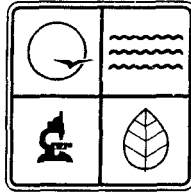


STATE OF MISSOURI  
DEPARTMENT OF NATURAL RESOURCES

PERMIT BOOK

MISSOURI AIR CONSERVATION COMMISSION



## PERMIT TO CONSTRUCT

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to construct the air contaminant source(s) described below, in accordance with the laws, rules and conditions as set forth herein.

Permit Number: **01 2006 - 008** Project Number: 2005-08-045  
Owner: Fred Weber Inc. 187-0006  
Owner's Address: 2320 Creve Coeur Mill Rd., Maryland Heights, MO 63043  
Installation Name: Iron Mountain Trap Rock Co.  
Installation Address: 326 Highway W, Iron Mountain, MO 63650  
Location Information: St. Francois County, S30, 31, T35N, R4E

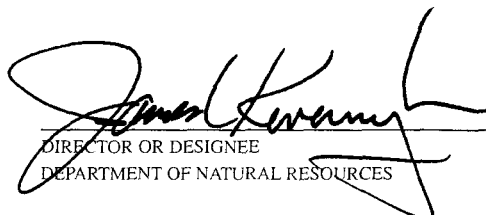
Application for Authority to Construct was made for:

The modification of an existing rock crushing plant. Rock is processed through 4 crusher(s), 4 screen(s) and 17 conveyor(s). The rock crushing plant has a maximum hourly design rate (MHDR) of 500 tons per hour (tph). Best Management Practices will be used to control fugitive emissions from storage piles and haul roads. This review was conducted in accordance with Section (6), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*.

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

JAN 11 2006

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.

|             |             |
|-------------|-------------|
| Page No.    | 2           |
| Permit No.  |             |
| Project No. | 2005-08-045 |

**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. **Best Management Practices**  
Iron Mountain Trap Rock Co. 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 Iron Mountain Trap Rock Co.'s rock crushing plant (187-0006) 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 Iron Mountain Trap Rock Co.'s rock crushing plant emits less than 50 tons of PM<sub>10</sub> 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<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. **Prohibition Against Concurrent Operations Without Further APCP Review**  
The rock crushing plant (187-0006) is prohibited from operating whenever any other plant(s) are located at this site.
5. **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). Iron Mountain Trap Rock Co. has designated the following unit(s) as the primary emission point(s) of the rock crushing plant: primary crusher (EP105). Bypassing the primary emission point(s) for processing is prohibited.
6. **Restriction on Minimum Distance to Nearest Property Boundary**  
The primary emission point of the rock crushing plant, which is the primary crusher (EP105), shall be located at least 2,000 feet from the nearest property boundary whenever it is operating at this site.
7. **Performance Testing for New Source Performance Standards (NSPS)**
  - A. Iron Mountain Trap Rock Co. shall submit the enclosed testing plan to the Enforcement section of the Air Pollution Control Program for all equipment applicable to NSPS Subpart "OOO". Iron Mountain Trap Rock Co 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.

|             |             |
|-------------|-------------|
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| Permit No.  |             |
| Project No. | 2005-08-045 |

**SPECIAL CONDITIONS:**

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

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8. 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 immediately to any Missouri Department of Natural Resources' personnel upon request.
9. 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.
10. Superseding Condition  
The conditions of this permit supersede all special conditions found in the previously issued construction permit(s) (Permit # 072001-014) and all of the associated amendments and relocations of these permits and its amendments.

# TECHNICAL REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT

## PROJECT DESCRIPTION

The installation is adding the following equipment to their existing facility a screen: cone crusher, field conveyor and stacker. Rock, composed of non-metallic minerals, is drilled/blasted, loaded into haul trucks, and transported to processing. Rock is processed through feeder(s), crusher(s), screen(s), conveyor(s), and bin(s). The installation requested to be modeled using Best Management Practices. Processing equipment is line powered. 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 St. Francois County, an attainment area for all criteria air pollutants.

**Table 1. Other Permits Issued for Site 187-0006**

| Permit Number | Completed  | Description                  |
|---------------|------------|------------------------------|
| 072001-014    | 07-16-2001 | Minor source under Section 6 |

## 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). None of the equipment is controlled except the washing plants.

The rock crushing plant has an annual emission limit of less than 50 tons of PM<sub>10</sub> in any 12-month period. A composite PM<sub>10</sub> emission factor was developed for the 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.

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

| Air Pollutant    | Regulatory De Minimis Levels | *Existing Potential Emissions | Existing Actual Emissions (year EIQ) | Potential Emissions of the Application | ** Installation Conditioned Potential | Emission Factor (lb/ton) |
|------------------|------------------------------|-------------------------------|--------------------------------------|--|---------------------------------------|--------------------------|
| PM <sub>10</sub> | 15.0                         | 191.90                        | 19.72                                | 274.73                                 | <50                                   | 0.1254                   |
| SO <sub>x</sub>  | 40.0                         | N/A                           | N/A                                  | N/A                                    | N/A                                   | N/A                      |
| NO <sub>x</sub>  | 40.0                         | N/A                           | N/A                                  | N/A                                    | N/A                                   | N/A                      |
| VOC              | 40.0                         | N/A                           | N/A                                  | N/A                                    | N/A                                   | N/A                      |
| CO               | 100.0                        | N/A                           | N/A                                  | N/A                                    | N/A                                   | N/A                      |
| HAPs             | 10.0/25.0                    | N/A                           | N/A                                  | N/A                                    | N/A                                   | N/A                      |

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

\* Existing potential emissions taken from permit # 072001-014

\*\* Conditioned potential based on daily production limit from ambient impact analysis.

## 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 2,000 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<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 an ambient impact factor for the rock crushing plant. This ambient impact factor is incorporated into the daily record keeping table, Attachment A.

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.

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

| 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) |
|-------------|---|-------------------------------------|----------------------------------|----------------------------|-------------------------------|
| 1. Solitary | 0.0209  | 130.00                              | 20.00                            | 150.00                     | 6,211                         |

\* Background PM10 level of 20.00 µg/m<sup>3</sup> from haul roads and stockpiles

**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 application 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
- 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.

\_\_\_\_\_  
 Samer Al-Shoukhi  
 Environmental Engineer

\_\_\_\_\_  
 Date

**PERMIT DOCUMENTS**

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, designating Fred Weber 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.
- Southeast Regional Office Site Survey.
- Best Management Practices.

**Attachment A: Daily Ambient PM<sub>10</sub> Impact Tracking Record  
Iron Mountain Trap Rock Co., 187-0006 – Rock Crushing Plant**

Project Number: 2005-08-045  
 County, CSTR: St. Francois County (S30, 31, 35N, 4E)  
 Primary Unit Size: 500 tph  
 Distance to Nearest Property Boundary: 2,000 feet

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

| Date | Iron Mountain Trap Rock Co.<br>187-0006<br>Project # 2005-08-045 |   |  | <sup>2</sup> Back-ground PM <sub>10</sub> Level<br>(μg/m <sup>3</sup> ) | <sup>3</sup> TOTAL PM <sub>10</sub> Level<br>(μg/m <sup>3</sup> ) |
|------|--|---|--|---|---|
|      | Daily Production<br>(tons)                                       | Ambient Impact Factor<br>(μg/m <sup>3</sup> /ton) | <sup>1</sup> Daily PM <sub>10</sub> Impact<br>(μg/m <sup>3</sup> ) |   |   |
|      |  | 0.0209  |  | 20.00   |   |
|      |  | 0.0209  |  | 20.00   |   |
|      |  | 0.0209  |  | 20.00   |   |
|      |  | 0.0209  |  | 20.00   |   |
|      |  | 0.0209  |  | 20.00   |   |
|      |  | 0.0209  |  | 20.00   |   |
|      |  | 0.0209  |  | 20.00   |   |
|      |  | 0.0209  |  | 20.00   |   |
|      |  | 0.0209  |  | 20.00   |   |
|      |  | 0.0209  |  | 20.00   |   |
|      |  | 0.0209  |  | 20.00   |   |
|      |  | 0.0209  |  | 20.00   |   |
|      |  | 0.0209  |  | 20.00   |   |
|      |  | 0.0209  |  | 20.00   |   |
|      |  | 0.0209  |  | 20.00   |   |
|      |  | 0.0209  |  | 20.00   |   |
|      |  | 0.0209  |  | 20.00   |   |
|      |  | 0.0209  |  | 20.00   |   |
|      |  | 0.0209  |  | 20.00   |   |

Note 1: The Daily PM<sub>10</sub> Impact (μg/m3) for each plant is calculated by multiplying the Daily Production (tons) by the matching Ambient Impact Factor.  
 Note 2: Background PM<sub>10</sub> Level (μg/m3) is from Haul Roads and Stockpiles.  
 Note 3: The TOTAL PM<sub>10</sub> Level (μg/m3) is calculated by summing the Daily PM<sub>10</sub> Ambient Impact(s) and the Background PM<sub>10</sub> Level. A TOTAL PM<sub>10</sub> Level of less than 150 μg/m3 in any 24-hour period indicates compliance.

**Attachment B: Monthly PM<sub>10</sub> Emissions Tracking Record  
Iron Mountain Trap Rock Co., 187-0006 – Rock Crushing Plant**

Project Number: 2005-08-045  
 County, CSTR: St. Francois County (S30, 31, 35N, 4E)  
 Primary Unit Size: 500 tph  
 Distance to Nearest Property Boundary: 2,000 feet

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

| Month | Monthly Production (tons) | Composite PM <sub>10</sub> Emission Factor (lbs/ton) | 1Monthly PM <sub>10</sub> Emissions (lbs) | 2Monthly PM <sub>10</sub> Emissions (tons) | 312-Month PM <sub>10</sub> Emissions (tons/year) |
|-------|---------------------------|--|---|--|--|
|       |                           | 0.1254   |   |  |  |
|       |                           | 0.1254   |   |  |  |
|       |                           | 0.1254   |   |  |  |
|       |                           | 0.1254   |   |  |  |
|       |                           | 0.1254   |   |  |  |
|       |                           | 0.1254   |   |  |  |
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|       |                           | 0.1254   |   |  |  |
|       |                           | 0.1254   |   |  |  |
|       |                           | 0.1254   |   |  |  |
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|       |                           | 0.1254   |   |  |  |
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|       |                           | 0.1254   |   |  |  |
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|       |                           | 0.1254   |   |  |  |
|       |                           | 0.1254   |   |  |  |
|       |                           | 0.1254   |   |  |  |
|       |                           | 0.1254   |   |  |  |
|       |                           | 0.1254   |   |  |  |
|       |                           | 0.1254   |   |  |  |

Note 1: The Monthly Emissions (lbs) 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 12-Month Emissions (tons/year) are a rolling total calculated by adding the Month's Emissions (tons) to the Monthly Emissions (tons) of the previous 11 months. A total of less than **50** 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<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.