

**Appendix A-2**

**Excerpt of NJPDES – DGW Permit**



## State of New Jersey

PHILIP D. MURPHY  
*Governor*

SHEILA Y. OLIVER  
*Lt. Governor*

DEPARTMENT OF ENVIRONMENTAL PROTECTION  
Mail Code - 401-02B  
Water Pollution Management Element  
Bureau of Nonpoint Pollution Control  
P.O. Box 420 - 401 E. State St.  
Trenton, NJ 08625-0420  
Tel: (609) 633-7021 / Fax: (609) 984-7938  
[https://www.state.nj.us/dep/dwq/bnpc\\_home.htm](https://www.state.nj.us/dep/dwq/bnpc_home.htm)

CATHERINE R. McCABE  
*Commissioner*

Date: 11/23/2018

Thomas J. LaRocco, P.E.  
Cape May County MUA  
PO Box 610  
Cape May Court House, NJ 08210

Re: Ground Water Renewal Permit Action  
Cat: GWOL-Discharge to Groundwater - Operating Landfill  
NJPDES Permit No. NJ0050547 / P.I. No. 46174  
CMCMUA Secure Sanitary Landfill  
Woodbine Boro, Cape May County

Dear Thomas J. LaRocco:

Enclosed is a final New Jersey Pollutant Discharge Elimination System (NJPDES) permit action identified above which has been issued in accordance with N.J.A.C. 7:14A.

No written comments were received on the draft action during the comment period, and no provisions of the draft permit have been changed in the final permit. Therefore, the right by you, or any third party, to contest the permit conditions in an adjudicatory hearing is hereby waived pursuant to N.J.A.C. 7:14A-15.13.

As per N.J.A.C. 7:14A-4.2(e)3, any person planning to continue discharging after the expiration date of an existing NJPDES permit shall file an application for renewal at least 180 calendar days prior to the expiration of the existing permit.

Questions or comments regarding the final action should be addressed to Kerri Standowski at (609) 633-7021.

Sincerely,

Ron Bannister, P.G., Section Chief  
Bureau of Nonpoint Pollution Control

Enclosures  
c: Permit Distribution List



# NEW JERSEY POLLUTANT DISCHARGE ELIMINATION SYSTEM

The New Jersey Department of Environmental Protection hereby grants you a NJPDES permit for the facility/activity named in this document. This permit is the regulatory mechanism used by the Department to help ensure your discharge will not harm the environment. By complying with the terms and conditions specified, you are assuming an important role in protecting New Jersey's valuable water resources. Your acceptance of this permit is an agreement to conform with all of its provisions when constructing, installing, modifying, or operating any facility for the collection, treatment, or discharge of pollutants to waters of the state. If you have any questions about this document, please feel free to contact the Department representative listed in the permit cover letter. Your cooperation in helping us protect and safeguard our state's environment is appreciated.

**Permit Number: NJ0050547**

**P.I. Number: 46174**

**FINAL: Ground Water Renewal Permit Action**

**Permittee:**

Cape May County MUA  
PO Box 610  
Cape May Court House, NJ 08210

**Co-Permittee:**

**Property Owner:**

Cape May County MUA  
PO Box 610  
Cape May Court House, NJ 08210

**Location Of Activity:**

CMCMUA Secure Sanitary Landfill  
2050 County Route 610  
Woodbine, NJ 08270

Authorization(s) Covered Under This Approval	Issuance Date	Effective Date	Expiration Date
GWOL-Discharge to Groundwater - Operating Landfill	11/23/2018	12/01/2018	11/30/2023

By Authority of:  
Commissioner's Office

DEP AUTHORIZATION  
Ron Bannister, P.G., Section Chief  
Bureau of Nonpoint Pollution Control  
Division of Water Quality

(Terms, conditions and provisions attached hereto)

## **Table of Contents**

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This Permit Package Contains the Items Listed Below

1. Cover Letter
2. NJPDES Permit Authorization Page
3. Table of Contents
4. Fact Sheet
5. Part I NARRATIVE REQUIREMENTS
6. Part II GENERAL REQUIREMENTS: DISCHARGE CATEGORIES
7. Part III LIMITS AND MONITORING REQUIREMENTS
8. Part IV SPECIFIC REQUIREMENTS: NARRATIVE
9. Site and Location Maps

New Jersey Department of Environmental Protection  
Division of Water Quality  
Bureau of Nonpoint Pollution Control (Ground Water)  
401 East State Street, Trenton, NJ 08625

## FACT SHEET

This fact sheet sets forth the principal facts and the significant factual, legal, and policy considerations examined during preparation of the permit.

### **PERMIT ACTION: Ground Water Renewal Permit Action**

**Category:** GWOL – Discharge to GW – Operating Landfill - Municipal/Sanitary

### **Name and Address of the Applicant:**

Cape May County Municipal Utilities Authority  
PO Box 610  
Cape May Court House, NJ 08210

### **Name and Address of the Facility/Site:**

Cape May County Municipal Utilities Authority  
Secure Sanitary Landfill  
Kearney Avenue  
Woodbine, NJ 08270

### **Name and Classification of the Receiving Water:**

II-A  
Cohansey

### **Description of the Facility/Site:**

The Cape May County Secure Sanitary Landfill is located within Upper Township and the Borough of Woodbine. The landfill began operation in 1984. The facility is constructed on 450 acres of land and consists of an administrative building, a scale house, an intermediate processing facility, a maintenance building, a recycling center, and a leaf composting area, leachate storage tanks, stormwater basins and a fire pond.

The facility is positioned near the New Jersey Transit right-of-way and along Freidreichstadt Avenue and Dennisville-Petersburg Road. The landfill consists of eleven (11) management phases that are designed to fill 167 acres of land. Groundwater monitoring wells are added as the landfill expands.

Each landfill cell is designed with a primary and secondary leachate collection system to contain the leachate before it reaches the groundwater. Then the landfill leachate is transferred into two storage tanks each with a capacity of 750,000 gallons. Leachate is then either recirculated back into the landfill or is disposed off-site at the Authority's wastewater treatment facility.

#### **Location of the Facility:**

Latitude: 39° 14' 13"  
Longitude: 74° 47' 00"

Upper Township: Block 247, Lot(s) 1, 2, 3, 5, 6 and 7;  
Block 248, Lot 9.  
Woodbine Borough: Block 123, Lot(s) 1, 2 and 3;  
Block 124, Lot 1;  
Block 128, Lot(s) 1, 3 and 4;  
Block 128.02, Lot(s) 1, 2 and 3;  
Block 131, Lot(s) 1, 4 and 5;  
Block 131.02, Lot(s) 1-29 (inclusive); and  
Block 137.02, Lot(s) 1-9 (inclusive).

#### **Ground Water Monitoring**

A Ground Water monitoring program is required for all sanitary landfills in New Jersey. The Solid Waste Management Act (N.J.S.A. 13-1E-1 et. Seq.) and its implementing regulations (N.J.A.C. 7:26-1 et. Seq.) require all sanitary landfills in New Jersey to implement a ground water monitoring program under a NJDPES-DGW permit. The purpose of the required monitoring program is to detect whether or not there is a release of pollutants from the sanitary landfill. If the monitoring program detects that there is a statistically significant evidence of a release, the owner/operator is required to take certain steps to identify the source of the release, to evaluate if the Ground Water Quality Standards, N.J.A.C. 7:9-6, have been contravened, to evaluate the extent of the contamination, to correct the system or component that caused the release, and to take appropriate steps to remediate contamination in accordance with other applicable regulations, such as N.J.A.C. 7:26C and N.J.A.C. 7:26-2A.1-2A.9. The details of this monitoring program are included in a Department approved Ground Water Protection Program plan (GWPP) certified by the permittee to comply with all the State and Federal regulations, in particular, 40 CFR 258, and N.J.A.C. 7:14A. This GWPP plan is part of the administrative record which is on file at the offices of the NJDEP located at 401 East State Street, Trenton, Mercer County, New Jersey. It is available for inspection, by appointment, between 8:00 A.M. and 4:30 P.M., Monday through Friday. Appointments for inspections may be scheduled by calling (609) 633-7021.

**Name, Bureau, and Phone Number of Contact Person:**

Kerri Standowski, Environmental Specialist  
Bureau of Nonpoint Pollution Control – (609) 292-0407

**Permit Summary Table:**

The following items were used to formulate the basis of the permit:

1	N.J.S.A. 58:10A-1 <i>et seq.</i> , New Jersey Water Pollution Control Act.*
2	N.J.A.C. 7:14A-1 <i>et seq.</i> , New Jersey Pollutant Discharge Elimination System Regulations.*
3	NJPDES-DGW Permit NJ0050547
4	Ground Water Monitoring Well Sampling Data submitted under NJPDES Permit NJ0050547*
5	DMR Data Submitted Under NJPDES-DGW Permit No. NJ0050547
6	The NJPDES-DGW Permit Renewal Application
7	Statewide Water Quality Management Planning Rules (N.J.A.C. 7:15)
8	Sludge Quality Assurance Regulations (N.J.A.C. 7:14-4)
9	Ground Water Quality Standards (N.J.A.C. 7:9-6)

\*The document is part of the administrative record, but is not physically included in the record.

The discharge described above is a regulated activity under the New Jersey Water Pollution Control Act, N.J.S.A. 58:10A-1 *et seq.*, and its implementing regulations, the New Jersey Pollutant Discharge Elimination System (NJPDES) N.J.A.C. 7:14A-1 *et seq.* The permit has been developed pursuant to these regulations and is based on the administrative record, which contains any permit application submitted, correspondence concerning the permit, the Fact Sheet and documents cited therein, the results of any past monitoring, the draft permit, and any past permits issued to the facility under these regulations.

## PART I GENERAL REQUIREMENTS: NJPDES

### A. General Requirements of all NJPDES Permits

#### I. Requirements Incorporated by Reference

- a. The permittee shall comply with all conditions set forth in this permit and with all the applicable requirements incorporated into this permit by reference. The permittee is required to comply with the regulations, including those cited in paragraphs b. through e. following, which are in effect as of the effective date of the final permit.
- b. General Conditions
  - Penalties for Violations N.J.A.C. 7:14-8.1 et seq.
  - Incorporation by Reference N.J.A.C. 7:14A-2.3
  - Toxic Pollutants N.J.A.C. 7:14A-6.2(a)4i
  - Duty to Comply N.J.A.C. 7:14A-6.2(a)1 & 4
  - Duty to Mitigate N.J.A.C. 7:14A-6.2(a)5 & 11
  - Inspection and Entry N.J.A.C. 7:14A-2.11(e)
  - Enforcement Action N.J.A.C. 7:14A-2.9
  - Duty to Reapply N.J.A.C. 7:14A-4.2(e)3
  - Signatory Requirements for Applications and Reports N.J.A.C. 7:14A-4.9
  - Effect of Permit/Other Laws N.J.A.C. 7:14A-6.2(a)6 & 7 & 2.9(c)
  - Severability N.J.A.C. 7:14A-2.2
  - Administrative Continuation of Permits N.J.A.C. 7:14A-2.8
  - Permit Actions N.J.A.C. 7:14A-2.7(c)
  - Reopener Clause N.J.A.C. 7:14A-6.2(a)10
  - Permit Duration and Renewal N.J.A.C. 7:14A-2.7(a) & (b)
  - Consolidation of Permit Process N.J.A.C. 7:14A-15.5
  - Confidentiality N.J.A.C. 7:14A-18.2 & 2.11(g)
  - Fee Schedule N.J.A.C. 7:14A-3.1
  - Treatment Works Approval N.J.A.C. 7:14A-22 & 23
- c. Operation And Maintenance
  - Need to Halt or Reduce not a Defense N.J.A.C. 7:14A-2.9(b)
  - Proper Operation and Maintenance N.J.A.C. 7:14A-6.12
- d. Monitoring And Records
  - Monitoring N.J.A.C. 7:14A-6.5
  - Recordkeeping N.J.A.C. 7:14A-6.6
  - Signatory Requirements for Monitoring Reports N.J.A.C. 7:14A-6.9
- e. Reporting Requirements
  - Planned Changes N.J.A.C. 7:14A-6.7
  - Reporting of Monitoring Results N.J.A.C. 7:14A-6.8
  - Noncompliance Reporting
    - N.J.A.C. 7:14A-6.10 & 6.8(h)
    - Hotline/Two Hour & Twenty-four Hour Reporting N.J.A.C. 7:14A-6.10(c) & (d)
    - Written Reporting N.J.A.C. 7:14A-6.10(e) & (f) & 6.8(h)
  - Duty to Provide Information N.J.A.C. 7:14A-2.11, 6.2(a)14 & 18.1
  - Schedules of Compliance N.J.A.C. 7:14A-6.4
  - Transfer N.J.A.C. 7:14A-6.2(a)8 & 16.2



## PART II

### GENERAL REQUIREMENTS: DISCHARGE CATEGORIES

#### A. Additional Requirements Incorporated By Reference

##### 1. Requirements Incorporated by Reference

- a. For new construction, expansion or major repairs of regulated discharge units subject to N.J.A.C. 7:14A-22 and 23, the permittee shall obtain a Treatment Works Approval. For new construction, the permittee shall obtain the necessary Treatment Works Approval(s) to design, construct and operate a discharge unit capable of meeting any limits set forth in this permit.

##### 2. Operator Notification

- a. Pursuant to N.J.A.C. 7:10A-1.1 et seq. every wastewater system not exempt pursuant to N.J.A.C. 7:10A-1.1(b) requires a licensed operator. The operator of a system shall meet the Department's requirements pursuant to N.J.A.C. 7:10-1.1 and any amendments. The name of the proposed operator, where required, shall be submitted to the Department at the address below, in order that his/her qualifications may be determined prior to initiating operation of the treatment works.

- i. Notifications shall be submitted to:

NJDEP  
Examination and Licensing Unit  
P.O. Box 417  
Trenton, New Jersey 08625  
(609)777-1012

- b. The permittee shall notify the Department of any changes in licensed operator within two weeks of the change.

#### B. General Conditions

##### 1. Scope

- a. The issuance of this permit shall not be considered as a waiver of any applicable federal, state, and local rules, regulations and ordinances.

##### 2. Permit Renewal Requirement

- a. Permit conditions remain in effect and enforceable until and unless the permit is modified, renewed or revoked by the Department.
- b. Submit a complete permit renewal application: 180 days before the Expiration Date.

##### 3. Notification of Non-Compliance

- a. The permittee shall notify the Department of all non-compliance when required in accordance with N.J.A.C. 7:14A-6.10 by contacting the DEP HOTLINE at 1-877-WARNDEP (1-877-927-6337).

- b. The permittee shall submit a written report as required by N.J.A.C. 7:14A-6.10 within five days.

#### **4. Notification of Changes**

- a. The permittee shall give written notification to the Department of any planned physical or operational alterations or additions to the permitted facility when the alteration is expected to result in a significant change in the permittee's discharge and/or residuals use or disposal practices including the cessation of discharge in accordance with N.J.A.C. 7:14A-6.7.
- b. Prior to any change in ownership, the current permittee shall comply with the requirements of N.J.A.C. 7:14A-16.2, pertaining to the notification of change in ownership.

#### **5. Access to Information**

- a. The permittee shall allow an authorized representative of the Department, upon the presentation of credentials, to enter upon a person's premises, for purposes of inspection, and to access / copy any records that must be kept under the conditions of this permit.

#### **6. Operation Requirements**

- a. The permittee shall notify the applicable Bureau of Water Compliance and Enforcement office and the Permit Administration Section, prior to initiating discharges from newly constructed discharge facilities.

#### **7. Contingency Requirements**

- a. When a regulated unit causes contravention of the Ground Water Quality Standards of N.J.A.C. 7:9-6, corrective measures shall be implemented to address the problem. Such measures may include more extensive monitoring of the soil and ground water, remediation of the release, or an upgrade or closure of the existing system.
- b. When any regulated unit must be removed from service for reasons other than routine maintenance and/or scheduled rotation; or creates an unpermitted discharge; or fails hydraulically, the permittee shall:
  - i. Immediately cease any unpermitted discharge and implement the appropriate section of the facility's O & M Manual.
  - ii. Immediately contact the Department's Emergency Hotline at 1-877-927-6337 and contact the appropriate regional Bureau of Water Compliance and Enforcement. For details on reporting time frames please refer to N.J.A.C. 7:14A-6.2 and 6.10.
  - iii. Notify the Bureau of Engineering to determine if a Treatment Works Approval is required prior to repairing the failing regulated unit.
  - iv. If a new or altered regulated unit is to be constructed, the permittee must first obtain approval through modification of a GWPP or by applying for a NJPDES Permit modification, demonstrate that the alteration or new system shall reasonably improve the existing situation and obtain a letter approving the technical information before applying for a Treatment Works Approval. The NJPDES permit may be modified at a later date to reflect the change in the disposal systems if the improvement significantly changes the conditions of the permit.

- v. For units which rely on infiltration where the probable cause of hydraulic failure is unintentional overloading of the disposal area due to unequal distribution of the discharge or heavy rain, snow melt, etc., the permittee shall continue to implement the measures outlined in the facility's O & M Manual until the failing disposal area drains and returns to operational status. If the failing disposal area is determined to be under-sized for the given flow or physically clogged, Department approved measures must be taken to rectify the situation

## PART III LIMITS AND MONITORING REQUIREMENTS

MONITORED LOCATION GROUP: LF monitoring wells

**Monitored Location Group Members**

MW-2 GW monitoring, MW-3 GW monitoring, MW-6 GW monitoring, MW-15 GW monitoring, MW-20 GW monitoring, MW-21 GW monitoring, MW-30 GW monitoring, MW-31 GW monitoring

**GW Mon. Well WCR - Semi Annual Reporting Requirements:**

Submit a Semi-Annual WCR: Within 90 days of receipt of the results from the April and October sampling events, as outlined in the approved GWPP. The tables in this permit are a representation of the monitoring program in the approved GWPP. The approved GWPP takes precedence when any conflicts between these tables and the GWPP exist.

**Table III - A - 1: GW Mon. Well WCR - Semi Annual Limits and Monitoring Requirements**

**PHASE:** Final

**PHASE Start Date:**

**PHASE End Date:**

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Specific Conductance	Monitoring Well	REPORT	UMHO/ CM	Grab	January thru December
Nitrogen, Ammonia Total (as N)	Monitoring Well	REPORT	MG/L	Grab	January thru December
Nitrogen, Nitrate Total (as N)	Monitoring Well	REPORT	MG/L	Grab	January thru December
Solids, Total Dissolved (TDS)	Monitoring Well	REPORT	MG/L	Grab	January thru December
Styrene	Monitoring Well	REPORT	UG/L	Grab	January thru December
Barium, Total (as Ba)	Monitoring Well	REPORT	UG/L	Grab	January thru December
Vanadium, Total (as V)	Monitoring Well	REPORT	UG/L	Grab	January thru December
Arsenic, Total (as As)	Monitoring Well	REPORT	UG/L	Grab	January thru December
Beryllium, Total (as Be)	Monitoring Well	REPORT	UG/L	Grab	January thru December
Cadmium, Total (as Cd)	Monitoring Well	REPORT	UG/L	Grab	January thru December
Chromium, Total (as Cr)	Monitoring Well	REPORT	UG/L	Grab	January thru December

**GW Mon. Well WCR - Semi Annual Reporting Requirements:**

Submit a Semi-Annual WCR: Within 90 days of receipt of the results from the April and October sampling events, as outlined in the approved GWPP. The tables in this permit are a representation of the monitoring program in the approved GWPP. The approved GWPP takes precedence when any conflicts between these tables and the GWpp exist.

**Table III - A - 1: GW Mon. Well WCR - Semi Annual Limits and Monitoring Requirements**

**PHASE: Final PHASE Start Date: PHASE End Date:**

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Cobalt, Total (as Co)	Monitoring Well	REPORT	UG/L	Grab	January thru December
Copper, Total (as Cu)	Monitoring Well	REPORT	UG/L	Grab	January thru December
Lead, Total (as Pb)	Monitoring Well	REPORT	UG/L	Grab	January thru December
Thallium, Total (as Tl)	Monitoring Well	REPORT	UG/L	Grab	January thru December
Nickel, Total (as Ni)	Monitoring Well	REPORT	UG/L	Grab	January thru December
Silver, Total (as Ag)	Monitoring Well	REPORT	UG/L	Grab	January thru December
Zinc, Total (as Zn)	Monitoring Well	REPORT	UG/L	Grab	January thru December
Antimony, Total (as Sb)	Monitoring Well	REPORT	UG/L	Grab	January thru December
Selenium, Total (as Se)	Monitoring Well	REPORT	UG/L	Grab	January thru December
1,2-Dichlorobenzene	Monitoring Well	REPORT	UG/L	Grab	January thru December
1,4-Dichlorobenzene	Monitoring Well	REPORT	UG/L	Grab	January thru December
1,2,3-Trichloro- propane	Monitoring Well	REPORT	UG/L	Grab	January thru December
Carbon Tetrachloride	Monitoring Well	REPORT	UG/L	Grab	January thru December
Bromoforn	Monitoring Well	REPORT	UG/L	Grab	January thru December
Dibromochloro- methane	Monitoring Well	REPORT	UG/L	Grab	January thru December

**GW Mon. Well WCR - Semi Annual Reporting Requirements:**

Submit a Semi-Annual WCR: Within 90 days of receipt of the results from the April and October sampling events, as outlined in the approved GWPP. The tables in this permit are a representation of the monitoring program in the approved GWPP. The approved GWPP takes precedence when any conflicts between these tables and the GWPP exist.

**Table III - A - 1: GW Mon. Well WCR - Semi Annual Limits and Monitoring Requirements**

**PHASE: Final PHASE Start Date: PHASE End Date:**

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Chloroform	Monitoring Well	REPORT	UG/L	Grab	January thru December
Toluene	Monitoring Well	REPORT	UG/L	Grab	January thru December
Benzene	Monitoring Well	REPORT	UG/L	Grab	January thru December
Acrylonitrile	Monitoring Well	REPORT	UG/L	Grab	January thru December
Chlorobenzene	Monitoring Well	REPORT	UG/L	Grab	January thru December
Chloroethane, Total Weight	Monitoring Well	REPORT	UG/L	Grab	January thru December
Ethylbenzene	Monitoring Well	REPORT	UG/L	Grab	January thru December
Methyl Bromide	Monitoring Well	REPORT	UG/L	Grab	January thru December
Methyl Chloride	Monitoring Well	REPORT	UG/L	Grab	January thru December
Methylene Chloride	Monitoring Well	REPORT	UG/L	Grab	January thru December
Tetrachloroethylene	Monitoring Well	REPORT	UG/L	Grab	January thru December
Trichloro-fluoro-methane	Monitoring Well	REPORT	UG/L	Grab	January thru December
1,1-Dichloroethane	Monitoring Well	REPORT	UG/L	Grab	January thru December
1,1-Dichloroethylene	Monitoring Well	REPORT	UG/L	Grab	January thru December
1,1,1-Trichloro-ethane	Monitoring Well	REPORT	UG/L	Grab	January thru December

**GW Mon. Well WCR - Semi Annual Reporting Requirements:**

Submit a Semi-Annual WCR: Within 90 days of receipt of the results from the April and October sampling events, as outlined in the approved GWPP. The tables in this permit are a representation of the monitoring program in the approved GWPP. The approved GWPP takes precedence when any conflicts between these tables and the GWPP exist.

**Table III - A - 1: GW Mon. Well WCR - Semi Annual Limits and Monitoring Requirements**

**PHASE: Final PHASE Start Date: PHASE End Date:**

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
1,1,2-Trichloroethane	Monitoring Well	REPORT	UG/L	Grab	January thru December
1,1,2,2-Tetrachloroethane	Monitoring Well	REPORT	UG/L	Grab	January thru December
1,2-Dichloroethane, Total Weight	Monitoring Well	REPORT	UG/L	Grab	January thru December
1,2-Dichloropropane	Monitoring Well	REPORT	UG/L	Grab	January thru December
1,2-trans-Dichloroethylene	Monitoring Well	REPORT	UG/L	Grab	January thru December
trans-1,3-Dichloropropene	Monitoring Well	REPORT	UG/L	Grab	January thru December
cis-1,3-Dichloropropene	Monitoring Well	REPORT	UG/L	Grab	January thru December
Bromodichloromethane	Monitoring Well	REPORT	UG/L	Grab	January thru December
Vinyl Chloride	Monitoring Well	REPORT	UG/L	Grab	January thru December
Trichloroethylene	Monitoring Well	REPORT	UG/L	Grab	January thru December
Bromochloromethane	Monitoring Well	REPORT	UG/L	Grab	January thru December
Methyl iodide	Monitoring Well	REPORT	UG/L	Grab	January thru December
1,2-Dibromo-3-chloropropane	Monitoring Well	REPORT	UG/L	Grab	January thru December
trans-1,4-Dichloro-2-butene	Monitoring Well	REPORT	UG/L	Grab	January thru December
Methyl ethyl ketone	Monitoring Well	REPORT	UG/L	Grab	January thru December

**GW Mon. Well WCR - Semi Annual Reporting Requirements:**

Submit a Semi-Annual WCR: Within 90 days of receipt of the results from the April and October sampling events, as outlined in the approved GWPP. The tables in this permit are a representation of the monitoring program in the approved GWPP. The approved GWPP takes precedence when any conflicts between these tables and the GWPP exist.

**Table III - A - 1: GW Mon. Well WCR - Semi Annual Limits and Monitoring Requirements**

PHASE: Final

PHASE Start Date:

PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
2-Hexanone	Monitoring Well	REPORT	UG/L	Grab	January thru December
Carbon disulfide	Monitoring Well	REPORT	UG/L	Grab	January thru December
1,1,1,2-Tetra-chloroethane	Monitoring Well	REPORT	UG/L	Grab	January thru December
4-Methyl-2-pentanone	Monitoring Well	REPORT	UG/L	Grab	January thru December
Methylene Bromide	Monitoring Well	REPORT	UG/L	Grab	January thru December
1,2-Dibromoethane	Monitoring Well	REPORT	UG/L	Grab	January thru December
Xylenes (Total)	Monitoring Well	REPORT	UG/L	Grab	January thru December
Acetone	Monitoring Well	REPORT	UG/L	Grab	January thru December
Vinyl Acetate	Monitoring Well	REPORT	UG/L	Grab	January thru December
Depth To H2o From Origin Ground Level	Monitoring Well	REPORT	0.01FT	Grab	January thru December
Elev. Top Mon. Well Casing above MSL	Monitoring Well	REPORT	0.01FT	Grab	January thru December
Depth To Water Table From Top Of Casing	Monitoring Well	REPORT	0.01FT	Grab	January thru December
Cis-1,2-Dichloro-ethylene	Monitoring Well	REPORT	UG/L	Grab	January thru December



## PART IV

# SPECIFIC REQUIREMENTS: NARRATIVE

### Notes and Definitions

#### A. Footnotes

##### 1. Conditions Associated with Both Discharge Monitoring and Ground Water Monitoring

- a. All completed monitoring forms shall be submitted to: Division of Water Quality, Permit Administration Section, Monitoring Reports Unit, P.O. Box 420, Trenton, New Jersey 08625.
- b. 40 CFR Part 136-Method 624 shall be used to identify and monitor for volatile organic compounds and Method 625 shall be used to identify and monitor for the acid extractable compounds and base/neutral extractable compounds as identified in N.J.A.C. 7:14A-4, Appendix A. The analyses shall include the identification of 40 unknown peaks: 10 unknown acid extractable compounds, and 15 unknown base/neutral extractable compounds, and 15 unknown volatile organic compounds. For tentatively identified compounds, a forward library search must be performed. If the spectra do not meet the criteria of identification of the Library, the compound shall be reported as "unknown". If possible, an additional classification of the unknown compound shall be presented (e.g. unknown aromatic, unknown hydrocarbon, etc.).
- c. The method detection limits (MDL) specified in 40 CFR Part 136-Method 624 and/or 625 should be achieved, and the quality assurance and quality control methods specified in 40 CFR Part 136-Method 624 and 625 shall be utilized. Documentation of these quality assurance and quality control measures, including the results of field and trip blanks, must be submitted within 30 days of a written request from the Department.
- d. After the first year of sampling, the permittee may propose another analytical method for Departmental approval. Such a proposal shall be accompanied by a statement explaining how the method adequately monitors all the compounds of concern.
- e. The Department reserves the right to direct the permittee to use other analytical methods by giving the permittee 30 days written notice to do so.
- f. The priority pollutant metals shall be analyzed by atomic absorption methods. For ground water samples, the methodology chosen must allow the analysis to achieve the practical quantitation levels as specified in the GWQS.
- g. In ground water samples, pursuant to prevailing Safe Drinking Water Act (PL 1993C.523) Regulations, any positive result for fecal coliform is in violation of the Maximum Contaminant Level (MCL) and is, therefore, an exceedence of the ground water quality standards.
  - i. By membrane filtration, no colonies to be present in any standard portion.
  - ii. By multiple tube fermentation technique, with a standard 10 ml dilution, no positive reaction in any portion of any sample.
- h. When sampling for Petroleum Hydrocarbons or Oil and Grease in ground water monitoring wells, "None Noticeable" means that no visible sheen or noticeable odor is detected from the sample. The laboratory and sampling personnel shall report any noticeable sheen and/or odor.

## Notes and Definitions

- i. The parameter pH is to be field determined.

### **B. Definitions**

#### **1. Conditions Associated with Both Discharge Monitoring and Ground Water Monitoring**

- a. "Aliquot" means a sample of specified volume used to make up a total composite sample.
- b. "Annual" means monitoring conducted at a minimum of once every twelve calendar months.
- c. "Bimonthly" means monitoring conducted at a minimum frequency of once every two calendar months.
- d. "Composite" means a combination of individual (or continuously taken) samples (aliquots) collected at periodic intervals over the entire discharge day. The composite should be flow proportional; either the time interval between each aliquot or the volume of each aliquot should be proportional to either the flow at the time of sampling or the total flow since the collection of the previous aliquot. Aliquots may be collected manually or automatically.
- e. "Daily" means monitoring conducted every calendar day, including weekends and holidays.
- f. "Grab" means an individual sample collected over a period not exceeding 15 minutes.
- g. "Monthly" means monitoring conducted at a minimum of once every calendar month.
- h. "None Noticeable" means that no visible sheen or noticeable odor is detected from the ground water sample. The laboratory and sampling personnel shall report any noticeable sheen and/or odor.
- i. "Quarterly" means monitoring conducted at a minimum frequency of once every three calendar months.
- j. "Semiannually" means monitoring conducted at a minimum frequency of once every six calendar months.
- k. "Weekly" means monitoring conducted at a minimum of once every seven calendar day period.

## Discharge to Groundwater - Operating Landfill

### A. GWPP Requirements

#### 1. General Provisions

- a. The permittee shall maintain at the facility a Department approved document (plan) describing a Ground Water Protection Program (GWPP), developed in accordance with this permit. This GWPP shall include provisions to demonstrate that the operation of any and all regulated units does not contravene the Ground Water Quality Standards (N.J.A.C. 7:9-6)(GWQS). The GWPP shall demonstrate compliance with all other applicable rules and regulations related to protection of ground water such as 40 CFR 264 and 40 CFR 258 (or as promulgated in New Jersey Administrative Code), and the Underground Injection regulations found in N.J.A.C. 7:14A. The GWPP shall also be conducted in a manner that ensures consistency and compliance with the GWQS.
- b. The permittee shall implement all provisions of their DEP approved GWPP plan developed in accordance with this permit.
- c. The permittee shall abide by all other applicable provisions of this permit.
- d. The permittee shall submit to the Department, in accordance with the schedule outlined in the approved GWPP plan, a summary of the sample data collected while performing the provisions of the approved GWPP. The summary report format shall be as stated in the approved GWPP plan.
- e. The permittee shall submit, along with the summary of the sample data, a report certifying compliance with the provisions of the most recent Department approved GWPP plan. This compliance report must identify, at a minimum, the following:
  - i. A list of the objectives that were to be accomplished by the end of the reporting period that were identified in the approved GWPP plan.
  - ii. A narrative description of what objectives were accomplished during the reporting period and an evaluation as to the effectiveness of the accomplishments.
  - iii. An explanation of why objectives were not completed, if applicable, in the timeframes specified in the approved GWPP plan.
  - iv. An identification as to whether an updated GWPP plan was submitted to replace the Departmental approved GWPP.
  - v. A discussion of the statistical methods utilized and the results of the statistical analyses.
- f. The permittee may propose to modify any and all provisions of the GWPP at any time. To modify a GWPP plan the Permittee shall submit to the Department an amended GWPP plan for review at least 90 days prior to the proposed implementation of the change in the GWPP. The Department will notify the permittee in writing prior to the proposed date to implement the change if the amended GWPP cannot be approved by the Department due to deficiencies. If the Department does not respond in writing within 90 days of receipt, the approval is automatically granted. If the Department notifies the permittee that the amended or modified GWPP is not approved, the permittee may request a permit modification if the permittee believes the proposed changes are necessary to maintain an adequate monitoring network. The permittee shall implement all the provisions of the latest approved GWPP until a new GWPP is approved or when the permit modification is issued.

## Discharge to Groundwater - Operating Landfill

- g. An updated GWPP plan shall be submitted to the Department 180 days prior to the expiration date of this permit as part of the renewal application package required in N.J.A.C. 7:14A-4.2(e)3.
- h. The permittee shall place a notice in the operating record whenever an amended GWPP is approved by the Department. This notice will include a copy of the newly approved GWPP plan.
- i. Placing a notice in the operating record shall consist of sending copies of the document in question to the Department permit and enforcement bureaus, to the Clerk's Office of the municipality where the facility is located, the local Health Department, and maintaining a copy on site as public information.

### 2. GWPP Plan Requirements

- a. Unless an alternate program is approved in advance, a GWPP plan shall include, at a minimum, the following components (guidance is available from the Department elaborating on the following components):
  - i. A narrative description of the facility, and discussion of its operations;
  - ii. The identification of all regulated units, potential sources of contamination that would impact the regulated unit, and all sensitive receptors (i.e., potable wells, surface waters, wetlands, wildlife protection areas, etc.) within one-half mile of the site. These shall be tabulated when possible;
  - iii. The identification of all activities and/or processes which generate pollutants which will subsequently be discharged to the regulated units;
  - iv. The identification of all materials used in the processes which generate pollutants and/or those materials that may come in contact with the discharge, which contain constituents that are pollutants identified by the Ground Water Quality Standards;
  - v. A detailed description of a monitoring program capable of facilitating an evaluation of the impact of the discharge to the ground water resources of the State. It shall include at a minimum: Requirements for the use of treatment works, materials management, best management plans, discharge sampling, flow limitations, effluent limitations, monitoring wells, lysimeters, piezometers, alarms, hydraulic control devices, and inspections as the Department determines necessary to ensure that the discharge does not contravene the Ground Water Quality Standards in N.J.A.C. 7:9-6. A monitoring well system, consisting of monitoring wells located in each aquifer that may be impacted by the discharge. Unless the permittee demonstrates otherwise to the satisfaction of the Department, the monitoring well system shall consist of a minimum of one hydraulically upgradient well capable of determining background water quality, as specified in N.J.A.C. 7:14A-1 et seq., and at least three hydraulically downgradient wells. One or more of the monitoring programs identified in N.J.A.C. 7:14A-7.6(d).
  - vi. A sampling schedule and systematic statistical analysis of the monitoring data. Guidance is available from the Department regarding the creation of a sampling schedule and statistical analysis.
  - vii. A plan specifying actions the permittee will undertake in the event monitoring results demonstrate a statistically significant exceedance has occurred. When conducting leak detection monitoring, this means a statistical evidence of a leak. When conducting attenuation monitoring, this means exceedance of the Ground Water Quality Standards at the point of compliance.
  - viii. An Operation and Maintenance (O&M) Manual for the regulated units as outlined in this permit.

- ix. Provisions for implementing the reporting and technical requirements outlined in this permit. Guidance for implementation provisions is available from the Department.

## **B. Monitoring Requirements**

### **1. Conditions Associated with Discharge and Ground Water Monitoring**

- a. All discharge and ground water monitoring shall be conducted as specified in the approved GWPP.
- b. All discharge and ground water sampling shall be conducted in accordance with the Department's current Field Sampling Procedures Manual; or an alternate method outlined in the approved GWPP plan.
- c. Each analysis required by this permit (except for those parameters that are field determined) shall be performed by a New Jersey Certified Laboratory that is certified to perform that analysis.
- d. Sampling shall begin as specified in the approved GWPP.
- e. Flow monitoring shall be performed in accordance with the approved GWPP.
- f. Unless otherwise noted, all discharge limitations are instantaneous maximum limitations.
- g. Any parameter with an established discharge limitation requires reporting of both the sample maximum and the monthly average.
- h. Parameters with a "Report" requirement have no limit established by this permit. The permittee is still required to analyze the discharge sample for the parameter and report its value. Failure to sample and report the value is a permit violation.
- i. All ground water elevations must be determined prior to evacuation and sampling of the wells.
- j. The permittee must develop a sampling plan in accordance with the method specified in N.J.A.C. 7:14A-7.7 of the NJPDES regulations and in the latest version of the Department's Field Sampling Procedures Manual.
  - i. This sampling plan must utilize field and trip blanks as specified in the Field Sampling Procedures Manual.
  - ii. The permittee must submit the sampling plan within 30 days of a written request from the Department.
- k. When ground water monitoring wells are utilized as part of the approved GWPP, ground water monitoring well sample results will be analyzed by the methods specified in the approved GWPP plan. After reviewing the results, the Department may request that the permittee modify the GWPP to address any problems identified by the sample results. If the permittee does not modify the GWPP, the Department may modify or revoke the existing permit and issue a permit which addresses the problems identified by the sample results.
- l. When ground water monitoring wells are utilized as part of the approved GWPP, the monitoring wells identified in the facility's plot plan as specifically located to monitor the regulated unit(s) shall be sampled according to the schedule outlined in the approved GWPP plan.

## **C. Reporting Requirements**

### **1. Conditions Associated with Discharge and Ground Water Monitoring**

- a. Sample results from the discharge monitoring identified in the Department approved GWPP plan shall be submitted on Department generated forms or other method outlined in the Department approved GWPP plan.
- b. Ground water monitoring data shall be submitted to the Department on either Ground Water Waste Characterization Report, on 3.5 inch diskettes or other method outlined in the Department approved GWPP Plan. The ground water monitoring data shall be submitted to the Department according to the schedule outlined in the permittee's approved GWPP Plan.
- c. Failure to submit ground water monitoring data or discharge monitoring data in accordance with the provisions above is a permit violation and may place the permittee subject to civil and administrative penalties pursuant to N.J.S.A 58:10A-10 et seq.
- d. If you use department generated forms, as part of your GWPP, such as DMR's and WCR's then these forms shall be postmarked no later than the 25th day of the month following the completed monitoring period and should be received by the Department no later than the 1st day of the next month.

#### **D. Recordkeeping Requirements**

##### **1. Conditions Associated with Groundwater and Discharge Monitoring**

- a. The permittee shall retain records of all monitoring information including all calibration and maintenance records, all original strip chart recordings for continuous monitoring instrumentation, copies of all reports, and all data used to complete the application for this permit.
- b. Records of monitoring information shall include the date, locations and time of the sampling or measurements, the individual who performed the sampling or measurements, the date the samples were collected, the date the samples were analyzed, the individual who performed the analysis, the analytical method used, and the results.
- c. All records shall be retained for 5 years.
- d. All records shall be available for Department review during periodic inspections or submitted upon written request.

#### **E. Submission Requirements**

##### **1. Operations & Maintenance Manual**

- a. The Operation & Maintenance (O & M) Manual shall be updated and maintained.
- b. The most recent version of the O & M Manual as well as all records of maintenance and inspections must be kept on-site at all times and be available for inspection upon request by the Department.
- c. The permittee must educate all appropriate personnel and licensed operators (as applicable) as to the contents and procedures of the O & M Manual to ensure proper implementation.
- d. The O & M Manual shall include, at a minimum, the following provisions, as applicable:
  - i. A list of all pollutants generated and/or discharged to all units regulated by this permit.
  - ii. A schedule of maintenance and inspections of the processes including the pollutant generation, conveyance and the discharge unit(s).

- iii. A schedule of the required inspections for all monitoring devices (piezometers, ground water monitoring wells, lysimeters, flow meters, etc.).
- iv. Requirements established in this permit for unit-specific maintenance and inspection.
- v. Assessment of emergency situations which affect the discharge activities as outlined in N.J.A.C. 7:14A-6.12(d)3. Emergency procedures in the O & M Manual shall not create an unpermitted discharge or contravene any rules or regulations. If the discharge flows to the regulated units without the aid of pumps, the emergency plan only needs to address equipment and emergency procedures.
- vi. Procedures for correcting emergency situations.
- vii. Procedures for notifying the appropriate agencies.
- viii. Location of any onsite temporary or permanent pollutant storage areas.
- ix. Provisions for utilizing previously approved and constructed diversion mechanisms, if applicable. These provisions shall include the ability to monitor for permit compliance.
- e. After an emergency situation has been corrected, the permittee shall review the emergency procedures in place and submit, if necessary, an updated O & M Manual.
- f. The permittee shall notify in writing the appropriate Bureau of Water Compliance and Enforcement office no less than 180 days prior to the expected closure of the regulated unit requesting current closure requirements. The permittee, upon receipt of these requirements, shall submit a closure plan to the permit issuing bureau for review and approval.

## **2. Well Certifications**

- a. When ground water wells are utilized as part of the approved GWPP, Well Certification Forms A and B shall be completed for each existing well within 30 days of EDP if the forms have not been previously submitted to the BNPC. Certifications for new wells shall be completed within 30 days of installation. Information for each well must be shown on a separate form. These forms are available from the BNPC.

## **3. General Provisions**

- a. All the above referenced materials shall be submitted, as applicable, to the following address:

Division of Water Quality  
Bureau of Nonpoint Pollution Control  
P.O. BOX 420  
Trenton, New Jersey 08625.

## **F. Conditions Relating to Ground Water Discharge Units**

### **1. General Provisions**

- a. Failure to operate and maintain treatment works and facilities which are installed or used by the permittee to achieve compliance with the terms and conditions of the permit as specified in the O&M Manual is a violation of this permit.
- b. The permittee shall notify the Department in writing whenever there is a change in operation which could potentially effect the characteristics of a regulated discharge.

- c. When a regulated unit poses a potential health risk or hazard, measures should be taken to restrict unauthorized access to the site or unit and to minimize the potential for contact with the pollutants.
- d. If the discharge from a regulated unit causes contravention of the GWQS, the permittee is required to implement corrective measures in accordance with the contingency requirements outlined in Part III of this permit or the approved GWPP plan.

## **G. Conditions Relating to Ground Water Monitoring Wells**

### **1. Applicability**

- a. This section applies only to those facilities using ground water monitoring wells as part of their GWPP.

### **2. Well Installation & Abandonment Requirements**

- a. The permittee shall provide a minimum of 2 weeks notification to the Bureau of Nonpoint Pollution Control prior to installing any wells required by this permit. At the permittee's option, a representative of the Bureau of Nonpoint Pollution Control will assist in field locating the wells prior to the installation of the wells or, if possible, on the day the wells are to be drilled.
- b. Satisfactory ground water monitor wells are defined in N.J.A.C. 7:14A-9.4 of the NJPDES regulations and shall be subject to Departmental approval. If the wells do not meet these standards, they must be replaced with satisfactory wells.
- c. All wells must be installed by a licensed New Jersey well driller pursuant to N.J.S.A. 58:4A-6 and constructed according to the specifications outlined in the latest edition of the Department's Field Sampling Procedures Manual for the appropriate site conditions (bedrock formation, unconsolidated, and confined unconsolidated aquifers). At the time of construction, the well driller must possess a valid well permit number for each well.
- d. Replacement wells that are installed within 100 feet of the damaged wells require Department notification at the same time the well certification forms are submitted. Replacement wells installed greater than 100 feet from the damaged wells require prior written approval from the Department. Replacement wells must be sampled between the fourteenth day and the thirtieth day after their installation and development. The requirement to replace a damaged well does not relieve the permittee from compliance with their monitoring schedule.
- e. Inadequate or damaged wells must be properly sealed and abandoned pursuant to N.J.S.A. 58:4A-4.1 et. seq. All sealing must be performed by a New Jersey licensed well driller who is certified to seal wells. Instructions regarding sealing, a list of certified drillers to seal wells, and well abandonment forms may be obtained by contacting the Bureau of Water Allocation at (609) 292-2957.

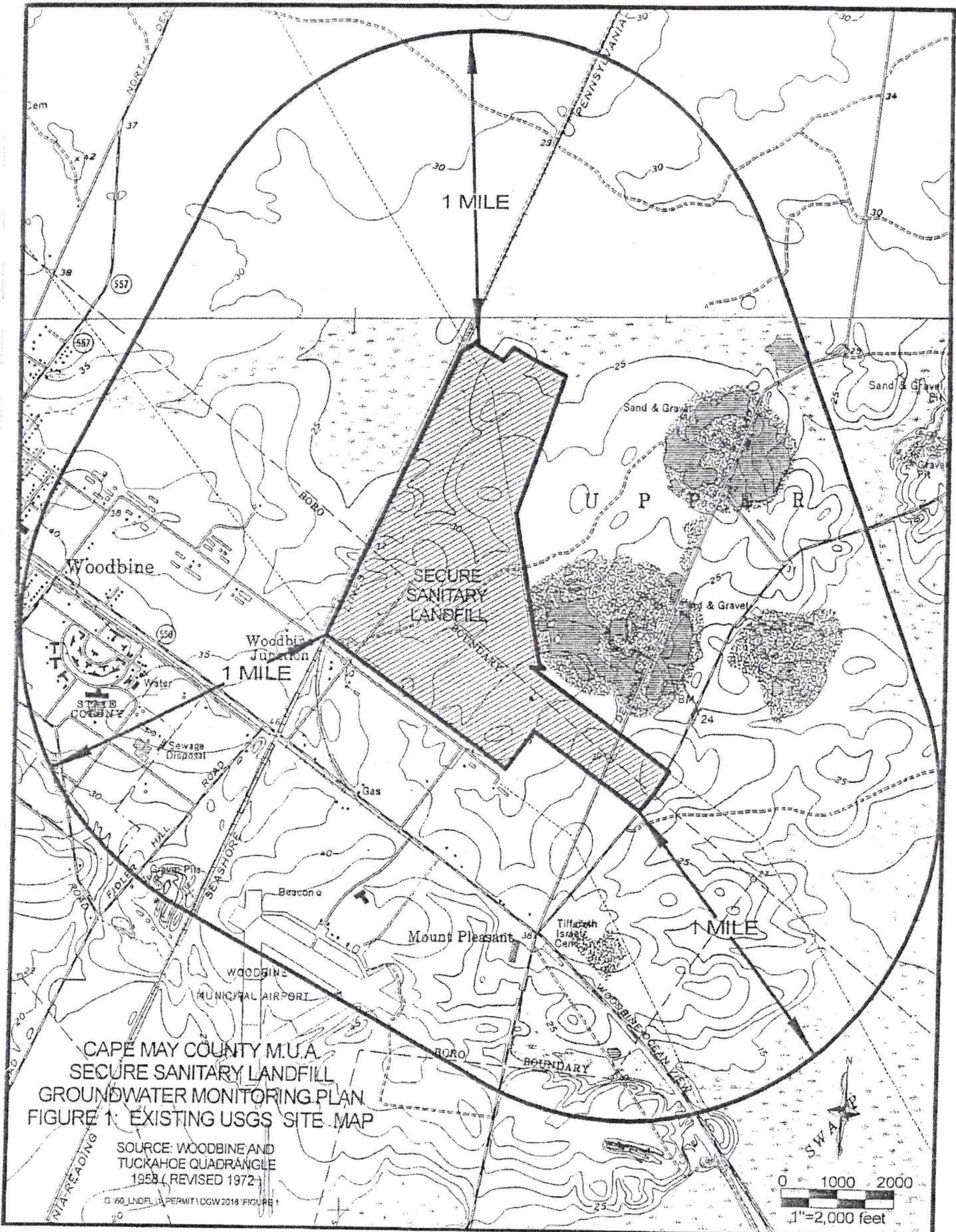
### **3. Well Certifications**

- a. For an existing well, if the information required on the Certifications (Forms A and B) cannot be determined or the well is not adequately constructed to meet the requirements of this permit, the Department may require its replacement. Criteria to be used by the Department in judging the adequacy of a well will be related to the well's ability to provide a representative ground water sample from the interval of the formation which the Department requires to be sampled.

### **4. Maintenance and Record Keeping**



- a. Each well shall be inspected on a regular basis (as specified in the approved GWPP) for structural integrity and/or damage.
  - i. The permittee shall maintain a complete inspection record indicating dates of inspection, inspector's name, and conditions observed.
  - ii. These records shall be made available to the Department upon request.
  - iii. Failure to maintain complete and accurate records, or to submit them upon request, is a violation of this permit.



CAPE MAY COUNTY M.U.A.  
 SECURE SANITARY LANDFILL  
 GROUNDWATER MONITORING PLAN  
 FIGURE 1: EXISTING USGS SITE MAP

SOURCE: WOODBINE AND TUCKAHOE QUADRANGLE 1958 (REVISED 1972)

G 60\_LNDFL\_A PERMIT UGW 2018 FIGURE 1

