STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI AIR CONSERVATION COMMISSION





PERMIT TO CONSTRUCT

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

Permit Number:

022006-004

Project Number:

2005-10-042 169-0038

Owner:

Freedom Ready Mix

Owner's Address:

P. O. Box 4007, Waynesville, MO 65583

Installation Name:

Freedom Ready Mix

Installation Address:

18502 Superior Road, Waynesville, MO 65583

Location Information:

Pulaski County, S31, T36N, R11W

Application for Authority to Construct was made for:

The installation of a new concrete plant. Concrete is produced through a Truck Mix process. The concrete plant has a maximum hourly design rate (MHDR) of 83.33 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 (5), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*.

| Ш | Standard | Conditions (| (on reverse) a | re applicable | to this pern | nit. | | | | |
|---|----------|-------------------------|----------------|---------------|--------------|---------|----------------|------------|--------|--------|
| | | Conditions to this perr | | and Special | Conditions | (listed | as attachments | starting o | n page | 2) are |
| | | | | | | | | | | |

FEB - 3 2006

DIRECTOR OR DESIGNEE

DEPARTMENT OF NATURAL RESOURCES

EFFECTIVE DATE

STANDARD CONDITIONS:

Permission to construct may be revoked if you fail to begin construction or modification within two years from the effective date of this permit. Permittee should notify the 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.

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|-------------|-------------|
| Permit No. | |
| Project No. | 2005-10-042 |

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.

- Best Management Practices (BMPs)
 Freedom Ready Mix's concrete plant (169-0038) shall control fugitive emissions from all of the haul roads
 and stockpiles at this site by performing BMPs, 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 (PM₁₀)
 - A. The operator(s) for Freedom Ready Mix's concrete plant (169-0038) shall ensure, while operating at this site, that the ambient impact of PM₁₀ at or beyond the nearest property boundary does not exceed 150 μg/m³ in any 24-hour period, in accordance with the Federal NAAQS requirements (40 CFR 50.6).
 - B. The total daily ambient impact of PM₁₀ at this site shall include the combined impact of the concrete plant and any ambient background concentration from installations or equipment located on the same site as the concrete plant.
 - C. To demonstrate compliance, the operator(s) shall maintain a daily record of material processed. Attachment A, *Daily Ambient PM*₁₀ *Impact Tracking Record*, or other equivalent form(s), will be used for this purpose.
- 3. Baghouse(s) Control System Requirements
 - A. Freedom Ready Mix's concrete plant (169-0038) shall install and operate baghouse(s) to restrict the emission of particulate matter. The baghouse(s) must be used whenever these units are in operation. The baghouse(s) shall be installed on the following units: Cement Unloading to Elevated Silo (EU3) and Cement Supplement Unloading to Silo (EU4).
 - B. Freedom Ready Mix's concrete plant (169-0038) shall install instruments to monitor the operating pressure drop across the baghouse. All instruments and control equipment shall be calibrated, maintained and operated according to the manufacturer's preventive maintenance recommendations. The operator(s) shall check and record the pressure drop across the baghouse filter once per operating day during silo loading. The baghouse operating pressure drop shall be maintained between 1" to 6" of water column.
 - C. The operator(s) shall conduct and document a quarterly inspection and maintenance of the baghouse for structural component failures, for leaks and wear, and for the cleaning sequence of the baghouse. Replacement bags shall be kept on hand at all times to replace defective bags. The bags shall be made of fibers appropriate for the operating conditions expected to occur. All inspections, corrective actions, and instrument calibrations shall be recorded.
- 4. Prohibition Against Concurrent Operations Without Further Air Pollution Control Program Review The concrete plant (169-0038) is prohibited from operating whenever any other plant(s) are located at this site, except for the following two (2) plants:
 - A. Mid County Sand & Gravel's rock-washing plant, 169-0035, (Project #2005-10-043).
 - B. Mid County Sand & Gravel's rock-crushing plant, 169-0035, (Project #2005-10-058).
- 5. Restriction on Minimum Distance to Nearest Property Boundary
 The primary emission point of the concrete plant, which is the Mixer Loading (EU8), shall be located at least
 425 feet from the nearest property boundary whenever it is operating at this site.

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|-------------|-------------|
| Permit No. | |
| Project No. | 2005-10-042 |

SPECIAL CONDITIONS:

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

6. Restriction on the Use of Diesel Engine(s)

The installation shall power the equipment using primary electrical power and not diesel engine(s). If the company decides to switch to diesel engine(s), a new permit review will be required.

7. 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.

8. 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.

TECHNICAL REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT

PROJECT DESCRIPTION

Concrete is composed of water, cement, sand (fine aggregate), and non-metallic course aggregate rock. These materials are processed in mixer trucks. Processed concrete is delivered as sellable product. Baghouses are installed to control emissions during cement unloading to the elevated silo and cement supplement (fly ash) unloading to the silo. 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 Pulaski County, an attainment area for all criteria air pollutants.

Superior Road runs through the property and is regarded as the nearest property boundary. The distance from the primary unit, which is the mixer loading (EU8), to Superior Road shall be no closer than 425 feet.

The concrete plant is permitted to operate with two (2) other plants at this site: Mid County Sand & Gravel's rockwashing plant, 169-0035, (Project #2005-10-043) and Mid County Sand & Gravel's rock-crushing plant, 169-0035, (Project #2005-10-058). This is a new plant, and no other permits have been issued in the past.

A Notice of Violation (NOV# 3170SE) was issued to the installation on October 27th, 2005, for construction and operation prior to receiving a construction permit from the Air Pollution Control Program in violation of 10 CSR 10-6.060, *Construction Permits Required*.

EMISSIONS EVALUATION

Criteria air pollutants will be emitted from this operation. The main air pollutant of concern is PM₁₀. 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 *de minimis* source under 10 CSR 10-6.060 section (5).

Table 2: Emissions Summary (tons per year)

| Air Pollutant | Regulatory De Minimis Levels | Existing Potential Emissions | Existing Actual Emissions (EIQ) | Potential Emissions of the Application | **New Installation Conditioned Potential | Emission Factor (lb/ton) |
|------------------|------------------------------------|------------------------------------|---------------------------------------|--|---|-----------------------------|
| PM ₁₀ | 15.0 | N/A | N/A | 28.93 | 14.46 | N/A |
| SOx | 40.0 | N/A | N/A | 9.02 | N/A | N/A |
| NOx | 40.0 | N/A | N/A | 2.51 | N/A | N/A |
| VOC | 40.0 | N/A | N/A | 0.04 | N/A | N/A |
| CO | 100.0 | N/A | N/A | 0.63 | N/A | N/A |
| HAPs | 10.0/25.0 | N/A | N/A | 0.01 | N/A | N/A |

Note: N/A = Not Applicable

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 425 feet to the nearest property boundary. The ambient impact at this site shall not exceed the National Ambient Air Quality Standard (NAAQS) of 150 μ g/m³ of PM₁₀ 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 concrete plant. This ambient impact factor is incorporated into the daily record keeping table, Attachment A. An ambient background level of PM₁₀ from the operation(s) of Mid County Sand & Gravel's rock-washing plant, 169-0035, (Project #2005-10-043) and Mid County Sand Gravel's rock-crushing plant, 169-0035, (Project #2005-10-058) is included in Attachment A.

^{**} Conditioned potential based on daily production limit from ambient impact analysis. Other pollutants proportionately reduced.

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 $20 \,\mu\text{g/m}^3$ of PM_{10} . To ensure conformity with NAAQS, the remaining process emissions are limited to an impact of less than $130 \,\mu\text{g/m}^3$ of PM_{10} at or beyond the nearest property boundary.

Table 3: Ambient Air Quality Impact Analysis of PM₁₀, 24-Hour Averaging Time

| Operation | Ambient Impact Factor (µg/m³ton) | Modeled Impact (μg/m³) | *Background (µg/m³) | NAAQS (μg/m³) | Daily Production Limit (tons) |
|------------|--|------------------------------|------------------------|------------------|----------------------------------|
| Concurrent | 0.0693 | 69.30 | 80.70 | 150.00 | 1000 |

^{*} Background PM₁₀ level of 20.00 μg/m3 from haul roads and stockpiles and 60.70 μg/m3 from the operation Mid County Sand and Gravel's rock-crushing plant, 169-0035, (Project #2005-10-058), and Mid County Sand and Gravel's rock-washing plant, 169-0035, (Project #2005-10-043).

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
- 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
- None of the New Source Performance Standards (NSPS) apply to the proposed equipment.
- 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 | Date | |
|------------------------|----------|--|
| Environmental Engineer | Date | |

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, designating Freedom Ready Mix 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
- Add any additional source material here, (e.g., stack testing, etc.)

Attachment A: Daily Ambient PM₁₀ Impact Tracking Record Freedom Ready Mix, 169-0038 – Concrete Plant

Project Number: 2005-10-042

County, CSTR: Pulaski County (S31, T36N, R11W)

Primary Unit Size: 83.33 tph

Distance to Nearest Property Boundary: 425 feet

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

| | Freedom Ready Mix Concrete Plant, 169-00 | 038 | | | |
|------|---|----------------|--|---------|------------------------------|
| | Project # 2005-10-042 | Ambient Impact | ² Back-ground PM ₁₀ | | |
| | Daily Production | Factor | ¹ Daily PM ₁₀ Impact | Level | 3TOTAL PM ₁₀ Leve |
| Date | (tons) | (µg/m³ton) | (µg/m ³) | (µg/m³) | (µg/m³) |
| | | 0.0693 | | 80.70 | |
| | | 0.0693 | | 80.70 | |
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| | | 0.0693 | | 80.70 | |

Note 1: The Daily PM₁₀ Impact (μg/m3) for each plant is calculated by multiplying the Daily Production (tons) by the matching Ambient Impact Factor.

Note 2: Background PM₁₀ Level (µg/m3) is from Haul Roads and Stockpiles AND from the operations of Mid County Sand & Gravels rock-washing plant, 169-0035, (Project #2005-10-043) and Mid County Sand & Gravel's rock-crushing plant, 169-0035, (Project #2005-10-058).

Note 3: The TOTAL PM₁₀ Level (μg/m3) is calculated by summing the Daily PM₁₀ Ambient Impact(s) and the Background PM₁₀ Level. A TOTAL PM₁₀ Level of less than 150 μg/m3 in any 24-hour 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:

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" 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. <u>Usage of Documented Watering</u> –

- 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.

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. <u>Usage of Chemical Dust Suppressants</u> –

- 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. <u>Usage of Documented Watering</u> –

- 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. Ron Morgans Owner Freedom Ready Mix P. O. Box 4007 Waynesville, MO 65583

RE: New Source Review Permit - Project Number: 2005-10-042

Dear Mr. Morgans:

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 2005-10-042, and your operating permit is necessary for continued compliance. Please review your operating permit as it will contain all applicable requirements for your concrete 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, MO 65102. Thank you for your attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

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

KH:cwyl

Enclosures

c: Southeast Regional Office PAMS File: 2005-10-042 Permit Number: