



State of New Jersey

CHRIS CHRISTIE
Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
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BOB MARTIN
Commissioner

KIM GUADAGNO
Lt. Governor

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

7008 1140 0000 1424 8974

March 20, 2012

To: Distribution List

Re: Final Surface Water Master General Permit Renewal
Category: ABR - Wastewater Beneficial Reuse (GP)
NJPDES Permit No. NJ0142581

Dear Interested Party:

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. This master general permit serves to renew the existing Beneficial Reuse General Permit for restricted access applications. Comments were received on the draft permit issued on October 24, 2011. The thirty (30) day public comment period began on November 2, 2011 when the public notice was published in the DEP Bulletin. It ended on December 5, 2011, 30 days after the public notice was published in the last newspaper, the *Democrat*.

A summary of the significant and relevant comments received on the draft action during the public comment period, the Department's responses, and an explanation of any changes from the draft action have been included in the Response to Comments document attached hereto as per N.J.A.C. 7:14A-15.16.

Please note that the Ocean County Utilities Authority - southern plant, had notified the Department that their individual NJPDES/DSW NJ0026108 permit already contains language for implementing an RWBR program. For this reason, the Department has removed the individual authorization NJPDES/DSW NJ0166260 from the list of facilities to receive a general permit authorization once the general permit is finalized.

Questions or comments regarding the final action should be addressed to Ben Manhas or Melisse Carasia-Auritti at (609) 292-4860 or via e-mail at ben.manhas@dep.state.nj.us or melisse.carasia-auritti@dep.state.nj.us.

Sincerely,

Pilar Patterson, Chief
Bureau of Surface Water Permitting

Enclosures

cc: Permit Distribution List
Masterfile #: 39609; PI #: 50577

Table of Contents

This permit package contains the items checked below:

- 1. Cover Letter**
- 2. Table of Contents**
- 3. Response to Comments**
- 4. NJPDES Permit Authorization Page**
- 5. Part I – General Requirements: NJPDES**
- 6. Appendix A: RWBR Approval Status List**
- 7. Appendix B: Annual Reuse Report**

New Jersey Department of Environmental Protection
Division of Water Quality
Bureau of Surface Water Permitting

RESPONSE TO COMMENTS

Comments were received on the NJPDES draft Surface Water Master General Permit Renewal No. NJ0142581 issued on October 24, 2011. The thirty (30) day public comment period began on November 4, 2011 when the Public Notice was published in (the Democrat) the last of several newspapers. It ended on December 5, 2011. The following person[s] commented during the public comment period:

- A. Cindy Zipf, Executive Director and Heather Saffers, Staff Scientist of Clean Ocean Action in a combined letter dated December 5, 2011.

A summary of the timely and significant comments received, the New Jersey Department of Environmental Protection's (Department) responses to these comments, and an explanation of any changes from the draft action have been included below:

1. COMMENT:

The Reclaimed Beneficial Reuse Program needs to be made more robust and transparent. The DEP should establish a clear Vision Statement, a Program Director, and a formal regulatory structure for the program instead of only issuing guidelines. The goals of the program, procedures for reuse, and water quality regulations that apply to reuse, should be released for public notice and comment. DEP should release an annual summary report that includes reuse projects, volumes of water reused, as well as any problems encountered and enforcement activities. The DEP should solicit and respond appropriately to public comments on this report. COA also is concerned that DEP lacks adequate staff resources to review and enforce beneficial use permits in a timely manner and encourages that adequate resources be allocated to beneficial reuse projects review and enforcement and communication on the program.

RESPONSE:

The Reclaimed Water for Beneficial Reuse (RWBR) program, implemented in New Jersey is clear and concise regarding its goals, and aggressive in conserving a vital natural resource. The Department has made available a Reclaimed Water for Beneficial Reuse Technical Manual, which outlines the structure for the program, lays out the goals of the program, the procedures for reuse, and the water quality regulations that apply to reuse. This manual may be obtained at <http://www.nj.gov/dep/dwq/techmans/reuseman.pdf>. This manual should be used by permittees that wish to pursue a voluntary program to implement RWBR as the manual outlines the steps to implement a RWBR program.

All permittees that perform reuse, submit to the Department an annual report, which is then summarized by the Department in a tabular format. These annual reports are available on the Department's website at http://www.state.nj.us/dep/dwq/reuse_data.htm.

To date, this program is unaware of any enforcement actions taken against any permittees regarding RWBR. However, the commenter is welcome to contact the Department's regional enforcement offices for enforcement related issues.

Although the appointment of a Program Director and staff may be beneficial for the program, at this time, the Department is not in a position to provide additional staffing.

No changes have been made to the permit as a result of this comment.

2. COMMENT:

A more transparent permitting process must be established that improves communication and provides more information and data on reuse projects with the public, notably as DEP moves toward eliminating the general permit. According to the general permit, over 100 facilities now include reuse conditions in individual permits and that “the DEP’s ultimate goal is to incorporate reuse into each facility’s individual permit. Therefore, each authorization under the general permit will only be effective until the individual NJPDES discharge permit for the authorized facility is renewed or modified.”

The public is likely unaware that these individual permits include beneficial reuse projects in local communities.

RESPONSE:

The statement mentioned in the draft general permit and reiterated in your comment, regarding the current facilities with reuse language as well as the goal of the NJPDES/DSW program, is correct. As discharge to surface water permits are renewed, the Department is incorporating language which includes the necessary conditions that must be followed to implement a RWBR program for restricted access as well as public access reuse. This language is included in the permittee’s draft permit which is available to the general public and open to public comment, in accordance with N.J.A.C. 7:14A-15.11.

Please note that although these renewed permits contain this RWBR language, individual permittees may or may not elect to implement a RWBR program. Facilities that do participate in the RWBR program are required to file an annual report as indicated in their individual permit as to how much RWBR water was utilized as well as the type of reuse. A summary of the individual reports is available on the Department’s website at http://www.state.nj.us/dep/dwq/reuse_data.htm.

No changes have been made to the permit as a result of this comment.

3. COMMENT:

The permitting process needs improvements, as the general permit lacks important information including reuse locations, past reports and data summaries on the effluent to be reused, and projected volumes. It is difficult for the public to review and comment on RWBR when such minimal information is provided. Information on the projected amount of water that will be reused, location, and purpose need to be provided. It is not clear whether engineering reports have been submitted for these facilities as described in the DEP’s Technical Manual for RWBR or if Reuse Feasibility Studies (RFS) have been completed for any of these facilities.

RESPONSE:

The general permit authorizes the permittee to produce restricted access RWBR which must meet the necessary treatment requirements specified in the general permit. The permitted uses of this RWBR are listed in Appendix A – RWBR Approval Status List. These listed uses (listed in the Appendix) were selected to assure the protection of public health by limiting the possibility of exposure to the RWBR. The types of reuse are specified, however the location of the uses are determined and recorded by the permittee and can be made available upon a written request to the permittee. To date, none of the facilities listed in this general permit participate in the RWBR program.

For the general reuse permit, neither an Engineer’s Report nor a Reuse Feasibility Study is required. These items are primarily needed for large scale reuse facilities or facilities that produce public access reuse water.

No changes have been made to the permit as a result of this comment.

4. COMMENT:

The draft general permit and future individual NJPDES draft permits need to include information that provides at least:

- a data summary from the Discharge Monitoring Reports (DMR's) and the Wastewater Characterization Reports (WCR's) for at least a 5-year period that indicates support for reuse
- the total projected volume of RWBR
- the projected volumes according to the category of reuse and specific projects
- information on specific projects where water is to be reused (location, coverage area, etc.)
- the Engineering Report as specified in the DEP's Technical Manual
- any additional information in the RFS's environmental feasibility study guidelines that are not included in the Engineering Report requirements
- if available, any Annual Reuse Reports
- how application avoids impacting environmentally sensitive areas, and
- if any additional treatment steps will be taken prior to reuse.

RESPONSE:

Please note that the thirteen (13) permittees stated in the fact sheet of the general permit have not commenced an RWBR program to date. Therefore, the above questions can not be answered as no RWBR data is available for these facilities. However, effluent DMR's and WCR's for these facilities are available through the Department's website at <http://www.nj.gov/dep/opra/online.html>.

No changes have been made to the permit as a result of this comment.

5. COMMENT:

COA recommends that several changes be made to the general permit before it is finalized:

- The list of permittees authorized to distribute RWBR must not change. Adding other permittees to the general permit without notice to the public is a material change that should not be allowed.

RESPONSE:

Once the general permit is finalized, only the facilities listed in the fact sheet will receive final permit authorizations. Any other facility requesting authorization by this general permit will need to complete and submit a permit application which includes proof that a public notice, requesting coverage by this general permit was placed in the local newspaper.

No changes have been made to the permit as a result of this comment.

6. COMMENT:

COA recommends that several changes be made to the general permit before it is finalized:

- The draft general permit for beneficial reuse should clearly state that the permittee must comply with any modifications to Technical Manual for Reclaimed Water for Beneficial Reuse or any requirements or regulations put into use or enacted after the permit issuance. This will ensure that there are no lapses in environmental protection.

RESPONSE:

If in the future the Technical Manual or NJPDES Regulations are revised, which may require a permittee covered by this general permit to implement additional steps, the Department shall modify the general permit in accordance with N.J.A.C. 7:14A-16 and 17, and inform the remaining permittees covered by this general

permit of the proposed changes so that the permittee can make the necessary adjustment(s), if any, to comply with the newly proposed change(s) or drop out of the RWBR program.

No changes have been made to the permit as a result of this comment.

7. COMMENT:

COA recommends that several changes be made to the general permit before it is finalized:

- Enforcement measures need to be clarified, and accountability needs to be ensured. Permit requirements depend on self-reporting by a facility. This is concerning as some requirements demand careful oversight by facility employees and there does not appear to be a system for accountability. For example: How will DEP ensure that ponding limitations in restricted access irrigation are enforced? How does DEP define “times of least contact” and enforce these times? Accountability and enforcement processes should be established in beneficial reuse regulations and DEP should perform random inspections to ensure compliance.

RESPONSE:

Each facility that would have authorization under this NJPDES permit would also have to have authorization under a NJPDES/DSW permit and would be inspected at least once a year both under the discharge permit as well as the RWBR authorization. Permit conditions under the discharge permit and/or RWBR authorization are reviewed during a site inspection to ensure compliance with the terms and conditions of the permits. Failure to comply with any condition including ponding would be subject to enforcement action by the Department. For example, an RWBR site inspection would include all sites that are being spray irrigated with RWBR. Under the general permit this inspection would simply be at the facility site, since no other spray sites are authorized under the general permit.

No changes have been made to the permit as a result of this comment.

8. COMMENT:

COA recommends that several changes be made to the general permit before it is finalized:

- Records, such as lists of RWBR facilities and users and data, should also be made available to the public and be available electronically.

RESPONSE:

As mentioned in response to comment #4, none of the facilities listed in the fact sheet have commenced an RWBR program. However, the Department does have RWBR data for permittees that have implemented an RWBR program in accordance with the conditions stated in their individual permit. RWBR flow information as well as types of uses are identified in these summary reports. These reports are available on the Department’s website at http://www.state.nj.us/dep/dwq/reuse_data.htm. RWBR water quality data for these facilities can be obtained through the facilities DMR’s and WCR’s at <http://www.nj.gov/dep/opra/online.html>.

No changes have been made to the permit as a result of this comment.

9. COMMENT:

COA recommends that several changes be made to the general permit before it is finalized:

- There is a discrepancy between the fecal coliform requirements in the fact sheet and the draft permit that needs correction. The fact sheet states that “for restricted access reuse fecal coliform

levels shall be no greater than 200 colonies/100 ml as a monthly geometric mean and 400 colonies/100 ml as a geometric mean is consistent with N.J.A.C. 7:14A-12.5.” Whereas Part I of the permit states that “for RWBR that contains a treated sanitary component, it shall comply with 200 colonies per 100 ml monthly average Geometric Mean, and 400 colonies per 100 ml maximum in any one sample.

A maximum limit in any one sample, in accordance with EPA guidance, should also be added for precautionary purposes.

RESPONSE:

The Department’s intent in establishing limitations for fecal coliform in this general permit was to include those limitations specified at N.J.A.C.7:14A-12.5; specifically 200 colonies/100 ml as a monthly geometric mean and 400 colonies/100 ml as a weekly geometric mean. Therefore, Part I D.4.a.i has been corrected in the final permit. It should also be noted that the 2004 EPA “Guidelines for Water Reuse” generally recommends using an average limit of 200 colonies/100 ml in restricted access applications.

10. COMMENT:

The fecal coliforms requirements in the permit are not consistent with the latest EPA Guidance and are inadequate. The fact sheet indicates that the fecal coliform requirements in the permit (see 3. E. above) are consistent with 1992 EPA Guidelines for Water Reuse. However, these values are much higher than the most recent guidance from 2004 that recommends that non-detectable levels up to only 14 fecal coliforms cfu/100 ml be used for Urban Reuse, which includes landscape irrigation, fire protection, vehicle washing, street cleaning, etc. some of which may or may not have restricted reuse conditions. The 2004 EPA guidance considers fire protection and street cleaning to be unrestricted reuses, which is different than what is stated in this permit as restricted access reuse. This discrepancy should be explained. This permit should recognize that some of the proposed reuses are not considered to be “restricted access reuse” by EPA and require the most stringent guidance or justify how these reuses indeed qualify as “restricted access reuse” to allow the use of the less stringent guidelines and specify maximum allowable levels as recommended by the EPA.

RESPONSE:

As stated above, the fecal coliform requirements included in this general permit are consistent with the New Jersey regulations at N.J.A.C. 7:14A. It should be noted that the Department requires levels of 2.2 colonies/100 ml as a 7-day average and 14 colonies/100 ml as a maximum in any one sample for all public access reuse consistent with EPA’s guidance for the Urban Reuse category. Chapter 2, page 7 of the EPA’s 2004 “Guidelines for Water Reuse” indicates that the urban reuse category includes the uses which the Department considers to be public access, namely;

irrigation of public parks and recreation centers, athletic fields, school yards and playing fields, highway medians and shoulders, and landscaped areas surrounding public buildings and facilities, irrigation of landscaped areas surrounding single-family and multi-family residences, general wash down, and other maintenance activities, irrigation of landscaped areas surrounding commercial, office, and industrial developments, irrigation of golf courses, commercial uses such as vehicle washing facilities, laundry facilities, window washing, and mixing water for pesticides, herbicides, and liquid fertilizers, ornamental landscape uses and decorative water features, such as fountains, reflecting pools, and waterfalls, dust control and concrete production for construction projects, fire protection through reclaimed water fire hydrants and toilet and urinal flushing in commercial and industrial buildings.

However, this list does not include street sweeping as indicated in the comment. In addition, the Department requires that street sweeping utilizing RWBR be conducted at times of least contact, such as early morning to minimize any potential exposure to the public. In addition, regarding fire protection, the intent of this general

permit was not to cover RWBR in fire hydrants, which would also be considered a public access use by the Department but instead ponds used to hold water at a particular site where the water would be used only at that site should a fire occur. This type of fire protection is typically used at large industrial sites. Finally, this general permit states that the only landscape irrigation allowed is that within a secured perimeter (fenced area) so that access is restricted. All landscape irrigation where the potential for exposure to the public is high, such as on golf courses and athletic fields is classified as public access reuse by the Department, consistent with the 2004 EPA Guidelines and is not under the scope of this general permit.

No changes have been made to the final permit as a result of this comment.

11 COMMENT:

The RWBR Operational Requirements or Additional Requirements for Restricted Access RWBR section should require consistency with EPA guidelines. COA is concerned that Water Quality Based Effluent Limitations (WQBEL's) for priority pollutants in ocean discharges may not be protective for land based irrigation purposes. COA strongly suggests that the permit establish effluent limitations and mandate compliance recommendations contained in the most recent version of EPA's Guidance Manual for Water Reuse, where the EPA's guidelines are more protective than current NJPDES requirements.

RESPONSE:

The 2004 EPA guidelines do not suggest that priority pollutant limits be established for restricted access reuse but instead suggest that the permitting entity may want to consider requiring monitoring for priority pollutants, depending on the source of the reuse water, where the water will be reused for public access applications. Since this general permit does not cover public access reuse the comment is beyond the scope of this permit.

No changes have been made to the permit as a result of this comment.

12 COMMENT:

The monitoring frequency must be specified and in accordance with EPA's guidelines. The frequency of monitoring is unclear. Priority pollutants should be monitored according to the most recent guidance manual recommendations to ensure that uses are protective of human health and the environment.

RESPONSE:

The Department has not established a set monitoring frequency for the parameters regulated in this general permit. It is the responsibility of the permittee to take a sufficient number of samples to determine that the RWBR meets the specified requirements at all times.

Please refer to the response to comment 11 regarding priority pollutants.

No changes have been made to the final permit as a result of this comment.

13. COMMENT:

The DEP should take more protective steps and require the Yeast Estrogen Screen (YES) bioassay, a partial screen for estrogenically active compounds, or a more recent modified version, for RWBR testing and effluent limitations for certain types of RWBR. YES bioassays have been used to test wastewater since 1996 and a modified method has been developed recently that is easy, simple to use and provides quick results. It is important that RWBR not contaminate nearby streams, waterways, and groundwater with estrogenically active compounds that can affect the development and reproduction of organisms and cause cancer.

RESPONSE:

Emerging contaminants such as yeast and estrogen are a concern the Department is facing with regard to all water issues. The Department continues to monitor the EPA and national discussions on the topic. Evidence has shown that these emerging contaminants are already present in drinking water supplies and surface waters due, in part to wastewater discharges directly into the state's waters. Much of the RWBR covered under this general permit is directed back to a treatment facility after reuse or deals with such small volumes of water that it is unlikely to have a negative impact on the existing situation. Further, if RWBR was not used for these applications potable water would need to be used and to date tests such as the one noted by the commenter are not used on potable water either, nor is there an established standard against which to measure any results of the screening if it were to be performed. Finally, this procedure has not been approved of by EPA for use in testing water or wastewater. The Department understands that the UK has developed some protocols but the US has not instituted approvals for this type of testing for wastewaters.

No changes have been made to the final permit as a result of this comment.



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: NJ0142581

Final: Surface Water Master General Permit Renewal

Permittee:

NJPDES Master General Permit Program Interest
 Category ABR
 Per Individual Notice of Authorization
 Division of Water Quality
 Mail Code 401-02B
 P.O. Box 420, 401 East State Street
 Trenton, NJ 08625-0420

Co-Permittee:

Property Owner:

NJPDES Master General Permit Program Interest
 Category ABR
 Per Individual Notice of Authorization
 Division of Water Quality
 Mail Code 401-02B
 P.O. Box 420, 401 East State Street
 Trenton, NJ 08625-0420

Location Of Activity:

NJPDES Master General Permit Program Interest
 Category ABR
 Per Individual Notice of Authorization
 Division of Water Quality
 Mail Code 401-02B
 P.O. Box 420, 401 East State Street
 Trenton, NJ 08625-0420

Authorization(s) Covered Under This Approval	Issuance Date	Effective Date	Expiration Date
ABR -Wastewater Beneficial Reuse (GP)	03/20/2012	05/01/2012	04/30/2017

**By Authority of:
 Commissioner's Office**

**DEP AUTHORIZATION
 Pilar Patterson, Chief
 Bureau of Surface Water Permitting
 Water Pollution Management Element
 Division of Water Quality**

(Terms, conditions and provisions attached hereto)

Division of Water Quality

PART I

NARRATIVE REQUIREMENTS

Wastewater Beneficial Reuse (GP)

A. General Requirements of all NJPDES Permits

1. 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 this final renewal permit.
- b. General Conditions
 - i. Penalties for Violations - N.J.A.C. 7:14-8.1 et seq
 - ii. Incorporation by Reference - N.J.A.C. 7:14A-2.3
 - iii. Toxic Pollutants - N.J.A.C. 7:14A-6.2(a)4i
 - iv. Duty to Comply N.J.A.C. 7:14A-6.2(a)1 & 4
 - v. Duty to Mitigate - N.J.A.C. 7:14A-6.2(a)5, 6.2(a)11
 - vi. Inspection and Entry - N.J.A.C. 7:14A-2.11(e)
 - vii. Enforcement Action - N.J.A.C. 7:14A-2.9
 - viii. Signatory Requirements for Applications and Reports N.J.A.C. 7:14A-4.9
 - ix. Effect of Permit/Other Laws - N.J.A.C. 7:14A-2.9(c), 6.2(a)6&7
 - x. Severability - N.J.A.C. 7:14A-2.2(b)
 - xi. Administrative Continuation of Permits N.J.A.C. 7:14A-2.8
 - xii. Permit Actions - N.J.A.C. 7:14A-2.7(c)
 - xiii. Permit Duration - N.J.A.C. 7:14A-2.7(a)
 - xiv. Confidentiality N.J.A.C. 7:14A-18.2 & 2.11(g)
 - xv. Treatment Works Approval - N.J.A.C. 7:14A-22 & 23
 - xvi. General Permits - N.J.A.C. 7:14A-6.13
- c. Operation and Maintenance
 - i. Need to Halt or Reduce not a Defense - N.J.A.C. 7:14A-2.9(b)
 - ii. Proper Operation and Maintenance - N.J.A.C. 7:14A-6.12(a)

- d. Monitoring And Records
 - i. Monitoring N.J.A.C. 7:14A-6.5
 - ii. Record Keeping - N.J.A.C. 7:14A-6.6
 - iii. Signatory Requirements for Monitoring Reports - N.J.A.C. 7:14A-6.9
- e. Reporting Requirements
 - i. Planned Changes - N.J.A.C. 7:14A-6.7
 - ii. Noncompliance Reporting - N.J.A.C. 7:14A-6.10
 - iii. Hotline/Two Hour & Twenty-four Hour Reporting N.J.A.C. 7:14A-6.10(c) & (d)
 - iv. Written Reporting N.J.A.C. 7:14A-6.10(e) &(f) & 6.8(h)
 - v. Duty to Provide Information - N.J.A.C. 7:14A-2.11, 6.2(a)14 & 18.1
 - vi. Transfer - N.J.A.C. 7:14A-6.2(a)8, 6.13(n), 16.1, 16.2

B. Additional Requirements Incorporated By Reference

1. Requirements for Discharges to Surface and Ground Waters

- a. In addition to conditions in Part I of this permit, the conditions in this section are applicable to activities at the permitted location and are incorporated by reference. The permittee is required to comply with the regulations which are in effect as of the effective date of the final permit.
 - i. Water Quality Management Planning Regulations N.J.A.C. 7:15
 - ii. Ground Water Quality Standards N.J.A.C. 7:9-6

C. 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.

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 (877) WARNDP.
- b. The permittee shall submit a written report as required by N.J.A.C. 7:14A-6.10 within 5 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 reuse activities, including the cessation of reuse activities.
- 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. Operator Certification

- 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-1.10(b) requires a licensed operator. The operator of a system shall meet the Department's requirements pursuant to N.J.A.C. 7:10A-1.10(b) 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 for reuse, if necessary.
 - i. Notification shall be submitted to:
NJDEP
Examination and Licensing Unit
Mail Code 401-04E PO Box 420
Trenton, New Jersey 08625-0420
(609) 777-1013

7. Operation Restrictions

- a. The operation of a waste treatment or disposal facility shall at no time create:
 - i. a discharge, except as authorized by the Department in the manner and location specified in this permit;
 - ii. any discharge to the waters of the state or any standing or ponded condition for water or waste, except as specifically authorized by a valid NJPDES permit.

D. RECLAIMED WATER FOR BENEFICIAL REUSE (RWBR)

1. Introduction

- a. The permittee is authorized to distribute wastewater for Restricted Access beneficial reuse applications that include but are not limited to sanitary sewer jetting, street sweeping, sewage treatment plant washdown, certain industrial processes (e.g. non-contact cooling water and boiler make-up water), fire protection and irrigation of landscaping within a secured perimeter (fenced area) in accordance with the conditions described below.

2. RWBR Submittal Requirements

- a. Prior to distribution through the reuse system, the following submittals are required:

- i. The permittee shall submit and receive approval of an Operations Protocol as detailed in the most recent version of the Department's "Technical Manual for Reclaimed Water for Beneficial Reuse" (Reuse Technical Manual), available at www.state.nj.us/dep/dwq/techmans/reuseman.pdf, with the application package. Any changes and/or revisions to the Operations Protocol shall be submitted to the Department for approval prior to implementation. A copy of the approved Operations Protocol shall be maintained onsite. The requirement for an Operations Protocol may be waived by the Department for certain types of Restricted Access RWBR systems, depending on the intended use, if wastewater quality is not an issue. Specific requirements for the Operations Protocol are identified in the Reuse Technical Manual. Please note that an Operations Protocol is not required for facilities that pursue this general permit for the sole purpose of sanitary sewer jetting or STP washdown.
- ii. The permittee shall submit a copy of the Reuse Supplier and User Agreement with each request for authorization to distribute RWBR. Specific requirements for the Reuse Supplier and User Agreement are identified in the Reuse Technical Manual. Please note that a Reuse Supplier and User Agreement is not required if the supplier of the RWBR and the user are the same entity.
- iii. Submit a Beneficial Reuse Annual Report: by February 1 of each year beginning from the effective date of the permit (EDP). The permittee shall compile the total volume of RWBR distributed to each authorized RWBR site for the previous calendar year. Specific requirements for the Annual Reuse Report are identified in the Reuse Technical Manual. An Annual Reuse Report Form is included herein as Appendix B.
- iv. The permittee shall submit an Engineering Report in support of RWBR authorization requests for new or expanded RWBR projects (where required). Specific requirements for the Engineering Report are identified in the Reuse Technical Manual.
- v. All submittals regarding DSW's shall be submitted to the Bureau of Surface Water Permitting and submittals regarding DGW's shall be submitted to the Bureau of Nonpoint Pollution Control at the following address:
Mail Code 401 - 02B
PO Box 420
Trenton, NJ 08625-0420
- vi. For new RWBR applications located within the Pinelands, approval from the Pinelands Commission must be obtained prior to filing a request for authorization with the Department.

3. RWBR Operational Requirements

- a. Effluent that is diverted for RWBR systems shall be monitored and meet the limitations established by this NJPDES permit and in the permittee's individual permit.
- b. Effluent that does not meet the limitations for RWBR or the operational requirements specified in the facility's approved Operations Protocol, must not be used for RWBR and must be discharged in accordance with the effluent limitations established in Part III of the permittee's individual NJPDES permit.
- c. The land application of RWBR shall not produce surface runoff or ponding.
- d. All setback distances shall be consistent with the distances outlined in the Reuse Technical Manual. Windblown spray shall not reach areas accessible to the public.
- e. Land application sites shall not be frozen or saturated when applying RWBR.

- f. A daily log noting the volume of water supplied, the name of the user, date of pick-up, the location and type of reuse (e.g. sewer jetting, landscape irrigation, etc.) and where it is being distributed shall be maintained on-site by the permittee and made available to the Department upon request.
- g. Any truck used to transport and/or distribute RWBR shall be appropriately marked. The truck shall not be used to transport water or other fluid that does not meet at all limitations and requirements as specified in this permit for water diverted for RWBR, unless the tank has been emptied and adequately cleaned prior to the addition of the RWBR.
- h. The permittee shall post Access Control and Advisory Signs in accordance with the requirements of the Reuse Technical Manual.
- i. Worker contact with RWBR shall be minimized.
- j. RWBR operations such as street sweeping shall be conducted in a manner that minimizes exposure to the general public.
- k. There shall be no cross-connections to potable water systems.
- l. All RWBR piping, pipelines, valves, and outlets shall be appropriately color coded, tagged or labeled to warn the public and employees that the water is not intended for drinking.

4. Additional Requirements for Restricted Access RWBR

- a. In addition to the effluent limitations contained in Part III of the permittee's individual NJPDES DSW or DGW permit, the following limitations and monitoring requirements are applicable for RWBR:
 - i. For RWBR that contains a treated sanitary component, it shall comply with the following fecal coliform requirements: 200 colonies per 100 ml monthly geometric mean and 400 colonies per 100 ml weekly geometric mean.
 - ii. For landscape irrigation where ultraviolet disinfection is used, a design UV dose of 75 mJ/cm² under maximum daily flow must be used. This dose must also be based on continuous monitoring of lamp intensity, UV transmittance and flow rate. All aspects of the UV system must meet the requirements of the December 2000 National Water Research Institute's Ultraviolet Disinfection Guidelines for Drinking Water and Water Reuse.
 - iii. For landscape irrigation at wastewater treatment plants where chlorine disinfection is utilized, a chlorine produced oxidants concentration of at least 1.0 mg/L shall be maintained for a minimum acceptable contact time of 15 minutes at peak hourly flow. Treated wastewater shall be withdrawn prior to dechlorination and monitored at a minimum frequency of one initial grab sample and an additional grab sample every fifteen minutes during the filling of distribution vehicles to ensure that all treated wastewater distributed for reuse applications satisfactorily met the disinfection requirements. Any effluent not meeting the disinfection requirements shall not be reused.
 - iv. The hydraulic loading rate for land application of RWBR shall not exceed a maximum annual average of 2 inches per week.
 - v. The issuance of this permit and/or individual authorizations for the use of RWBR shall not be considered as a waiver of any applicable Federal, State, Pinelands, Delaware River Basin Commission (DRBC) or local rule, regulation or ordinance.

NJPDES MASTER GENERAL PERMIT PROGRAM INTEREST, Trenton

Permit No.NJ0142581
DSW110002 Surface Water Master General Permit Renewal

Masterfile #: 39609

PI #: 50577

RWBR Approval Status List

The permittee is authorized (approved) to utilize RWBR for the following specific category, type and location specified in the table below.

RWBR Category	Specific RWBR Type	Location	Status
RA-LA	Spray Irrigation within a fenced perimeter or otherwise restricted area (Without NH3 + NO3)	Locations (if any) shall be listed in the Annual Reuse Report	Approved
RA-CM	Street Sweeping	MUA Sewer Service Area	Approved
RA-CM	Fire Protection	Locations (if any) shall be listed in the Annual Reuse Report	Approved
RA-IS	Sanitary Sewer Jetting	MUA Sewer Service Area	Approved
RA-IS	Non-Contact Cooling Water	Locations (if any) shall be listed in the Annual Reuse Report	Approved
RA-IS	Boiler Makeup Water	Locations (if any) shall be listed in the Annual Reuse Report	Approved
RA-IS	STP Washdown	At MUA	Approved

Categories:

RA-LA Restricted Access-Land Application and Non-Edible Crops
RA-CM Restricted Access--Construction and Maintenance Operations
RA-IS Restricted Access--Industrial Systems

Abbreviations:

NH3 - Ammonia
NO3 - Nitrate
STP - Sewage Treatment Plant
MUA - Municipal Utilities Authority

Appendix B - Annual Reuse Report

Facility Name: _____
 NJPDES No.: NJ _____
 Calendar Year: _____

Any facility that has received an RWBR authorization is required to submit an Annual Reuse Report. The following information, at a minimum, shall be included in the report, due on February 1st of each year.

- (1) The total wastewater reused (R) by the facility in the previous calendar year. If no wastewater was reused in the previous calendar year, report R as zero and skip to (6) below;
 $R = \text{_____ gallons}$
- (2) The total wastewater discharged (D) by the facility in the previous calendar year;
 $D = \text{_____ gallons}$
- (3) The percent of wastewater reused (%R) by the facility in the previous calendar year, calculated as follows:
 $\%R = R/(R+D)$, expressed as a percent;
 $\%R = \text{_____ percent}$
- (4) The total wastewater that was reused for **each reuse type** in the previous calendar year. This information should be provided in the chart format utilized in the RWBR Usage Table below;

RWBR Usage Table

RWBR Category	Specific RWBR Type	Location	Flow (gallons)

Attach additional pages as necessary.

- (5) An update to the correlation between Total Suspended Solids and Turbidity, if necessary;
 $\text{Correlation} = \text{_____}$
- (6) Submit a completed copy of this form to:

For paper copies: Mail Code 401 – 02B Division of Water Quality Bureau of Surface Water Permitting P.O. Box 420 Trenton, NJ 08625-0420	For electronic copies: ben.manhas@dep.state.nj.us
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Appendix B - Annual Reuse Report

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 Calendar Year: _____

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 $\%R = R/(R+D)$, expressed as a percent;
 $\%R = \text{_____ percent}$
- (4) The total wastewater that was reused for **each reuse type** in the previous calendar year. This information should be provided in the chart format utilized in the RWBR Usage Table below;

RWBR Usage Table

RWBR Category	Specific RWBR Type	Location	Flow (gallons)
	<i>For Example:</i>		
<i>RA-CM</i>	<i>Street Sweeping</i>	<i>Local Township</i>	<i>42,000</i>
<i>RA-IS</i>	<i>Sanitary Sewer Jetting</i>	<i>Facility Sewer Service Area</i>	<i>15,000</i>
<i>RA-IS</i>	<i>STP Washdown</i>	<i>Sewage Treatment Plant</i>	<i>43,000</i>
		<i>Grand Total (R)</i>	<i>100,000</i>

Attach additional pages as necessary.

- (5) An update to the correlation between Total Suspended Solids and Turbidity, if necessary;
 $\text{Correlation} = \text{_____}$
- (6) Submit a completed copy of this form to:

For paper copies:
 Mail Code 401 – 02B
 Division of Water Quality
 Bureau of Surface Water Permitting
 P.O. Box 420
 Trenton, NJ 08625-0420

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