

**STATE OF MISSOURI**



**DEPARTMENT OF NATURAL RESOURCES  
MISSOURI AIR CONSERVATION COMMISSION  
PERMIT TO CONSTRUCT**

Permit Number: **112008-004** Project Number: 2008-07-048

Parent Company: Everett Quarries Company, Inc.

Parent Company Address: P.O. Box 276, Plattsburg, MO 64477

Installation Name: Everett Quarries Company, Inc.

Installation Address: 2674 SE Frost Rd, Cameron, MO 64429

Location Information: DeKalb County (S5/6/31, T57/58N, R30W)

The modification of an existing portable rock crushing plant to add equipment. The portable rock crushing plant has a maximum hourly design rate (MHDR) of 550 tons per hour (tph). Best Management Practices will be used to control fugitive emissions from haul roads and storage piles. This review was conducted in accordance with Section (6), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*.

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- Standard Conditions (on reverse) are applicable to this permit.
  - Standard Conditions (on reverse) and Special Conditions are applicable to this permit.

NOV 12 2008

EFFECTIVE DATE

A handwritten signature in cursive script, reading "Steven J. Fuler".

DIRECTOR OR DESIGNEE  
DEPARTMENT OF NATURAL RESOURCES

## STANDARD CONDITIONS:

Permission to construct may be revoked if you fail to begin construction or modification within two years from the effective date of this permit. Permittee should notify the Air Pollution Control Program if construction or modification is not started within two years 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 departments' Air Pollution Control Program of the anticipated date of start up of this (these) air contaminant source(s). The information must be made available not more than 60 days but at least 30 days in advance of this date. Also, you must notify the Department of Natural Resources Regional office responsible for the area within which you are located within 15 days after the actual start up of this (these) air contaminant source(s).

A copy of this permit and permit review shall be kept at the installation address and shall be made available to Department of Natural Resources' personnel upon request.

You may appeal this permit or any of the listed special conditions to the Administrative Hearing Commission (AHC), P.O. Box 1557, Jefferson City, MO 65102, as provided in RSMo 643.075.6 and 621.250.3. If you choose to appeal, you must file a petition with the AHC within 30 days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed. If it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC.

If you choose not to appeal, this certificate, the project review and your application and associated correspondence constitutes your permit to construct. The permit allows you to construct and operate your air contaminant 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 at (573) 751-4817. If you prefer to write, please address your correspondence to the Missouri Department of Natural Resources, Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102-0176, attention: Construction Permit Unit.

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**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); by the Missouri Rules listed in Title 10, Division 10 of the Codes of State Regulations (specifically 10 CSR 10-6.060); by 10 CSR 10-6.060 paragraph (12)(A)10. "Conditions required by permitting authority"; by 10 CSR 10-6.010 "Ambient Air Quality Standards" and 10 CSR 10-6.060 subsections (5)(D) and (6)(A); and by control measures requested by the applicant, in their permit application, to reduce the amount of air pollutants being emitted, in accordance with 10 CSR 10-6.060 paragraph (6)(E)3. Furthermore, one or more of the Subparts of 40 CFR Part 60, New Source Performance Standards (NSPS), applies to this installation.*

1. **Portable Equipment Identification Requirement**  
To assure that each component is properly identified as being a part of this portable rock crushing plant, PORT-0124, Everett Quarries Co., Inc. shall provide and maintain suitable, 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 must 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. The portable rock crushing plant shall not be operated at any site location longer than 24 consecutive months without an intervening relocation.
  - 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 there are no other new plants at the site, then the application must be received by the Air Pollution Control Program at least seven (7) days prior to the relocation.
    2. If the portable rock crushing plant is moving to a new site, or if there are other plants or equipment at the site that have not been evaluated for concurrent operation, then the application must be received by the Air Pollution Control Program at least twenty-one (21) days prior to the relocation. The application must include written notification of any concurrently operating plants.
3. **Reporting Requirement**  
The operator(s) shall report to the Air Pollution Control Program (APCP) Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after any exceedances of the limitations imposed by this permit.
4. **Record Keeping Requirement**  
The operator(s) shall maintain all records required by this permit for not less than five (5) years and shall make them available to any Missouri Department of Natural Resources' personnel upon request.
5. **Superseding Condition**  
The conditions of this permit supersede all special conditions found in the previously issued construction permit(s) (1293-013, 0297-011, 122001-003 and 092005-010) from the Air Pollution Control Program.

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**SITE-SPECIFIC SPECIAL CONDITIONS:**

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

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Site ID No.: 063-0012  
Site Name: Everett Quarries – Quarry 53  
Site Address: 2674 SE Frost Rd, Cameron, MO 64429  
Site County: DeKalb County, S5,6,31, T57N & 58N, R30W

1. Best Management Practices  
Everett Quarries Co., Inc. shall control fugitive emissions from all of the haul roads and stockpiles at this site by performing *Best Management Practices*, which include the usage of paving, chemical dust suppressants, or documented watering. These practices are defined in Attachment AA.
2. National Ambient Air Quality Standards (NAAQS) Limitation for Particulate Matter Less Than Ten Microns in Diameter (PM<sub>10</sub>)
  - A. The operator(s) for Everett Quarries Co., Inc.'s portable rock crushing plant (PORT-0124) shall ensure, while operating at this site, that the ambient impact of PM<sub>10</sub> at or beyond the nearest property boundary does not exceed 150 µg/m<sup>3</sup> in any 24-hour period, in accordance with the Federal NAAQS requirements (40 CFR 50.6).
  - B. To demonstrate compliance, the operator(s) shall maintain a daily record of material processed. Attachment A, *Daily Ambient PM<sub>10</sub> Impact Tracking Record*, or other equivalent form(s), shall be used for this purpose.
3. Annual Emission Limit of Particulate Matter Less Than Ten Microns in Diameter (PM<sub>10</sub>)
  - A. The operator(s) shall ensure that Everett Quarries Co., Inc.'s portable rock crushing plant emits less than 50 tons of PM<sub>10</sub> into the atmosphere in any 12-month period from the entire installation.
  - B. To demonstrate compliance, the operator(s) shall maintain a daily record of material processed and PM<sub>10</sub>. Attachment B, *Monthly PM<sub>10</sub> Emissions Tracking Record*, or other equivalent form(s), shall be used for this purpose.
4. Moisture Content Testing Requirement for Inherent Moisture Content
  - A. The inherent moisture content of the rock will reduce particulate emissions. Everett Quarries Co., Inc. claimed the inherent moisture content of the processed rock to be greater than or equal to 1.5 wt.%, which shall be verified by testing.
  - B. Testing shall be conducted according to approved methods, such as those prescribed by the *American Society for Testing Materials (ASTM D-2216 or C-566)*, EPA AP-42 Appendix C.2, or other method(s) approved by the Director. The first test shall be no later than 45 days after startup. Testing shall be conducted at least once every year after the initial test, during the months of June through September, while the portable rock crushing plant is active at this site.
  - C. Test samples shall be obtained after processing by all equipment (i.e. after processing by the last conveyor, at the storage piles, etc.). During the sample processing run only, any spray devices shall be turned off during the processing from which test samples are obtained. The written analytical report shall include the raw data and moisture content (wt.%) of each sample, the test date, and the original signature of the individual performing the test. Within 30 days of completion of the required tests, the report shall be submitted to the Enforcement section of the Air Pollution Control Program, and a copy shall be sent to the Regional Office.
  - D. If the inherent moisture content result of the first test is less than 1.5 wt.%, a second test must be performed within 30 days. If the result of the second test is less than 1.5 wt.%, Everett Quarries Co., Inc. shall apply for a new construction permit to account for the revised information.
5. Performance Testing for New Source Performance Standards (NSPS)  
Everett Quarries Co., Inc. shall comply with all appropriate monitoring, testing, reporting and record keeping requirements of 40 CFR Part 60, Subpart OOO – *Standards of Performance for Nonmetallic Mineral Processing Plant*.

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**SITE-SPECIFIC SPECIAL CONDITIONS:**

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

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6. **Prohibition Against Concurrent Operations Without Further Air Pollution Control Program Review**  
The portable rock crushing plant (PORT-0124) is prohibited from operating whenever any other plant(s) are located at this site.
7. **Restriction on Process Configuration of Primary Emission Point(s)**  
The maximum hourly design rate of the plant is equal to the sum of the design rate(s) of the primary emission point(s). Everett Quarries Co., Inc. has designated the following unit(s) as the primary emission point(s) of the portable rock crushing plant: primary crusher. Bypassing the primary emission point(s) for processing is prohibited.
8. **Restriction on Minimum Distance to Nearest Property Boundary**  
The primary emission point of the portable rock crushing plant, which is the primary crusher, shall be located at least 850 feet from the nearest property boundary whenever it is operating at this site.
9. **Restriction on the Use of Diesel Engine(s)**  
The diesel engines shall only be used to power equipment during production. If the company decides, in the future, to operate the diesel engines for any other purpose, a new permit review will be required.

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**SITE-SPECIFIC SPECIAL CONDITIONS:**

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

Site ID No.: 025-0003  
Site Name: Everett Quarries – Quarry 6  
Site Address: 660 SE Quarry Dr., Kingston, MO  
Site County: Caldwell County (S27 & 34, T56N, R28W)

1. Best Management Practices  
Everett Quarries Co., Inc. shall control fugitive emissions from all of the haul roads and stockpiles at this site by performing *Best Management Practices*, which include the usage of paving, chemical dust suppressants, or documented watering. These practices are defined in Attachment AA.
2. National Ambient Air Quality Standards (NAAQS) Limitation for Particulate Matter Less Than Ten Microns in Diameter (PM<sub>10</sub>)
  - A. The operator(s) for Everett Quarries Co., Inc.'s portable rock crushing plant (PORT-0124) shall ensure, while operating at this site, that the ambient impact of PM<sub>10</sub> at or beyond the nearest property boundary does not exceed 150 µg/m<sup>3</sup> in any 24-hour period, in accordance with the Federal NAAQS requirements (40 CFR 50.6).
  - B. To demonstrate compliance, the operator(s) shall maintain a daily record of material processed. Attachment A, *Daily Ambient PM<sub>10</sub> Impact Tracking Record*, or other equivalent form(s), shall be used for this purpose.
3. Annual Emission Limit of Particulate Matter Less Than Ten Microns in Diameter (PM<sub>10</sub>)
  - A. The operator(s) shall ensure that Everett Quarries Co., Inc.'s portable rock crushing plant emits less than 50 tons of PM<sub>10</sub> into the atmosphere in any 12-month period from the entire installation.
  - B. To demonstrate compliance, the operator(s) shall maintain a daily record of material processed and PM<sub>10</sub>. Attachment B, *Monthly PM<sub>10</sub> Emissions Tracking Record*, or other equivalent form(s), shall be used for this purpose.
4. Moisture Content Testing Requirement for Inherent Moisture Content
  - A. The inherent moisture content of the rock will reduce particulate emissions. Everett Quarries Co., Inc. claimed the inherent moisture content of the processed rock to be greater than or equal to 1.5 wt.%, which shall be verified by testing.
  - B. Testing shall be conducted according to approved methods, such as those prescribed by the *American Society for Testing Materials (ASTM D-2216 or C-566)*, EPA AP-42 Appendix C.2, or other method(s) approved by the Director. The first test shall be no later than 45 days after startup. Testing shall be conducted at least once every year after the initial test, during the months of June through September, while the portable rock crushing plant is active at this site.
  - C. Test samples shall be obtained after processing by all equipment (i.e after processing by the last conveyor, at the storage piles, etc.). During the sample processing run only, any spray devices shall be turned off during the processing from which test samples are obtained. The written analytical report shall include the raw data and moisture content (wt.%) of each sample, the test date, and the original signature of the individual performing the test. Within 30 days of completion of the required tests, the report shall be submitted to the Enforcement section of the Air Pollution Control Program, and a copy shall be sent to the Regional Office.
  - D. If the inherent moisture content result of the first test is less than 1.5 wt.%, a second test must be performed within 30 days. If the result of the second test is less than 1.5 wt.%, Everett Quarries Co., Inc. shall apply for a new construction permit to account for the revised information.
5. Performance Testing for New Source Performance Standards (NSPS)  
Everett Quarries Co., Inc. shall comply with all appropriate monitoring, testing, reporting and record keeping requirements of 40 CFR Part 60, Subpart OOO – *Standards of Performance for Nonmetallic Mineral Processing Plant*.

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**SITE-SPECIFIC SPECIAL CONDITIONS:**

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

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6. **Prohibition Against Concurrent Operations Without Further Air Pollution Control Program Review**  
The portable rock crushing plant (PORT-0124) is prohibited from operating whenever any other plant(s) are located at this site.
7. **Restriction on Process Configuration of Primary Emission Point(s)**  
The maximum hourly design rate of the plant is equal to the sum of the design rate(s) of the primary emission point(s). Everett Quarries Co., Inc. has designated the following unit(s) as the primary emission point(s) of the portable rock crushing plant: Primary crusher. Bypassing the primary emission point(s) for processing is prohibited.
8. **Restriction on Minimum Distance to Nearest Property Boundary**  
The primary emission point of the portable rock crushing plant, which is the primary crusher, shall be located at least 1,050 feet from the nearest property boundary whenever it is operating at this site.
9. **Restriction on the Use of Diesel Engine(s)**  
The diesel engines shall only be used to power equipment during production. If the company decides, in the future, to operate the diesel engines for any other purpose, a new permit review will be required.

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**SITE-SPECIFIC SPECIAL CONDITIONS:**

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

Site ID No.: 021-0072  
Site Name: Everett Quarries – Quarry 54  
Site Address: 9020 SE Loutermilch, Gower, MO  
Site County: Buchanan County (S15 through 22, T55N, R34W)

1. **Best Management Practices**  
Everett Quarries Co., Inc. shall control fugitive emissions from all of the haul roads and stockpiles at this site by performing *Best Management Practices*, which include the usage of paving, chemical dust suppressants, or documented watering. These practices are defined in Attachment AA.
2. **Annual Emission Limit of Particulate Matter Less Than Ten Microns in Diameter (PM<sub>10</sub>)**
  - A. The operator(s) shall ensure that Everett Quarries Co., Inc.'s portable rock crushing plant emits less than 50 tons of PM<sub>10</sub> into the atmosphere in any 12-month period from the entire installation.
  - B. To demonstrate compliance, the operator(s) shall maintain a daily record of material processed and PM<sub>10</sub>. Attachment B, Monthly PM<sub>10</sub> Emissions Tracking Record, or other equivalent form(s), will be used for this purpose
3. **Moisture Content Testing Requirement for Inherent Moisture Content**
  - C. The inherent moisture content of the rock will reduce particulate emissions. Everett Quarries Co., Inc. claimed the inherent moisture content of the processed rock to be greater than or equal to 1.5 wt.%, which shall be verified by testing.
  - B. Testing shall be conducted according to approved methods, such as those prescribed by the *American Society for Testing Materials (ASTM D-2216 or C-566)*, EPA AP-42 Appendix C.2, or other method(s) approved by the Director. The first test shall be no later than 45 days after startup. Testing shall be conducted at least once every year after the initial test, during the months of June through September, while the portable rock crushing plant is active at this site.
  - C. Test samples shall be obtained after processing by all equipment (i.e after processing by the last conveyor, at the storage piles, etc.). During the sample processing run only, any spray devices shall be turned off during the processing from which test samples are obtained. The written analytical report shall include the raw data and moisture content (wt.%) of each sample, the test date, and the original signature of the individual performing the test. Within 30 days of completion of the required tests, the report shall be submitted to the Enforcement section of the Air Pollution Control Program, and a copy shall be sent to the Regional Office.
  - D. If the inherent moisture content result of the first test is less than 1.5 wt.%, a second test must be performed within 30 days. If the result of the second test is less than 1.5 wt.%, Everett Quarries Co., Inc. shall apply for a new construction permit to account for the revised information.
4. **Performance Testing for New Source Performance Standards (NSPS)**  
Everett Quarries Co., Inc. shall comply with all appropriate monitoring, testing, reporting and record keeping requirements of 40 CFR Part 60, Subpart OOO – *Standards of Performance for Nonmetallic Mineral Processing Plant*.
5. **Prohibition Against Concurrent Operations Without Further Air Pollution Control Program Review**  
The portable rock crushing plant (PORT-0124) is prohibited from operating whenever any other plant(s) are located at this site.
6. **Restriction on Process Configuration of Primary Emission Point(s)**  
The maximum hourly design rate of the plant is equal to the sum of the design rate(s) of the primary emission point(s). Everett Quarries Co., Inc. has designated the following unit(s) as the primary emission point(s) of the portable rock crushing plant: primary crusher. Bypassing the primary emission point(s) for processing is prohibited.

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**SITE-SPECIFIC SPECIAL CONDITIONS:**

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

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7. **Restriction on Minimum Distance to Nearest Property Boundary**  
The primary emission point of the portable rock crushing plant, which is the primary crusher, shall be located at least 1,850 feet from the nearest property boundary whenever it is operating at this site.
  
8. **Restriction on the Use of Diesel Engine(s)**  
The diesel engines shall only be used to power equipment during production. If the company decides, in the future, to operate the diesel engines for any other purpose, a new permit review will be required.

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**SITE-SPECIFIC SPECIAL CONDITIONS:**

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

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Site ID No.: 075-P016  
Site Name: Everett Quarries – Quarry 58  
Site Address: 4656 397<sup>th</sup> Street, Stanberry, MO  
Site County: Gentry County (S28 & 33, T62N, R32W)

1. Best Management Practices  
Everett Quarries Co., Inc. shall control fugitive emissions from all of the haul roads and stockpiles at this site by performing *Best Management Practices*, which include the usage of paving, chemical dust suppressants, or documented watering. These practices are defined in Attachment AA.
2. National Ambient Air Quality Standards (NAAQS) Limitation for Particulate Matter Less Than Ten Microns in Diameter (PM<sub>10</sub>)
  - A. The operator(s) for Everett Quarries Co., Inc.'s portable rock crushing plant (PORT-0124) shall ensure, while operating at this site, that the ambient impact of PM<sub>10</sub> at or beyond the nearest property boundary does not exceed 150 µg/m<sup>3</sup> in any 24-hour period, in accordance with the Federal NAAQS requirements (40 CFR 50.6).
  - B. To demonstrate compliance, the operator(s) shall maintain a daily record of material processed. Attachment A, *Daily Ambient PM<sub>10</sub> Impact Tracking Record*, or other equivalent form(s), will be used for this purpose.
3. Annual Emission Limit of Particulate Matter Less Than Ten Microns in Diameter (PM<sub>10</sub>)
  - A. The operator(s) shall ensure that Everett Quarries Co., Inc.'s portable rock crushing plant emits less than 50 tons of PM<sub>10</sub> into the atmosphere in any 12-month period from the entire installation.
  - B. To demonstrate compliance, the operator(s) shall maintain a daily record of material processed and PM<sub>10</sub>. Attachment B, *Monthly PM<sub>10</sub> Emissions Tracking Record*, or other equivalent form(s), will be used for this purpose.
4. Moisture Content Testing Requirement for Inherent Moisture Content
  - A. The inherent moisture content of the rock will reduce particulate emissions. Everett Quarries Co., Inc. claimed the inherent moisture content of the processed rock to be greater than or equal to 1.5 wt.%, which shall be verified by testing.
  - B. Testing shall be conducted according to approved methods, such as those prescribed by the American Society for Testing Materials (ASTM D-2216 or C-566), EPA AP-42 Appendix C.2, or other method(s) approved by the Director. The first test shall be no later than 45 days after startup. Testing shall be conducted at least once every year after the initial test, during the months of June through September, while the portable rock crushing plant is active at this site.
  - C. Test samples shall be obtained after processing by all equipment (i.e. after processing by the last conveyor, at the storage piles, etc.). During the sample processing run only, any spray devices shall be turned off during the processing from which test samples are obtained. The written analytical report shall include the raw data and moisture content (wt.%) of each sample, the test date, and the original signature of the individual performing the test. Within 30 days of completion of the required tests, the report shall be submitted to the Enforcement section of the Air Pollution Control Program, and a copy shall be sent to the Regional Office.
  - D. If the inherent moisture content result of the first test is less than 1.5 wt.%, a second test must be performed within 30 days. If the result of the second test is less than 1.5 wt.%, Everett Quarries Co., Inc. shall apply for a new construction permit to account for the revised information.
5. Performance Testing for New Source Performance Standards (NSPS)  
Everett Quarries Co., Inc. shall comply with all appropriate monitoring, testing, reporting and record keeping requirements of 40 CFR Part 60, Subpart OOO – *Standards of Performance for Nonmetallic Mineral Processing Plant*.

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**SITE-SPECIFIC SPECIAL CONDITIONS:**

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

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6. **Prohibition Against Concurrent Operations Without Further Air Pollution Control Program Review**  
The portable rock crushing plant (PORT-0124) is prohibited from operating whenever any other plant(s) are located at this site.
7. **Restriction on Process Configuration of Primary Emission Point(s)**  
The maximum hourly design rate of the plant is equal to the sum of the design rate(s) of the primary emission point(s). Everett Quarries Co., Inc. has designated the following unit(s) as the primary emission point(s) of the portable rock crushing plant: primary crusher. Bypassing the primary emission point(s) for processing is prohibited.
8. **Restriction on Minimum Distance to Nearest Property Boundary**  
The primary emission point of the portable rock crushing plant, which is the primary crusher, shall be located at least 975 feet from the nearest property boundary whenever it is operating at this site.
9. **Restriction on the Use of Diesel Engine(s)**  
The diesel engines shall only be used to power equipment during production. If the company decides, in the future, to operate the diesel engines for any other purpose, a new permit review will be required.

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**SITE-SPECIFIC SPECIAL CONDITIONS:**

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

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Site ID No.: 049-0004  
Site Name: Everett Quarries – Quarry 1  
Site Address: 510 SE 248<sup>th</sup> Street, Lathrop, MO 64465  
Site County: Clinton County, S29, 30, 32, T55N, R31W

1. **Best Management Practices**  
Everett Quarries Co., Inc. shall control fugitive emissions from all of the haul roads and stockpiles at this site by performing *Best Management Practices*, which include the usage of paving, chemical dust suppressants, or documented watering. These practices are defined in Attachment AA.
2. **Annual Emission Limit of Particulate Matter Less Than Ten Microns in Diameter (PM<sub>10</sub>)**
  - A. The operator(s) shall ensure that Everett Quarries Co., Inc.'s portable rock crushing plant emits less than 50 tons of PM<sub>10</sub> into the atmosphere in any 12-month period from the entire installation.
  - B. To demonstrate compliance, the operator(s) shall maintain a daily record of material processed and PM<sub>10</sub>. Attachment B, Monthly PM<sub>10</sub> Emissions Tracking Record, or other equivalent form(s), will be used for this purpose
3. **Moisture Content Testing Requirement for Inherent Moisture Content**
  - A. The inherent moisture content of the rock will reduce particulate emissions. Everett Quarries Co., Inc. claimed the inherent moisture content of the processed rock to be greater than or equal to 1.5 wt.%, which shall be verified by testing.
  - B. Testing shall be conducted according to approved methods, such as those prescribed by the American Society for Testing Materials (ASTM D-2216 or C-566), EPA AP-42 Appendix C.2, or other method(s) approved by the Director. The first test shall be no later than 45 days after startup. Testing shall be conducted at least once every year after the initial test, during the months of June through September, while the portable rock crushing plant is active at this site.
  - C. Test samples shall be obtained after processing by all equipment (i.e after processing by the last conveyor, at the storage piles, etc.). During the sample processing run only, any spray devices shall be turned off during the processing from which test samples are obtained. The written analytical report shall include the raw data and moisture content (wt.%) of each sample, the test date, and the original signature of the individual performing the test. Within 30 days of completion of the required tests, the report shall be submitted to the Enforcement section of the Air Pollution Control Program, and a copy shall be sent to the Regional Office.
  - D. If the inherent moisture content result of the first test is less than 1.5 wt.%, a second test must be performed within 30 days. If the result of the second test is less than 1.5 wt.%, Everett Quarries Co., Inc. shall apply for a new construction permit to account for the revised information.
4. **Performance Testing for New Source Performance Standards (NSPS)**  
Everett Quarries Co., Inc. shall comply with all appropriate monitoring, testing, reporting and record keeping requirements of 40 CFR Part 60, Subpart OOO – *Standards of Performance for Nonmetallic Mineral Processing Plant*.
5. **Prohibition Against Concurrent Operations Without Further Air Pollution Control Program Review**  
The portable rock crushing plant (PORT-0124) is prohibited from operating whenever any other plant(s) are located at this site.
6. **Restriction on Process Configuration of Primary Emission Point(s)**  
The maximum hourly design rate of the plant is equal to the sum of the design rate(s) of the primary emission point(s). Everett Quarries Co., Inc. has designated the following unit(s) as the primary emission point(s) of the portable rock crushing plant: primary crusher. Bypassing the primary emission point(s) for processing is prohibited.

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**SITE-SPECIFIC SPECIAL CONDITIONS:**

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

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7. **Restriction on Minimum Distance to Nearest Property Boundary**  
The primary emission point of the portable rock crushing plant, which is the primary crusher, shall be located at least 1,584 feet from the nearest property boundary whenever it is operating at this site.
  
8. **Restriction on the Use of Diesel Engine(s)**  
The diesel engines shall only be used to power equipment during production. If the company decides, in the future, to operate the diesel engines for any other purpose, a new permit review will be required.

## TECHNICAL REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT

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### **PROJECT DESCRIPTION**

Everett Quarries Company, Inc. proposes to add twenty (24) conveyors, five (5) surge bins, one (1) screen, one (1) crusher and one 600 horsepower (hp) diesel engine to its portable rock crushing plant, PORT-0124. After the issuance of this permit, the portable plant will have a total of sixty (60) conveyors, eleven (11) surge bins, four (4) screens, four (4) crushers, two (2) feeders and two (2) diesel engines (900 hp, 600 hp). The portable plant is permitted to operate at five (5) different sites. The five (5) sites are in attainment areas for all criteria pollutants.

**Table 1: Other Permits Issued for Port 0124**

<b>Permit Number</b>	<b>Completed</b>	<b>Description</b>
1293-013	12/8/1993	New portable plant.
1293-013A	7/1/1994	Increase production
0297-011	2/10/1997	Increase production
122001-003	12/6/2001	Addition of equipment
092005-010	9/21/2005	Addition of equipment

### **EMISSIONS EVALUATION**

Criteria air pollutants will be emitted from this operation. The main air pollutant of concern is PM<sub>10</sub>. The potential

emissions were calculated from the maximum hourly design rate (MHDR) of the equipment, appropriate emission factors, control device efficiencies, and the limiting operating hours at MHDR. The sources of the emission factors and control efficiencies are listed in the section "Permit Documents". Based on the conditioned potential emissions, the operation is considered a minor source under 10 CSR 10-6.060 section (6).

The portable rock crushing plant has an annual emission limit of less than 50 tons of PM<sub>10</sub> in any 12-month period from the entire installation at each site. A composite PM<sub>10</sub> emission factor was developed for the portable rock crushing plant. The composite emission factor is incorporated into the monthly record keeping table, Attachment B. If the conditioned potential emissions of PM<sub>10</sub> were 50 tons per year or greater, then the owner would be required to submit dispersion modeling results. This PM<sub>10</sub> limit is site-specific and the PM<sub>10</sub> emissions do not need to be carried over from site to site.

**Table 2: Emissions Summary (tons per year)**

Air Pollutant	Regulatory De Minimis Levels	Sites	*Existing Potential Emissions	Existing Actual Emissions (year 2007)	Potential Emissions of the Application	**New Installation Conditioned Potential	Emission Factor (lb/ton)
PM <sub>10</sub>	15.0	Quarry 53	50.00	10.36	10.78	<50.00	0.05464
PM <sub>10</sub>	15.0	Quarry 6	50.00		10.78	<50.00	0.05811
PM <sub>10</sub>	15.0	Quarry 54	50.00		10.78	<50.00	0.05232
PM <sub>10</sub>	15.0	Quarry 58	50.00		10.78	<50.00	0.05116
PM <sub>10</sub>	15.0	Quarry 1	50.00		10.78	<50.00	0.06737
SO <sub>x</sub>	40.0	Quarry 53	N/D	0.79	0.28	0.65	N/A
SO <sub>x</sub>	40.0	Quarry 6	N/D		0.28	0.61	N/A
SO <sub>x</sub>	40.0	Quarry 54	N/D		0.28	0.67	N/A
SO <sub>x</sub>	40.0	Quarry 58	N/D		0.28	0.69	N/A
SO <sub>x</sub>	40.0	Quarry 1	N/D		0.28	0.52	N/A
NO <sub>x</sub>	40.0	Quarry 53	N/D	12.08	84.22	65.84	N/A
NO <sub>x</sub>	40.0	Quarry 6	N/D		84.22	61.87	N/A
NO <sub>x</sub>	40.0	Quarry 54	N/D		84.22	68.78	N/A
NO <sub>x</sub>	40.0	Quarry 58	N/D		84.22	70.36	N/A
NO <sub>x</sub>	40.0	Quarry 1	N/D		84.22	53.30	N/A
VOC	40.0	Quarry 53	N/D	0.99	18.14	3.45	N/A
VOC	40.0	Quarry 6	N/D		18.14	3.24	N/A
VOC	40.0	Quarry 54	N/D		18.14	3.61	N/A
VOC	40.0	Quarry 58	N/D		18.14	3.69	N/A
VOC	40.0	Quarry 1	N/D		18.14	2.79	N/A
CO	100.0	Quarry 53	N/D	2.60	0.08	15.91	N/A
CO	100.0	Quarry 6	N/D		0.08	14.95	N/A
CO	100.0	Quarry 54	N/D		0.08	16.62	N/A
CO	100.0	Quarry 58	N/D		0.08	17.00	N/A
CO	100.0	Quarry 1	N/D		0.08	12.88	N/A
HAPs	10.0/25.0	Quarry 53	N/D	N/D	0.08	0.05	N/A
HAPs	10.0/25.0	Quarry 6	N/D		0.08	0.04	N/A
HAPs	10.0/25.0	Quarry 54	N/D		0.08	0.05	N/A
HAPs	10.0/25.0	Quarry 58	N/D		0.08	0.05	N/A
HAPs	10.0/25.0	Quarry 1	N/D		0.08	0.04	N/A

Note: N/A = Not Applicable; N/D = Not Determined \*Existing potential emissions from permit #092005-010 (2005-06-042)

\*\* PM<sub>10</sub> conditioned potential based on voluntary limit. Other pollutants proportionately reduced.

## **AMBIENT AIR QUALITY IMPACT ANALYSIS**

Screening tools were used to evaluate the ambient air impact of the hourly emissions from this operation. The ambient impact at this site shall not exceed the National Ambient Air Quality Standard (NAAQS) of 150 µg/m<sup>3</sup> of

PM<sub>10</sub> at or beyond the nearest property boundary in any single 24-hour period. The screening tools were used to develop ambient impact factors for the portable rock crushing plant at each site.

For sources agreeing to use Best Management Practices (BMPs), as defined in Attachment AA, haul roads and stockpiles are not modeled with screening tools. Instead, they are addressed as a background level of 20 µg/m<sup>3</sup> of PM<sub>10</sub>. To ensure conformity with NAAQS, the remaining process emissions are limited to an impact of less than 130 µg/m<sup>3</sup> of PM<sub>10</sub> at or beyond the nearest property boundary.

Ambient impact evaluations were done for PORT-0124 at these five (5) sites at different distances from the property line.

- Quarry 53 is evaluated at 850 feet from the property line
- Quarry 6 is evaluated at 1,050 feet from the property line
- Quarry 54 is been evaluated at 1,850 feet from the property line
- Quarry 58 is been evaluated at 975 feet from the property line
- Quarry 1 is evaluated at 1,584 feet from the property line

**Table 3: Ambient Air Quality Impact Analysis of PM<sub>10</sub>, 24-Hour Averaging Time**

Site ID No.	Site Name	Operation	Ambient Impact Factor (µg/m <sup>3</sup> /ton)	Modeled Impact (µg/m <sup>3</sup> )	*Background (µg/m <sup>3</sup> )	NAAQS (µg/m <sup>3</sup> )	Daily Production Limit (tons)
063-0012	Quarry 53	Solitary	0.01521	130.00	20.00	150.00	8,549
025-0003	Quarry 6	Solitary	0.01116	130.00	20.00	150.00	11,651
021-0072	Quarry 54	Solitary	0.00463	61.10	20.00	150.00	13,200
075-P016	Quarry 58	Solitary	0.01309	130.00	20.00	150.00	9,929
049-0004	Quarry 1	Solitary	0.0617	81.49	20.00	150.00	13,200

\* Background PM<sub>10</sub> level of 20.00 µg/m<sup>3</sup> from haul roads and stockpiles

At Quarry 54 (021-0072) and Quarry 1 (049-0004), the portable plant can operate for twenty-four (24) hours without violating the NAAQS for PM<sub>10</sub>. Therefore, no record keeping is necessary to ensure compliance. At all other quarries, Attachment A, or equivalent form(s), shall be used to ensure compliance with NAAQS for PM<sub>10</sub>.

Ambient air quality modeling was performed to determine the ambient impact of Nitrogen Oxides (NO<sub>x</sub>) using screen view, the interface for EPA Screen 3 Modeling. The ambient air quality modeling was performed at the distance where the maximum concentration occurs. The results show that all sites will be in compliance with NAAQS for NO<sub>x</sub> at any distance.

**Table 4: Ambient Air Quality Impact Analysis of NO<sub>x</sub>**

Pollutant	Modeled Impact (µg/m <sup>3</sup> )	NAAQS (µg/m <sup>3</sup> )	Time Period
NOx	92.84	100.00	Annual

The following stack parameters were used in the NO<sub>x</sub> ambient impact analysis.

**Table 5: Stack Paramters**

Source	Height (ft)	Inside Diameter (ft)	Flowrate (ACFM)	Exit Temperature (K)
900 hp Diesel Engine	14	0.67	4204	786
600 hp Diesel Engine	10	0.50	1900	766

## **APPLICABLE REQUIREMENTS**

The owner is subject to compliance with the following applicable requirements. The Missouri Air Conservation Laws and Regulations should be consulted for specific record keeping, monitoring, and reporting requirements.

- *Submission of Emission Data, Emission Fees and Process Information, 10 CSR 10-6.110*

- *Operating Permits*, 10 CSR 10-6.065
- No Operating Permit is required for this portable rock crushing plant.
- If this portable rock crushing plant remains at the initial site reviewed in this permit longer than 24 consecutive months, then the owner shall submit an Operating Permit Application. The Air Pollution Control Program must receive this application no later than 30 days after the exceedance of 24 months.
- *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 10-3.090
- *Restriction of Emission of Particulate Matter From Industrial Processes*, 10 CSR 10-6.400
- *Restriction of Emission of Sulfur Compounds*, 10 CSR 10-6.260
- 40 CFR Part 60 Subpart "OOO", *Standards of Performance for Nonmetallic Mineral Processing Plants*, of the New Source Performance Standards (NSPS)
- The National Emission Standards for Hazardous Air Pollutants (NESHAPs) and the currently promulgated Maximum Achievable Control Technology (MACT) regulations do not apply to the proposed equipment.

## **STAFF RECOMMENDATION**

On the basis of this review conducted in accordance with Section (6), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*, I recommend this permit be granted with special conditions.

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Chia-Wei Young  
Environmental Engineer

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Date

## **PERMIT DOCUMENTS**

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, designating Everett Quarries Company, Inc. as the owner and operator of the installation
- Environmental Protection Agency (EPA) AP-42, *Compilation of Air Pollutant Emission Factors; Volume I, Stationary Point and Area Sources, Fifth Edition*
- Noyes Data Corp. book, Orlemann, et al. 1983, *Fugitive Dust Control*
- EPA Factor Information Retrieval (FIRE) Version 6.21
- Spreadsheet calculations of potential-to-emit and ambient impact
- Kansas City Regional Office Site Survey
- Best Management Practices





## Attachment AA: Best Management Practices (BMPs)- Construction Industry Fugitive Emissions

Construction Industry Sites covered by the Interim Relief Policy shall maintain Best Management Control Practices (BMPs) for fugitive emission areas at their installations when in operation. Options for BMPs are at least one of the following:

### For Haul Roads:

1. Pavement of Road Surfaces –
  - A. The operator(s) may pave all or any portion of the haul roads with materials such as asphalt, concrete, and/or other material(s) after receiving approval from the program. The pavement will be applied in accordance with industry standards for such pavement so as to achieve “Control of Fugitive Emissions<sup>1</sup>” while the plant is operating.
  - B. Maintenance and/or repair of the road surface will be conducted as necessary to ensure that the physical integrity of the pavement is adequate to achieve control of fugitive emissions from these areas while the plant is operating.
  - C. The operator(s) shall periodically water, wash and/or otherwise clean all of the paved portions of the haul road(s) as necessary to achieve control of fugitive emissions from these areas while the plant is operating.
  
2. Usage of Chemical Dust Suppressants –
  - A. The operator(s) shall apply a chemical dust suppressant (such as magnesium chloride, calcium chloride, lignosulfonates, etc.) to all the unpaved portions of the haul roads. The suppressant will be applied in accordance with the manufacturer’s suggested application rate (if available) and re-applied as necessary to achieve control of fugitive emissions from these areas while the plant is operating.
  - B. The quantities of the chemical dust suppressant shall be applied, re-applied and/or maintained sufficient to achieve control of fugitive emissions from these areas while the plant is operating.
  - C. The operator(s) shall record the time, date and the amount of material applied for each application of the chemical dust suppressant agent on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.
  
3. Usage of Documented Watering –
  - A. The operator(s) shall control the fugitive emissions from all the unpaved portions of the haul roads at the installation by consistently and correctly using the application of a water spray. Documented watering will be applied in accordance with a recommended application rate of 100 gallons per day per 1,000 square feet of unpaved/untreated surface area of haul roads as necessary to achieve control of fugitive emissions from these areas while the plant is operating. For example, the operator(s) shall calculate the total square feet of unpaved vehicle activity area requiring control on any particular day, divide that product by 1,000, and multiply the quotient by 100 gallons for that day.
  - B. The operator(s) shall maintain a log that documents daily water applications. This log shall include, but is not limited to, date and volumes (e.g., number of tanker applications and/or total gallons used) of water application. The log shall also record rationale for not applying water on day(s) the plant is in operation (e.g., meteorological situations, precipitation events, freezing, etc.)
  - C. Meteorological precipitation of any kind, (e.g. a quarter inch or more rainfall, sleet, snow, and/or freeze thaw conditions) which is sufficient in the amount or condition to achieve control of fugitive emissions from these areas while the plant is operating.
  - D. Watering may also be suspended when the ground is frozen, during periods of freezing conditions when watering would be inadvisable for traffic safety reasons, or when there will be no traffic on the roads. The operator(s) shall record a brief description of such events in the same log as the documented watering.
  - E. The operator(s) shall record the date and the amount of water applied for each application on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.

<sup>1</sup> For purposes of this document, Control of Fugitive Emissions means to control particulate matter that is not collected by a capture system and visible emissions to the extent necessary to prevent violations of the air pollution law or regulation. (Note: control of visible emission is not the only factor to consider in protection of ambient air quality.)

**For Vehicle Activity Areas around Open Storage Piles:**

1. Pavement of Stockpile Vehicle Activity Surfaces –
  - A. The operator(s) may pave all or any portion of the vehicle activity areas around the storage piles with materials such as asphalt, concrete, and/or other material(s) after receiving approval from the program. The pavement will be applied in accordance with industry standards for such pavement so as to achieve control of fugitive emissions while the plant is operating.
  - B. Maintenance and/or repair of the road surface will be conducted as necessary to ensure that the physical integrity of the pavement is adequate to achieve control of fugitive emissions from these areas while the plant is operating.
  - C. The operator(s) shall periodically water, wash and/or otherwise clean all of the paved portions of the vehicle activity areas around the storage piles as necessary to achieve control of fugitive emissions from these areas while the plant is operating.
  
2. Usage of Chemical Dust Suppressants –
  - A. The operator(s) shall apply a chemical dust suppressant (such as magnesium chloride, calcium chloride, lignosulfonates, etc.) to all the vehicle activity areas around the open storage piles. The suppressant will be applied in accordance with the manufacturer's suggested application rate (if available) and re-applied as necessary to achieve control of fugitive emissions from these areas while the plant is operating.
  - B. The quantities of the chemical dust suppressant shall be applied, re-applied and/or maintained sufficient to achieve control of fugitive emissions from these areas while the plant is operating.
  - C. The operator(s) shall record the time, date and the amount of material applied for each application of the chemical dust suppressant agent on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.
  
3. Usage of Documented Watering –
  - A. The operator(s) shall control the fugitive emissions from all the vehicle activity areas around the storage piles at the installation by consistently and correctly using the application of a water spray. Documented watering will be applied in accordance with a recommended application rate of 100 gallons per day per 1,000 square feet of unpaved/untreated surface area of vehicle activity areas around the storage piles as necessary to achieve control of fugitive emissions from these areas while the plant is operating. (Refer to example for documented watering of haul roads.)
  - B. The operator(s) shall maintain a log that documents daily water applications. This log shall include, but is not limited to, date and volumes (e.g., number of tanker applications and/or total gallons used) of water application. The log shall also record rationale for not applying water on day(s) the plant is in operations (e.g., meteorological situations, precipitation events, freezing, etc.)
  - C. Meteorological precipitation of any kind, (e.g. a quarter inch or more rainfall, sleet, snow, and/or freeze thaw conditions) which is sufficient in the amount or condition to achieve control of fugitive emissions from these areas while the plant is operating.
  - D. Watering may also be suspended when the ground is frozen, during periods of freezing conditions when watering would be inadvisable for traffic safety reasons, or when there will be no traffic on the roads. The operator(s) shall record a brief description of such events in the same log as the documented watering.
  - E. The operator(s) shall record the date and the amount of water applied for each application on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.

Mr. Terry Dickerson  
General Manager  
Everett Quarries Company, Inc.  
P.O. Box 276  
Plattsburg, MO 64477

RE: New Source Review Permit - Project Number: 2008-07-048

Dear Mr. Dickerson:

Enclosed with this letter is your New Source Review permit. Please review your permit carefully and note the special conditions, if any, and the requirements in your permit.

Operation in accordance with the conditions and requirements in your permit and the New Source Review application submitted for project 2008-07-04 is necessary for continued compliance. The section of the permit entitled "Technical Review of Application for Authority to Construct" should not be separated from the main portion of your permit. The entire permit must be retained in your files. The reverse side of your permit certificate has important information concerning standard permit conditions and your rights and obligations under the laws and regulations of the State of Missouri.

If you have any questions regarding this permit, please do not hesitate to contact Chai-Wei Young at the departments' Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102, or by telephone at (573) 751-4817. Thank you for your time and attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Kendall B Hale, P.E.  
New Source Review Unit Chief

KBH:cwyk

Enclosures

c: Kansas City Regional Office  
PAMS File: 2008-07-048

Permit Number: