



State of North Carolina  
Department of Environment, Health and Natural Resources  
Winston-Salem Regional Office

James G. Martin, Governor  
William W. Cobey, Jr., Secretary

Margaret Plemmons Foster  
Regional Manager

DIVISION OF ENVIRONMENTAL MANAGEMENT  
GROUNDWATER SECTION

August 11, 1992

Delta Environmental Consultants, Inc.  
6701 Carmel Road, Suite 200  
Charlotte, NC 28226

SUBJECT: MONITOR WELL CONSTRUCTION  
PERMIT NO. 40-1045-WM-0456  
GUILFORD COUNTY  
FILE NAME: Exxon Company USA RAS #43998

Dear Sir:

In accordance with your application received August 6, 1992, we are forwarding herewith Monitor Well Construction Permit No. 40-1045-WM-0456 for the construction of six monitor wells in the Charlotte Belt Hydrogeologic Unit.

Henceforth, correspondence and data relating to these wells shall be designated as specified in the subject heading above.

This Permit will be effective from the date of its issuance and shall be subject to the conditions and limitations as specified therein.

Sincerely,

Sherri V. Knight  
Groundwater Supervisor

SVK/LDC/ahl  
Enclosure

cc: Groundwater Section - Central Office  
Guilford County Health Department  
Exxon Company, USA  
WSRO Files

NORTH CAROLINA  
ENVIRONMENTAL MANAGEMENT COMMISSION  
DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES

PERMIT FOR THE CONSTRUCTION OF  
A MONITOR WELL OR WELL SYSTEM

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In accordance with the provisions of Article 7, Chapter 87, North Carolina General Statutes, and other applicable Laws, Rules, and Regulations.

PERMISSION IS HEREBY GRANTED TO  
Delta Environmental Consultants, Inc.

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FOR THE CONSTRUCTION OF SIX MONITOR WELLS in the Charlotte Belt Hydrogeologic unit located at 4701 W. Market Street, Greensboro, North Carolina in Guilford County in accordance with the application dated July 29, 1992, and in conformity with the specifications and supporting data, all of which are filed with the Department of Environment, Health and Natural Resources and are considered a part of this Permit.

This Permit is for well construction only, and does not waive any provisions or requirements or any other applicable laws or regulations.

Construction of a well under this Permit shall be in compliance with the North Carolina Well Construction Regulations and Standards, and any other laws and regulations pertaining to well construction.

This Permit will be effective from the date of its issuance until February 11, 1993, and shall be subject to other specified conditions, limitations or exceptions as follows:

1. A permanent identification plate with the date of construction, depth of well, screen interval, depth of grout, drilling contractor, and his registration number shall be attached to the well head or the outer protective steel casing.

2. The well construction completion form and all water quality data are to be submitted to the Central Office of the Groundwater Section P. O. Box 29535, Raleigh, North Carolina 27611.
3. All laboratory analysis of Groundwater samples collected from the permitted monitor wells are to be submitted to North Carolina Department of Environment, Health, and Natural Resources, Groundwater Section, P. O. Box 29535, Raleigh, N. C. 27611 with a copy to the North Carolina Department of Environment, Health and Natural Resources, Groundwater Section, 8025 North Point Boulevard, Suite 100, Winston-Salem, N. C. 27106 within 60 days of well completion, and quarterly thereafter.
4. All additional investigative findings in relation to the pollution sources being monitored, as indicated under "Additional Information" of form GW-22M ("Item J" of form GW-22B) of permit application, are to be submitted to North Carolina Department of Environment, Health and Natural Resources, Groundwater Section, P. O. Box 29535, Raleigh, N. C. 27611 with a copy to North Carolina Department of Environment, Health, and Natural Resources, Groundwater Section, 8025 North Point Boulevard, Suite 100, Winston-Salem, N. C. 27106 within 60 days of well completion, and quarterly thereafter.
5. The well shall be afforded a means of protection against vandalism, damage, or unauthorized use.
6. When any monitor well is no longer useful for its intended purpose, it shall be abandoned in compliance with North Carolina Administrative Code 15. 2C.0113 and a well abandonment form sent to the North Carolina Department of Environment, Health, and Natural Resources, Groundwater Section, P. O. Box 29535, Raleigh, N. C. 27611 with a copy to North Carolina Department of Environment, Health and Natural Resources, Groundwater Section, 8025 North Point Boulevard, Suite 100, Winston-Salem, N. C. 27106.

Permit No. 40-1045-WM-0456  
Page three

7. The monitor well shall be constructed in accordance with the Groundwater Section's recommended construction details as outlined in attachment #1.
8. A county monitor well construction permit shall be required by the county health departments where applicable. In Forsyth County, contact the Forsyth County Health Department, Division of Environmental Health, P.O. Box 686, Winston-Salem, NC 27102-0686.

Permit issued this the 11th day of August 1992

FOR THE NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

  
For Larry D. Coble, Regional Supervisor  
Division of Environmental Management

By Authority of the Environmental Management Commission

Permit No. 40-1045-WM-0456



**GUILFORD  
QUAD**

*No Wells Found*

**GREENSBORO  
QUAD**

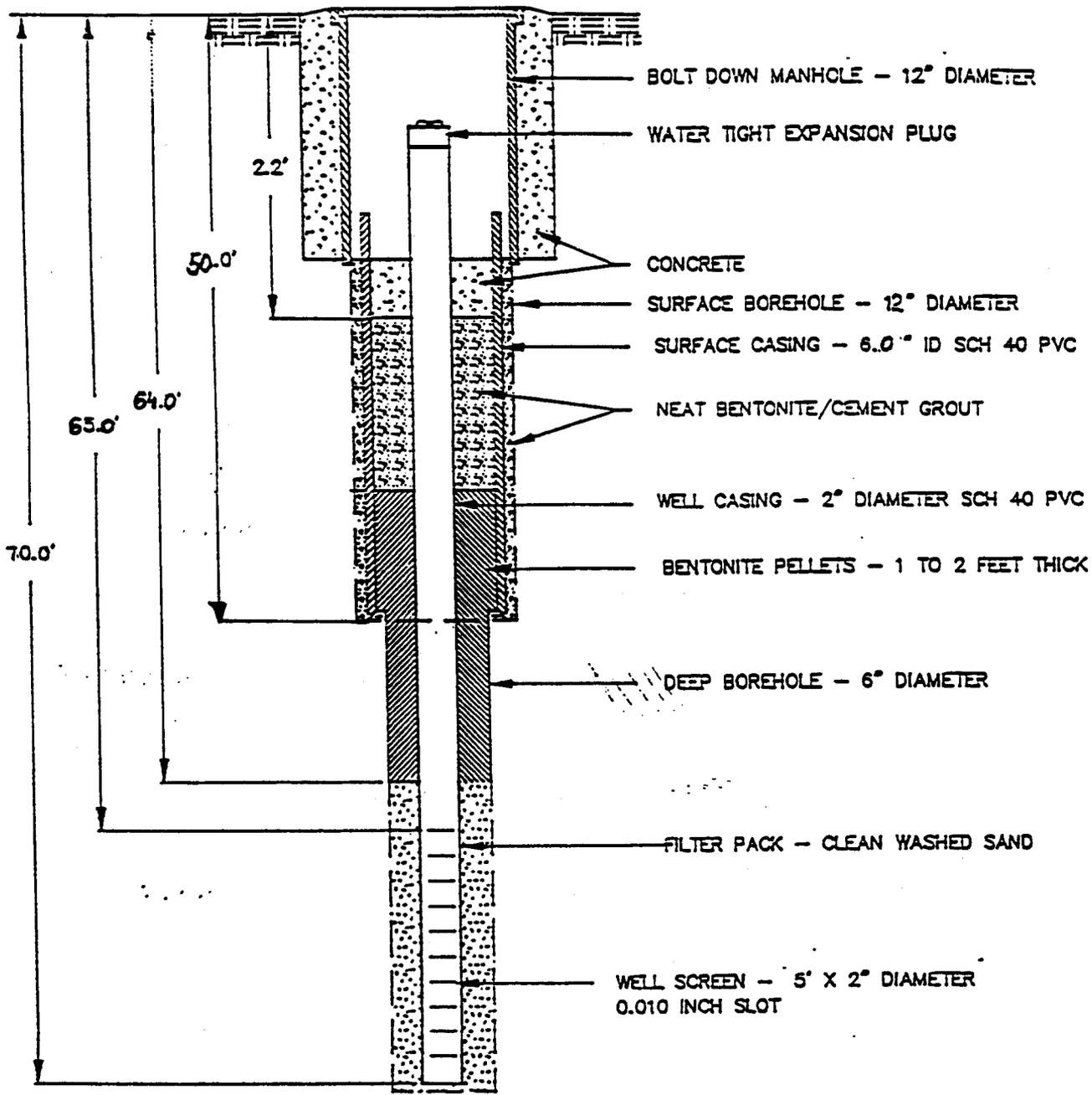


FIGURE  
INSTALLED DETAIL MONITORING WELL

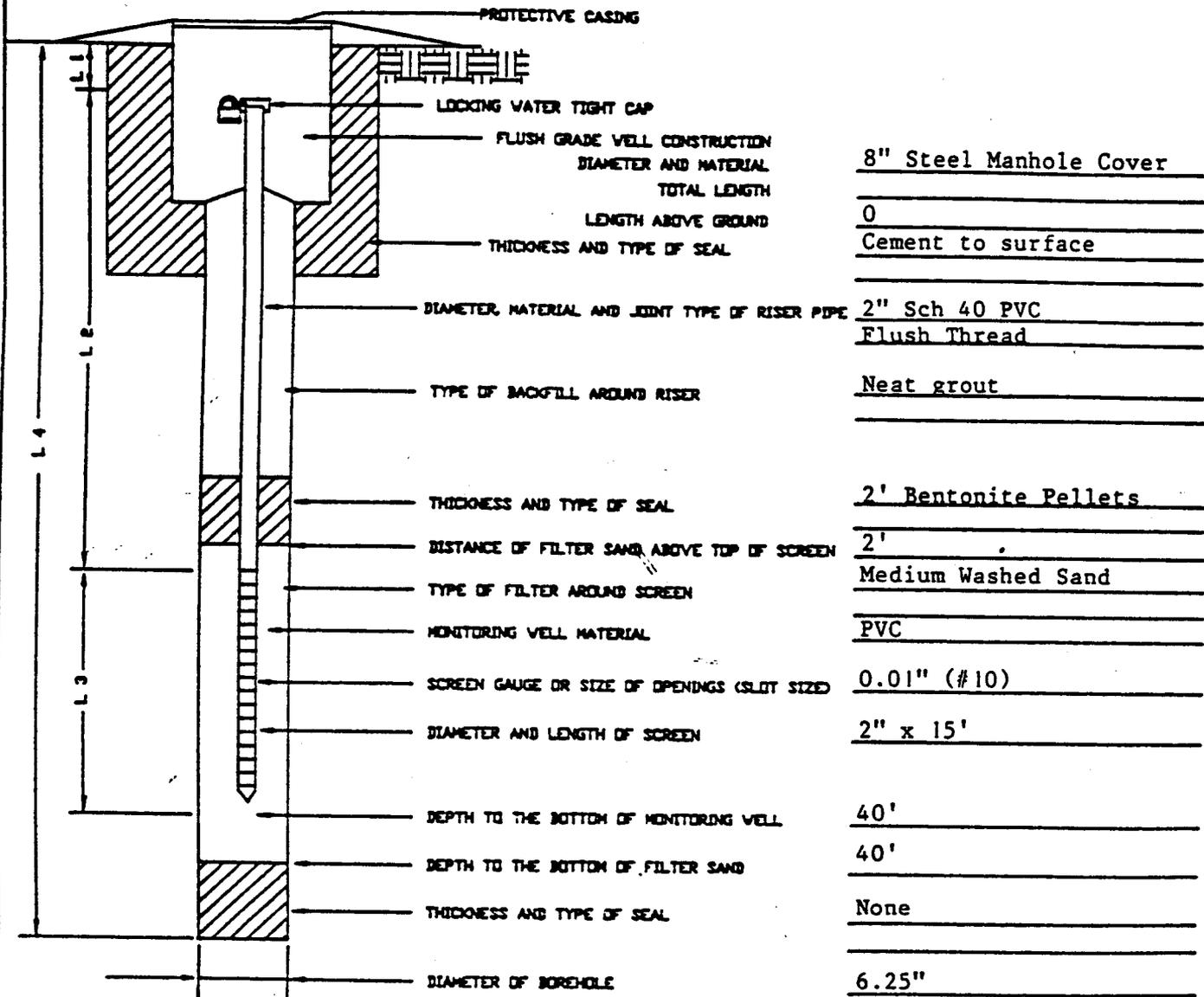
NOTE: DRAWING NOT TO SCALE

PROJECT NO 50-92-037.01		DRAWN BY C.B.G.	 Delta Environmental Consultants, Inc.
DATE 7-29-92	CAD NO. 027-IDMW	REVIEW BY	

# PROPOSED FLUSH GRADE MONITORING WELL CONSTRUCTION DETAILS

PROJECT Exxon, USA

DELTA NO. 50-92-037.01



L1 = 0.5 FT.  
 L2 = 24.5 FT.  
 L3 = 15 FT.  
 L4 = 40 FT.

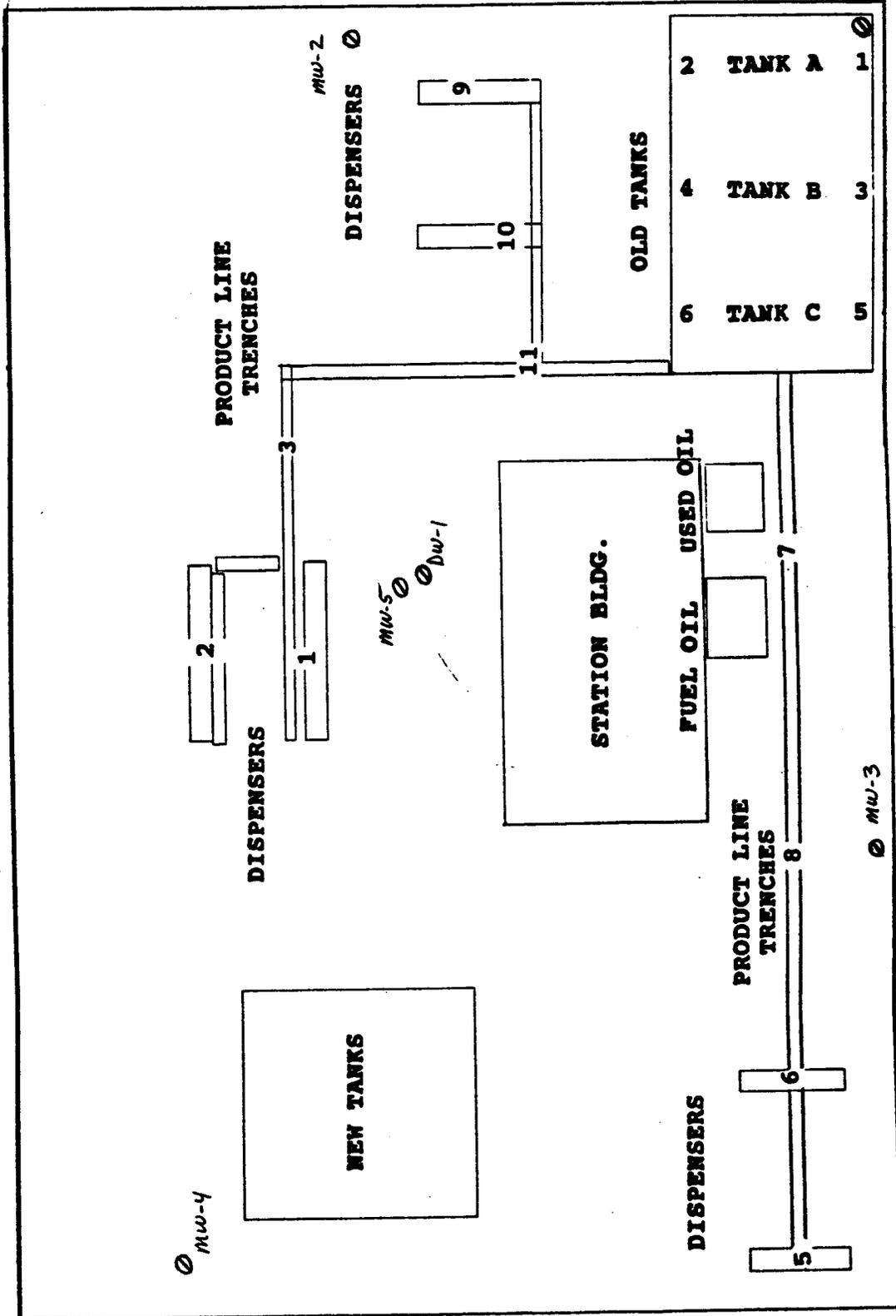


SITE BASE MAP EXXON RAS #4-3998, GREENSBORO, NC.

WEST MARKET STREET

SPRING GARDEN STREET

MW-1



MANLEY AVENUE

⊙ - PROPOSED MONITORING WELL LOCATION

NORTH CAROLINA  
ENVIRONMENTAL MANAGEMENT COMMISSION  
DEPARTMENT OF ENVIRONMENT, HEALTH, & NATURAL RESOURCES

RECEIVED  
N.C. Dept. of ENVIRONMENT

**APPLICATION FOR PERMIT TO CONSTRUCT A MONITORING WELL SYSTEM**

Date: 7-29, 19 92 County Guilford

Winston-Salem  
Regional Office

In accordance with the provisions of Article 7, Chapter 87, General Statutes of North Carolina and regulations pursuant thereto, application is hereby made for a permit to monitoring wells.

- Name of Applicant: Delta Environmental Consultants, Inc. (Telephone: 704-541-9890)  
Applicant's Mailing Address: 6701 Carmel Road, Suite 200, Charlotte, NC 28226
- Name of Property Owner (if different from applicant) Exxon Company, USA  
Owner's Mailing Address: P. O. Box 4386, Houston, TX 77210
- Contact Person: Frank Medlin (Telephone: 704-529-4263)
- Location of Property: 4701 W. Market St., Greensboro, NC (RAS#4-3998)
- Reason for Monitoring Well(s): Environmental Assessment  
(ex: nondischarge permit requirements, suspected contamination, environmental assessment, etc.)
- Type of facility or site for which the monitoring well(s) is needed: Service Station-Underground Storage Tanks  
(ex: nondischarge facility, waste disposal site, landfill, underground storage tank, etc.)
- Type of contamination being monitored (if applicable): N/A  
(ex: nutrients, organics, heavy metals, etc.)
- Are any existing recovery wells associated with the monitoring well(s)? None If yes, how many? \_\_\_\_\_  
Recovery Well Construction Permit No. \_\_\_\_\_
- Distance to a known waste or pollution source: N/A feet
- Are any water supply wells located less than 500 feet from the proposed monitoring wells? NO  
If yes, give distance: \_\_\_\_\_ feet
- Well Driller: Performance Design Systems  
ASSIGNED TO Ryan / Sabara
- Registration #: 1337  
DUE DATE 8/21/92
- Driller's Address: P. O. Box 16413, Charlotte, NC 28221

**PROPOSED MONITORING WELL CONSTRUCTION INFORMATION**

- Total Number of Wells to be constructed: 6 ; (A) Number to be completed in bedrock? 1  
(B) Number to be completed in unconsolidated material? 5
- Estimated depth of well(s): 40-70 feet
- Gravel or sand pack interval (if appropriate)  
From 23 feet To 40 feet  
or 63 70
- Type of casing used: PVC  
(ex: PVC, stainless steel, galvanized steel, etc.)
- Diameter of casing: 2 inches

FOR OFFICE USE ONLY	
___	PERMITTED ACTIVITY
___	U.S.T. LEAK DETECTION
___	GROUNDWATER QUALITY STANDARDS VIOLATIONS SUSPECTED FROM UNPERMITTED ACTIVITIES
___	NOTICE OF NON-COMPLIANCE AT UNPERMITTED FACILITIES
PERMIT NO. _____	ISSUED _____ 19 _____
INCIDENT # _____	