

ADEQ

ARKANSAS
Department of Environmental Quality

CERTIFIED MAIL: Z 317 787 779
RETURN RECEIPT REQUESTED

October 1, 1999

Larry Meyers
3M Industrial Mineral Products Division
P. O. Box 165860
Little Rock, AR 72216-5860

RE: CSN NO. 60-0003, PERMIT NO. 4584-W

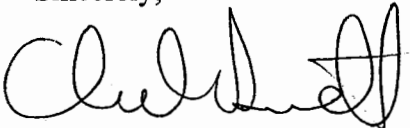
Dear Mr. Meyers:

Enclosed is your permit for the waste disposal system as set forth in your application.

After considering the facts and requirements of the Arkansas Water and Air Pollution Control Act (A.C.A. Sec. 8-4-101 et seq) and implementing regulations, I have determined that your permit for the construction, operation and maintenance of a water pollution control system be issued and effective on the date specified in the permit, unless a Commission review has been properly requested under the provisions of Regulation No. 8, Administrative Procedures, as amended, within 30 days after service of this decision.

All persons who have submitted written comments during the comment period, and all other persons entitled to do so, may request an adjudicatory hearing and Commission review on whether the decision of the Director should be reversed or modified. Such a request shall be in the form and manner required by Regulation No. 8, as amended.

Sincerely,



Chuck Bennett
Chief
Water Division

cc: Rex Robbins, FTN Associates, Ltd.
Eric Fleming, District Field Inspector, ADEQ
Keith E. Karmel, Permit Engineer, ADEQ
Laura Brown, PC&E Commission Office

STATEMENT OF BASIS

THIS IS A STATE WATER PERMIT FOR A NO-DISCHARGE OPERATION UNDER DRAFT PERMIT NUMBER 1584-W AND CSN (FILE) NUMBER 60-0003. WASTE SHALL NOT BE DISCHARGED FROM THIS FACILITY TO THE WATERS OF THE STATE OR ONTO LAND IN ANY MANNER WHICH MAY RESULT IN RUNOFF TO THE WATERS OF THE STATE.

ISSUING OFFICE AND DATE:

Arkansas Department of Environmental Quality
Water Division, State Permit Branch
8001 National Drive
Post Office Box 8913
Little Rock, Arkansas 72219

September 23, 1999

ADEQ EVALUATING ENGINEER:

Keith E. Karmel

APPLICANT:

Larry Meyers
3M Industrial Mineral Products Division
P. O. Box 165860
Little Rock, AR 72216-5860

CONSULTANT:

Rex Robbins
FTN Associates, Ltd.
3 Innwood Circle, Suite 220
Little Rock, AR 72211

1. FACILITY INFORMATION:

Facility Type and Size: Roofing granule plant

SIC Code: 3295

Waste Storage/Treatment Component(s): N/A

Washwater Source: N/A

Stream Segment: 3C Nearest Stream: Fourche Creek

Nearest Community: Little Rock County: Pulaski

Section: 24 Township: 1 North Range: 12 West

Latitude: 34° 42' 0" Longitude: 92° 14' 30"

Road Location Description: East of Little Rock city limits near the College Station community, north and east of Hwy. 365

Additional Site Information: Process wastewater and truck wash sediment will be land applied to the following site(s):

<u>Site</u>	<u>Owner</u>	<u>Section</u>	<u>Township</u>	<u>Range</u>	<u>Available acres</u>
1	3M	24	1 North	12 West	43

2. GENERAL REQUIREMENTS

The storage volume required for the waste generated at the facility is based on the size of the facility and the amount of waste produced. Solid material accumulated in all waste storage basins shall be removed as necessary to maintain the basin's design volume. The storage facility's liners and structures shall be maintained to prevent leaking or seepage. Any leaks or seeps shall be reported to the Department and appropriately corrected. Any discharge from the waste storage system such as an overflow, a broken pipe, etc., shall be immediately reported to the Department.

3. BASIS FOR PERMIT CONDITIONS

The Arkansas Department of Environmental Quality has made a tentative determination to issue a permit for the no-discharge facility as described in the application and waste management plan. Permit requirements and conditions are based on regulations pursuant to the Arkansas Water and Air Pollution Control Act (Act 472 of 1949, as amended, Ark. Code Ann. 8-4-101 et. seq.).

4. SOURCES FOR DOCUMENT DEVELOPMENT

- A. Regulation No. 2, Water Quality Standards for Surface Waters of the State of Arkansas, as amended.
- B. Regulation No. 8, Administrative Procedures, as amended.
- C. Regulation No. 9, Fee System for Environmental Permits, as amended.
- D. ACT 165 of 1993, Public Notice Requirements
- E. ACT 472 of 1949, as amended, Arkansas Water and Air Pollution Control Act

5. PUBLIC NOTICE

A draft permit and draft public notice will be sent to the Applicant and District Engineer of Soil Conservation Service or Consulting Engineer prior to publication of notice.

The public notice describes the procedures for the formulation of final determinations and shall provide for a public comment period of 30 days. During this period, any interested persons may submit written comments on the draft permit and may request a public hearing to clarify issues involved in the permit decision. A request for a public hearing shall be in writing and shall state the nature of the issue(s) proposed to be raised in the hearing.

For additional information, contact:

Rhonda Sharp, Information Officer
Arkansas Department of Environmental Quality
8001 National Drive
P.O. Box 8913
Little Rock, Arkansas 72219-8913

**ADDITIONAL PERMIT CONDITIONS FOR THE LAND APPLICATION OF
INDUSTRIAL WASTEWATER AND TRUCK WASH SOLIDS FOR
3M INDUSTRIAL MINERAL PRODUCTS DIVISION
CSN NO. 60-0003, PERMIT NO. 4584-W**

GENERAL REQUIREMENTS:

- 11. THE DESIGN AND OPERATION OF THE PROPOSED WASTE LAND APPLICATION SYSTEM SHALL BE IN ACCORDANCE WITH THE STATE RECOMMENDED PRACTICES AS WELL AS THE ADEQ GUIDELINES.**
12. Only wastes that are not classified as a hazardous waste under state or federal regulations may be land applied.
13. Plant Available Nitrogen (PAN) shall not be applied at a rate exceeding the annual nitrogen uptake of the crop. The nitrogen application rate (PAN/acre-year) shall not be allowed to exceed the site specific rate approved by the Department.
14. When the land application of wastes are governed by the hydraulic loading rate instead of the pollutant loadings, the hydraulic rate shall not be allowed to exceed the site specific rate approved by the Department.
15. The permittee shall be responsible for assuring that the land owner of any land application site not owned by the permittee, will also abide by the conditions of this permit.
16. Wastes shall be spread evenly over the application area and in no way be allowed to enter the waters of the State.
17. Wastes shall not be applied to soils that are saturated, frozen or covered with snow, and during rain or when precipitation is imminent, or at any time that could result in runoff to a watercourse. Wastes shall not be applied to slopes with a gradient greater than 15%.
18. The permittee shall not cause any underground drinking water source to exceed the limitations stated in 40 CFR 257 Appendix I.
19. The permittee shall not cause or contribute to the taking of life or the destruction or adverse modification of the critical habitat of any known endangered or threatened species of plant, fish or wildlife.
20. The permittee shall take all necessary measures to reduce obnoxious and offensive odors. The equipment utilized in the land-application of wastes shall be maintained and operated to prevent spills, leaks or unpermitted discharges.

21. Wastes shall not be spread within 25 feet of rock out crops; 50 feet of property lines or land tracts not associated with the permit; 100 from streams, lakes, ponds, wetlands, and other waters of the State; 200 feet of drinking wells; and 300 feet of occupied buildings or extraordinary resource water bodies.
22. The permittee shall give 120 days prior notice to the Director of any change planned in the waste disposal practice.
23. All land application sites must have a waste management plan approved by the Department prior to land application of wastes. Additional land applications sites must be approved in advance by the Department. The additions of land-application sites normally require a permit modification.
24. The concentration of total petroleum hydrocarbons (TPH) in the truck wash solids must be determined prior to land application. If the TPH concentration in the solids exceeds 2,000 mg/kg, Department approved methods other than land application must be used for disposal.
25. The truck wash solids must be stored in a designated-covered area while the TPH concentrations are being analyzed by a laboratory. The waste material may be stockpiled under a suitable roof or covered with a water proof material properly secured to avert contamination of runoff water.
26. The permittee may land-apply truck wash solids the following year on the same area, after analytical results (from a representative sample taken from the area) show that the soil TPH is less than 10 mg/kg.

MONITORING AND REPORTING REQUIREMENTS:

27. The permittee shall be responsible for the monitoring, supervision, operation, quality control, recording, and reporting of the facility's activities. All analytical results must be expressed in mg/l unless otherwise indicated. These activities shall include the following:
 - a. Irrigation Wastewater
 - (1) Daily Monitoring:
 - Flow (mgd)
 - Depth Irrigated (inches)
 - Area Irrigated (acres)
 - (2) Annual Monitoring:
 - Total Kjeldahl Nitrogen
 - Ammonia Nitrogen
 - Nitrate + Nitrite Nitrogen
 - Arsenic

- Cadmium
- Copper
- Lead
- Mercury
- Selenium
- Zinc
- Conductivity (mhos)
- pH (SU)

(b) Truck Wash Solids

(1) Monitoring (one sample for every 15 cubic yards)

- TPH (mg/kg)

(c) Land Application Site Soils

(1) Annual Monitoring (in lbs/acre except as indicated)

- Nitrate Nitrogen
- Phosphorus
- Potassium
- Arsenic
- Cadmium
- Copper
- Lead
- Magnesium
- Mercury
- Nickel
- Zinc
- Conductivity (mhos)
- pH (SU)

Each land application site shall be soil tested in the Spring prior to application. Laboratory results shall be received by ADEQ by the reporting date established below.

d. Reporting

(1) Annual reports shall be sent to the Department and to the owner of the land receiving solids **prior to May 1**, which must include the following:

The wastewater and soil analyses conducted under this condition (including a statement that the analyses were performed in

accordance with EPA Document SW-846, "Test Methods for Evaluation of Solid Waste," or other procedures approved by the Director), application dates and locations, volumes of wastes applied (in gallons/acre-year and lb/acre-year), methods of disposal, identity of the hauler, type of crop grown, amounts of nitrogen applied, total pollutants added that year (lbs/acre), total pollutants applied to date, and copies of the soil analyses for each site.

28. Solids removed in the course of the treatment shall be disposed in a manner previously approved by the Department.
29. If the permittee wishes to continue the activity regulated by this permit after its expiration date, the permittee must apply and obtain a new permit. The complete application must be submitted to the Department at least 120 days before the expiration date of the permit. The Director may grant permission to submit an application less than 120 days in advance but not later than the permit expiration date.
30. The permit conditions will continue in effect past its expiration date pending issuance of a new permit, provided that:
 - a. The permittee has timely submitted a complete application as described in Condition 29, and
 - b. The Director, through no fault of the permittee, does not issue a new permit prior to the expiration date of the previous permit.

ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY

RESPONSE TO COMMENTS

September 24, 1999

3M Industrial Mineral Products Division

Permit No. 4584-W; CSN No. 60-0003

This permit is for the land application of industrial wastewater and truck wash solids. On August 11, 1999, ADEQ issued Draft Permit No. 4584-W to 3M Industrial Mineral Products Division. The Draft Permit public notice was published on August 14, 1999. The 30-day comment period following the publication of the notice of Draft Permit ended on September 13, 1999. During the comment period, the following comments were received from 3M:

Comment:

The existing CSN No. for the College Station Plant is 60-0003. 3M requests that this number be used for this permit, if possible.

Response:

As requested by 3M, the CSN No. has been changed to 60-0003.

Comment:

General Requirement No. 26 - 3M believes that a soil TPH less than 10 mg/kg could be difficult to achieve. 3M will take soil samples from areas not impacted by previous land application, to determine if background levels will allow the use of this criteria. Based on this testing, it may be necessary to request a different criteria in the future.

Response:

ADEQ believes the limit of 10 mg/kg of TPH to be adequate for the proposed site. If 3M believes it will have difficulty in meeting these requirements, then further information is needed.

Comment:

3M will designate, each year, certain areas within the site for application of the truck wash solids. The expected quantity of truck wash solids will not require the entire site for application. Application of truck wash solids will not return to this specific area until soil criteria are met. The use of the word "area" rather than "site" may be more appropriate in this requirement of the permit.

Response:

The Department uses "site" and "area" interchangeably. However, as suggested by 3M, "area" has replaced "site" in General Requirement 26. All other General Requirements that refer to "site" will remain unchanged.

Comment:

General Requirement No. 27 (a) - Please clarify on this item that the monitoring requirements are for wastewater only. 3M uses clean water for irrigation as well as the wastewater.

Response:

As suggested by 3M, "Irrigation Wastewater" has replaced "Irrigation Water."

Comment:

General Requirement No. 27 (b)(1) - The units should be cubic yards rather than cubic feet. (1 cubic yard = 1.1 ton)

Response:

This has been corrected. Also, the amount of truck wash solids per sample needed for TPH testing has been increased to 15 cubic yards.

CERTIFICATE OF SERVICE

The Department's decision to issue a permit is final for purposes of appeal, as of the date indicated in the certification below.

I, Karen Archer, Secretary of the State Permits Branch, Water Division, hereby certify that a permit (Permit No. 4584-W, CSN No. 60-0003) has been sent by certified mail to the permittee at the following address:

Larry Meyers
3M Industrial Mineral Products Division
P. O. Box 165860
Little Rock, AR 72216-5860

This final permit was mailed on or before this 01 day of October, 19 99.

Karen Archer
Karen Archer

10/01/99
Date