wide Composite Emission Factor (lb/ton)
PM	8.98	88.85	39.56	25	0.0406
PM ₁₀	3.31	33.69	15.00	15	0.0154
PM _{2.5}	0.47	6.37	2.84	10	0.0029
SO ₂	-	-		40	0.0000
NO ₂	-	-		40	0.0000
VOC	-	-		40	0.0000
CO	-	-		100	0.0000
CH ₂ O	-	-		2.00	0.0000
Pb	-	-		0.01	0.0000
HAPs	-	-		10	0.0000
CO ₂	-	-		100	0.0000
N ₂ O	-	-		100	0.0000
CH ₄	-	-		100	0.0000
GHG _{mass}	-	-		100	0.0000
CO ₂ eq	-	-		100,000	0.0000

Limit Hours per Year

Limit Hours per Year w/ 24 hr day

Maximum hourly discharge rate (tons/hr)	500
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Tons of product per day	12,000.0
Tons of product per year	1,949,956.1

West County

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For Single Plant Operation

Hours per day	24.0
Days per year	213.4
Hours per year	5121.1

For Multiple Plant Operation

Hours per day	24.0
Days per year	213.4
Hours per year	5121.1

Pollutant	Justification for Limit
PM10	De Minimis

Pollutant	Potential Emissions of Process Equipment (tons/yr)	Potential Emissions including fugitives (tons/yr)	Allowable Emissions for 5121 hours per year (tons/yr)	De minimis Thresholds	Plant-wide Composite Emission Factor (lb/ton)
PM	8.98	61.79	36.12	25	0.0282
PM ₁₀	3.31	25.66	15.00	15	0.0117
PM _{2.5}	0.47	4.32	2.53	10	0.0020
SO ₂	-	-		40	0.0000
NO ₂	-	-		40	0.0000
VOC	-	-		40	0.0000
CO	-	-		100	0.0000
CH ₂ O	-	-		2.00	0.0000
Pb	-	-		0.01	0.0000
HAPs	-	-		10	0.0000
CO ₂	-	-		100	0.0000
N ₂ O	-	-		100	0.0000
CH ₄	-	-		100	0.0000
GHC _{mass}	-	-		100	0.0000
CO ₂ eq	-	-		100,000	0.0000

Limit Hours per Year

Limit Hours per Year w/ 24 hr day

Maximum hourly design rate (tons/hr)	500
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Tons of product per day	12,000.0
Tons of product per year	2,560,572.1

Perry County Road & Bridge

NOTICE: This spreadsheet is for your use only and should be used with caution. MoDNR does not guarantee the accuracy of the information it contains. This spreadsheet is subject to continual revision and updating. It is your responsibility to be aware of the most current, accurate and complete information available. MoDNR is not responsible for errors or omissions in this spreadsheet. Submittal of the information contained in this spreadsheet (workbook) does not relieve the responsible official of the certification statement signed on the first page of the application.

For Single Plant Operation

Hours per day	24.0
Days per year	121.8
Hours per year	2923.0

For Multiple Plant Operation

Hours per day	24.0
Days per year	121.8
Hours per year	2923.0

Pollutant	Justification for Limit
PM10	De Minimis

Pollutant	Potential Emissions of Process Equipment (tons/yr)	Potential Emissions including fugitives (tons/yr)	Allowable Emissions for 2923 hours per year (tons/yr)	De minimis Thresholds	Plant-wide Composite Emission Factor (lb/ton)
PM	8.98	127.55	42.56	25	0.0582
PM ₁₀	3.31	44.95	15.00	15	0.0205
PM _{2.5}	0.47	9.34	3.12	10	0.0043
SO ₂	-	-	-	40	0.0000
NO ₂	-	-	-	40	0.0000
VOC	-	-	-	40	0.0000
CO	-	-	-	100	0.0000
CH ₂ O	-	-	-	2.00	0.0000
Pb	-	-	-	0.01	0.0000
HAPs	-	-	-	10	0.0000
CO ₂	-	-	-	100	0.0000
N ₂ O	-	-	-	100	0.0000
CH ₄	-	-	-	100	0.0000
GHG _{mass}	-	-	-	100	0.0000
CO ₂ eq	-	-	-	100,000	0.0000

Limit Hours per Year
Limit Hours per Year w/ 24 hr day

Maximum hourly design rate (tons/hr)	500
--------------------------------------	-----

Tons of product per day	12,000.0
Tons of product per year	1,461,485.5

Bufordville Quarry

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For Single Plant Operation

Hours per day	24.0
Days per year	132.2
Hours per year	3172.7

For Multiple Plant Operation

Hours per day	24.0
Days per year	132.2
Hours per year	3172.7

Pollutant	Justification for Limit
PM10	De Minimis

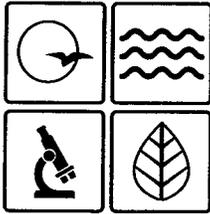
Pollutant	Potential Emissions of Process Equipment (tons/yr)	Potential Emissions including fugitives (tons/yr)	Allowable Emissions for 3173 hours per year (tons/yr)	De minimis Thresholds	Plant-wide Composite Emission Factor (lb/ton)
PM	8.98	115.15	41.71	25	0.0526
PM ₁₀	3.31	41.42	15.00	15	0.0189
PM _{2.5}	0.47	8.39	3.04	10	0.0038
SO ₂	-	-	-	40	0.0000
NO ₂	-	-	-	40	0.0000
VOC	-	-	-	40	0.0000
CO	-	-	-	100	0.0000
CH ₂ O	-	-	-	2.00	0.0000
Pb	-	-	-	0.01	0.0000
HAPs	-	-	-	10	0.0000
CO ₂	-	-	-	100	0.0000
N ₂ O	-	-	-	100	0.0000
CH ₄	-	-	-	100	0.0000
GHC _{mass}	-	-	-	100	0.0000
CO ₂ eq	-	-	-	100,000	0.0000

Limit Hours per Year
Limit Hours per Year w/ 24 hr day

Maximum hourly design rate (tons/hr)	500
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Tons of product per day	12,000.0
Tons of product per year	1,586,353.3

Arab Aggregates



Missouri Department of

dnr.mo.gov

NATURAL RESOURCES

Eric R. Greitens, Governor

Carol S. Comer, Director

JUL 06 2017

Ms. Koreen Bassham
Office Manager
Fischer Quarry & Hauling, LLC PORT-0752
25501 State Route Z
St. Mary, MO 63673

RE: New Source Review Permit - Project Number: 2017-05-061

Dear Ms. Bassham:

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, 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.



Recycled paper

Ms. Koreen Bassham
Page Two

If you have any questions, 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:kkj

Enclosures

c: Southeast Regional Office
PAMS File: 2017-05-061

Permit Number: 07 2017 - 004