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: 032007-002
Project Number: 2006-12-001
141-0020
Owner: Fischer Materials
Owner's Address: P.O. Box 379, Gravois Mills, MO 65037
Installation Name: Fischer Materials
Installation Address: Highway 5 and Highway TT Junction, Gravois Mills, MO 65037
Location Information: Morgan County, S8/17, T41N, R17W

Application for Authority to Construct was made for:

The modification of an existing grandfathered rock-crushing/washing/screening plant. The installation consists of two (2) separate operations: A rock-crushing operation and a sand and gravel washing and screening operation. The installation is adding new equipment to the rock-crushing operation and using Best Management Practices to control fugitive emissions from haul roads and storage piles. The rock-crushing operation has a maximum hourly design rate (MHDR) of 250 tons per hour (tph). The sand and gravel operation has an MHDR of 150 tph. This review was conducted in accordance with Section (5), Missouri State Rule 10 CSR 10-6.060, Construction Permits Required.

☐ Standard Conditions (on reverse) are applicable to this permit.
☐ Standard Conditions (on reverse) and Special Conditions (listed as attachments starting on page 2) are applicable to this permit.

MAR - 3 2007

EFFECTIVE DATE

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. Specifically, all air contaminant control devices shall be operated and maintained as specified in the application, associated plans and specifications.

You must notify the 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 as provided in RSMo 643.075. If you choose to appeal, the Air Pollution Control Program must receive your written declaration within 30 days of receipt of this permit.

If you choose not to appeal, this certificate, the project review, 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 Department of Natural Resources has established the Outreach and Assistance Center to help in completing future applications or fielding complaints about the permitting process. You are invited to contact them at 1-800-361-4827 or (573) 526-6627, or in writing addressed to Outreach and Assistance Center, P.O. Box 176, Jefferson City, MO 65102-0176.

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 Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102-0176, attention Construction Permit Unit.
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. Best Management Practices
Fischer Materials 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$_{10}$)
A. The operator(s) for Fischer Materials’s rock-crushing/washing/screening plant (141-0020) shall ensure, while operating at this site, that the ambient impact of PM$_{10}$ at or beyond the nearest property boundary does not exceed 150 µg/m$^3$ in any 24-hour period, in accordance with the Federal NAAQS requirements (40 CFR 50.6).
B. The rock-crushing/washing/screening plant is permitted to operate under four (4) separate scenarios: Solitary, concurrent (same owner), concurrent (separate owner), and concurrent (same and separate owner) operations. The total daily ambient impact of PM$_{10}$ at this site shall include the combined impact of the rock-crushing/washing/screening plant and any ambient background concentration from installations or equipment located on the same site as the rock-crushing/washing/screening plant.
C. To demonstrate compliance, the operator(s) shall maintain a daily record of material processed
1. During solitary and concurrent (same owner) operations, use Attachment A, Daily Ambient PM$_{10}$ Impact Tracking Record,
2. During concurrent (separate owner) and concurrent (same and separate owner) operations, use Attachment B, Daily Ambient PM$_{10}$ Impact Tracking Record, or other equivalent form(s).

3. Annual Emission Limit of Particulate Matter Less Than Ten Microns in Diameter (PM$_{10}$)
A. The operator(s) shall ensure that Fischer Materials’s rock-crushing/washing/screening plant emits less than 15 tons of PM$_{10}$ into the atmosphere in any 12-month period.
B. To demonstrate compliance, the operator(s) shall maintain a daily record of material processed and PM$_{10}$. Attachment C, Monthly PM$_{10}$ Emissions Tracking Record, or other equivalent form(s), will be used for this purpose.

4. Annual Emission Limit of Nitrogen Oxides (NOx)
A. The operator(s) shall ensure that Fischer Materials’s rock-crushing/washing/screening plant emits less than 40 tons of NOx into the atmosphere in any 12-month period.
B. To demonstrate compliance, the operator(s) shall maintain a daily record of material processed and PM$_{10}$. Attachment D, Monthly PM$_{10}$ Emissions Tracking Record, or other equivalent form(s), will be used for this purpose.

5. Moisture Content Testing Requirement for Inherent Moisture Content
A. The inherent moisture content of the rock will reduce particulate emissions. Fischer Materials 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 for three consecutive years during the months of June through September, while the rock-crushing/washing/screening plant is active at this site. If the test results have been consistently greater than 1.5 wt% and there is no reported emission exceedances from the
SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

plant, then no further testing is required and this site shall be deemed to have met this condition on all
subsequent permits. Verification of the results will be performed during a routine inspection. If the
test results have been less than 1.5 wt% and/or there is substantial change in the emissions from the
plant, then Fischer Materials shall apply for a new construction permit to account for the revised
information or operate a wet suppression system capable of maintaining visible emissions standards
for each unit within 30 days.

C. The operators shall obtain test samples from both the rock-crushing operation and the sand and
gravel operation. The samples from the rock-crushing operation shall be obtained before the primary
 crusher and before load-in to storage piles. The samples from the sand & gravel operation shall be
obtained before load-in to storage piles. During the sample processing run only, any spray devices
shall be turned off during the processing from which test samples are obtained (except spray devices
used for the wash screen, EP-3A). 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 filed onsite
with the plant or at the main corporate office.

A. Fischer Materials shall submit the enclosed testing plan to the Enforcement section of the Air
Pollution Control Program for all equipment applicable to NSPS Subpart “OOO”. Fischer Materials
shall contact the Enforcement section to obtain all requirements for testing, and the plan must be
submitted to the Enforcement section at least 30 days prior to the proposed test date.
B. Testing must be performed no later than 60 days after achieving the maximum production rate of the
process, and in any case no later than 180 days after initial startup. The performance test results
shall be submitted to the Enforcement section no later than 30 days after completion of any required
testing.

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). Fischer Materials has designated the following unit(s) as the primary emission point(s) of
the rock-crushing/washing/screening plant: Primary crusher for the rock-crushing operation (EP-4E) and
wash screen for the sand and gravel operation (EP-5C). 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 rock-crushing operation, which is the primary crusher (EP-4E), and the
primary emission point of the sand and gravel operation, which is the wash screen (EP-5C), shall be
located at least 300 feet from the nearest property boundary whenever they are operating at this site.

9. Restriction on the Use of Diesel Engines/Generators
The rock-crushing operation and sand and gravel operation shall only operate its diesel engines/generators
during warm-up times before production and while powering equipment during production.

10. 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.

11. Reporting Requirement
The operator(s) shall report to the Air Pollution Control Program 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.

12. Superseding Condition
The conditions of this permit supersede all special conditions found in the previously issued construction
permit(s) (1198-013, 052000-012, 062001-012, 092002-013) from the Air Pollution Control Program.
TECHNICAL REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT

INSTALLATION DESCRIPTION

The installation is a grandfathered installation consisting of two separate operations: A rock-crushing operation and a sand and gravel washing/screening operation. Both operations are powered with diesel engines. The emission points are listed in the attached spreadsheet summary. This installation is not on the List of Named Installations [10 CSR 10-6.020(3)(B), Table 2]. The installation is located in Morgan County, an attainment area for all criteria air pollutants.

The installation is permitted to operate under four (4) separate scenarios:

- Solitary Operation: Operation by itself at the site.
- Concurrent (Same Owner) Operations: Operation when other plants owned by Fischer Materials are located at the site.
- Concurrent (Separate Owner) Operations: Operation when other plants owned by other companies are located at the site.
- Concurrent (Same and Separate Owner) Operations: Operation when other plants owned by Fischer Materials and other plants owned by other companies are located at this site.

The plants operating at this site must be asphalt, concrete, rock-crushing, rock-washing, or rock-screening plants.

Table 1. Other Permits Issued for Site 141-0020

<table>
<thead>
<tr>
<th>Permit Number</th>
<th>Completed</th>
<th>Description</th>
</tr>
</thead>
</table>

No Notices of Violations (NOVs) have been issued to the plant in the past five (5) years.

PROJECT DESCRIPTION

The installation is proposing to add the following equipment to the rock-crushing operation: One Extec Model C-10 jaw crusher, rated at 250 tons per hour, with an attached grizzly feeder, two (2) conveyors and an 160 hp diesel engine, and one Extec double deck screen with five conveyors and a 90 hp diesel engine. The installation is proposing to use Best Management Practices (BMPs) to control fugitive emissions from haul roads and storage piles. This permit is written for the entire installation. All previous permits (1198-013, 052000-012, 062001-012, 092002-013) issue to this plant are superseded.

EMISSIONS EVALUATION

Criteria air pollutants will be emitted from this operation. The main air pollutants of concern are PM$_{10}$ and NOx. 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". The installation voluntarily requested to limit all criteria pollutants under *de minimis* levels so the permit can be issued under section (5) of 10 CSR 10-6.060, *Construction Permits Required*.

The rock-crushing/screening/washing plant has an annual emission limit of less than 15 tons of PM$_{10}$ and 40 tons of NOx in any 12-month period. Composite PM$_{10}$ and NOx emission factors were developed for the rock-crushing operation and the sand and gravel operation. The composite PM$_{10}$ emission factors are incorporated into the monthly record keeping table, Attachment C, and the composite NOx emission factors are incorporated into the monthly record keeping table, Attachment D.
**Table 2: Emissions Summary (tons per year)**

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<thead>
<tr>
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<tr>
<td>PM$_{10}$</td>
<td>15.0</td>
<td>84.47</td>
<td>3.11</td>
<td>43.03 &lt;15</td>
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</tr>
<tr>
<td>SO$_x$</td>
<td>40.0</td>
<td>3.90</td>
<td>0.15</td>
<td>8.31 2.63</td>
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<td>NO$_x$</td>
<td>40.0</td>
<td>58.87</td>
<td>2.25</td>
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<td>VOC</td>
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<td>4.79</td>
<td>0.18</td>
<td>10.31 3.27</td>
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<td>CO</td>
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<td>0.48</td>
<td>27.23 8.62</td>
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</tr>
<tr>
<td>HAPs</td>
<td>10.0/25.0</td>
<td>0.01</td>
<td>N/A</td>
<td>0.11 0.04</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Note: N/A = Not Applicable

* Existing potential emissions taken from permit # 092002-013

** PM$_{10}$ and NO$_x$ Conditioned potential based on limit in permit conditions. Other pollutants proportionally reduced based on NO$_x$ conditioned potential.

***PM$_{10}$ emission factor 0.02662 lbs/ton from crushing operation and 0.2114 lbs/ton from sand and gravel operation. NO$_x$ emission factor 0.0834 lbs/ton from crushing operation and 0.0534 lbs/ton from sand and gravel operation.

**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 was evaluated at a distance of 300 feet to the nearest property boundary. The ambient impact at this site shall not exceed the National Ambient Air Quality Standard (NAAQS) of 150 µg/m$^3$ of PM$_{10}$ at or beyond the nearest property boundary in any single 24-hour period. 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$^3$ of PM$_{10}$. To ensure conformity with NAAQS, the remaining process emissions are limited to an impact of less than 130 µg/m$^3$ of PM$_{10}$ at or beyond the nearest property boundary.

The screening tools were used to develop an ambient impact factor for the rock-crushing operation and an ambient impact factor for the sand and gravel operation. The ambient impact factors are incorporated into the daily record keeping tables, Attachment A and B.

**Table 3: Ambient Air Quality Impact Analysis of PM$_{10}$, 24-Hour Averaging Time**

<table>
<thead>
<tr>
<th>Operation</th>
<th>Ambient Impact Factor (µg/m$^3$/ton)</th>
<th>Modeled Impact (µg/m$^3$)</th>
<th>*Background (µg/m$^3$)</th>
<th>NAAQS (µg/m$^3$)</th>
<th>Daily Production Limit (tons)</th>
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</thead>
<tbody>
<tr>
<td>1. Solitary Rock-Crushing Sand and Gravel</td>
<td>0.04076 0.03741</td>
<td>**</td>
<td>20.00</td>
<td>150.00</td>
<td>**</td>
</tr>
<tr>
<td>2. Concurrent, Same Owner Rock-Crushing Sand and Gravel</td>
<td>0.04076 0.03741</td>
<td>***</td>
<td>20.00</td>
<td>150.00</td>
<td>***</td>
</tr>
<tr>
<td>3. Concurrent, Separate Owner Rock-Crushing Sand and Gravel</td>
<td>0.03348 0.03500</td>
<td>**</td>
<td>67.11</td>
<td>150.00</td>
<td>**</td>
</tr>
<tr>
<td>4. Concurrent, Separate Owners Rock-Crushing Sand and Gravel</td>
<td>0.03348 0.03500</td>
<td>***</td>
<td>67.11</td>
<td>150.00</td>
<td>***</td>
</tr>
</tbody>
</table>

* Background PM$_{10}$ level of 20.00 µg/m$^3$ from haul roads and stockpiles and 47.11 µg/m$^3$ from the operation of asphalt, concrete, rock-crushing/screening/washing plants owned by other companies.

** The operator(s) must balance production between the rock-crushing and sand and gravel operations, with the ambient impact factors for each, such that NAAQS is not exceeded.

*** The operator(s) must balance production between the rock-crushing operation, the sand and gravel operation, and other concurrently operating plants, with the ambient impact factors for each, such that NAAQS is not exceeded.
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
- An operating permit amendment is required for this installation within 30 days of equipment startup.
- 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
- 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 (5), Missouri State Rule 10 CSR 10-6.060, Construction Permits Required, I recommend this permit be granted with special conditions.

Chia-Wei Young
Environmental Engineer

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, designating Fischer Materials 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.
- Spreadsheet calculations of potential-to-emit and ambient impact.
- Southwest Regional Office Site Survey.
- Best Management Practices.
Attachment A: Daily Ambient PM$_{10}$ Impact Tracking Record
Fischer Materials, 141-0020 – Rock-Crushing/Washing/Screening Plant
Solitary and Concurrent (Same Owner) Operations

Project Number: 2006-12-001
County, CSTR: Morgan County (S8/17, T41N, R17W)
Primary Unit Size: 250 tph
Distance to Nearest Property Boundary: 300 feet

This sheet covers the period from ________________ to ________________ (Month, Day, Year)  
(Copy this sheet as needed.)

<table>
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<tr>
<th>Date</th>
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<th>Fischer Materials, 141-0020</th>
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<tr>
<th>Daily Production (tons)</th>
<th>Ambient Impact Factor (µg/m$^3$/ton)</th>
<th>¹Daily PM$_{10}$ Impact (µg/m$^3$)</th>
<th>Daily Production (tons)</th>
<th>Ambient Impact Factor (µg/m$^3$/ton)</th>
<th>¹Daily PM$_{10}$ Impact (µg/m$^3$)</th>
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</tbody>
</table>

Note 1: The Daily PM$_{10}$ Impact (µg/m$^3$) for each operation is calculated by multiplying the Daily Production (tons) by the matching Ambient Impact Factor.

Note 2: The Daily PM$_{10}$ Impact (µg/m$^3$) for other plants owned by Fischer Materials can be obtained from the operator(s) of these plant(s). If there are no other Fischer Materials plants at the site, a value of zero (0) should be entered.

Note 3: Background PM$_{10}$ Level (µg/m$^3$) is from Haul Roads and Stockpiles.

Note 4: The TOTAL PM$_{10}$ Level (µg/m$^3$) is calculated by summing the Daily PM$_{10}$ Ambient Impact(s) of each plant and the Background PM$_{10}$ Level. A TOTAL PM$_{10}$ Level of less than 150 µg/m$^3$ in any 24-hour period indicates compliance.
**Attachment B: Daily Ambient PM$\text{_{10}}$ Impact Tracking Record**

**Fischer Materials, 141-0020 – Rock-Crushing/Washing/Screening Plant**

Concurrent (Separate Owners) and Concurrent (Same and Separate Owner) Operations

Project Number: 2006-12-001  
County, CSTR: Morgan County (S8/17, T41N, R17W)  
Primary Unit Size: 250 tph  
Distance to Nearest Property Boundary: 300 feet

This sheet covers the period from ____________________ to ____________________ (Month, Day, Year)  
(Copy this sheet as needed.)

| Date | Fischer Materials, 141-0020  
Crushing Operations  
Project # 2006-12-001 | Fischer Materials, 141-0020  
Sand and Gravel Operation  
Project #2006-12-001 | Plant Name:  
Plant ID:  
Permit #: | Plant Name:  
Plant ID:  
Permit #: | ²Daily PM$\text{_{10}}$ Impact (µg/m$^3$) | ³TOTAL PM$\text{_{10}}$ Level (µg/m$^3$) |
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Note 1: The Daily PM$\text{_{10}}$ Impact (µg/m$^3$) for each operation is calculated by multiplying the Daily Production (tons) by the matching Ambient Impact Factor.

Note 2: The Daily PM$\text{_{10}}$ Impact (µg/m$^3$) for other plants owned by Fischer Materials can be obtained from the operator(s) of these plant(s). If there are no other Fischer Materials plants at the site, a value of zero (0) should be entered.

Note 3: Background PM$\text{_{10}}$ Level (µg/m$^3$) is from Haul Roads and Stockpiles and the operation of asphalt, concrete, and rock-crushing/screening/washing plants owned by other companies.

Note 4: The TOTAL PM$\text{_{10}}$ Level (µg/m$^3$) is calculated by summing the Daily PM$\text{_{10}}$ Ambient Impact(s) of each plant and the Background PM$\text{_{10}}$ Level. A TOTAL PM$\text{_{10}}$ Level of less than 150 µg/m$^3$ in any 24-hour period indicates compliance.
### Attachment C: Monthly PM$_{10}$ Emissions Tracking Record

**Fischer Materials, 141-0020 – Rock-Crushing/Washing/Screening Plant**

**Project Number:** 2006-12-001  
**County, CSTR:** Morgan County (S8/17, T41N, R17W)  
**Primary Unit Size:** 250 tph  
**Distance to Nearest Property Boundary:** 300 feet

This sheet covers the period from _______________ to _______________ (Month, Day, Year)  
(Copy this sheet as needed.)

<table>
<thead>
<tr>
<th>Month</th>
<th>Fischer Materials, 141-0020 Crushing Operations Project # 2006-12-001</th>
<th>Fischer Materials, 141-0020 Sand and Gravel Operation Project #2006-12-001</th>
<th>3 Total Monthly PM$_{10}$ Emissions (tons)</th>
<th>12-Month PM$_{10}$ Emissions (tons)</th>
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<tr>
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<td>Monthly Production (tons)</td>
<td>PM$_{10}$ Emission Factor (lbs/ton)</td>
<td>Monthly PM$_{10}$ Emissions (tons)</td>
<td>Monthly Production (tons)</td>
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**Note 1:** The Monthly Emissions (lbs) for each operation are calculated by multiplying the Monthly Production (tons) by the Composite Emission Factor (lbs/ton).

**Note 2:** The Monthly Emissions (tons) are calculated by dividing the Monthly Emissions (lbs) by 2,000.

**Note 3:** The Total Monthly Emissions (tons) are calculated by adding the Monthly Emissions (tons) from each operation.

**Note 4:** The 12-Month Emissions (tons/year) are a rolling total calculated by adding the Month’s Total Emissions (tons) to the Total Monthly Emissions (tons) of the previous eleven (11) months. A total of less than 15 tons in any consecutive 12-month period indicates compliance.
Attachment D: Monthly NOx Emissions Tracking Record
Fischer Materials, 141-0020 – Rock-Crushing/Washing/Screening Plant

Project Number: 2006-12-001
County, CSTR: Morgan County (S8/17, T41N, R17W)
Primary Unit Size: 250 tph
Distance to Nearest Property Boundary: 300 feet

This sheet covers the period from _________________ to _________________ (Month, Day, Year)  (Copy this sheet as needed.)

<table>
<thead>
<tr>
<th>Month</th>
<th>Fischer Materials, 141-0020 Crushing Operations Project # 2006-12-001</th>
<th>Fischer Materials, 141-0020 Sand and Gravel Operation Project #2006-12-001</th>
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<tbody>
<tr>
<td></td>
<td>Monthly NOx Emission Factor (lbs/ton)</td>
<td>Composite NOx Emission Factor (lbs/ton)</td>
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Note 1: The Monthly Emissions (lbs) for each operation are calculated by multiplying the Monthly Production (tons) by the Composite Emission Factor (lbs/ton).
Note 2: The Monthly Emissions (tons) are calculated by dividing the Monthly Emissions (lbs) by 2,000.
Note 3: The Total Monthly Emissions (tons) are calculated by adding the Monthly Emissions (tons) from each operation.
Note 4: The 12-Month Emissions (tons/year) are a rolling total calculated by adding the Month’s Total Emissions (tons) to the Total Monthly Emissions (tons) of the previous eleven (11) months. A total of less than 40 tons in any consecutive 12-month period indicates compliance.
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”\(^1\) 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.

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1. 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. John Fischer  
President  
Fischer Materials  
P.O. Box 379  
Gravois Mills, MO 65037

RE: New Source Review Permit - Project Number: 2006-12-001

Dear Mr. Fischer:

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, the New Source Review application submitted for project 2006-12-001, and your amended operating permit, if required, is necessary for continued compliance. Please review your amended operating permit, as it will contain all applicable requirements for your rock-crushing/washing/screening plant, including any special conditions from your New Source Review permit.

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 me at (573) 751-4817, or you may write to the Department of Natural Resources’ Air Pollution Control Program, P.O. Box 176, Jefferson City, Missouri 65102. Thank you for your attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

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

KH:ewyl

Enclosures

c: Southwest Regional Office  
PAMS File: 2006-12-001  
Permit Number: