09-01-35
DWM

State of New Jersey

JOHN W. GASTON JR., P.E.
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
CN 029
TRENTON, NEW JERSEY 08625

DIRK C. HOFMAN, P.E.
DEPUTY DIRECTOR

September 21, 1984

Dr. Robert Baptista, Plant Manager
Mobay Chemical Company
East 2nd Street & Hobart Avenue
Bayonne, NJ 07002

Dear Dr. Baptista:

On August 13, 1984, a representative of the Division of Water Resources (DWR) conducted an inspection at the Mobay Chemical Corporation (MCC) facility in Bayonne. During the inspection the following observations were made:

1. An overflow of cooling water and washdown water was being discharged from Building #5 and entering a storm drain which ultimately discharges to the Kill Van Kull.

2. MCC does not possess nor has it ever applied for a New Jersey Pollution Discharge Elimination System (NJPDES) Permit to discharge water from its property in violation of N.J.S.A. 58:10A-6a.

3. Product spills in the driveway area adjacent to Building #8 were entering a storm drain which ultimately discharges to the Kill Van Kull.

Mobay Chemical Company is therefore directed to:

1. Immediately cease the discharge.

2. Apply for an NJPDES permit in accordance with NJPDES Regulations, N.J.A.C. 7:14A-1 et seq. for the overflow discharge.

3. Improve housekeeping methods to prevent spillage from entering storm drains.

4. Submit a written report to this office within thirty (30) days of the receipt of this letter detailing the corrective actions to be taken.

Failure to comply with this Directive may result in further enforcement action by this office. Therefore kindly devote your full attention to this matter. If you have any questions concerning this Directive, please contact Mr. Richard White of this office at 201-648-2200.

Very truly yours,

Thomas B. Harrington
Field Operations Supervisor
Metro Region
Enforcement Element

A53:G25

cc: Ms. Maryann M. Walsh, H.O.
Mr. R. Zellner, DWM
Mr. M. Bigley, DWM

COPY

STRYKER, TAMS & DILL
33 WASHINGTON STREET, NEWARK, N.J. 07102

March 1, 1985

Ms. Linda Weltrom
Department of Environmental Protection
Division of Water Resources
1474 Prospect Street
Trenton, New Jersey 08625

RE: Monitoring Data
Mobay Chemical Corp.
Bayonne Plant No. 1

Dear Linda:

Enclosed for your information please find a copy of Woodward-Clyde report dated February 12, 1985 setting forth the results from analyses of water samples taken on November 2, 1984. Mobay previously submitted ground water data to your office in reports dated June 10, 1982 and November 4, 1983.

As you know, monitoring wells 1, 2 and 3 were damaged during plant closure, Accordingly, it was necessary for Mobay to replace them. In addition, Mobay asked Woodward-Clyde to install upgradient (Well No. 4) and downgradiant (Well No. 5) wells. It is my understanding that you were on site when the wells were located and drilled.

[redacted]g Wells No. 1, 2, 4 and 5 were sampled on November [redacted] 1985, [redacted]onitoring Well No. 3 did not recover after purging [redacted] samp[redacted]ot be taken from this well. The analytical result[redacted] from [redacted] pollutant analyses are shown on Table 2 of the re[redacted]

BAK000017

TIERRA-B-004288

Ms. Linda Weltrom
Page [redacted]
March [redacted]

Please [redacted]at the levels of chlorobenzene, 1, 2 - dichlorobenz[redacted], 4-dichlorobenzene in Well No. 2 have decreased since the last round of analyses. However, these chemicals together with ethylbenzene were detected in Monitor Well No. 5. Based upon a comparison of the 1983 results with the present data, we believe there is a clear indication that (1) the source of the contamination has been removed; and (2) the ground water contamination is moving toward Newark Bay.

If you have any questions regarding this matter, please do not hesitate to contact me.

Very truly yours,

STRYKER, TAMS & DILL

David W. Reger

DWR:sa
encl.

cc: Dr. Harshal Vyas
Dr. Robert Baptista

Bureau of Industrial Site Evaluation
Environmental Cleanup Responsibility Act

Report of Inspection

ECRA CASE # 84-242 Date of Inspection 11/14/84

Inspection Category: Preliminary X Final

Inspector Deborah A. Boyea

Industrial Establishment Mobay Chemical Corporation

Location East 2nd Street & Hobart Avenue

Bayonne, Hudson County

Individuals Involved: Robert Baptista; Plant Manager, Mobay Chemical

Dr. Harshad Vyas - Mobay Chemical

David Reger, Attorney for Mobay Chemical

NARRATIVE DESCRIPTION: The facility, which is approximately 8 acres in size, is phasing out of the dye stuff and optical brighteners business. There are three production buildings, and warehouses,a maintenance shop, laboratories and an administrative building. One of the warehouses is a leased building. This building is owned by Bay Ridge Lumber, leased to Rollins and sublet to Mobay Chemical.

There are seven (7) underground storage tanks on site. Four fuel tanks will be excavated to determine their integrity. This area will be back-filled. The company was told a BISE representative must be present on-site to witness the excavation. The three remaining tanks, which contained Varsol, ammonia and mineral oil respectively, are empty and will be tested by Fairfield Maintenance.

The process waste water generated on-site is collected in concrete lined sump pits. From here the wastewater is pumped to treatment tanks for neutralization. After neutralization, the wastewater is discharged to the Bayonne Water Treatment Plant. In July, 1984 an underground wastewater transfer line broke. This caused process water to leak into a storm sewer which flowed into the Kill Van Kull.

The line was repaired and the NJDEP, DWR field operations personnel, dye tested the new line. All floor drains discharge to the sump and to the wastewater treatment tanks for neutralization.

BAK000020

During excavation of tanks near building 20, trimethyl base was found in the soil. At the time of the inspection, a 20 ft. area was excavated. The soil, storm water and nearby underground pipe were bright pink/red from the trimethyl base. No sampling is proposed for this area.

Along the west side of Building 20, were areas of visible soil contamination. One area was blue-green and another area was red. It was suggested that after excavation of the contamination, samples be taken to determine if the area was clean.

This facility is still producing a few products, but areas are presently being decommissioned. There are raw materials and wastes still on-site. There are numerous bags of asbestos waste from the demolition of old tray dryers.

The transformer area on site, located west of Building 20, appeared to be clean.

DEFICIENCIES NOTED:
1. Information pertaining to the contaminated area west of Building 20.
2. Sampling Plan biased toward areas of known spillage. Does not address entire site (random samplings).

ACTIONS REQUIRED ON THE PART OF THE APPLICANT:
1. Revise Sampling Plan to give an overall picture of the site. This includes both random and biased sample points.
2. Information pertaining to the contamination west of Building 20.
3. Prior notification of the excavation of the four oil tanks, to allow for a BISE representative to be present during the work. 48 hours notice is required.

Inspector/Case Manager Signature Debra A. Boyle

Approved: _____, Assistant Chief
Bureau of Industrial Site Evaluation

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
CN 029
TRENTON, NEW JERSEY 08625

George G. McCann, P.E.
Acting Director

DIRK C. HOFMAN, P.E.
DEPUTY DIRECTOR

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Dr. Harshad Vyas
Mobay Chemical Corporation
Mobay Road
Pittsburgh, PA 15205-9741

JUL 0 3 1986

Re: Issuance of Final NJPDES Discharge to Ground Water Permit
NJPDES Permit NJ0060933
Effective Date:

Dear Dr. Vyas:

Enclosed is the final NJPDES Discharge to Ground Water Permit issued in accordance with the New Jersey Pollutant Discharge Elimination System Regulations, N.J.A.C. 7:14A-1 et seq. Violation of any condition of this permit may subject you to significant penalties.

Within 30 calendar days following your receipt of this permit, under N.J.A.C. 7:14A-8.6 you may submit a request to the Administrator for an adjudicatory hearing to reconsider or contest the conditions of this permit. Regulations regarding the format and requirements for requesting an adjudicatory hearing may be found in N.J.A.C. 7:14A-8.9 through 8.13. The request should be sent to:

Administrator
Water Quality Management Element
Division of Water Resources
CN-029
Trenton, New Jersey 08625

Applications for renewal of this permit must be submitted at least 180 days prior to expiration of this permit pursuant to N.J.A.C. 7:14A-2.1 (f) 5.

BBD000001

If you have any questions on this action, please contact Tracy Wagner at (609) 292-0424.

Sincerely,

John J. Trela, Ph.D., Chief
Ground Water Quality Management

WQM151
Enclosures

Let's protect our earth!

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
CN 402
Trenton, N.J. 08625

PERMIT

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to the further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit.

Permit No.	Issuance Date	Effective Date	Expiration Date
NJ# 0060933	June 20, 1986	August 1, 1986	July 31, 1991

Name and Address of Applicant	Location of Activity/Facility	Name and Address of Owner
Mobay Chemical Corporation P.O. Box 385 Union Metropolitan Park Union, NJ 07083	Mobay Chemical Corporation Bayonne Plant No. 1 169 West 52nd Street Bayonne, NJ Hudson County	SAME AS APPLICANT

Issuing Division	Type of Permit	Statute(s)	Application No.
WATER RESOURCES	Interim NJPDES/Ground Water Monitoring Permit	N.J.S.A. 58:10A-1 et seq.	

This document requires Mobay Chemical Corporation to operate a ground water monitoring system, and based on the resulting data, conduct a soils contamination investigation and/or implement a ground water remediation program if deemed necessary pursuant to permit conditions.

Approved by the Department of Environmental Protection
BY AUTHORITY OF:
JOHN W. GASTON, JR., P.E.
DIRECTOR
DIVISION OF WATER RESOURCES

ARNOLD SCHIFFMAN, ADMINISTRATOR
WATER QUALITY MANAGEMENT

DATE

* *The word permit means "approval, certification, registration, etc."*

(GENERAL CONDITIONS ARE ON THE REVERSE SIDE.)

FACT SHEET
FOR THE NJPDES PERMIT TO DISCHARGE
INTO THE GROUND WATERS OF THE STATE

Name and Address of Applicant:

Mobay Chemical Corporation
Mobay Road
Pittsburgh, PA 15205-9741

Name and Address of Facility Where Discharge Occurs:

Mobay Chemical Corporation
Bayonne Plant #1
169 West 52nd Street
Bayonne, New Jersey
Hudson County

Receiving Water:

The past discharge was to an area with 15 to 20 feet of sand and gravel fill, and some silt and clay layers which overlie the Triassic Age Diabase formation. The ground water flows toward the Newark Bay.

Description of Facility:

The Mobay Chemical Corporation submitted a closure plan for its Plant #1 in Bayonne, New Jersey to the Bureau of Hazardous Waste Engineering (BHWE). The closure plan approval by the BHWE was issued on March 12, 1984. Certifications of closure from Mobay and from an independent Professional Engineer were submitted on June 24, 1985 that properly addressed all aspects of the closure plan approval.

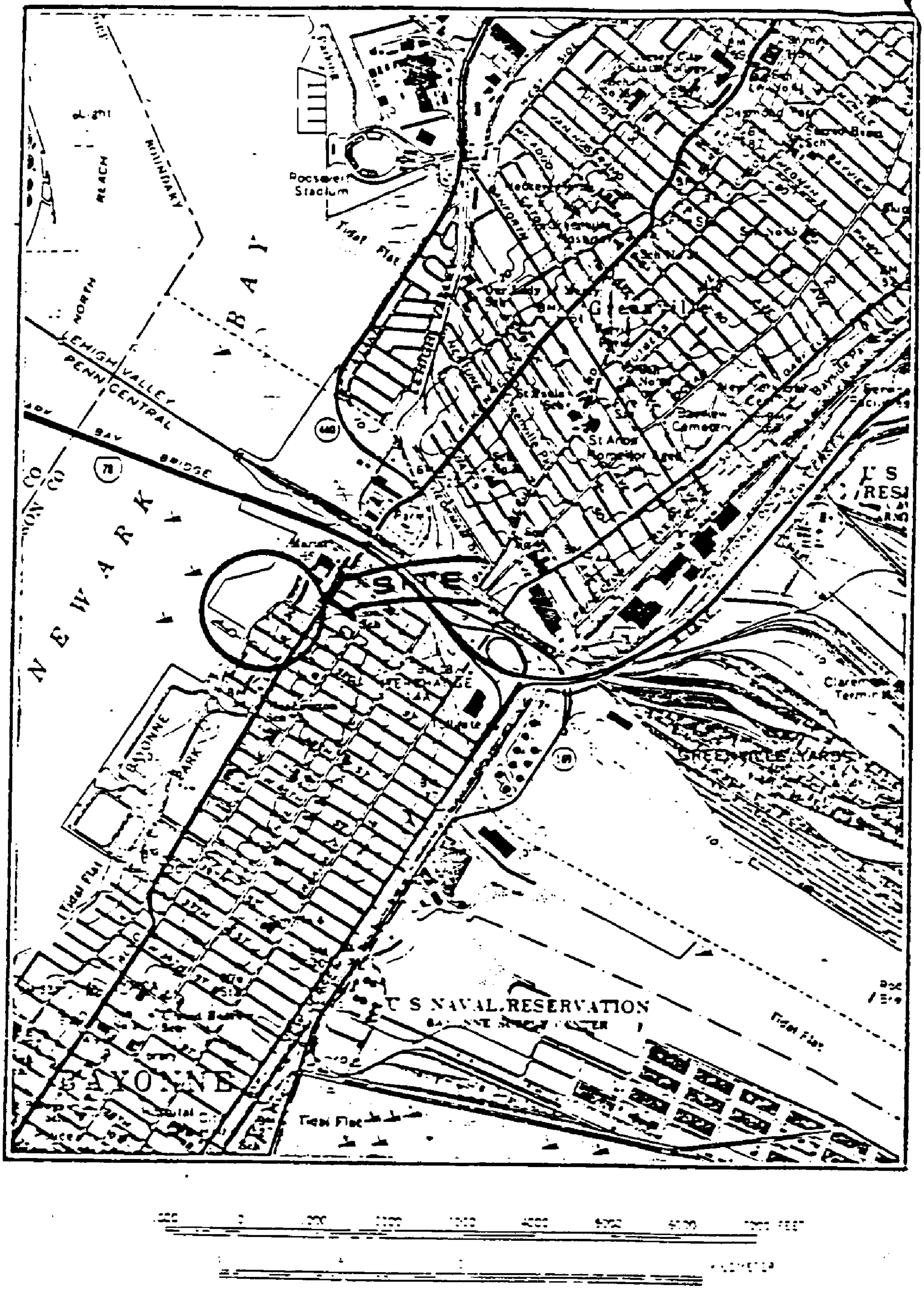
The plant was formerly a Dye and Pigment Manufacturing facility. Two above ground neutralization tanks were the RCRA treatment units at the facility. Three underground product storage tanks were also present on the site. The former locations of all the tanks are shown on Attachment 2, as well as the former layout of the plant buildings. Diethanolamine was stored in the underground tank on the northern side of the plant. Fuel oil was stored in two underground tanks on the southern side of the site. As reported in the September 20, 1982 report by Woodward Clyde Consultants, prior to the construction of Building S (20 to 30 years ago) chemical wastes were disposed of on that area.

Description of Discharge:

There is no current active discharge of a process wastewater at the site; all buildings, equipment, tanks, etc. have been removed. Five ground water monitoring wells were intalled on the site. These wells indicate contamination by volatile organic compounds (primarily chlorobenzene) due to actual past discharges of contaminants that occured at that facility. Past discharges are regulated by the New Jersey Pollutant Discharge Elimination System.

Permit Conditions:

According to the attached General and Specific Conditions.



REGIONAL LOCATION PLAN

Permit No. 0060933

CHECKLIST OF PARTS AND MODULES COMPRISING THIS NJPDES PERMIT

1. Cover Page

2. Checklist

3. Part I (General Conditions for All NJPDES Discharge Permits)

4. Part II - Additional General Conditions for the types of NJPDES Permits checked as follows:

____ Part II - A (Municipal/Sanitary)

____ Part II - B/C (Industrial/Commercial/Thermal)

____ Part II - L (SIU)

____ Part II - IWMF (Industrial Waste Management Facility)

____ Part II - DGW Specify type(s): _____

5. Part III - Effluent Limitations and Monitoring Requirements

____ Part III - A

____ Part III - B/C

____ Part III - L

__X__ Part III - DGW Specify type(s): Ground Water Monitoring Requirements and Limitations

6. Part IV - Special Conditions

____ Part IV - A

____ Part IV - B/C

____ Part IV - L

____ Part IV - IWMF

__X__ Part IV - DGW Specify type(s): Special Conditions for all DGW Permits

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

GENERAL CONDITIONS FOR ALL NJPDES DISCHARGE PERMITS

1. Duty to Comply

A. The permittee shall comply with all conditions of this New Jersey Pollutant Discharge Elimination System (NJPDES) permit. No pollutant shall be discharged more frequently than authorized or at a level in excess of that which is authorized by the permit. The discharge of any pollutant not specifically authorized in the NJPDES permit or listed and quantified in the NJPDES application shall constitute a violation of the permit, unless the permittee can prove by clear and convincing evidence that the discharge of the unauthorized pollutant did not result from any of the permittee's activities which contribute to the generation of its wastewaters. Any permit noncompliance constitutes a violation of the New Jersey Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.; hereinafter referred to as the State Act) or other authority of the NJPDES regulations (N.J.A.C. 7:14A-1 et seq.) and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

B. A permittee shall not achieve any effluent concentration by dilution. Nor shall a permittee increase the use of process water or cooling water or otherwise attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve permit limitations or water quality standards.

C. The permittee shall comply with applicable effluent standards or prohibitions established under Section 307 (a) of the "Federal Water Pollution Control Act" (PL 92-500 et seq.; hereinafter referred to as the Federal Act) and Section 4 of the State Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

D. The State Act provides that any person who violates a permit condition implementing the State Act is subject to a civil penalty not to exceed $10,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing the State Act is subject to a fine of not less than $2,500 nor more than $25,000 per day of violation, or by imprisonment for not more than 1 year, or both.

E. The permittee is required to comply with all other applicable federal, state and local rules, regulations, or ordinances. The issuance of this permit shall not be considered as a waiver of any other requirements.

2. Permit Expiration

This permit and the authorization to discharge shall expire at midnight on the expiration date of the permit. The permittee shall not discharge after the above date of expiration of the permit.

A. Duty to Reapply. If the permittee wishes to continue an activity regulated by a NJPDES permit after the expiration date of the permit, the permittee shall apply for and obtain a new permit. (If the activity is to be continued, the permittee shall complete, sign, and submit such information, forms, and fees as are required by the Department no later than 180 days before the expiration date.) The permittee shall follow the requirements stated in paragraph 12.A. when signing any application.

B. Continuation of Expiring Permits

(1) The conditions of an expired permit are continued in force pursuant to the "Administrative Procedure Act," N.J.S.A. 52:14B-11, until the effective date of a new permit if:

a. The permittee has submitted a timely and complete application for renewal as provided in Sections 2.1 and (3.2 DSW) (4.4 IWMF) (5.8 UIC) and Subchapter 10 of the NJPDES Regulations; and

b. The Department through no fault of the permittee, does not issue a new permit with an effective date under Section 8.6 of the NJPDES Regulations on or before the expiration date of the previous permit (e.g., when issuance is impracticable due to time or resource constraints).

(2) Permits continued under this section remain fully effective and enforceable.

(3) Enforcement. When the permittee is not in compliance with the conditions of the expiring or expired permit the Department may choose to do any or all of the following:

a. Initiate enforcement action based upon the permit which has been continued;

b. Issue a notice of intent to deny the new permit under Section 8.1 of the NJPDES Regulations. If the permit is denied, the owner or operator would then be required to cease the activities authorized by the continued permit or be subject to enforcement action for operating without a permit;

c. Issue a new permit under Subchapters 7 and 8 of the NJPDES Regulations with appropriate conditions; or

d. Take other actions authorized by the NJPDES Regulations or the State Act.

3. Duty to Halt or Reduce Activity

A. 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.

B. Upon reduction, loss, or failure of the treatment facility, the permittee shall, to the extent necessary to maintain compliance with its permit, control production or discharges or both until the facility is restored to its permitted limits or an alternative method of treatment is provided. This requirement applies, for example, when the primary source of power of the treatment facility fails or is reduced or lost.

4. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit, including but not limited to accelerated and/or additional types of monitoring, temporary repairs or other mitigating measures.

5. Proper Operation, Maintenance and Licensing

A. The permittee shall at all times maintain in good working order and operate as efficiently as possible all treatment works, facilities, and systems of treatment and control (and related appurtenances) for collection and treatment which are installed or used by the permittee for

water pollution control and abatement to achieve compliance with the terms and conditions of the permit. Proper operation and maintenance includes but is not limited to effective performance based on designed facility removals, adequate funding, effective management, adequate operator staffing and training and adequate laboratory and process controls including appropriate quality assurance procedures as described in 40 CFR Part 136 and applicable State Law and regulations. All permittees who operate a treatment works, except for sanitary landfills and land application of sludge or septage, must satisfy the licensing requirements of the "Licensing of Operators of Wastewater and Water Systems" N.J.S.A. 58:11-64 et seq. or other applicable law. This paragraph requires the operation of back-up or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit or where required by applicable law or regulation.

B. Facilities Operation and Operator Certification. The operation of any treatment works shall be under the supervision of an operator on the first day of operation of the treatment works and continually thereafter in accordance with paragraph 5.A above. The operator shall meet the requirements of the Department of Environmental Protection of the State of New Jersey pursuant to the provisions of N.J.S.A. 58:11-64 et seq. and amendments thereto. The name of the proposed operator shall be submitted to this Department in order that his qualifications may be determined prior to inititating operation of the proposed treatment works.

6. Permit Actions

A. This permit may be modified, suspended, revoked and reissued, or terminated for cause. 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.

B. Causes for modification, revocation and reissuance, and suspension are set forth in N.J.A.C. 7:14A-2.12 et seq.

C. The following are causes for terminating or modifying a permit during its term, or for denying a permit renewal application:

(1) Noncompliance by the permittee with any condition of the permit;

(2) Failure to pay applicable fees (N.J.A.C. 7:14A-1.8), including the annual NJPDES permit fee which has been assessed by the New Jersey Department of Environmental Protection (NJDEP, hereinafter referred to as the Department);

(3) The permittee's failure in the application or during the permit issuance process of a National Pollutant Discharge Elimination System (NPDES), Discharge Allocation Certificate (DAC), NJPDES, Treatment Works Approval (TWA) or Construct and Operate permit to disclose fully all relevant facts, or the permittee's misrepresentation of any permit condition;

(4) 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;

(5) When there is a change in any condition that requires either a temporary or a permanent reduction or elimination of any discharge controlled by the permit (for example, plant closure or termination of discharge by connection to a Domestic Treatment Works (DTW);

(6) The nonconformance of the discharge with any applicable facility, basin or areawide plans;

(7) If such permit is inconsistent with any duly promulgated effluent limitation, permit, regulation, statute, or other applicable state or federal law; or

(8) If a toxic effluent standard or prohibition is established pursuant to New Jersey Water Pollution Control Act N.J.S.A. 58:10A-1 et seq. or the regulations adopted pursuant to it, for a toxic pollutant which is present in the discharge, and such is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the permittee so notified of the revision or modification and date of required compliance.

7. Property Rights, Liability, and Other Laws

A. This permit does not convey and property rights of any sort or any exclusive privileges.

B. Nothing in this permit shall be deemed to preclude the institution of any legal action nor relieve the permittee from any responsibilities or penalties to which the permittee is or may be subject to under any federal, state or local law or regulation.

C. Nothing in this permit shall be construed to exempt the permittee from complying with the rules, regulations, policies, and/or laws lodged in any agency or subdivision in this State having legal jurisdiction.

8. Duty to Provide Information

A. The permittee shall furnish to the Director, Division of Water Resources, NJDEP, (hereinafter referred to as the Director),within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, suspending, 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.

B. Where the permittee becomes aware that he has failed to submit any relevant facts in a permit application, or has submitted incorrect information in a permit application or in any report to the Director, the permittee shall promptly submit such facts or information.

9. Inspection and Entry

A. The permittee shall allow the Regional Administrator of the United States Environmental Protection Agency (USEPA), the Department, or any authorized representative(s), upon the presentation of credentials and other documents as may be required by law, to:

(1) Enter upon the permittee's premises where a discharge source is or might be located or in which monitoring equipment or records required by a permit are kept, for purposes of inspection, sampling, copying or photographing. Photography shall be allowed only as related to the discharge;

(2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(3) Inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

(4) Sample or monitor, at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the State Act, any substances or parameters at any location. This shall include, but not be limited to, the drilling or installation of monitoring wells for

the purpose of obtaining samples of ground water, soil and vegetation and measuring ground water elevations.

B. Any refusal by the permittee, facility land owner(s), facility lessee(s), their agents, or any other person(s) with legal authority, to allow entry to the authorized representatives of the NJDEP and/or USEPA shall constitute grounds for suspension, revocation and/or termination of this permit.

C. By acceptance of this permit, the permittee hereby agrees, consents and authorizes the representatives of the NJDEP and/or USEPA to present a copy of this permit to any municipal or state police officer having jurisdiction over the premises occupied by the permittee in order to have said officer effectuate compliance with the right of entry, should the permittee at any time refuse to allow entry to said inspectors.

D. By acceptance of this permit, the permittee waives all rights to prevent inspections by authorized representatives of the NJDEP and/or USEPA to determine the extent of compliance with any and all conditions of this permit and agrees not to, in any manner, seek to charge said representatives with the civil or criminal act of trespass when they enter the premises occupied by the permittee in accordance with the provisions of this authorization as set forth hereinabove.

10. Ground Water Monitoring Wells

The permittee shall install and maintain ground water monitoring wells if required by this permit at locations and according to specifications provided by the Department. All permit required monitoring wells shall be installed within 30 days of the Effective Date of the Permit. The monitoring wells shall provide turbidity-free water at a minimum rate of two gallons per minute or what the formation will yield with a properly installed and developed ground water monitoring well.

When a monitoring well cannot be used for the purpose of sample collection or ground water level measurements, the permittee shall replace the well at his own expense within 30 days of the missed sampling and/or measurement date. Said unuseable wells shall be sealed, also at the permittee's own expense, in accordance with Department well sealing specifications within the same 30 day period in which the well is replaced. Monitoring wells as required in this permit shall be considered as a monitoring device, which are required to be maintained under the provisions of the New Jersey Water Pollution Control Act N.J.S.A. 58:10A-10(f).

All monitoring wells must be installed by a New Jersey licensed well driller. The elevation to the nearest hundredth of a foot of the top of each well casing shall be established by a New Jersey licensed land surveyor within 30 days of the installation of the monitoring wells. The elevation established shall be in relation to the New Jersey geodetic control datum. Ground water monitoring wells and all point source discharges to ground water shall be located by horizontal control (latitude and longitude) using third order work, class II specification and by vertical control (elevation) using third order work. Within 30 days of the installation date of the monitor well, the permittee shall submit to the Department completed "Ground Water Monitoring Well Certifications - Forms A and B for each well required to be sampled by the permit. Within 60 days of the Effective Date of the Permit, the permittee shall submit to the Department a plot plan of the facility showing the location of all discharges and the ground water monitoring well locations. The scale of the plot plan shall be at least one inch equals fifty (50) feet.

Each ground water monitoring well casing shall have permanently affixed to it a monitoring well number to be assigned by the Department, elevation of the top of the well casing, elevation of the top of the well casing above the ground level and latitude and longitude of the monitoring well.

11. Monitoring and Records

A. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

B. The State 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, upon conviction, be punished by a fine of no more than $10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both. This is specifically intended to include, but not be limited to, ground water monitoring wells and lysimeters.

C. The applicant shall perform all analyses in accordance with the analytical test procedures approved under 40 CFR Part 136. Where no approved test procedure is available, the applicant must indicate a suitable analytical procedure and must provide the Department with literature references or a detailed description of the procedure. The Department must approve the test procedure before it is used. The laboratory performing the analyses for compliance with this permit must be approved and/or certified by the Department for the analysis of those specific parameters. Information concerning laboratory approval and/or certification may be obtained from:

New Jersey Department of Environmental Protection
Office of Quality Assurance
CN 409
Trenton, New Jersey 08625
(609) 292-3950

D. 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 5 years from the date of the sample, measurement, report or application. This period may be extended by request of the Department at any time.

E. Records of monitoring information shall include:

(1) The date, exact place, and time of sampling or measurements;

(2) The individual(s) who performed the sampling or measurements;

(3) The date(s) analyses were performed;

(4) The individual(s) who performed the analyses;

(5) The analytical techniques or methods used; and

(6) The results of such analyses.

F. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) and/or on the Department's Monitoring Report Form (MRF); or, where these forms do not apply, in another format approved by the Department.

G. If the permittee monitors any pollutant more frequently than required by the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR, MRF, or other approved format.

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

I. Discharge Monitoring Reports

(1) Monitoring results shall be summarized and reported on the appropriate Monitoring Report Forms following the completed reporting period. Signed copies of these, and all other reports required herein, shall be submitted to the following address:

Water Quality Management
Division of Water Resources
CN 029
Trenton, New Jersey 08625
ATTN: Monitoring Reports

(2) If a contract laboratory is utilized, the permittee shall submit the name and address of the laboratory and the parameters analyzed at the time it submits its monitoring reports (See Section 11.E. above). Any change in the contract laboratory being used or the parameters analyzed shall be reported prior to or together with the monitoring report covering the period during which the change was made.

J. Monitoring Reports. Monitoring results shall be reported at the intervals and starting date specified elsewhere in this permit.

K. 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.

12. Signatory Requirement

A. Signature Requirements. All permit applications, except those submitted for Class II wells for a UIC discharge (see paragraph B) shall be signed as follows:

(1) For a corporation, by a principal executive officer of at least the level of vice president;

(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.

B. Reports. All reports required by permits, other information requested by the Department and all permit applications submitted for Class II wells under N.J.A.C. 7:14A-5.8 shall be signed by a person described in paragraph A of this section or by a duly authorized representative only if:

(1) The authorization is made in writing by a person described in paragraph A of this section;

(2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as a position of plant manager, operator of a well or well field, superintendent or person of equivalent responsibility; and

(3) The written authorization is submitted to the Department.

C. Changes to Authorization. If an authorization under paragraph B of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph B of this section shall be submitted to the Department prior to or together with any reports, information, or applications to be signed by an authorized representative.

D. Certification (N.J.A.C. 7:14A-2.4(d)). Any person signing any document under paragraph A or B of this section shall make the following certification: "I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

E. False Statements. Any person who knowingly makes a false statement, representation, or certification in any application, record, or other document filed or required to be maintained under the State Act shall upon conviction, be subject to a fine of not more than $10,000.00 or by imprisonment for not more than 6 months or by both.

13. Reporting Changes and Violations

A. Planned Changes. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. The permittee shall comply with N.J.A.C. 7:14A-12.1 et seq. which requires approval for building, installing, modifying, or operating treatment works. (NOTE: Sewer Extensions require such an approval. A connection of a single building through which less than 2000 gpd flows by gravity through a single lateral is exempt from the requirement to obtain the approval of this Department.). Construction of a sewer extension without this Department's approval will be a violation of this permit.

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

14. Reporting Noncompliance

A. The permittee shall report any noncompliance which may endanger health or the environment. The permittee shall provide the Department with the following information:

(1) A description of the discharge;

(2) Steps being taken to determine the cause of noncompliance;

(3) Steps being taken to reduce and eliminate the noncomplying discharge;

(4) The period of noncompliance, including exact dates and times. If the noncompliance has not been corrected, the anticipated time when the discharge will return to compliance;

(5) The cause of the noncompliance; and

(6) Steps being taken to reduce, eliminate, and prevent reoccurence of the noncomplying discharge.

B. The permittee shall orally provide the information in paragraphs A.(1) through (3) to the DEP Hotline (609) 292-7172 within 2 hours from the time the permittee becomes aware of the circumstances.

C. The permittee shall orally provide the information in paragraphs A.(4) through (5) to the DEP Hotline within 24 hours of the time the permittee becomes aware of the circumstances.

D. 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 the information in A.(1) through (6).

E. Other Noncompliance. The permittee shall report all instances of noncompliance not reported under paragraphs 11.J, 11.K, 13.A, and 14.A through D at the time monitoring reports are submitted. The reports shall contain the information required in the written submission listed in paragraph 14.D.

F. The following shall be reported to the Department in accordance with paragraphs 14.A through D:

(1) In the case of any discharge subject to any applicable toxic pollutant effluent standard under Section 307(a) of the Federal Act or under Section 6 of the State Act the information required by paragraphs 14.A(1) through (3) regarding a violation of such standard shall be provided to the Department within 2 hours from the time the permittee becomes aware of the circumstances. The information required by paragraphs 14.A(4) through (6) shall be provided to the Department within 24 hours from the time the permittee becomes aware of the circumstances. Where the information is provided orally, a written submission covering these points must be provided within five working days of the time the permittee becomes aware of the circumstances covered by this paragraph.

(2) In the case of other discharges which could constitute a threat to human health, welfare, or the environment, including but not limited to, discharge of pollutants designated under Section 311 of the Federal Act, under Section 6 of the State Act, under the "Spill Compensation and Control Act", N.J.S.A. 58:10-23.11 et seq., or under the "Safe Drinking Water Act", N.J.S.A. 58:12A-1 et seq., the information required by paragraph 14.A(1) through (3) shall be provided to the Department within 2 hours from the time the permittee becomes aware of the circumstances. The information required by paragraphs 14.A(4) through (6) shall be provided to the Department within 24 hours from the time the permittee becomes aware of the circumstances. Where the information is provided orally, a written submission covering these points must be provided within five working days of the time the permittee becomes aware of the circumstances covered by this paragraph.

(3) The information required in paragraphs 14.A(1) through (3) shall be provided to the Department within 2 hours where a discharge described under paragraphs 14.F(1) or (2) is located upstream of a potable water intake or well field. The information required by paragraphs 14.A(4) through (6) shall be provided to the Department within 24 hours. If this information is provided orally, a written submission covering these points must be provided within five days of the time the permittee becomes aware of the discharge.

(4) Any bypass which violates any effluent limitations in the permit shall be reported within 24 hours unless paragraphs 14.F(1) through (3) are applicable. (See Section 15.)

(5) Any upset which violates any effluent limitation in the permit shall be reported within 24 hours unless paragraphs 14.F(1) through (3) are applicable. (See Section 16.)

(6) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Department in the permit shall be reported within 24 hours unless paragraphs 14.F(1) through (3) are applicable (See N.J.A.C. 7:14A-3.13(a)7.).

15. Bypass

A. Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it is also for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs B. and C. of this section.

B. Notice

(1) Anticipated Bypass. If the permittee knows in advance of the need for a bypass, he shall submit prior notice, if possible, at least thirty (30) days before the date of the bypass.

(2) Unanticipated Bypass. The permittee shall submit notice of an unanticipated bypass as required in paragraph 14.F.(4).

C. Prohibition of Bypass

(1) Bypass is prohibited, and the Department 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 paragraph B of this section.

(2) The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three conditions listed above in paragraph C.(1) of this section.

16. Upset

A. Effect of An Upset. An upset may constitute an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of paragraph B. of this section are met. Where no determination was made during administrative review of claims that noncompliance was caused by upset, and there has been no Departmental action for noncompliance, the lack of such determination is final administrative action subject to judicial review.

B. 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:

(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;

(3) The permittee submitted notice of the upset as required in paragraph 14.F.(5); and

(4) The permittee complied with any remedial measures required under Section 4 above.

C. Burden of Proof. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

17. Emergency Plan (DSW and DGW permits only)

A. The permittee shall develop, submit, and implement an Emergency Plan report prepared in accordance with N.J.A.C 7:14A-3.12(b) unless exempted pursuant to N.J.A.C. 7:14A-3.12(e). If not previously submitted to and approved by NJDEP, the Emergency Plan (or a request for exemption) must be submitted within six (6) months of the effective date of the permit unless otherwise required by N.J.A.C. 7:14A-3.12(a).

B. Liability

(1) Submission of an Emergency Plan pursuant to this section shall not exempt a permittee from liability for violations arising from an emergency situation. A permittee shall take all necessary actions to mitigate the damage to the waters of the State arising from an emergency situation. Such actions shall not be limited by the emergency operating plan and the manual of procedures.

(2) Exemption from development of an Emergency Plan under this section does not exempt the permittee from liability for violations arising from an emergency situation. Such permittee shall take all necessary actions to mitigate the damage to the waters of the State arising from an emergency situation.

C. Violations

Failure to submit an emergency plan in compliance with paragraph A. of this section and failure to implement the emergency plan shall each constitute a violation of this permit.

18. Residuals Management

A. Collected grit and screenings, scums, sand bed sands, slurries, and sludges, and all other solids from the treatment process shall be disposed of in such a manner as to prevent such materials from entering the ground and/or surface waters of the state except in accordance with a NJPDES permit. If for any reason such materials are placed in the water or on the lands where they may cause pollutants to enter the ground and/or surface waters of the State, the following information shall be reported to the Division of Water Resources Enforcement Element together with the monitoring data required in Part I, Section 11.I.:

(1) Dates of occurrence;

(2) A description of the noncomplying discharge (nature and volume);

(3) Cause of noncompliance;

(4) Steps taken to reduce and eliminate the noncomplying discharge; and

(5) Steps taken to prevent recurrence of the condition of noncompliance.

B. The permittee shall not be permitted to store sludge on-site beyond the capacity of the structural treatment and storage componenets of the treatment facility, except in accordance with a NJPDES Emergency On-site storage Permit. Nor shall the permittee be permitted to store sludge on-site in any manner which is not in accordance with Solid Waste Management Rules, N.J.A.C. 7:26-1 et seq. Any violations must be reported by the permittee to the Division of Water Resources Enforcement Element within 24 hours.

C. The permittee shall comply with the Sludge Quality Assurance Regulations (N.J..A.C. 7:14-4.1 et seq.). Where quality information is required by these regulations analyses must reflect the quality of the final sludge product of which the permittee must dispose.

D. The permittee shall dispose of sludge from this facility in compliance with the New Jersey Solid Waste Management Act N.J.S.A. 13:1E-1 et seq., which requires conformance with Statewide and District Sludge Management Plans, and prohibits the disposal of municipal sewage sludge in landfills. The permittee shall also comply with all applicable rules and regulations promulgated pursuant to the Federal Resource Conservation and Recovery Act governing the treatment, storage and disposal of hazardous waste.

E. The permittee shall at all times have on file with the Department proof of proper disposal at a facility duly licensed and permitted by the State to dispose of sludge. To satisfy this requirement the permittee shall submit proof of ownership or contractual arrangement with a permitted facility for the composting, land application, thermal reduction, or other approved method of sludge disposal.

Where such permitted sludge disposal does not extend the full term of this permit, the permittee shall submit similar proof of new permitted disposal arrangements which shall become effective no later than the expiration date of previous arrangements. All such proofs of disposal site must be submitted to the Bureau of Permits Administration in duplicate to:

Chief
Bureau of Permits Administration
CN-029
Trenton, N.J. 08625
ATTN: Sludge Disposal Site Proof

F. By issuance of this permit the Department hereby gives the permittee notice that the permittee is bound by the New Jersey Pollutant Discharge Elimination System regulations regarding proper sludge disposal (Section 25 (a)13.).

G. The permittee shall comply with the Rules and Regulations for the Statewide Management of Septage Disposal (N.J.A.C. 7:14-5.1 et seq.).

H. The permittee shall conform with the requirements under Section 405 of the Federal Act governing the disposal of sewage sludge from publicly owned treatment works and with Sections 4 and 6 of the State Act.

19. Discharge Permitted

The permittee shall discharge to surface waters, land or ground waters of the State, directly or indirectly, only as authorized herein and consistent with the terms and conditions of this permit.

20. Operation Restrictions

The operation of a waste treatment or disposal facility shall at no time create: (1) a direct discharge to surface waters of the State, except as authorized by NJDEP; (2) a persistent standing or ponded condition for water or waste on the permittee's property except as specifically authorized by this permit, or (3) any standing or ponded condition for water or waste on adjacent properties unless these activities are specifically included within the permit.

21. Oil and Hazardous Substance Liability

The imposition of responsibilities upon, or the institution of any legal action against the permittee under Section 311 of the Federal Act shall be in conformance with regulations promulgated pursuant to Section 311 of the Federal Act governing the applicability of Section 311 to discharges from facilities with NPDES permits.

22. Reopener Clause for Toxic Effluent Limitations

Notwithstanding any other condition of this permit, if any applicable toxic effluent standards, limitation or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a)(2) of the Federal Clean Water Act or Sections 4 or 6 of the State Act for a toxic pollutant and that effluent standard, limitation, or prohibition is more stringent than any limitation on the pollutant in the permit (or controls a pollutant not limited in the permit), this permit shall be promptly modified or revoked and reissued to conform to that effluent standard, limitation or prohibition.

23. Availability of Information

A. NJPDES permits, effluent data, and information required by NJPDES application forms provided by the Regional Administrator or Director (including information submitted on the forms themselves

and any attachments used to supply information required by the forms) shall be available for public inspection at the offices of the Director.

B. In addition to the information set forth in paragraph A., any other information submitted to EPA and/or the Department in accordance with the conditions of this permit shall be made available to the public without further notice unless a claim of business confidentiality is asserted at the time of submission in accordance with the procedures in 40 CFR Part 2 (Public Information) and/or Subchapter 11 of the "Regulations Concerning the New Jersey Pollutant Discharge Elimination System."

C. If a claim of confidentiality is made for information other than that enumerated in paragraph A., the information shall be treated by the Department in accordance with the procedures in N.J.A.C. 7:14A-11.1 et seq. Only information determined to be confidential under those procedures shall not be made available by NJDEP for public inspection.

24. Effective Date of Permit

A. This permit shall become effective in its entirety on the date indicated (Effective Date) on the first page of this permit unless a request for an adjudicatory hearing is granted pursuant to the provisions of N.J.A.C. 7:14A-8.11 et seq.

B. For purposes of judicial review, final agency action on a permit does not occur unless and until a party has exhausted its administrative remedies under N.J.A.C. 7:14A-8.9 et seq. Any party which neglects or fails to seek such review thereby waives its opportunity to exhaust available agency remedies.

25. Transfer of Permit

A. This permit is not transferable to any person except after notice to the Department. The Department may require modification, revocation, 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 appropriate Act. (See N.J.A.C. 7:14A-2.12; in some cases, modification or revocation and reissuance is mandatory).

B. Transfer by Modification. Except as provided in paragraph (C) of this section, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued (under Section 2.12(c)1.ii.) or a minor modification made (under Section 2.14(a)4. of the NJPDES Regulations), to identify the new permittee and incorporate such other requirements as may be necessary under the State and Federal Acts.

C. Automatic Transfers. As an alternative to transfers under paragraph (B) of this section, any NJPDES permit, except a UIC permit for a well injecting hazardous waste, may be automatically transferred to a new permittee if:

(1) The current permittee notified the Department in writing by certified mail of the proposed transfer as follows:

a. Where production levels, products produced, rates of discharge, and wastewater characteristics will remain unchanged, the following information shall be submitted at least 90 days prior to a proposed transfer date:

(1) Name and address of current facility;

(2) Name and address of new owners;

(3) NJPDES permit number;

(4) Names of the new principal persons responsible;

(5) Names of persons upon whom legal process can be served; and

(6) A notarized statement signed by the new principal officer stating that he has read the NJPDES permit and agrees to abide by all the conditions of the permit and that the production levels, products produced, rates of discharge, and wastewater characteristics will remain unchanged.

b. Where there will be a change in production levels, products produced, rates of discharge, or wastewater characteristics, the information required in paragraph 25.C(1)(a)above shall be submitted at least 180 days prior to a proposed transfer date.

(2) The current permittee shall include in the notice of proposed transfer a written agreement between the existing and new permittee which includes a specific date for transfer of permit responsibility, coverage, and liability between the parties. In the case of a UIC permit, the notice shall demonstrate that the financial responsibility requirements of Section 5.10(a)7. of the NJPDES Regulations will be met by the new permittee;

(3) The Department does not notify the existing permittee and the proposed new permittee, within thirty (30) days of receipt of notice of proposed transfer, of an intent to modify, revoke or revoke and reissue the permit or, for a discharge to surface water (DSW), require a DAC. A modification under this paragraph may also be a minor modification under Section 2.14 of the NJPDES Regulations. If such notice is not received, the transfer is effective on the date specified in the agreement mentioned in paragraph 25.C(2) of this section; and

(4) Whenever the regulated discharge has ceased prior to the proposed permit transfer, any compliance schedule shall not be automatically reinstated but shall be subject to revision or complete withdrawal if circumstances leading to its imposition have changed.

26. 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.

27. Stay of Conditions, N.J.A.C. 7:14-8.10

A request for an adjudicatory hearing shall not automatically result in a stay of the conditions of this permit.

28. Definitions

A. Unless otherwise stated, all terms shall be as defined in the "Regulations Concerning the New Jersey Pollutant Discharge Elimination System", N.J.A.C. 7:14A-1 et seq.

(1) "Aliquot" means a sample of specified volume used to make up a total composite sample.

(2) "Bypass" means the intentional diversion of wastes from any portion of a treatment facility.

(3) "Composite" means a combination of individual (or continuously taken) samples (aliquots) of at least 100 milliliters, collected at periodic intervals over the entire discharge day. The composite must be flow proportional; either the time interval between each aliquot or the volume of each aliquot must be proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot. Aliquots may be collected manually or automatically. For a continuous discharge, a minimum of 24 aliquots (at hourly intervals) shall be collected and combined to constitute a 24-hour composite sample. For intermittent discharges of more than 4 hours duration, aliquots shall be taken at a minimum of 30-minute intervals. For intermittent discharges of less than 4 hours duration, aliquots shall be taken at a minimum of 15-minute intervals.

(4) "EDP" means Effective Date of Permit.

(5) "Grab" means an individual sample of at least 100 milliliters collected over a period not exceeding 15 minutes.

(6) "Monthly" means one day each month (the same day each month) and a normal operating day (e.g., the 2nd Tuesday of each month).

(7) "Multiple Grab Composite" - means a combination of individual samples (aliquots) collected at a specified frequency over a specified time period. Each aliquot must be collected in a glass vial with septum cap, filled to the top leaving no air bubbles, and iced until delivered for analysis. Each aliquot shall be analyzed individually. The recorded value will be flow proportioned average of the individual analyses for the specific time period.

(8) "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 preventative maintenance, or careless or improper operation.

(9) "Weekly" means every seventh day (the same day each week) and a normal operating day.

29. Annual Permit Fee, N.J.A.C. 7:14A-1.8

The permittee shall pay the annual NJPDES permit fee which has been assessed by the Department.

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GROUND WATER MONITORING REQUIREMENTS AND LIMITATIONS

The permittee shall sample a total of five monitoring wells according to the schedule below. All ground water elevations must be determined prior to pumping and sampling the wells. Sampling of the wells shall be performed according to the methodology specified in Section 6.12 of the NJPDES regulations and the Departments's Field Procedures Manual for Water Data Acquisition. The permittee shall sample for all parameters listed below. Sampling shall be performed and reported during the months which are specified for that parameter.

PARAMETER	LIMITATION		SAMPLING MONTH	SAMPLE TYPE	REPORTING MONTH
Elevation of top of monitor well casing with cap removed (to be determined once but reported as indicated)			FebMayAugNov	N/A	MarJunSepNov
Depth to Water Table from top of casing with cap removed prior to sampling			FebMayAugNov	N/A	MarJunSepNov
Depth to Water Table from original ground level prior to sampling			FebMayAugNov	N/A	MarJunSepNov
First year of Final Permit					
Chemical Oxygen Demand (COD)	---	ppm	FebMayAugNov	grab	MarJunSepNov
pH	5-9	SU	FebMayAugNov	grab	MarJunSepNov
Specific Conductance	(unho/cm)		FebMayAugNov	grab	MarJunSepNov
Total Dissolved Solids (TDS)	500	ppm	FebMayAugNov	grab	MarJunSepNov
Total Organic Carbon (TOC)	---	ppm	FebMayAugNov	grab	MarJunSepNov
Total Volatile Organics by GC/MS plus next 20 peaks	10	ppb*	FebMayAugNov	grab	MarJunSepNov
Remaining Term of Permit					
Chemical Oxygen Demand (COD)	---	ppm	April August	grab	May September
pH	5-9	SU	April August	grab	May September
Specific Conductance	(unho/cm)		April August	grab	May September
Total Dissolved Solids (TDS)	500	ppm	April August	grab	May September
Total Organic Carbon (TOC)	---	ppm	April August	grab	May Septmeber
Total Volatile Organics by GC/MS plus next 20 peaks	10	ppb*	April August	grab	May September

*See Part IV. Special Condition 10

GROUND WATER MONITORING REQUIREMENTS AND LIMITATIONS - cont'd

NOTES:

1* A) By membrane filtration, not to exceed four per 100 ml in more than one sample when less than 20 are examined per month, or B) by fermentation tube, with a standard 10 ml portion, not to be present in three or more portions in more than one sample when less than 20 are examined per month, or C) prevailing criteria adopted pursuant to the Federal Safe Drinking Water Act (PL 93-523).

2* Prevailing regulations adopted by USEPA pursuant to Sections 1412, 1415, and 1450 of the Public Health Services Act as amended by the Safe Drinking Water Act (PL 93-523).

3* GC/MS scan for volatile organics with a method limit of detection of 10 ppb or better for each substance. The concentration shall be the 10^{-6} Cancer Risk for specific volatile organic chemicals listed in Appendix F of the NJPDES regulations which have a value for the 10^{-6} Cancer Risk. In no case shall the total concentration for all volatile organic chemicals exceed 50 ppb.

The permittee shall complete the forms required on the "Monitoring Report - Transmittal Sheet" (Form T-VWX-014) which is included as a part of this Permit. Failure to submit sampling data on the forms required on the "Monitoring Report - Transmittal Sheet" shall be considered by the Department to be a violation of the Permit sampling requirements and may place the Permittee subject to civil and administrative penalties pursuant to N.J.S.A. 58:10A-10.

It shall be solely the Permittee's responsibility to maintain an adequate supply of the required report forms.

Satisfactory ground water monitoring wells are defined in Section 6.13 of the NJPDES regulations and shall be subject to Departmental approval. If ground water monitoring wells do not meet these standards, they must be replaced with new wells meeting Departmental standards.

A Ground Water Monitoring Well Certification (Forms A and B) shall be completed for each existing and proposed monitoring well. Information for each well must be shown on a separate form. For an existing well, if the information required on the Ground Water Monitoring Well Certification (Forms A and B) cannot be determined or the ground water monitoring well is not adequately constructed to meet the requirements of this Permit, the Department reserves the right to require a replacement well. Criteria to be used by the Department in judging the adequacy of a well will be related to the ability of the well to provide a representative ground water sample at any time of the year specified by the Permit. Any replacement well must be installed within a 10 foot radius of the existing well. Inadequate or damaged existing wells must be properly sealed pursuant to N.J.A.C. 58:4A-4.1. Instructions regarding sealing may obtained by contacting the Water Allocation Office at (609)984-6831.

Special Conditions for all NJPDES/DGW Permits

1. A ground water monitoring well as required by this permit is a monitoring device under N.J.S.A. 58:10A-10 and as such the permittee is required to maintain the wells in proper working order at all times. The permittee is further required to take any and all reasonable steps necessary to limit public access by constructing fences, barricades, or any other structures or means necessary to restrict access to the ground water monitoring well(s). Said structures shall be maintained to restrict access.

2. The owner or operator shall inspect each ground water monitoring well on a monthly basis for structural integrity and/or damage. The permittee shall maintain a complete inspection record indicating dates of inspection, inspector's name, and conditions observed. These records shall be made available to the Department upon request. Failure to maintain or submit records upon request shall be a violation of the conditions of this permit.

3. If the monitoring wells are damaged or are otherwise rendered inadequate for their intended purpose, the Administrator, Water Quality Management Element, shall be notified within five days in writing indicating:

   (a) Which wells were damaged or rendered inadequate for their intended use;

   (b) The cause and extent of damage or the reason for the inadequacy;

   (c) If the sampling schedule as required in this permit will be violated or if the results of the sampling may reasonably become misleading;

   (d) The date that the well will again be operational. Damaged wells must be replaced or repaired within thirty (30) days after the damage has occurred. The wells must be sampled within fourteen (14) days after they have been installed. A replacement well must meet the construction requirements established by the Department. A valid New Jersey well permit is required prior to the installation of the replacement well;

   (e) The next date that the well will be sampled.

Failure to follow these procedures is a violation of this permit and may subject the permittee to the provisions of N.J.S.A. 58:10A-10.

4. The permittee must obtain and analyze samples from the ground water monitoring system as required by this permit pursuant to the NJDEP Field Procedures Manual for Water Data Acquisition and as delineated in N.J.A.C. 7:14A-6.12. A chain of custody record for each sample shall be maintained at the facility and may be requested and/or examined by the Department. The permittee or his/her agent shall avacuate the ground water monitoring well(s) according to the procedures identified in Section 6.12 of the NJPDES regulations no more than four (4) hours prior to sample collection.

5. All samples shall be analyzed by a New Jersey Certified Laboratory. Sampling results shall be reported on forms provided by the Division of Water Resources and attached as Part III of this permit. Information not reported on the above specified forms shall not be deemed to fulfill the reporting requirements of this permit. It shall be the permittee's responsibility to maintain an adequate supply of forms to report round water monitoring data to the Department.

6. The permittee shall submit to the Department "Ground Water Monitoring Well Certifications - Forms A and B" for each ground water monitoring well which is required to be sampled in the permit. The Ground Water Monitoring Well Certifications shall be submitted to:

Tracy Wagner
NJDEP-Div. of Water Resources
Bur. of Ground Water Discharge Permits
CN-029
Trenton, NJ 08625

within 60 days of the Effective Date of the permit.

7. The permittee shall sample the ground water monitoring wells in the following order:

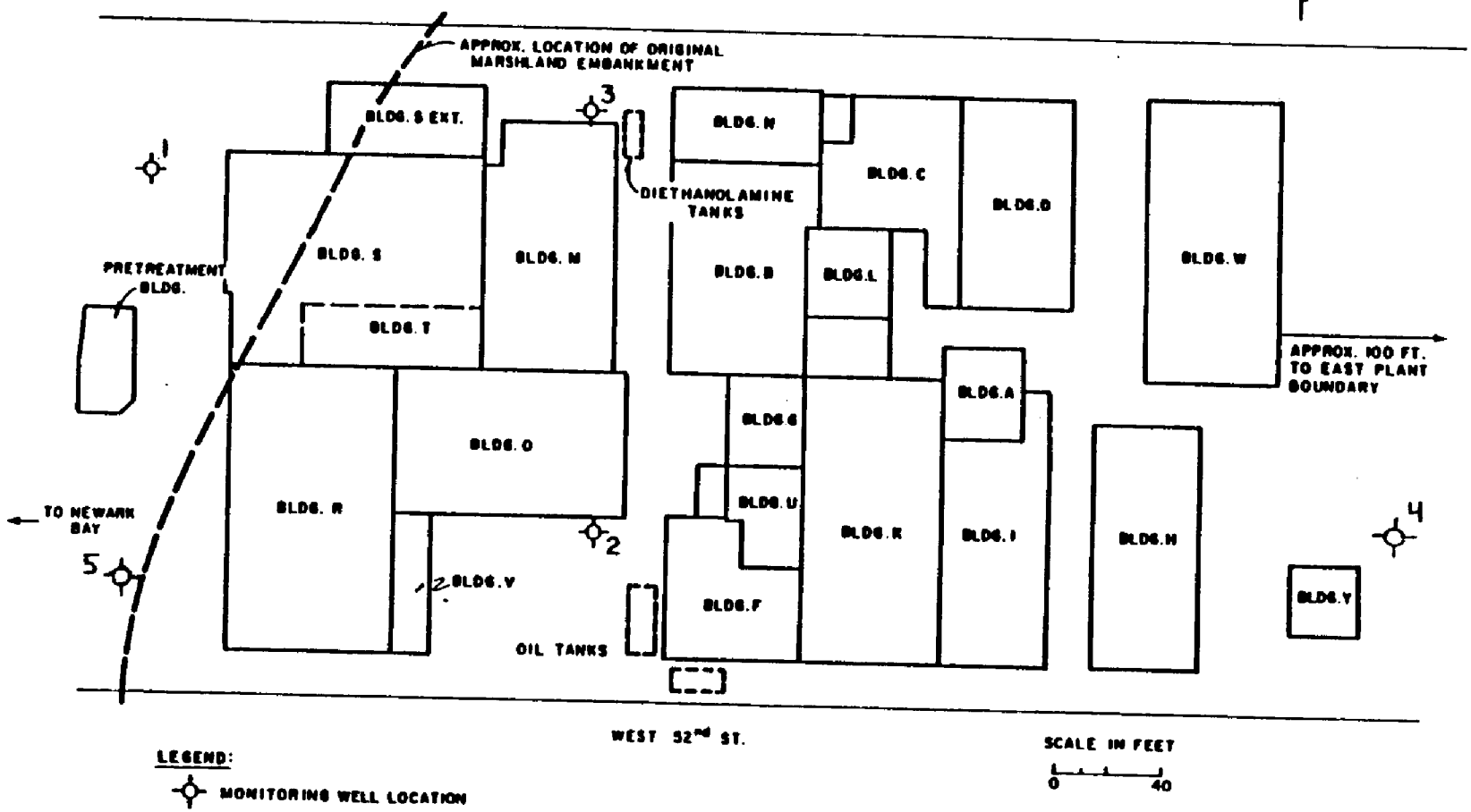
1. MW4
2. MW3
3. MW1
4. MW5
5. MW2

8. The following sections of the "General Conditions for all NJPDES Discharge Permits" (Part I of this permit) do not apply to this facility: Paragraph 11, part I; Paragraph 15; 16; 18; 19; and 20.

9. If ground water monitoring under this permit reveals concentrations greater than 500 ppb of total volatile organics in any well, Mobay must submit a plan for soil sampling within 60 days of the first round sampling date. The plan must be implemented within 30 days of approval and completed within 90 days of approval.

10. The Department will not take enforcement action against Mobay if VOPP's are the only permit exceedance.

11. If the ground water standards of Part III, Page 1 of 2 are met for three consecutive sampling rounds in the months indicated, the Department will, upon written request consider termination of this NJPDES document. The request must be pursuant to Section 2.13 of the NJPDES regulations.



MONITORING WELL LOCATION MAP
MOBAY CHEMICAL CORPORATION
PLANT NO. 1

Woodward-Clyde Consultants

Form T-VWX-014
5/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

MONITORING REPORT — TRANSMITTAL SHEET

NJPDES NO.	REPORTING PERIOD MO. YR.		MO. YR.
0101610191313		THRU	

PERMITTEE: Name Mobay Chemical Corporation (MCC)

Address P.O. Box 385, Union Metropolitan Park

Union, New Jersey 07083

FACILITY: Name MCC Bayonne Plant #1

Address 169 West 52nd Street

Bayonne, NJ (County) Hudson

Telephone (201) 686-3700

FORMS ATTACHED *(Indicate Quantity of Each)*

SLUDGE REPORTS - SANITARY

☐ T-VWX-007 ☐ T-VWX-008 ☐ T-VWX-009

SLUDGE REPORTS - INDUSTRIAL

☐ T-VWX-010A ☐ T-VWX-010B

WASTEWATER REPORTS

☐ T-VWX-011 ☐ T-VWX-012 ☐ T-VWX-013

GROUNDWATER REPORTS

10 VWX-015(A,B) 5 VWX-016 ☐ VWX-017

NPDES DISCHARGE MONITORING REPORT

☐ EPA FORM 3320-1

OPERATING EXCEPTIONS

	YES	NO
DYE TESTING	☐	☐
TEMPORARY BYPASSING	☐	☐
DISINFECTION INTERRUPTION	☐	☐
MONITORING MALFUNCTIONS	☐	☐
UNITS OUT OF OPERATION	☐	☐
OTHER	☐	☐

(Detail any "Yes" on reverse side in appropriate space.)

NOTE: The "Hours Attended at Plant" on the reverse of this sheet must also be completed.

AUTHENTICATION - I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

LICENSED OPERATOR	PRINCIPAL EXECUTIVE OFFICER or DULY AUTHORIZED REPRESENTATIVE
Name *(Printed)* _____	Name *(Printed)* _____
Grade & Registry No. _____	Title *(Printed)* _____
Signature _____	Signature _____
Date _____	Date _____

Form VWX-015 A
4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

MW- 1

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Mobay Chemical Corporation, Bayonne Plant #1 | SW ID NO.

LAB NAME

NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. | MO. | DAY	NJ LAB CERT. NO.	WQM USE
R NJ 0 0 6 0 9 3 3 (1; 2–8)	(9–16)	(17–22)	(23–27)	(28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS: Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	X			X			X			X		Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01			
	X			X			X			X		Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01			
	X			X			X			X		Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	82546		
	X			X			X			X		Depth to water table from original ground level prior to sampling	feet: to nearest .01	72019		
												Arsenic, Dissolved	UG/L as As	01000		
												Barium, Dissolved	UG/L as Ba	01005		
												Biochemical Oxygen Demand - 5 Day	MG/L	00310		
												Cadmium, Dissolved	UG/L as Cd	01025		
												Chloride, Dissolved	UG/L as Cl	82295		
												Chromium, Dissolved	UG/L as Cr	01030		
												Chromium, Dissolved, Hexavalent	UG/L as Cr	01220		
	X			X			X			X		Chemical Oxygen Demand (COD), Dissolved	MG/L	00341		
												Coliform Group	N/100 ML	74056		
												Color	Pt - Co	00080		
												Copper, Dissolved	UG/L as Cu	01040		
												Cyanide, Total	MG/L as CN	00720		
												Endrin, Total	UG/L	39390		
												Fluoride, Dissolved	MG/L as F	00950		
												Gross Alpha, Dissolved	Pc/L	01503		
												Gross Beta, Dissolved	Pc/L	03503		
												Hardness, Total as $CaCO_3$	MG/L	00900		
												Iron, Dissolved	UG/L as Fe	01046		
												Lead, Dissolved	UG/L as Pb	01049		
												Lindane, Total	UG/L	39782		
												Manganese, Dissolved	UG/L	01056		
												Mercury, Dissolved	UG/L	71890		

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

Form VWX-015 B
4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT MW- 1

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME Mobay Chemical Corporation, Bayonne Plant #1 | SW ID NO.

LAB NAME

NJPDES NO. NJ 0 0 6 0 9 3 3 (2–8)

WELL PERMIT NO. (9–16)

SAMPLE DATE YR. | MO. | DAY (17–22)

NJ LAB CERT. NO. (23–27)

WQM USE (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
												Methoxychlor, Total	UG/L	39480		
												Methylene Blue Active Substances	MG/L	38260		
												Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608		
												Nitrogen, Nitrate, Dissolved	MG/L as N	00618		
												Odor	T.O.N.	00085		
	X			X			X			X		pH	Standard Units	00400		
												Phenols, Total Recoverable	UG/L	32730		
												Radium 226, Dissolved	Pc/L	09503		
												Radium 228, Dissolved	Pc/L	81366		
												Selenium, Dissolved	UG/L	01145		
												Silver, Dissolved	UG/L	01075		
												Sodium, Dissolved	MG/L	00930		
												Sulfate, Dissolved (as SO_4)	MG/L	00946		
	X			X			X			X		Total Dissolved Solids (TDS)	PPM	70300		
												Total Organic Carbon (TOC)	PPM	00680		
												Total Organic Halogen (TOX)	UG/L	70353		
												Toxaphene	UG/L	39400		
												Turbidity	NTU	00076		
												Zinc, Dissolved	UG/L	01090		
												2, 4–D, Total	UG/L	39370		
												2, 4, 5–TP, Total	UG/L	39045		

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

VALUE CODING RULES AND
REMARK CODES ON REVERSE

Form VWX-016
4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

MW- 1

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Mobay Chemical Corporation, Bayonne Plant #1

SW ID NO.:

LAB NAME:

T (1)	NJPDES NO. NJ 0 0 6 0 9 3 3 (2–8)	WELL PERMIT NO. (9–16)	SAMPLE DATE YR. MO. DAY (17–22)	NJ LAB CERT. NO. (23–27)	WQM USE (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS												ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.					
	X			X			X			X		Acrylonitrile	UG/L	34215		
	X			X			X			X		Benzene	UG/L	34030		
	X			X			X			X		Bromoform	UG/L	32104		
	X			X			X			X		Carbon Tetrachloride	UG/L	32102		
	X			X			X			X		Chlorobenzene	UG/L	34301		
	X			X			X			X		Chlorodibromoethane	UG/L	34306		
	X			X			X			X		Chloroform	UG/L	32106		
	X			X			X			X		1, 1 - Dichloroethane	UG/L	34496		
	X			X			X			X		1, 2 - Dichloroethane	UG/L	34531		
	X			X			X			X		1, 1 - Dichloroethylene	UG/L	34501		
	X			X			X			X		1, 2 - Dichloropropane	UG/L	34541		
	X			X			X			X		Ethylbenzene	UG/L	34371		
	X			X			X			X		Methylene Chloride	UG/L	34423		
	X			X			X			X		1, 1, 2, 2 - Tetrachloroethane	UG/L	34516		
	X			X			X			X		Tetrachloroethylene	UG/L	34475		
	X			X			X			X		Toluene	UG/L	34012		
	X			X			X			X		1, 1, 1 - Trichloroethane	UG/L	34506		
	X			X			X			X		1, 1, 2 - Trichloroethane	UG/L	34511		
	X			X			X			X		Trichloroethylene	UG/L	39180		
	X			X			X			X		Vinyl Chloride	UG/L	39175		
	X			X			X			X		Acrolein	UG/L	34210		
	X			X			X			X		Chloroethane	UG/L	34311		
	X			X			X			X		2 - Chloroethylvinyl Ether	UG/L	34576		
	X			X			X			X		Dichlorobromomethane	UG/L	32105		
	X			X			X			X		1, 3 - Dichloropropylene	UG/L	34699		
	X			X			X			X		Methyl Bromide	UG/L	34413		
	X			X			X			X		Methyl Chloride	UG/L	34418		
	X			X			X			X		1, 2 - trans - Dichloroethylene	UG/L	34546		
	X			X			X			X		1, 2 Dichlorobenzene	UG/L	34536		
	X			X			X			X		1, 3 Dichlorobenzene	UG/L	34566		
	X			X			X			X		1, 4 Dichlorobenzene	UG/L	34571		

VALUE CODING RULES AND
REMARK CODES ON REVERSE

Form VWX-015 A
4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

MW-2

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Mobay Chemical Corporation, Bayonne Plant #1 | SW ID NO.

LAB NAME

NJPDES NO. NJ 0 0 6 0 9 3 3 (2–8)

WELL PERMIT NO. (9–16)

SAMPLE DATE YR. | MO. | DAY (17–22)

NJ LAB CERT. NO. (23–27)

WQM USE (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	X			X			X			X		Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01			
	X			X			X			X		Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01			
	X			X			X			X		Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	82546		
	X			X			X			X		Depth to water table from original ground level prior to sampling	feet: to nearest .01	72019		
												Arsenic, Dissolved	UG/L as As	01000		
												Barium, Dissolved	UG/L as Ba	01005		
												Biochemical Oxygen Demand - 5 Day	MG/L	00310		
												Cadmium, Dissolved	UG/L as Cd	01025		
												Chloride, Dissolved	UG/L as Cl	82295		
												Chromium, Dissolved	UG/L as Cr	01030		
												Chromium, Dissolved, Hexavalent	UG/L as Cr	01220		
	X			X			X			X		Chemical Oxygen Demand (COD), Dissolved	MG/L	00341		
												Coliform Group	N/100 ML	74056		
												Color	Pt - Co	00080		
												Copper, Dissolved	UG/L as Cu	01040		
												Cyanide, Total	MG/L as CN	00720		
												Endrin, Total	UG/L	39390		
												Fluoride, Dissolved	MG/L as F	00950		
												Gross Alpha, Dissolved	Pc/L	01503		
												Gross Beta, Dissolved	Pc/L	03503		
												Hardness, Total as $CaCO_3$	MG/L	00900		
												Iron, Dissolved	UG/L as Fe	01046		
												Lead, Dissolved	UG/L as Pb	01049		
												Lindane, Total	UG/L	39782		
												Manganese, Dissolved	UG/L	01056		
												Mercury, Dissolved	UG/L	71890		

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

VALUE CODING RULES AND
REMARK CODES ON REVERSE

GROUND WATER ANALYSIS – MONITORING WELL REPORT

MW- 2

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Mobay Chemical Corporation, Bayonne Plant #1 | SW ID NO.

LAB NAME

NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
NJ 0 0 6 0 9 3 3 (2–8)	(9–16)	(17–22)	(23–27)	(28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS												ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.					
												Methoxychlor, Total	UG/L	39480		
												Methylene Blue Active Substances	MG/L	38260		
												Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608		
												Nitrogen, Nitrate, Dissolved	MG/L as N	00618		
												Odor	T.O.N.	00085		
	X			X			X			X		pH	Standard Units	00400		
												Phenols, Total Recoverable	UG/L	32730		
												Radium 226, Dissolved	Pc/L	09503		
												Radium 228, Dissolved	Pc/L	81366		
												Selenium, Dissolved	UG/L	01145		
												Silver, Dissolved	UG/L	01075		
												Sodium, Dissolved	MG/L	00930		
												Sulfate, Dissolved (as SO_4)	MG/L	00946		
	X			X			X			X		Total Dissolved Solids (TDS)	PPM	70300		
												Total Organic Carbon (TOC)	PPM	00680		
												Total Organic Halogen (TOX)	UG/L	70353		
												Toxaphene	UG/L	39400		
												Turbidity	NTU	00076		
												Zinc, Dissolved	UG/L	01090		
												2, 4–D, Total	UG/L	39370		
												2, 4, 5–TP, Total	UG/L	39045		

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

VALUE CODING RULES AND
REMARK CODES ON REVERSE

Form VWX-016
4/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT MW-2

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Mobay Chemical Corporation, Bayonne Plant #1 | SW ID NO.

LAB NAME

T | NJPDES NO. NJ 0 0 6 0 9 3 3 (2–8) | WELL PERMIT NO. (9–16) | SAMPLE DATE YR. MO. DAY (17–22) | NJ LAB CERT. NO. (23–27) | WQM USE (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	X			X			X			X		Acrylonitrile	UG/L	34210		
	X			X			X			X		Benzene	UG/L	34030		
	X			X			X			X		Bromoform	UG/L	32104		
	X			X			X			X		Carbon Tetrachloride	UG/L	32102		
	X			X			X			X		Chlorobenzene	UG/L	34301		
	X			X			X			X		Chlorodibromoethane	UG/L	34306		
	X			X			X			X		Chloroform	UG/L	32106		
	X			X			X			X		1, 1 - Dichloroethane	UG/L	34496		
	X			X			X			X		1, 2 - Dichloroethane	UG/L	34531		
	X			X			X			X		1, 1 - Dichloroethylene	UG/L	34501		
	X			X			X			X		1, 2 - Dichloropropane	UG/L	34541		
	X			X			X			X		Ethylbenzene	UG/L	34371		
	X			X			X			X		Methylene Chloride	UG/L	34423		
	X			X			X			X		1, 1, 2, 2 - Tetrachloroethane	UG/L	34516		
	X			X			X			X		Tetrachloroethylene	UG/L	34475		
	X			X			X			X		Toluene	UG/L	34012		
	X			X			X			X		1, 1, 1 - Trichloroethane	UG/L	34506		
	X			X			X			X		1, 1, 2 - Trichloroethane	UG/L	34511		
	X			X			X			X		Trichloroethylene	UG/L	39180		
	X			X			X			X		Vinyl Chloride	UG/L	39175		
	X			X			X			X		Acrolein	UG/L	34210		
	X			X			X			X		Chloroethane	UG/L	34311		
	X			X			X			X		2 - Chloroethylvinyl Ether	UG/L	34576		
	X			X			X			X		Dichlorobromomethane	UG/L	32105		
	X			X			X			X		1, 3 - Dichloropropylene	UG/L	34699		
	X			X			X			X		Methyl Bromide	UG/L	34413		
	X			X			X			X		Methyl Chloride	UG/L	34418		
	X			X			X			X		1, 2 - trans - Dichloroethylene	UG/L	34546		
	X			X			X			X		1, 2 Dichlorobenzene	UG/L	34536		
	X			X			X			X		1, 3 Dichlorobenzene	UG/L	34566		
	X			X			X			X		1, 4 Dichlorobenzene	UG/L	34571		

VALUE CODING RULES AND
REMARK CODES ON REVERSE

Form VWX-015 A
4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

MW-3

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Mobay Chemical Corporation, Bayonne Plant #1 | SW ID NO.:

LAB NAME:

R (1) | NJPDES NO.: NJ 0 0 6 0 9 3 3 (2–8) | WELL PERMIT NO. (9–16) | SAMPLE DATE YR. MO. DAY (17–22) | NJ LAB CERT. NO. (23–27) | WQM USE (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	X			X			X			X		Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01			
	X			X			X			X		Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01			
	X			X			X			X		Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	82546		
	X			X			X			X		Depth to water table from original ground level prior to sampling	feet: to nearest .01	72019		
												Arsenic, Dissolved	UG/L as As	01000		
												Barium, Dissolved	UG/L as Ba	01005		
												Biochemical Oxygen Demand - 5 Day	MG/L	00310		
												Cadmium, Dissolved	UG/L as Cd	01025		
												Chloride, Dissolved	UG/L as Cl	82295		
												Chromium, Dissolved	UG/L as Cr	01030		
												Chromium, Dissolved, Hexavalent	UG/L as Cr	01220		
	X			X			X			X		Chemical Oxygen Demand (COD), Dissolved	MG/L	00341		
												Coliform Group	N/100 ML	74056		
												Color	Pt - Co	00080		
												Copper, Dissolved	UG/L as Cu	01040		
												Cyanide, Total	MG/L as CN	00720		
												Endrin, Total	UG/L	39390		
												Fluoride, Dissolved	MG/L as F	00950		
												Gross Alpha, Dissolved	Pc/L	01503		
												Gross Beta, Dissolved	Pc/L	03503		
												Hardness, Total as $CaCO_3$	MG/L	00900		
												Iron, Dissolved	UG/L as Fe	01046		
												Lead, Dissolved	UG/L as Pb	01049		
												Lindane, Total	UG/L	39782		
												Manganese, Dissolved	UG/L	01056		
												Mercury, Dissolved	UG/L	71890		

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

VALUE CODING RULES AND
REMARK CODES ON REVERSE

Form VWX-015 B
4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

MW- 3

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Mobay Chemical Corporation, Bayonne Plant #1 | SW ID NO.

LAB NAME

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
	NJ 0 0 6 0 9 3 3				
	2 – 8	9 – 16	17 – 22	23 – 27	28

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS												ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.					
												Methoxychlor, Total	UG/L	39480		
												Methylene Blue Active Substances	MG/L	38260		
												Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608		
												Nitrogen, Nitrate, Dissolved	MG/L as N	00618		
												Odor	T.O.N.	00085		
	X		X				X			X		pH	Standard Units	00400		
												Phenols, Total Recoverable	UG/L	32730		
												Radium 226, Dissolved	Pc/L	09503		
												Radium 228, Dissolved	Pc/L	81366		
												Selenium, Dissolved	UG/L	01145		
												Silver, Dissolved	UG/L	01075		
												Sodium, Dissolved	MG/L	00930		
												Sulfate, Dissolved (as SO_4)	MG/L	00946		
	X			X			X			X		Total Dissolved Solids (TDS)	PPM	70300		
												Total Organic Carbon (TOC)	PPM	00680		
												Total Organic Halogen (TOX)	UG/L	70353		
												Toxaphene	UG/L	39400		
												Turbidity	NTU	00076		
												Zinc, Dissolved	UG/L	01090		
												2, 4–D, Total	UG/L	39370		
												2, 4, 5–TP, Total	UG/L	39045		

29 – 42 – 55 – 68 | 33 34 – 46 47 – 59 60 – 72 73 | 40 41 – 53 54 – 66 67 – 79 80

VALUE CODING RULES AND
REMARK CODES ON REVERSE

Form VWX-016
4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT MW- 3

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Mobay Chemical Corporation, Bayonne Plant #1 | SW ID NO.

LAB NAME

NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
T (1) NJ 0 0 6 0 9 3 3 (2–8)	(9–16)	(17–22)	(23–27)	(28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	X			X			X			X		Acrylonitrile	UG/L	34215		
	X			X			X			X		Benzene	UG/L	34030		
	X			X			X			X		Bromoform	UG/L	32104		
	X			X			X			X		Carbon Tetrachloride	UG/L	32102		
	X			X			X			X		Chlorobenzene	UG/L	34301		
	X			X			X			X		Chlorodibromoethane	UG/L	34306		
	X			X			X			X		Chloroform	UG/L	32106		
	X			X			X			X		1, 1 - Dichloroethane	UG/L	34496		
	X			X			X			X		1, 2 - Dichloroethane	UG/L	34531		
	X			X			X			X		1, 1 - Dichloroethylene	UG/L	34501		
	X			X			X			X		1, 2 - Dichloropropane	UG/L	34541		
	X			X			X			X		Ethylbenzene	UG/L	34371		
	X			X			X			X		Methylene Chloride	UG/L	34423		
	X			X			X			X		1, 1, 2, 2 - Tetrachloroethane	UG/L	34516		
	X			X			X			X		Tetrachloroethylene	UG/L	34475		
	X			X			X			X		Toluene	UG/L	34012		
	X			X			X			X		1, 1, 1 - Trichloroethane	UG/L	34506		
	X			X			X			X		1, 1, 2 - Trichloroethane	UG/L	34511		
	X			X			X			X		Trichloroethylene	UG/L	39180		
	X			X			X			X		Vinyl Chloride	UG/L	39175		
	X			X			X			X		Acrolein	UG/L	34210		
	X			X			X			X		Chloroethane	UG/L	34311		
	X			X			X			X		2 - Chloroethylvinyl Ether	UG/L	34576		
	X			X			X			X		Dichlorobromomethane	UG/L	32105		
	X			X			X			X		1, 3 - Dichloropropylene	UG/L	34699		
	X			X			X			X		Methyl Bromide	UG/L	34413		
	X			X			X			X		Methyl Chloride	UG/L	34418		
	X			X			X			X		1, 2 - trans - Dichloroethylene	UG/L	34546		
	X			X			X			X		1, 2 Dichlorobenzene	UG/L	34536		
	X			X			X			X		1, 3 Dichlorobenzene	UG/L	34566		
	X			X			X			X		1, 4 Dichlorobenzene	UG/L	34571		

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

VALUE CODING RULES AND
REMARK CODES ON REVERSE

Form VWX-015 A
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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

MW-4

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Mobay Chemical Corporation, Bayonne Plant #1 | SW ID NO.:

LAB NAME:

NJPDES NO.: NJ 0 0 6 0 9 3 3 (cols 2–8)

WELL PERMIT NO.: (cols 9–16)

SAMPLE DATE: YR. | MO. | DAY (cols 17–22)

NJ LAB CERT. NO.: (cols 23–27)

WQM USE: (col 28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS												ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.					
	X			X			X			X		Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01			
	X			X			X			X		Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01			
	X			X			X			X		Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	82546		
	X			X			X			X		Depth to water table from original ground level prior to sampling	feet: to nearest .01	72019		
												Arsenic, Dissolved	UG/L as As	01000		
												Barium, Dissolved	UG/L as Ba	01005		
												Biochemical Oxygen Demand - 5 Day	MG/L	00310		
												Cadmium, Dissolved	UG/L as Cd	01025		
												Chloride, Dissolved	UG/L as Cl	82295		
												Chromium, Dissolved	UG/L as Cr	01030		
												Chromium, Dissolved, Hexavalent	UG/L as Cr	01220		
	X			X			X			X		Chemical Oxygen Demand (COD), Dissolved	MG/L	00341		
												Coliform Group	N/100 ML	74056		
												Color	Pt - Co	00080		
												Copper, Dissolved	UG/L as Cu	01040		
												Cyanide, Total	MG/L as CN	00720		
												Endrin, Total	UG/L	39390		
												Fluoride, Dissolved	MG/L as F	00950		
												Gross Alpha, Dissolved	Pc/L	01503		
												Gross Beta, Dissolved	Pc/L	03503		
												Hardness, Total as $CaCO_3$	MG/L	00900		
												Iron, Dissolved	UG/L as Fe	01046		
												Lead, Dissolved	UG/L as Pb	01049		
												Lindane, Total	UG/L	39782		
												Manganese, Dissolved	UG/L	01056		
												Mercury, Dissolved	UG/L	71890		

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

VALUE CODING RULES AND
REMARK CODES ON REVERSE

Form VWX-015 B
4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT MW- 4

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME Mobay Chemical Corporation, Bayonne Plant #1 | SW ID NO.

LAB NAME

NJPDES NO. NJ 0 0 6 0 9 3 3 (cols 2–8) | WELL PERMIT NO. (cols 9–16) | SAMPLE DATE YR. MO. DAY (cols 17–22) | NJ LAB CERT. NO. (cols 23–27) | WQM USE (col 28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
												Methoxychlor, Total	UG/L	39480		
												Methylene Blue Active Substances	MG/L	38260		
												Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608		
												Nitrogen, Nitrate, Dissolved	MG/L as N	00618		
												Odor	T.O.N.	00085		
	X			X			X			X		pH	Standard Units	00400		
												Phenols, Total Recoverable	UG/L	32730		
												Radium 226, Dissolved	Pc/L	09503		
												Radium 228, Dissolved	Pc/L	81366		
												Selenium, Dissolved	UG/L	01145		
												Silver, Dissolved	UG/L	01075		
												Sodium, Dissolved	MG/L	00930		
												Sulfate, Dissolved (as SO_4)	MG/L	00946		
	X			X			X			X		Total Dissolved Solids (TDS)	PPM	70300		
												Total Organic Carbon (TOC)	PPM	00680		
												Total Organic Halogen (TOX)	UG/L	70353		
												Toxaphene	UG/L	39400		
												Turbidity	NTU	00076		
												Zinc, Dissolved	UG/L	01090		
												2, 4–D, Total	UG/L	39370		
												2, 4, 5–TP, Total	UG/L	39045		

SAMPLING MONTHS

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT MW- 4

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

NAME: Mobay Chemical Corporation, Bayonne Plant #1 | SW ID NO.

LAB NAME

NJPDES NO.: T NJ 0 0 6 0 9 3 3 (2–8)

WELL PERMIT NO. (9–16)

SAMPLE DATE YR. MO. DAY (17–22)

NJ LAB CERT. NO. (23–27)

WQM USE (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	X			X			X			X		Acrylonitrile	UG/L	34215		
	X			X			X			X		Benzene	UG/L	34030		
	X			X			X			X		Bromoform	UG/L	32104		
	X			X			X			X		Carbon Tetrachloride	UG/L	32102		
	X			X			X			X		Chlorobenzene	UG/L	34301		
	X			X			X			X		Chlorodibromoethane	UG/L	34306		
	X			X			X			X		Chloroform	UG/L	32106		
	X			X			X			X		1, 1 - Dichloroethane	UG/L	34496		
	X			X			X			X		1, 2 - Dichloroethane	UG/L	34531		
	X			X			X			X		1, 1 - Dichloroethylene	UG/L	34501		
	X			X			X			X		1, 2 - Dichloropropane	UG/L	34541		
	X			X			X			X		Ethylbenzene	UG/L	34371		
	X			X			X			X		Methylene Chloride	UG/L	34423		
	X			X			X			X		1, 1, 2, 2 - Tetrachloroethane	UG/L	34516		
	X			X			X			X		Tetrachloroethylene	UG/L	34475		
	X			X			X			X		Toluene	UG/L	34012		
	X			X			X			X		1, 1, 1 - Trichloroethane	UG/L	34506		
	X			X			X			X		1, 1, 2 - Trichloroethane	UG/L	34511		
	X			X			X			X		Trichloroethylene	UG/L	39180		
	X			X			X			X		Vinyl Chloride	UG/L	39175		
	X			X			X			X		Acrolein	UG/L	34210		
	X			X			X			X		Chloroethane	UG/L	34311		
	X			X			X			X		2 - Chloroethylvinyl Ether	UG/L	34576		
	X			X			X			X		Dichlorobromomethane	UG/L	32105		
	X			X			X			X		1, 3 - Dichloropropylene	UG/L	34699		
	X			X			X			X		Methyl Bromide	UG/L	34413		
	X			X			X			X		Methyl Chloride	UG/L	34418		
	X			X			X			X		1, 2 - trans - Dichloroethylene	UG/L	34546		
	X			X			X			X		1, 2 Dichlorobenzene	UG/L	34536		
	X			X			X			X		1, 3 Dichlorobenzene	UG/L	34566		
	X			X			X			X		1, 4 Dichlorobenzene	UG/L	34571		

VALUE CODING RULES AND
REMARK CODES ON REVERSE

Form VWX-015 A
4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

MW-5

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Mobay Chemical Corporation, Bayonne Plant #1 | SW ID NO.

LAB NAME

R (1) | NJPDES NO. NJ 0 0 6 0 9 3 3 (2–8) | WELL PERMIT NO. (9–16) | SAMPLE DATE YR. MO. DAY (17–22) | NJ LAB CERT. NO. (23–27) | WQM USE (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	X			X			X			X		Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01			
	X			X			X			X		Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01			
	X			X			X			X		Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	82546		
	X			X			X			X		Depth to water table from original ground level prior to sampling	feet: to nearest .01	72019		
												Arsenic, Dissolved	UG/L as As	01000		
												Barium, Dissolved	UG/L as Ba	01005		
												Biochemical Oxygen Demand - 5 Day	MG/L	00310		
												Cadmium, Dissolved	UG/L as Cd	01025		
												Chloride, Dissolved	UG/L as Cl	82295		
												Chromium, Dissolved	UG/L as Cr	01030		
												Chromium, Dissolved, Hexavalent	UG/L as Cr	01220		
	X			X			X			X		Chemical Oxygen Demand (COD), Dissolved	MG/L	00341		
												Coliform Group	N/100 ML	74056		
												Color	Pt - Co	00080		
												Copper, Dissolved	UG/L as Cu	01040		
												Cyanide, Total	MG/L as CN	00720		
												Endrin, Total	UG/L	39390		
												Fluoride, Dissolved	MG/L as F	00950		
												Gross Alpha, Dissolved	Pc/L	01503		
												Gross Beta, Dissolved	Pc/L	03503		
												Hardness, Total as $CaCO_3$	MG/L	00900		
												Iron, Dissolved	UG/L as Fe	01046		
												Lead, Dissolved	UG/L as Pb	01049		
												Lindane, Total	UG/L	39782		
												Manganese, Dissolved	UG/L	01056		
												Mercury, Dissolved	UG/L	71890		

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

MW- 5

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Mobay Chemical Corporation, Bayonne Plant #1

SW ID NO.

LAB NAME

NJPDES NO. NJ 0 0 6 0 9 3 3 (2–8)

WELL PERMIT NO. (9–16)

SAMPLE DATE YR. | MO. | DAY (17–22)

NJ LAB CERT. NO. (23–27)

WQM USE (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS												ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.					
												Methoxychlor, Total	UG/L	39480		
												Methylene Blue Active Substances	MG/L	38260		
												Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608		
												Nitrogen, Nitrate, Dissolved	MG/L as N	00618		
												Odor	T.O.N.	00085		
	X			X			X			X		pH	Standard Units	00400		
												Phenols, Total Recoverable	UG/L	32730		
												Radium 226, Dissolved	Pc/L	09503		
												Radium 228, Dissolved	Pc/L	81366		
												Selenium, Dissolved	UG/L	01145		
												Silver, Dissolved	UG/L	01075		
												Sodium, Dissolved	MG/L	00930		
												Sulfate, Dissolved (as SO_4)	MG/L	00946		
	X			X			X			X		Total Dissolved Solids (TDS)	PPM	70300		
												Total Organic Carbon (TOC)	PPM	00680		
												Total Organic Halogen (TOX)	UG/L	70353		
												Toxaphene	UG/L	39400		
												Turbidity	NTU	00076		
												Zinc, Dissolved	UG/L	01090		
												2, 4–D, Total	UG/L	39370		
												2, 4, 5–TP, Total	UG/L	39045		

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

VALUE CODING RULES AND
REMARK CODES ON REVERSE

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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT MW-5

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Mobay Chemical Corporation, Bayonne Plant #1 | SW ID NO.:

LAB NAME:

T (1) | NJPDES NO. NJ 0060933 (2–8) | WELL PERMIT NO. (9–16) | SAMPLE DATE YR. MO. DAY (17–22) | NJ LAB CERT. NO. (23–27) | WQM USE (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	X			X			X			X		Acrylonitrile	UG/L	34215		
	X			X			X			X		Benzene	UG/L	34030		
	X			X			X			X		Bromoform	UG/L	32104		
	X			X			X			X		Carbon Tetrachloride	UG/L	32102		
	X			X			X			X		Chlorobenzene	UG/L	34301		
	X			X			X			X		Chlorodibromoethane	UG/L	34306		
	X			X			X			X		Chloroform	UG/L	32106		
	X			X			X			X		1, 1 - Dichloroethane	UG/L	34496		
	X			X			X			X		1, 2 - Dichloroethane	UG/L	34531		
	X			X			X			X		1, 1 - Dichloroethylene	UG/L	34501		
	X			X			X			X		1, 2 - Dichloropropane	UG/L	34541		
	X			X			X			X		Ethylbenzene	UG/L	34371		
	X			X			X			X		Methylene Chloride	UG/L	34423		
	X			X			X			X		1, 1, 2, 2 - Tetrachloroethane	UG/L	34516		
	X			X			X			X		Tetrachloroethylene	UG/L	34475		
	X			X			X			X		Toluene	UG/L	34012		
	X			X			X			X		1, 1, 1 - Trichloroethane	UG/L	34506		
	X			X			X			X		1, 1, 2 - Trichloroethane	UG/L	34511		
	X			X			X			X		Trichloroethylene	UG/L	39180		
	X			X			X			X		Vinyl Chloride	UG/L	39175		
	X			X			X			X		Acrolein	UG/L	34210		
	X			X			X			X		Chloroethane	UG/L	34311		
	X			X			X			X		2 - Chloroethylvinyl Ether	UG/L	34576		
	X			X			X			X		Dichlorobromomethane	UG/L	32105		
	X			X			X			X		1, 3 - Dichloropropylene	UG/L	34699		
	X			X			X			X		Methyl Bromide	UG/L	34413		
	X			X			X			X		Methyl Chloride	UG/L	34418		
	X			X			X			X		1, 2 - trans - Dichloroethylene	UG/L	34546		
	X			X			X			X		1, 2 Dichlorobenzene	UG/L	34536		
	X			X			X			X		1, 3 Dichlorobenzene	UG/L	34566		
	X			X			X			X		1, 4 Dichlorobenzene	UG/L	34571		

VALUE CODING RULES AND
REMARK CODES ON REVERSE

Form VWX-015 A
4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS -- MONITORING WELL REPORT

MW-

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Mobay Chemical Corporation, Bayonne Plant #1 | SW ID NO.:

LAB NAME:

R (1) | NJPDES NO. NJ 0 0 6 0 9 3 3 (2-8) | WELL PERMIT NO. (9-16) | SAMPLE DATE YR. MO. DAY (17-22) | NJ LAB CERT. NO. (23-27) | WQM USE (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS: Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	X			X			X			X		Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01			
	X			X			X			X		Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01			
	X			X			X			X		Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	82546		
	X			X			X			X		Depth to water table from original ground level prior to sampling	feet: to nearest .01	72019		
												Arsenic, Dissolved	UG/L as As	01000		
												Barium, Dissolved	UG/L as Ba	01005		
												Biochemical Oxygen Demand - 5 Day	MG/L	00310		
												Cadmium, Dissolved	UG/L as Cd	01025		
												Chloride, Dissolved	UG/L as Cl	82295		
												Chromium, Dissolved	UG/L as Cr	01030		
												Chromium, Dissolved, Hexavalent	UG/L as Cr	01220		
	X			X			X			X		Chemical Oxygen Demand (COD), Dissolved	MG/L	00341		
												Coliform Group	N/100 ML	74056		
												Color	Pt - Co	00080		
												Copper, Dissolved	UG/L as Cu	01040		
												Cyanide, Total	MG/L as CN	00720		
												Endrin, Total	UG/L	39390		
												Fluoride, Dissolved	MG/L as F	00950		
												Gross Alpha, Dissolved	Pc/L	01503		
												Gross Beta, Dissolved	Pc/L	03503		
												Hardness, Total as $CaCO_3$	MG/L	00900		
												Iron, Dissolved	UG/L as Fe	01046		
												Lead, Dissolved	UG/L as Pb	01049		
												Lindane, Total	UG/L	39782		
												Manganese, Dissolved	UG/L	01056		
												Mercury, Dissolved	UG/L	71890		

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

VALUE CODING RULES AND
REMARK CODES ON REVERSE

Form VWX-015 B
4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

MW-

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Mobay Chemical Corporation, Bayonne Plant #1

SW ID NO.:

LAB NAME:

NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
S NJ 0 0 6 0 9 3 3 (1, 2–8)	(9) – (16)	(17–22)	(23–27)	(28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS (Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.)	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	Methoxychlor, Total	UG/L	39480		
	Methylene Blue Active Substances	MG/L	38260		
	Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608		
	Nitrogen, Nitrate, Dissolved	MG/L as N	00618		
	Odor	T.O.N.	00085		
X X X X	pH	Standard Units	00400		
	Phenols, Total Recoverable	UG/L	32730		
	Radium 226, Dissolved	Pc/L	09503		
	Radium 228, Dissolved	Pc/L	81366		
	Selenium, Dissolved	UG/L	01145		
	Silver, Dissolved	UG/L	01075		
	Sodium, Dissolved	MG/L	00930		
	Sulfate, Dissolved (as SO_4)	MG/L	00946		
X X X X	Total Dissolved Solids (TDS)	PPM	70300		
	Total Organic Carbon (TOC)	PPM	00680		
	Total Organic Halogen (TOX)	UG/L	70353		
	Toxaphene	UG/L	39400		
	Turbidity	NTU	00076		
	Zinc, Dissolved	UG/L	01090		
	2, 4–D, Total	UG/L	39370		
	2, 4, 5–TP, Total	UG/L	39045		

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

VALUE CODING RULES AND
REMARK CODES ON REVERSE

Form VWX-016
4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT MW-

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Mobay Chemical Corporation, Bayonne Plant #1 | SW ID NO.

LAB NAME

NJPDES NO. (1): T | NJ 0 0 6 0 9 3 3 (2–8)

WELL PERMIT NO. (9–16):

SAMPLE DATE (17–22): YR. MO. DAY

NJ LAB CERT. NO. (23–27):

WQM USE (28):

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM MO. YR. TO MO. YR.

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS												ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.					
	X			X			X			X		Acrylonitrile	UG/L	34215		
	X			X			X			X		Benzene	UG/L	34030		
	X			X			X			X		Bromoform	UG/L	32104		
	X			X			X			X		Carbon Tetrachloride	UG/L	32102		
	X			X			X			X		Chlorobenzene	UG/L	34301		
	X			X			X			X		Chlorodibromoethane	UG/L	34306		
	X			X			X			X		Chloroform	UG/L	32106		
	X			X			X			X		1, 1 - Dichloroethane	UG/L	34496		
	X		X			X				X		1, 2 - Dichloroethane	UG/L	34531		
	X			X			X			X		1, 1 - Dichloroethylene	UG/L	34501		
	X			X			X			X		1, 2 - Dichloropropane	UG/L	34541		
	X			X			X			X		Ethylbenzene	UG/L	34371		
	X			X			X			X		Methylene Chloride	UG/L	34423		
	X			X			X			X		1, 1, 2, 2 - Tetrachloroethane	UG/L	34516		
	X			X			X			X		Tetrachloroethylene	UG/L	34475		
	X			X			X			X		Toluene	UG/L	34012		
	X			X			X			X		1, 1, 1 - Trichloroethane	UG/L	34506		
	X			X			X			X		1, 1, 2 - Trichloroethane	UG/L	34511		
	X			X			X			X		Trichloroethylene	UG/L	39180		
	X		X				X			X		Vinyl Chloride	UG/L	39175		
	X			X			X			X		Acrolein	UG/L	34210		
	X			X			X			X		Chloroethane	UG/L	34311		
	X			X			X			X		2 - Chloroethylvinyl Ether	UG/L	34576		
	X			X			X			X		Dichlorobromomethane	UG/L	32105		
	X			X			X			X		1, 3 - Dichloropropylene	UG/L	34699		
	X			X			X			X		Methyl Bromide	UG/L	34413		
	X			X			X			X		Methyl Chloride	UG/L	34418		
	X			X			X			X		1, 2 - trans - Dichloroethylene	UG/L	34546		
	X			X			X			X		1, 2 Dichlorobenzene	UG/L	34536		
	X			X			X			X		1, 3 Dichlorobenzene	UG/L	34566		
	X			X			X			X		1, 4 Dichlorobenzene	UG/L	34571		

VALUE CODING RULES AND
REMARK CODES ON REVERSE

MEMO NEW JERSEY STATE DEPARTMENT OF HEALTH

TO Mr. Hoffman

FROM Mr. Delgado DATE March 25, 1970

SUBJECT Discharge of Wastes from Norton & Son to Kill Van Kull via City of Bayonne's Ingham Avenue Storm Relief Sewer

The City of Bayonne has a "combined" sewerage system, or a system in which wastewater and storm runoff flow in the same pipe. Because of the large volumes of sewage in periods of wet weather, it is necessary to bypass a portion of the sewage to local watercourses in times of storms. This is done with devices known as regulators which divert a portion of the sewage to local watercourses when flows exceed a given quantity.

One of these regulators is located at Ingham Avenue and East 22nd Street in the City of Bayonne. The storm water overflow from this regulator is diverted to the Kill Van Kull via a 60" brick sewer in Ingham Avenue.

On November 28, 1967, an inspection by this Department disclosed the fact that dry weather flow of a polluting nature was being discharged by this (Ingham Avenue) sewer to the Kill Van Kull. Mr. E. A. Taratko, Jr., City Engineer, replied on February 16, 1968 that the two industries that have been contributing flow to this storm relief sewer were E. Norton & Son and the Pharma Chemical Company. The City notified both industries that this discharge was in violation of State and Interstate Statutes, Rules and Regulations and that these discharges must cease.

On February 10, 1970, Mr. Fred James, Superintendent of the City of Bayonne Water and Sewer Utility [illegible]me that the Pharma Company (now known as the Verona Corporation) has connected the wastes formerly discharging to this storm relief sewer to the wastewater sewers.

Mr. James and I then spoke with Mr. Charles P. Lee, Plant Superintendent, Norton & Son, Bayonne. Mr. Lee told me that his firm still discharges its wastes to the storm relief sewer. Mr. Lee stated that a preliminary study by Nebolsine, Toth, & McPhee Associates has indicated that it may be possible to pre-treat these wastes and discharge to the city sewers. At present, the firm is designing a system to pre-treat these wastes and discharge them to the wastewater sewers. Mr. Lee indicated that he felt this to be problem number 19 out of twenty problems.

It is the opinion of this writer that the firm lacks the necessary motivation to solve its water pollution problems, which the firm feels are not important. Mr. Lee stated that financing the needed facilities would not be a problem for the firm.

It is the opinion of this writer that this Department should issue an Order to this firm to give the firm the motivation necessary to cease pollution of the Kill Van Kull.

Richard R. Delgado

Richard R. Delgado
Civil Engineer, Trainee

6E22:G5

c.c. Interstate Sanitation Commission

M3

November 5, 1957

The Mayor and Board of Commissioners
Bayonne
New Jersey

Gentlemen:

At a meeting held in the office of Attorney William Rubin on October 30, 1957, we were given a list of sewers discharging untreated sewage into adjacent waters. It was stated at the meeting that we had not advised the City of these sewers. The subject has been discussed in detail for several years. In 1954, the legal department ruled that private sewers must be connected by the owners. Most of the sewers listed are private sewers. Items 2 and 3 relate to sewers carrying industrial wastes from the Pharma Chemical Co. In 1954, our engineers made a survey of industries in the City to determine the character of their wastes. As a result of this study, the attached letter of October 19th, 1954, was sent to the City regarding the outfalls from the Pharma Company.

Items 7 and 8 are the sewers on Schuyler Place, West 5th Street and Bayview Court which we agreed to install on February 16, 1955 in consideration of receiving the balance due us. While we did not concede that the construction of sewers was our obligation, we were glad to cooperate in keeping the cost of the project within the bond issue as we had previously done in accepting a greatly reduced fee, in designing and preparing plans and specifications for facilities to permit the abandoning of the old pump station at East 29th St. at no charge and other work not required under the contract.

Item 11 covers the illegal connection of a sanitary sewer into a highway storm drain - an internal violation.

As mentioned at the meeting, a sewer was designed for Constable Hook but omitted by the City with the approval of the Chamber of Commerce.

BAJ000016

It should be noted that connections to the sewer could not be made until the whole project was completed and plant placed in operation. In the case of private sewers, these lines were extended across the intercepting sewer, where required, to keep them in service. Stubs were provided in adjacent manholes, where possible, for the connection of these sewers.

In the case of the Goldsborough Housing project, the City had to install a sewer to provide service before the sewage plant was completed, so connected this into the City sewer below the Intercepting Sewer. This was done by the City and was not in the contract for the intercepting sewers. We cooperated with the City Engineering Department on this and provided a stub in the Intercepting Chamber for final connection.

Throughout the project, we have done our utmost to provide an efficient and economical installation for the City, within the time schedule set up by the Interstate Sanitation Commission, and at the same time answer questions and criticisms received.

Respectfully submitted,

CLYDE POTTS ASSOCIATES

by .....
Keston Gavett

WG:dge

C
O
P
Y

October 19, 1954

Mayor and Board of Commissioners
Bayonne
New Jersey

Gentlemen:

The Pharma Chemical Corporation at Newark Bay and West 53rd Street has three outfalls to the bay, a 6-inch cast iron pipe, an 8-inch tile pipe and a 15-inch concrete pipe. Our men have tested the effluents over a considerable period and have found acid present in the effluent from all three outfalls at various times.

The plant should, of course, be connected to the intercepting sewer, but the acid condition should be corrected before connection is permitted.

Very truly yours,

.....
Weston Gavett

WG:mh

BAJ000017

DISCHARGES - UNTREATED

BAYONNE, N. J.

REPORT #	
54200	West 52 Street. - Pharma Chemical Company - 12/1/54 - 11:00 A.M. - 10" T.P. - Industrial Wastes - red in color - continuous flow.
54211	West 20 - West 21 Street - 10" C.I.P. located directly behind raised manhole over interceptor - sanitary sewage - not connected to interceptor. - 12/6/54 - 10:40 A.M.
54214 54229	West 5th Street - 24" C.I.P. - located adjacent to Jersey Yacht Club. - Outfall discharges sanitary wastes from area not connected to city interceptor - Bayview Court to Electro Dynamic Corp. - Inspected - 12/6/54 and 12/20/54 - 11:30 A.M.
54219	West 1st Street - 24" C.I.P. - Texaco Co. Property - sanitary wastes - steps being taken by Texaco Company to correct - 12/8/54 - 11:50 A.M.
54227	East 34th Street - (at Naval Supply Depot 10'-12' east of 60" Con. Sewer.) - 4" C.I.P. connected to Waiting Room toilets at entrance gate to Supply Depot - sanitary wastes in immediate area of discharge end of pipe - 12/13/54 - 3:15 P.M.
54228	Foot of Ingrem Avenue - 60" brick - Industrial wastes of various colors - no sanitary wastes observed - 12/13/54 - 1:30 P.M.
54230	Tide Water Oil Co. - 54" C.I.P. - Handles 15% of sanitary wastes from Tidewater Oil Co. and all sanitary wastes from Southern Cotton Co., Terrant on property. - 85% of sanitary wastes taken care of by septic tanks. - 54" C.I.P. is old city line. - Upper portion tied into interceptor outside of plant property. - Present population 900 persons - closing plant on January 31, 1955 and moving to Delaware. - 12/20/54 - 10:30 A.M.
54232	Electro Dynamic Division of General Dynamics - 12" C.I.P. Private line - Sanitary wastes. See Report. - 12/15/54 - 1:30 P.M.
54233	Kraft Corrugated Containers, Inc. - 18" private line - vegetable dye waste discharged - reported harmless. Industrial waste - See Report. - 12/15/54 - 10:30 A.M.
54234	Eldorado Oil Works, Inc. - 2-12" sanitary and storm sewers, private, on property. - Plant not operating - 13 persons only. - Plant expects to close down entirely in early 1955. See Report - 12/15/54 - 9:15 A.M.

MAY 17 1955

BAJ000027

CR 119A

April 13, 1955

The Jersey Journal,
Journal Square,
Jersey City 6, New Jersey.

Attention: Mr. Fixit

Gentlemen:

Subject: Letter to you from Howard L. Quillin, Secretary, South Hudson Boat Club, 51st Street & Newark Bay, Bayonne. (Residence of Secretary: 293 Woodlawn Avenue, Jersey City) Complaint - dye wastes from Pharma Chemical Corporation, 169 West 52nd Street, Bayonne.

Please be advised that a representative from this office visited the Pharma Chemical Corporation with respect to the subject matter. There was no denial that the plant discharged to Newark Bay a certain quantity of exhausted dye, vat wastes, etc., also machine and floor washings. Management advised that neutralization to eliminate excessive acidity was routine plant practice. Considering the average daily discharge of these wastes and the large dilution afforded by Newark Bay, the writer is very doubtful of any adverse affects on the hulls of boats or mooring lines. A survey and considerable sampling would be required to determine actual conditions; our scheduled field assignments have priority and are not amendable to such a survey in the near future. Plant management is making a study of their wastes' problem with a view either towards rectification or discharge to sanitary sewers.

etc.

Very truly yours,

Bernard Kaplan /s/
District Chief Public Health Engineer

Copy:5255:p

BAJ000032

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 2
290 BROADWAY
NEW YORK, NY 10007-1866

JUL 13 2007

GENERAL NOTICE LETTER
URGENT LEGAL MATTER
PROMPT REPLY NECESSARY
~~CERTIFIED MAIL-RETURN RECEIPT REQUESTED~~

Dr. Attila Molnar, President & CEO
Bayer Corporation
100 Bayer Road
Pittsburgh, PA 15205-9741

Re: Diamond Alkali Superfund Site, Newark Bay Study Area
Notice of Potential Liability

Dear Mr. Molnar:

The United States Environmental Protection Agency ("EPA") is charged with responding to the release and/or threatened release of hazardous substances, pollutants, and contaminants into the environment and with enforcement responsibilities under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended ("CERCLA"), 42 U.S.C. §9601 et seq. Based on the results of previous CERCLA remedial investigation activities and other environmental studies performed at the Diamond Alkali Superfund Site ("Site"), which includes the Lower Passaic River Study Area, EPA has decided to further expand the area of study to include Newark Bay and portions of the Hackensack River, the Arthur Kill, and the Kill Van Kull. This expanded area of the study is known as the Newark Bay Study Area. EPA has documented the release or threatened release of hazardous substances, pollutants and contaminants into the Newark Bay Study Area.

By this letter, EPA is notifying Bayer Corporation ("Bayer") of its potential liability relating to the Newark Bay Study Area of the Site pursuant to Section 107(a) of CERCLA, 42 U.S.C. §9607(a). Under CERCLA, potentially responsible parties ("PRPs") include current and past owners and operators, as well as persons who arranged for the disposal or treatment of hazardous substances, or the transport of hazardous substances. Based on information that EPA evaluated during the course of its investigation, EPA believes that hazardous substances were released from two former Pharma Chemical plant facilities located at 169 West 52nd Street and at East 2nd Street

and Hobart Avenue in Bayonne, New Jersey, which were owned and operated by Bayer's predecessor corporations into the Newark Bay Study Area. Hazardous substances, pollutants and contaminants released from the facility into the Newark Bay Study Area present a risk to the environment and the humans who may ingest contaminated fish and shellfish. Therefore, Bayer may be potentially liable for response costs which the government may incur relating to the Newark Bay Study Area. In addition, responsible parties may be required to pay damages for injury to, destruction of, or loss of natural resources, including the cost of assessing such damages.

For the first phase of the Newark Bay Study, the EPA is proceeding with a multi-year study to determine an appropriate remediation plan for the Newark Bay Study Area. The study involves investigation of environmental impacts and pollution sources, as well as an evaluation of alternative actions, leading to recommendations of environmental remediation activities.

You are requested to preserve and retain any documents now in your Company's or its agents' possession or control, that relate in any manner to your facility or the Site or to the liability of any person under CERCLA for response actions or response costs at or in connection with the facility or the Site, regardless of any corporate document retention policy to the contrary.

Enclosed is a list of the other PRPs who have received Notice letters. This list represents EPA's findings on the identities of PRPs to date. We are continuing efforts to locate additional PRPs who have released hazardous substances, directly or indirectly, into the Newark Bay Study Area. Exclusion from the list does not constitute a final determination by EPA concerning the liability of any party for the release or threat of release of hazardous substances into the Newark Bay Study Area. Be advised that notice of your potential liability at the Site may be forwarded to all parties on this list as well as to the Natural Resource Trustees.

We request that you participate in the EPA-approved activities underway as part of the Newark Bay Study. You, along with other such parties, will be expected to both participate in and fund this CERCLA study. For those who choose not to cooperate, EPA may apply the CERCLA enforcement process, pursuant to Sections 106(a) and 107(a) of CERCLA, 42 U.S.C. §9606(a) and §9607(a) and other laws.

In February 2004, EPA signed an Administrative Order on Consent ("AOC") with Occidental Chemical Corporation ("OCC") to conduct a multi-year remedial investigation/feasibility study in Newark Bay pursuant to CERCLA. This study is being conducted by Tierra Solutions, Inc. with EPA oversight. Tierra Solutions, Inc. is an affiliate of the company from which OCC purchased Diamond Shamrock Chemicals (a former owner of a chemical plant at 80 Lister Avenue in Newark, New Jersey), and is performing the work pursuant to that company's indemnity obligation to OCC. Be advised that notice of your potential liability is being forwarded to OCC by EPA.

We strongly encourage you to contact OCC to discuss your participation. You may do so by

contacting:

Carol E. Dinkins, Esq.
Vinson & Elkins LLP
First City Tower
1001 Fannin Street, Suite 2300
Houston, TX 77002-6760
Tel. (713) 758-2528
Fax (713) 615-5311
cdinkins@velaw.com

Written notification should be provided to EPA documenting your intention to participate with OCC and settle with EPA no later than 30 calendar days from your receipt of this letter. The result of any agreement between EPA and your company will need to be memorialized in an AOC. Your written notification should be mailed to:

Amelia M. Wagner, Esq.
Assistant Regional Counsel
U.S. Environmental Protection Agency
290 Broadway, 17th Floor
New York, NY 10007-1866

Pursuant to CERCLA Section 113(k), EPA has established an administrative record that contains documents that will form the basis of EPA's decision on the selection of a response action for the Site. The administrative record files along with the Site file are located at EPA's Region 2 office located at 290 Broadway, New York, NY on the 18th floor. You may call the Records Center at (212) 637-4308 to make an appointment to view the administrative record and/or the Site file for the Diamond Alkali Site, Newark Bay.

Inquiries by counsel or inquiries of a legal nature should be directed to Ms. Wagner at (212) 637-3141. Questions of a technical nature should be directed to Elizabeth Butler, Remedial Project Manager, at (212) 637-4396.

Sincerely yours,

R. Basso

Ray Basso, Strategic Integration Manager
Emergency and Remedial Response Division

Enclosure

COMPANIES ISSUED GENERAL NOTICE LETTERS BY EPA FOR THE NEWARK BAY STUDY AREA OF THE DIAMOND ALKALI SUPERFUND SITE

Mr. Steven Fiverson, President
Amcol Realty Co.
Colt Corporation
Columbia Terminals, Inc.
49 Central Avenue
South Kearny, NJ 07032

Mr. Steven Fiverson, President
Amcol Realty Co.
Colt Corporation
Columbia Terminals, Inc.
P.O. Box 2726
Palm Beach, FL 33480

Mr. Barry W. Perry, Chairman & CEO
BASF Catalysts LLC
101 Wood Avenue
Iselin, New Jersey 08830

Dr. Attila Molnar, President & CEO
Bayer Corporation
100 Bayer Road
Pittsburgh, PA 15205-9741

Chevron Texaco Corporation
Law Department
1111 Bagby Street, Suite 4012
Houston, TX 77002

Bernard Reilly, Esq.
Legal Department
E.I. duPont de Nemours & Company
1007 Market Street
Wilmington, DE 19898

Mr. Gregory B. Kenny, President & CEO
General Cable Industries, Inc.
4 Tesseneer Drive
Highland Heights, KY 41076

David M. Cote, Chief Executive Officer
Honeywell International, Inc.
101 Columbia Road
Morristown, New Jersey 07962

COMPANIES ISSUED GENERAL NOTICE LETTERS BY EPA FOR THE NEWARK BAY STUDY AREA OF THE DIAMOND ALKALI SUPERFUND SITE

Chief Executive Officer
ISP Environmental Services, Inc.
1361 Alps Road, Bldg. 8
Wayne, NJ 07470-3700

OENJ Cherokee Corporation
c/o Cherokee Investment Partners, LLC
702 Oberlin Road
Suite 150
Raleigh, NC 27605

President
Prentiss, Inc.
C.B. 2000
Floral Park, New York 11001

Mr. Ralph Izzo, President
Public Service Electric & Gas
80 Park Plaza
Newark, New Jersey 07102

Daryl D. Smith, President
Troy Chemical Corporation
8 Vreeland Road
P.O. Box 955
Florham Park, New Jersey 07932