

PERMIT

Issued By

DEPARTMENT OF POLLUTION CONTROL & ECOLOGY

8001 National Drive
Little Rock, Arkansas 72209

Permit No. 690-WR-2

Effective Date 09-21-87

TO: Ethyl Corporation
P.O. Box 520
Magnolia, AR 71753

Consulting Engineers:

N/A

This permit is your authority to construct, operate, and maintain the waste disposal system set forth in your application dated May 26, 1987. This permit is issued subject to the provisions of Act 472 of 1949, as amended (sec.82-1901 et seq., Ark. Stats.) and the following terms and conditions:

1. The disposal system shall be constructed in accordance with the final plans and specifications as approved by the Department of Pollution Control & Ecology.
2. This permit shall automatically terminate unless construction of the disposal system has been commenced within 3 months of the date hereof and completed with all reasonable diligence. The Department shall be notified in writing when the disposal system has been completed in order that it may be inspected.
3. The disposal system shall be operated by qualified personnel and maintained in good operating condition at all times.
4. By-passing of the disposal system is prohibited and will result in revocation of this permit and/or other appropriate enforcement action by the Department.
5. There shall be no increase in the volume or strength of the waste being treated by the disposal system except within design limits covered by the plans and specifications approved by the Department. No extension or modification of the disposal system may be made without the issuance of a new permit.
6. This permit may be revoked or modified whenever it is necessary, in the opinion of the Department, to prevent or abate pollution of any waters of the State.
7. Nothing herein contained shall be construed as releasing the permittee from any liability for damage to persons or property by reason of the installation, maintenance, or operation of the disposal system.
8. This permit is issued in reliance upon the statements and representations made in the application and the plans and specifications and the Department has no responsibility for the adequacy or proper functioning of the disposal system.
9. PLEASE NOTE ADDITIONAL CONDITIONS ON ATTACHED SHEET.

DEPARTMENT OF POLLUTION CONTROL & ECOLOGY

By Paul N. Meem
Director

Date 8/21/87

PART I
PERMIT REQUIREMENTSSECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning on effective date and lasting through date of expiration, the permittee is authorized to operate a pretreatment system for an underground injection system.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			
	kg/day (lbs/day)		Other Units (Specify)	
	Daily Avg.	Daily Max.	Daily Avg.	Daily Max.
Flow-m ³ /Day (MGD)	----	----	----	----
pH	----	----	----	----
Ethylene Dibromide	**	**	**	**

<u>Effluent Characteristic</u>	<u>Monitoring Requirements</u>	
	Measurement Frequency	Sample Type
Flow-m ³ /Day (MGD)	Continuous	Record
pH	One/day	Grab
Ethylene Dibromide	Two/month	Composite

*A complete wastewater characterization shall be submitted once per year. The sample shall be a 24-hour composite taken from the discharge sides of both process vessels.

**Non-detectable

Additional monitoring requirements are listed in Part III on Page 15 of 15.

The analytical method to determine the EDB concentration will be mutually agreed to by the Department and Ethyl Corporation. A detection limit of 5 ug/l will be used.

PART I

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SECTION B. SCHEDULE OF COMPLIANCE

The permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule:

Compliance with the effluent limitations is required on the effective date of the permit.

PART II
STANDARD CONDITIONS FOR STATE WATER PERMITS

SECTION A. GENERAL CONDITIONS

1. Duty to Comply

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

2. Penalties for Violations of Permit Conditions

The Arkansas Water and Air Pollution Control Act provides that any person who violates any provisions of a permit issued under the Act shall be guilty of a misdemeanor and upon conviction thereof shall be subject to imprisonment for not more than one (1) year, or a fine of not more than ten thousand dollars (\$10,000) or by both such fine and imprisonment for each day of such violation. Any person who violates any provision of a permit issued under the Act may also be subject to civil penalty in such amount as the court shall find appropriate, not to exceed five thousand dollars (\$5,000) for each day of such violation. The fact that any such violation may constitute a misdemeanor shall not be a bar to the maintenance of such civil action.

3. Permit Actions

This permit may be modified, revoked and reissued, or terminated for cause including, but not limited to, the following:

- a. Violation of any terms or conditions of this permit;
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized application rate; or
- d. A determination that the permitted activity endangers human health or the environment and can only be regulated to acceptable levels by permit modification or termination; or
- e. Whenever it is necessary, in the opinion of the Department, to prevent or abate pollution of any waters of the State.

The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

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continued

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4. Civil and Criminal Liability

Except as provided in permit conditions on "Bypassing" Section B, Paragraph 4.b., and "Upsets" Section B, Paragraph 5.b., nothing in the permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

5. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Federal Clean Water Act.

6. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation.

7. Property Rights

The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

8. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

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SECTION B. OPERATION AND MAINTENANCE OF POLLUTION CONTROLS

1. Proper Operation and Maintenance

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit.

2. Need to Halt or Reduce Not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

3. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

4. Bypass of Treatment Facilities

a. Definitions

- (1) "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility.
- (2) "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

b. Notice

- (1) Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass.
- (2) Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Section D, Paragraph D-6 (24-hour notice).

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c. Prohibition of bypass.

- (1) Bypass is prohibited and the Director may take enforcement action against a permittee for bypass, unless:
 - (a) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (b) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if the permittee could have installed adequate backup equipment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (c) The permittee submitted notices as required under Section B, paragraph 4.b.
- (2) The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed above in Section B, paragraph 4.d(1).

5. Upset Conditions

- a. Definition. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
- b. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of Section B, paragraph 5.c. of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
- c. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

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- (1) An upset occurred and that the permittee can identify the specific cause(s) of the upset;
 - (2) The permitted facility was at the time being properly operated; and
 - (3) The permittee submitted notice of the upset as required in Section D, Paragraph D-6.
 - (4) The permittee complied with any remedial measures required under Section B, Paragraph B-3.
- d. Burden of proof. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

6. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering navigable waters.

SECTION C. MONITORING AND RECORDS

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring points specified in this permit. Monitoring points shall not be changed without notification to and the approval of the Director.

2. Flow Measurements

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to insure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated and maintained to insure that the accuracy of the measurements are consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than + 10% from true discharge rates throughout the range of expected discharge volumes. Guidance in selection, installation, calibration and operation of acceptable flow measurement devices can be obtained from the following references:

- a. "A Guide to Methods and Standards for the Measurement of Water Flow", U. S. Department of Commerce, National Bureau of Standards, NBS Special Publication 421, May 1975, 97 pp. (Available from the U. S. Government Printing Office, Washington, D. C. 20402. Order by SD catalog No. C13.10:421).

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- b. "Water Measurement Manual", U. S. Department of Interior, Bureau of Reclamation, Second Edition, Revised Reprint, 1974, 327 pp. (Available from the U. S. Government Printing Office, Washington, D. C. 20402. Order by Catalog No. 127.19/2:W29/2, Stock No. S/N 24003-0027).
- c. "Flow Measurement in Open Channels and Closed Conduits:", U. S. Department of Commerce, National Bureau of Standards, NBS Special Publication 484, October 1977, 982 pp. (Available in paper copy or microfiche from National Technical Information Service (NTIS), Springfield, VA 22151. Order by NTIS No. PB-273 535/5ST).
- d. "NPDES Compliance Sampling Manual", U. S. Environmental Protection Agency, Office of Water Enforcement, Publication MCD-51, 1977, 140 pp. (Available from the General Services Administration (8FFS), Centralized Mailing Lists Services, Building 41, Denver Federal Center, Denver, CO 80225).

3. Monitoring Procedures

Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.

4. Penalties for Tampering

The Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate, any monitoring device or method required to be maintained under this permit shall be subject to civil and/or criminal penalties specified in Section A, Paragraph A-2.

5. Reporting of Monitoring Results

Completed reports must be submitted to the State Permits Branch of the Department at the end of each calendar quarter. Monitoring results obtained during the previous three (3) months shall be summarized for each month and reported no later than the 28th day of the month following the completed reporting period. The first report is due at the end of the quarter during which the treatment plant becomes operational. See Part III for additional reporting requirements that may be required.

6. Additional Monitoring by the Permittee

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures approved under 40 CFR 136 or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in item 5 above. Such increased frequency shall also be indicated on the monitoring report.

7. Averaging of Measurements

Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Director in the permit.

8. Retention of Records

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period may be extended by request of the Director at any time.

9. Record Contents

Records and monitoring information shall include:

- a. The date, exact place, time and methods of sampling or measurements;
- b. The individual(s) who performed the sampling or measurements;
- c. The date(s) analyses were performed;
- d. The individual(s) who performed the analyses;
- e. The analytical techniques or methods used; and
- f. The results of such analyses.

10. Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

- a. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
- d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location.

SECTION D. REPORTING REQUIREMENTS

1. Planned Changes

The permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility. Additionally, any increase in the volume or strength of the waste being treated by the disposal system except within design limits covered by the plans and specifications approved by the Department, or any extension or modification of the disposal system will require the issuance of a new permit.

2. Anticipated Noncompliance

The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

3. Transfers

The permit is nontransferable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Act.

4. Monitoring Reports

Monitoring results shall be reported at the intervals and in the form specified in Section C, Paragraph C-5 (Monitoring).

5. Compliance Schedules

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date. Any reports of noncompliance shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

6. Twenty-four Hour Reporting

The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. The Director may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

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The following shall be included as information which must be reported within 24 hours:

- a. Any unanticipated bypass.
- b. Any upset which results in a runoff or discharge to surface waters of the State.

7. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under Section D, Paragraphs 4, 5, and 6, at the time monitoring reports are submitted. The reports shall contain the information listed in Section D, Paragraph 6.

9. Duty to Provide Information

The permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

10. Signatory Requirements

All applications, reports or information submitted to the Director shall be signed and certified.

- a. All permit applications shall be signed as follows:
 - (1) For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
 - (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person performs similar policy or decision making functions for the corporation; or
 - (ii) The manager of one or more manufacturing, production, or operating facilities employing more than 250 persons, if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

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- (2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
 - (3) For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:
 - (i) The chief executive officer of the agency, or
 - (ii) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.
- b. All reports required by the permit and other information requested by the Director shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
- (1) The authorization is made in writing by a person described above.
 - (2) The authorization specified either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, or position of equivalent responsibility. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and
 - (3) The written authorization is submitted to the Director.
- c. Certification. Any person signing a document under this section shall make the following certification:
- "I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

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11. Penalties for Falsification of Reports

The Arkansas Air and Water Pollution Control Act provides that any person who knowingly makes any false statement, representation, or certification in any application, record, report, plan or other document filed or required to be maintained under this permit shall be subject to civil and/or criminal penalties specified in Section A, Paragraph A-2.

PART III

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PART III
OTHER CONDITIONS

1. Any sludge generated from this operation shall be disposed of in a manner approved by this Department.
2. There shall be no discharge of wastewater to the surface waters of the State.
3. The Department reserves the right to require an analysis of specific process wastewater systems when, in the opinion of the Department, it is necessary for protection of the groundwater.
4. All necessary State and Federal permits shall be obtained for the injection of wastewaters generated at this Ethyl facility.
5. The term "24-hour composite sample" means a sample consisting of a minimum of eight samples of effluents collected at regular intervals over a normal operation day and combined proportional to flow, or a sample continuously collected proportional to flow over a normal operating day.
6. A complete wastewater characterization shall be submitted once per quarter to evaluate in stream pretreatment systems. The sample shall be a 24-hour composite taken immediately downstream from the pretreatment system before confluence with the debrinated brine.
7. Wastewater from the underground dewatering recycle system shall be analyzed quarterly and submitted to the Department. Samples shall be analyzed for Chlorides, EDB, and DBCP.
8. Analysis shall be performed quarterly on groundwater taken from the monitoring wells is located south of the dewatering leachate system. These results shall be submitted to the Department with a proposed plan to eliminate any groundwater contamination. Samples shall be analyzed for Chlorides, EDB, and DBCP.



STATE OF ARKANSAS
DEPARTMENT OF POLLUTION CONTROL AND ECOLOGY
8001 NATIONAL DRIVE, P.O. BOX 9583
LITTLE ROCK, ARKANSAS 72209

CERTIFIED MAIL: P 490 630 005
RETURN RECEIPT REQUESTED

PHONE: (501) 562-7444

August 24, 1987

Ethyl Corporation
P.O. Box 520
Magnolia, Arkansas 71753

Gentlemen:

The enclosed permit (No. 690-WR-2) is your authority to construct, operate and maintain the Waste Disposal System as set forth in your application dated May 26, 1987.

This permit is issued subject to the provisions of Act 472 of 1949, as amended (Sec. 82-1901 et seq., Ark. Stats.) and the terms and conditions stated therein. Approval for underground injection is also required from the Arkansas Oil and Gas Commission.

After considering the facts and requirements of Act 472 of 1949, as amended (Sec. 82-1901 et seq., Ark. Stats.) and implementing regulations, I have determined that Permit No. 690-WR-2 for the construction, operation and maintenance of a water pollution control system for Ethyl Corporation be issued and effective on the date specified in the permit, unless a Commission review has been properly requested under Section 4, Part III, of Regulation No. 8, Arkansas Department of Pollution Control and Ecology Administrative Procedures, within 30 days after service of this decision.

All persons submitting 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 Section 4, Part III of Regulation No. 8.

Sincerely,

A handwritten signature in cursive script that reads "Paul Means".

Paul Means
Director

PM:jam

Enclosure

NARRATIVE DESCRIPTION

FOR

Ethyl Corporation

14-0011

ENGINEER: Gerald Delavan PERMIT NO. 690-WR-2 DATE: July 13, 1987

Ethyl Corporation has requested that Dow Chemical permit # 690-WR-1 be transferred "as is" from Dow to Ethyl. The applicant operates a bromine plant complex located four miles west of Magnolia, Arkansas. This permit injects or disposes of 3,000 gpd of debrominated brine with trace amounts of wastewater from the Ethylene Dibromine Plant.

The original permit 690-W was for the operation of the tail brine ponds which included holding capacity, pH adjustment and surface water runoff control. The first revisions were to replace the tail brine ponds with fiberglass reinforced plastic vessels. The rainfall runoff discharge portion of the permit was transferred to a separate discharge permit, 3009-W.

Revision of permit # 690-W also included the authorization to operate a pretreatment system for debrominated brine, prior to injection into the disposal wells. Monitoring requirements were outlined as follows:

Continuous flow monitoring, pH monitoring daily, EDB monitored twice a month (composite sample). A complete wastewater characterization shall be submitted once a year. The sample shall be a 24 hour composite taken from the discharge sides of both process vessels. The term "24-hour composite sample" means a sample consisting of a minimum of eight samples of effluent collected at regular intervals over a normal operation day and combined proportional to flow, or a sample continuously collected proportional to flow over a normal operating day.

Wastewater from the underground dewatering recycle system shall be analyzed quarterly and submitted to ADPC&E. Samples shall be analyzed for chlorides, EDB and DBCP. Analysis shall be performed quarterly on groundwater taken from the monitoring wells located south of the dewatering leachate system. These results are submitted to ADPC&E with a proposed plan to eliminate any groundwater contamination. Samples shall be analyzed for chlorides, EDB and DBCP.

The aforementioned monitoring requirements are to be transferred to Ethyl "as is" from 690-WR-1. The results of the required sampling and monitoring are to be submitted by Ethyl Corporation as required under the original Dow Permit.

ARKANSAS WASTEWATER PERMIT SUMMARY SHEET

PERMIT NO. 0690-W-22 W DATE 87-09-21 EXPIRES _____
YR MO DAY YR MO DAY (If Temporary)

NPDES NO. AR _____

CSN NO. 14-0011 SIC NO. _____

STATUS (Check One) New Revised

PERMITTEE

CONSULTING ENGINEER(S)

NAME Ethy Corporation

NONE

C/O Darren Bias

ADDRESS P.O. Box 520

CITY/STATE Magnolia, Ar.

ZIP CODE 71753

TYPE TREATMENT & UNIT SIZES EXISTING PONDS (TAIL BRINE TREATMENT FACILITIES)
TO BE REPLACED BY A TWO PROCESS FIBERGLASS RETENTION VESSELS
FOR HOLDING SPENT BRINE (270' X 70' X 8').

SIZE AND TYPE OF FACILITY SERVED BROMINE PLANT COMPLEX
BROMINE AND EOB PRODUCTION

CHARACTER OF WASTE (Check One) S - SANITARY I - INDUSTRIAL A - AGRICULTURAL
 B - BRINE W - WATER PLANT BACKWASH O - OTHER

LOADING RATES/DESIGN FLOW 2850 GPM

RECEIVING STREAM NO DISCHARGE - OVERFLOW WOULD GO TO DISMURS CREEK

OTHER INFORMATION (Limitations) SOME EOB WASTEWATER IS CONTAINED
WITH THE PREFREATED SPENT BRINE.

ESTIMATED CONSTRUCTION COST \$ _____ .00

TREATMENT FACILITY ± ±

LOCATION SECTION 18 BASIN RED

RANGE 21W SEGMENT 1A

TOWNSHIP 175

USE CLASS AA A B
(Check One)

COUNTY Columbia

STREAM CLASS X WQ EL

CITY Magnolia

DISTRICT 9

PROCESSED BY GERALD DELAVAN