



State of New Jersey

CHRIS CHRISTIE
Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Mail Code – 401-02B
Division of Water Quality
Bureau of Surface Water Permitting
P.O. Box 420 – 401 E State St
Trenton, NJ 08625-0420
Phone: (609) 292-4860 / Fax: (609) 984-7938

BOB MARTIN
Commissioner

KIM GUADAGNO
Lt. Governor

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
7011 2970 0003 7284 1002

January 8, 2016

Peter Ylvisaker, Executive Director
Plumsted Municipal Utilities Authority
121 Evergreen Road
New Egypt, NJ 08533-0398

Re: Final Surface Water New Permit Action
Category: A -Sanitary Wastewater
NJPDES Permit No. NJ0226271
Plumsted Municipal Utilities Authority Wastewater Treatment Plant
Plumsted Township, Ocean County

Dear Mr. Ylvisaker:

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. Comments were received on the draft permit issued on October 31, 2014 and a public hearing was held on December 17, 2014. Several speakers at the hearing requested an extension to the thirty day public comment period that was due to end following the public hearing. The notice of the issuance of the draft document was originally published in both the Asbury Park Press and the DEP Bulletin on November 5, 2014, and in accordance with N.J.A.C. 7:14A-15.14(a)3., the notice of the issuance of the extension of the public comment period was published in the Asbury Park Press on January 3, 2015 and in the DEP Bulletin on January 7, 2015. The public comment period ended on February 8, 2015.

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.

Any requests for an adjudicatory hearing shall be submitted in writing by certified mail, or by other means which provide verification of the date of delivery to the Department, within 30 days of receipt of this Surface Water New Permit Action in accordance with N.J.A.C. 7:14A-17.2. You may also request a stay of any contested permit condition, which must be justified as per N.J.A.C. 7:14A-17.6 *et seq.* The adjudicatory hearing request must be accompanied by a completed Adjudicatory Hearing Request Form; the stay request must be accompanied by a completed Stay Request Form. Copies of these forms can be downloaded from the Department's website at <http://www.nj.gov/dep/dwq>.

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.

All monitoring shall be conducted in accordance with 1) the Department's "Field Sampling Procedures Manual" applicable at the time of sampling (N.J.A.C. 7:14A-6.5(b)4), and/or 2) the method approved by the Department in Part IV of the permit. The Field Sampling Procedures Manual is available at <http://www.nj.gov/dep/srp/guidance/fspm/>.

As a result of this permit action, your monitoring report forms (MRFs) have been created and will be mailed to your current MRF recipient. Beginning the effective date of this permit action, please use the new forms. If these revised forms are not received within 2 weeks, please contact the Office of Permit Management at (609) 984-4428 for copies.

For your convenience, a schedule of submittal requirements has been included with this permit package.

Questions or comments regarding the final action should be addressed to Kelly Perez at (609) 292-4860.

Sincerely,

A handwritten signature in black ink, appearing to read "Pilar Patterson", enclosed in a thin black rectangular border.

Pilar Patterson, Chief
Bureau of Surface Water Permitting

Enclosures

cc: Permit Distribution List

Masterfile #: 501695; PI #: 631998

FACILITY SUBMITTALS

1. GDR - General Discharge Requirements

Task Description	Actual Due Date
Submit a Complete Permit Renewal Application	10/02/2020

2. A - Sanitary Wastewater

Task Description	Actual Due Date
Local Ordinance	05/31/2016
Submit Letter of Intent	05/31/2016
Submit an Acute Methodology Questionnaire	05/31/2016
Certification of Operations and Maintenance (O&M) Manual Preparation	06/30/2016
Submit an Acute Whole Effluent Toxicity Test Report	07/26/2016
Submit an Acute Whole Effluent Toxicity Test Report	10/26/2016
Submit an Acute Whole Effluent Toxicity Test Report	01/26/2017
Submit an Acute Whole Effluent Toxicity Test Report	04/26/2017
Annual Pretreatment Program Report	05/31/2017
Submit an Acute Whole Effluent Toxicity Test Report	07/26/2017
Submit an Acute Whole Effluent Toxicity Test Report	10/26/2017
Submit an Acute Whole Effluent Toxicity Test Report	01/26/2018
Submit an Acute Whole Effluent Toxicity Test Report	04/26/2018
Annual Pretreatment Program Report	05/31/2018
Submit an Acute Whole Effluent Toxicity Test Report	07/26/2018
Submit an Acute Whole Effluent Toxicity Test Report	10/26/2018
Submit an Acute Whole Effluent Toxicity Test Report	01/26/2019
Submit an Acute Whole Effluent Toxicity Test Report	04/26/2019
Annual Pretreatment Program Report	05/31/2019
Submit an Acute Whole Effluent Toxicity Test Report	07/26/2019
Submit an Acute Whole Effluent Toxicity Test Report	10/26/2019
Submit an Acute Whole Effluent Toxicity Test Report	01/26/2020
Submit an Acute Whole Effluent Toxicity Test Report	04/26/2020
Annual Pretreatment Program Report	05/31/2020
Submit an Acute Whole Effluent Toxicity Test Report	07/26/2020
Submit an Acute Whole Effluent Toxicity Test Report	10/26/2020
Submit an Acute Whole Effluent Toxicity Test Report	01/26/2021

Table of Contents

This permit package contains the items checked below:

- 1. Cover Letter**
- 2. Facility Submittals**
- 3. Table of Contents**
- 4. Response to Comments**
- 5. NJPDES Permit Authorization Page**
- 6. Part I – General Requirements: NJPDES**
- 7. Part II – General Requirements: Discharge Categories**
- 8. Part III – Limits and Monitoring Requirements**
- 9. Part IV – Specific Requirements: Narrative**
- 10. Appendix A: RWBR Approval Status List**

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 New Permit Action No. NJ0226271 issued on October 31, 2014. The original thirty (30) day public comment period began on November 5, 2014 when the Public Notice was published in the *Asbury Park Press*. The Department then held a public hearing on December 17, 2014. The public comment period was then extended and re-noticed in the *Asbury Park Press* on January 3, 2015. It ended on February 2, 2015. The following people commented during the public comment period:

1. Christopher B. Jepson, P.E., Van Cleef Engineering Associates, in a letter dated December 10, 2014 and revised December 11, 2014
2. Bill Wolfe, Director, NJ PEER, in oral testimony at the public hearing, as well as written letters dated December 18, December 20, and December 27, 2014
3. Mary Alessio Leck, Ph.D., Friends for the Abbott Marshlands, Emeritus Professor of Biology, Rider University, in written letters dated December 22 and January 31, 2015
4. Catherine A. Ross, in oral testimony at the public hearing, and in letters dated December 17, 2014 and February 2, 2015
5. Paul Jusino, D.R.Y.L President, in an email dated December 29, 2014
6. Denise Gomolka, in an email dated December 28, 2014
7. Regina Colonna, in an email dated December 26, 2014
8. Jean Public, in an email dated December 29, 2014
9. Kelly Rypkema, MS. Biol./Envi. Sci., in a letter dated December 29, 2014
10. David R. Smith, in an email dated January 23, 2015
11. George and Leona Fluck, in oral testimony at the public hearing and in a letter dated December 17, 2014
12. Tony O'Donnell, in oral testimony at the public hearing
13. Mark Covitz, in oral testimony at the public hearing
14. Dave McKeon, in oral testimony at the public hearing
15. Dan Wall, in oral testimony at the public hearing and in a letter dated January 30, 2015
16. Jim Lyle, in oral testimony at the public hearing
17. Mitch Geier, in oral testimony at the public hearing
18. Fran Ondrushek, in oral testimony at the public hearing
19. Robert Latham, in oral testimony at the public hearing
20. Laura Lynch, Land Use Issues Coordinator, New Jersey Chapter, Sierra Club, in a letter dated January 27, 2015
21. James J. Morrissey, Recording Secretary, Delaware River Yachtsmen's League, in an email dated February 1, 2015
22. Elizabeth Jahn, in a letter dated January 26, 2015
23. Glenn Riccardi, in a letter dated January 6, 2015
24. Alyce M. Hreha, in a letter dated January 21, 2015

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:** Several commenters expressed concern that Plumsted's application and study documents do not specifically demonstrate that the designated uses of the waterbody will be adequately protected or that the downstream ecological impacts of building this sewage treatment plant have been considered. There is also concern about water quality on behalf of the users who swim, kayak and paddle the river, as well as the young fish and other wildlife in the area. These commentors request that the permit be withdrawn until the proposed

wastewater treatment plant is brought into compliance with all local, state and federal requirements. (Commentors #2, #4, #22)

RESPONSE: Surface water quality standards were specifically developed to protect the designated uses of the waters of the State of New Jersey. In this case, as stated on page 3 of 18 of the Fact Sheet of the Draft permit, “Effluent limits for this proposed discharge have been established in accordance with the anti-degradation requirements contained in the New Jersey Surface Water Quality Standards (SWQS) at N.J.A.C. 7:9B-1.5”, thus ensuring that the receiving waters will be adequately protected and the designated uses will be maintained.

As stated on page 2 of 18 of the Fact Sheet of the draft permit and as per the Surface Water Quality Standards at N.J.A.C. 7:9B, the designated uses for the Freshwater 2 (FW2) receiving waters are:

1. Maintenance, migration and propagation of the natural and established biota;
2. Primary and secondary contact recreation;
3. Industrial and agricultural water supply;
4. Public potable water supply after conventional filtration treatment (a series of processes including filtration, flocculation, coagulation, and sedimentation, resulting in substantial particulate removal but no consistent removal of chemical constituents) and disinfection; and
5. Any other reasonable uses.

No change has been made to the final permit in response to this comment.

2. **COMMENT:** One commentor feels that the aggressive pressure to preserve farmland within their community has contributed to long term sewage treatment needs that have not been addressed. The proposed treatment plant will now compromise the much larger interests of the surrounding landowners and public users of the affected waterways for future generations. (Commentors #3, #4)

RESPONSE: Ocean County’s Department of Planning has been working with the Department’s Office of Land Use Planning and the 33 respective Ocean County municipalities on long-term regional planning for wastewater management. This entails a detailed analysis of the current and future wastewater treatment needs of the County as well as the potential impact of any future septic systems on groundwater quality. This planning effort has resulted in the Department’s adoption of Ocean County’s Wastewater Management Plan on December 30, 2015. That plan identifies areas of the County that are not planned for sewers and if fully built out (based on current zoning regulations and ordinances) with septic systems, would negatively impact groundwater quality. It also focuses on identifying areas that are or are planned to be preserved as well as environmentally sensitive areas that are not appropriate for development. With regard to the extensive planning, analysis and coordination that has occurred, the Department does not believe the issuance of this permit will compromise the much larger interests of the surrounding landowners and public users of the affected waterways for future generations.

Limitations and conditions within the permit were established to ensure that the designated uses of the receiving water are maintained.

No change has been made to the final permit in response to this comment.

3. **COMMENT:** Several commenters are concerned about the number of endangered and threatened species that call the watershed home. There are several species, including many varieties of plants, animals and birds, that will be affected by introducing the proposed discharge. There is concern that no threatened and endangered species surveys appear to have been conducted at the site. (Commentors #9, #24)

RESPONSE: The Department’s National Heritage Program conducted a search of the National Heritage Database and the Landscape Project habitat mapping for occurrences of rare wildlife or plant species or habitat that may be on the project site in August of 2015. A review for threatened and endangered species in the area

where the proposed treatment plant will be built has determined that there are no species that would be impacted by the proposed discharge. Please contact the Endangered & Nongame Species Program, Central office at (609) 259-6962 or visit their website at www.nj.gov/dep/fgw/ensphome.htm for further information or for details of their analysis.

No change has been made to the final permit in response to this comment.

4. **COMMENT:** Some comments were made in favor of a new sewage treatment plant. Commentors note that currently, inefficient septic and cesspools overflow regularly and have contributed to the current crisis state of the waterway. They feel that over time, the new sewer system will restore the health of Crosswicks Creek as well as revitalize downtown businesses and residential areas. (Commentors #10, #23)

RESPONSE: The Department acknowledges these supportive comments regarding the new treatment plant and hereby incorporates this information into the Administrative Record.

No change has been made to the final permit in response to this comment.

5. **COMMENT:** Many commenters are concerned about the addition of 300,000 to 600,000 gallons per day of treated effluent to Crosswicks Creek. The increase in volume of water in an already constrained streambed will enhance erosion, depositing sediment where water movement already slows, which could alter topography in the area and favor further intrusion of invasive reed grass, reducing habitat diversity and quality. There is concern that additional sediment could alter Delaware River barge navigation. Some commenters feel that Plumsted Township should be held responsible for mitigating erosion and implementing any needed stabilization in advance, as well as ensuring this volume doesn't affect water quality and serves to preserve our unique local environment. (Commentors #3, #4, #7, #9, #11)

RESPONSE: The NJPDES permitting process establishes conditions for the discharge from the sewage treatment plant, including effluent limitations, and soil erosion is not regulated through the NJDPES process.

The soil erosion and related concerns resulting from construction of the sewage treatment plant would more appropriately be addressed through the Land Use application and permitting process. Through its permitting process, the Division of Land Use Regulation must evaluate impacts to streams, flood hazard areas, riparian zones, and freshwater wetlands and associated transition areas under N.J.A.C. 7:13 and N.J.A.C. 7:7A. If said impacts are not allowable under those applicable rules, then the Division of Land Use Regulation will not be in a position to authorize construction in these regulated areas. In addition to the above, the construction would likely need approval from the local Soil Conservation District.

Please contact the NJDEP's Division of Land Use Regulation at (609) 984-3444 for more information about the Land Use application and permitting process. The Ocean County Soil Conservation District can also be contacted at (609)-971-7002 for more information about the necessary approvals.

No change has been made to the final permit in response to this comment.

6. **COMMENT:** Many commenters agree that the creek needs to be cleaned up, but do not agree with the Township's plan to build a new treatment plant to do so. They ask for all aspects of the impacted downstream areas to be taken into account. There is great concern about adding more nutrients and pollution in the form of heavy metals (such as copper, lead, nickel and zinc), which will degrade water quality. They feel that Plumsted has not adequately considered, and does not reference a plan for evaluating how these new pollutant loads and unregulated compounds might impact this important natural resource. There is also no detail about the impact the discharge will have on the surrounding area and on the Delaware River and Abbott Marshlands, recognized by the Department as a Natural History Priority Site. (Commentors #2, #3, #7, #8, #9, #13, #15, #20, #21, #24)

RESPONSE: The New Jersey Pollutant Discharge Elimination System (NJPDES) Discharge to Surface Water Permit limitations and conditions have been established to ensure that the discharge from this proposed sewage treatment plant will not cause any exceedences of the surface water quality standards (SWQS) per N.J.A.C. 7:9B, and is protective of all designated uses of the waterbody. As stated in the January 13, 2014 letter from the Department, the “Anti-degradation Study for the Plumsted Township Wastewater Treatment Plant with Discharge to the Crosswicks Creek” Final Report, conducted by Hydroqual Inc., dated October 2013, was approved by the Department, as were the “Socio-economic Analysis for the Plumsted Township Wastewater Treatment Plant (NJPDES Discharge Permit NJ0226271) prepared by Van Cleef Engineering and HDR Hydroqual, dated May 30, 2014, and the “Addendum to the Socio-economic Analysis for the Plumsted Township Wastewater Treatment Plant”, prepared by Van Cleef Engineering and HDR Hydroqual, dated September 17, 2014. These reports were utilized in the development of the effluent limitations. The water quality model submitted by the applicant was determined to be adequate for the projection of water quality downstream from the discharge in the Crosswicks Creek from the proposed treatment facility.

Relative to the concerns regarding the addition of more nutrients, limitations for nitrate were included which are more stringent than criteria, and a limitation equal to the surface water criteria was included for phosphorus. Relative to the concerns regarding the addition of pollution in the form of heavy metals, the Department included Water Quality Based Effluent Limitations (WQBELs) for copper, nickel, lead and zinc that are protective of water quality in the stream based on this review.

The Department believes that the impacts the discharge may have on the surrounding areas and on the Delaware River and Abbott Marshlands, Natural History Priority Site have been adequately addressed through cooperated efforts through issuance of the DRBC Docket D-2015-002 CP-1, approved June 10, 2015, the amendment to the Ocean County WQMP issued December 30, 2015 and the effluent limitations contained in the permit.

No change has been made to the final permit in response to this comment.

7. **COMMENT:** Several commenters are concerned that Crosswicks Creek is listed as impaired on the 2012 303(d) list for several parameters and make note that the proposed draft permit does not include WQBELs or loading caps for those parameters. (Commentors #2, #4, #11)

RESPONSE: The segment of Crosswicks Creek at the site of the proposed new discharge is listed as impaired for mercury and phosphorus on New Jersey’s 2010 Integrated Water Quality Monitoring and Assessment Report (including the 305(b) Report and the 303(d) List). In the New Jersey’s 2012 Integrated Water Quality Monitoring and Assessment Report (including the 305(b) Report and the 303(d) List), mercury was removed while phosphorus was maintained and arsenic was added.

As discussed on page 2 of 18 of the Fact Sheet of the draft permit, for phosphorus, the monthly average and daily maximum limitations were set at 0.23 kilograms per day and 0.34 kilograms per day, respectively which represents the most stringent application of the criteria.

Although not specifically discussed in the section of the Fact Sheet of the draft permit where impairments are listed, there is a semi-annual monitoring requirement for arsenic included in the permit. No effluent limitation was included at the time the draft permit was issued because the Department does not expect arsenic to be discharged based on effluent data from other similar facilities. If at the time of the next renewal arsenic remains on the 303(d) list, and it is being discharged in the effluent at levels that impact the water quality criteria, the Department will make a decision based on the rules, regulations and policies in effect at the time of the next renewal, as to what regulatory control for arsenic is required.

No change has been made to the final permit in response to this comment.

8. **COMMENT:** There is concern that the treatment plant will not operate flawlessly and what the impact to the Creek, as well as areas downstream, will be when there is a failure at the plant. Although the limitations are stringent, there is no assurance that they can be achieved on a regular basis. On top of the anticipated lowering of water quality, the proposed treatment plant may also incur repeated fines for violating limitations – the cost of which would be passed on to the town’s low-income residents. (Commentors #2, #3, #4, #22)

RESPONSE: The permittee is required to design an appropriately sized treatment plant, in accordance with the Treatment Works Approval (TWA) regulations at N.J.A.C. 7:14A-23. The plans submitted for the TWA approval to the Department must be signed by a licensed P.E., and must contain a certification that the treatment plant is appropriately designed, will be operated properly, and that the plant, as designed, is capable of meeting all NJDPES permit conditions.

No change has been made to the final permit in response to this comment.

9. **COMMENT:** Some commentors inquired about the levels of contaminants that would be acceptable and the permittee’s margin of error when meeting those requirements. They are also concerned that outside factors, such as heavy rain events and/or floods, will affect the permittee’s ability to meet the limits. They would like assurance that all regulations required by the Clean Water Act (CWA) will be met. (Commentors #3, #11)

RESPONSE: The NJPDES DSW permit assures that all provisions of the CWA are met at all times.

All municipalities must apply for and obtain approval from the Department for the design, construction and operation of domestic treatment works so that wastes are properly collected, conveyed and treated before discharge to the waters of the State, as per N.J.A.C. 7:14A-23. As per the Treatment Works Approval Rules at N.J.A.C. 7:14A-23.13(o), the hydraulic design of piping, channels, flumes and pumps shall be based on not less than 250 percent of the projected flow, and treatment units shall be designed so as to provide adequate treatment to meet all NJPDES permit effluent conditions at all times.

No change has been made to the final permit in response to this comment.

10. **COMMENT:** Several commentors note that the permit is flawed and must be withdrawn on the basis that the draft permit includes an effluent limit for total dissolved solids (TDS) of 1,000 mg/L and the Department may not issue a NJPDES permit with an effluent limit that would violate the SWQS of 500 mg/L. (Commentors #2, #4)

RESPONSE: The 500 mg/L SWQS for TDS is not an effluent standard, rather it is an instream standard that must be met at the edge of the mixing zone where dilution is allowed in accordance with N.J.A.C. 7:9B-1.5(h). Regulatory mixing zones provide for the initial dispersion of the effluent in the receiving water at the discharge point. Water quality criteria may be exceeded within the regulatory mixing zone pursuant to N.J.A.C. 7:9B-1.5(h)1.ii. but the mixing zone may be no larger than the portion of the receiving water where complete mixing occurs. The Department calculated WQBELs for TDS based on the surface water quality criteria of 500 mg/L at the 0.3 MGD flow and the 0.6 MGD flow. The resulting WQBELs were 4856.8 mg/L for the flow of 0.3 MGD and 2678.4 mg/L for the flow of 0.6 MGD. Based on this evaluation of allowable degradation, it was determined there was no socio-economic justification for lowering water quality to that level, and therefore the permit limit was maintained at 1,000 mg/L.

The 1,000 mg/l effluent limit for TDS imposed in the draft permit is based on the DRBC Water Quality Regulations, Section 3.10.4.D.2, the “Anti-degradation Study for the Plumsted Township Wastewater Treatment Plant with Discharge to the Crosswicks Creek” Final Report, conducted by Hydroqual Inc., dated October 2013, the document entitled “Socio-economic Analysis for the Plumsted Township Wastewater Treatment Plant (NJPDES Discharge Permit NJ0226271) prepared by Van Cleef Engineering and HDR Hydroqual, dated May 30, 2014, and the “Addendum to the Socio-economic Analysis for the Plumsted Township Wastewater Treatment Plant”, prepared by Van Cleef Engineering and HDR Hydroqual, dated September 17, 2014. This limitation is

considered by the DRBC to be the level which is compatible with the designated water uses and stream quality objectives. Additionally, DRBC concurred with all conditions and limitations in the draft permit in Docket D-2015-002 CP-1, approved June 10, 2015. The limitation of 1,000 mg/L ensures that the SWQS of 500 mg/L will be met in the receiving water at the edge of the mixing zone.

No change has been made to the final permit in response to this comment.

11. **COMMENT:** One commentator inquired as to whether anyone addressed the question of the odor that might emanate from this process. The commentator has reservations about this and would hope that the Department could come up with some form of alternative that will help solve this problem. (Commentor #18)

RESPONSE: The Plumsted plant will be a brand new relatively small facility with no sludge processing and as such, odor is not expected to be a discernable problem. In addition, Part IV, Section E.1.c. of the draft permit contains a condition requiring that the discharge not produce an objectionable odor. In the event that there is an incident, complaints may be reported to 1-877-WARNDEP.

No change has been made to the final permit in response to this comment.

12. **COMMENT:** There is great opposition to any Department policy decision that allows for degradation in water quality in exchange for economic development, particularly in an area designated as “Agricultural Development Area” with a “Pinelands Management Program” and an active “Farmland Preservation Program”. There is concern over the traffic congestion and the possibility of additional future development that will come with the proposed plant. After decades of water quality planning and work by the state to protect and clean the rivers, rather than work with residents to properly maintain their septic systems, Plumsted will be forcing residents into having sewers that they do not need but would be financing. (Commentors #3, #4, #15, #17, #20)

RESPONSE: The socio-economic provisions that allow for degradation in water quality in exchange for necessary and justifiable economic development are not Department policy but are included in the New Jersey SWQS at N.J.A.C. 7:9B-1.9(a) and the Federal Regulations at 40 C.F.R. 131.12. These Federal Regulations have been in effect since November 8, 1983. The regulations were adopted after consideration of appropriate public input.

While this project is proposed to be located outside of the Pinelands, the Department understands the concern to protect and preserve the Pinelands, Agricultural Development Area and Farmland Preservation Program. The limitations and conditions contained within this permit ensure that all designated uses and all SWQS will be met at all times.

While the Department understands the concerns over traffic congestion and future development, these issues are outside of the scope of the NJPDES permit and these comments are more appropriately handled within the local planning process.

Ocean County’s Department of Planning has worked diligently with the Department and its respective municipalities on long term regional planning for wastewater management. The request for a new treatment plant to serve the New Egypt area of Plumsted Township originated from interest at the local government level. The Department’s Office of Land Use Planning and WQMP worked with the County to ensure this planned treatment facility was recognized and incorporated into the Wastewater Management Plan that was adopted by the Department on December 30, 2015. Additionally, the Wastewater Management Plan is a tool that recognizes the local planning objectives outlined in the zoning and Master Plan of a municipality. It is in this spirit that the Sewer Service Area delineation boundaries are determined.

No change has been made to the final permit in response to this comment.

13. **COMMENT:** There is some concern over the fees that the residents would be burdened with due to an expected mandatory connection requirement, and what amount the commercial businesses would be required to pay for the new system. There is also little faith that the community this proposed treatment plant is being built to handle will actually serve its purpose for the over 55 population. (Commentors #2, #12)

RESPONSE: The issue regarding the establishment of sewer connection fees is not regulated by the Department or through this permit, however, the establishment of fees is overseen by the Board of Public Utilities. This comment pertains to issues handled by the local government and is not relevant to the requirements of this NJPDES DSW permit. Please see the Board of Public Utilities website at www.bpu.state.nj.us.

No change has been made to the final permit in response to this comment.

14. **COMMENT:** There is concern that areas of low income residents are historically subject to greater exposure to environmental pollutants and the resulting health problems. Existing regulations are in place to protect all residents from local elected “representatives” who would sell out their constituents’ interest in a healthy environment for shorter-term economic gain. (Commentor #22)

RESPONSE: Over the past three decades, the federal government (Federal Executive Order 12898–1994), and the State of New Jersey (State Executive Order 131-2009), directed agencies to achieve “environmental justice” in decision-making. Environmental Justice is the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies. Environmental justice issues are important to the Department, as evidenced by the Department’s establishment and commitment to the Office of Environmental Justice, as well as the Department-wide goal for “Enhanced Protection and Restoration of Environmentally Overburdened Communities.”

Accordingly, the Department is also committed to addressing any violations of environmental laws that may exist within any jurisdiction throughout the State of New Jersey. Notably, all permit approvals are strictly enforced by the Department’s Compliance and Enforcement Program. To this end, no evidence exists to suggest that this project subjects any areas of low income residents to unacceptable exposure to environmental pollutants or associated health impacts.

Furthermore, as explained in the fact sheet of the draft NJPDES permit, effluent limitations have been established for the discharge from this facility to ensure that the SWQS at N.J.A.C. 7:9B-1 et seq. will be met at all times, including times of low stream flow. Additionally, while some degradation of the Crosswicks Creek may result from the discharge from this facility, this degradation is allowable under N.J.A.C. 7:9B-1.5(d) and will not cause any exceedance of the SWQS. A detailed explanation is included on pages 4 through 10 of 18 in the fact sheet.

No change has been made to the final permit in response to this comment.

15. **COMMENT:** Several commenters are concerned that the socio-economic analysis and anti-degradation analysis are flawed and that the analyses appear to use “cherry picked” data. The Department has in turn improperly relied on these flawed analyses to approve a lowering of in-stream water quality, rejection of the reverse osmosis advanced treatment technology, and to allow less stringent effluent limitations. The commenters also requested that an Environmental Impact Study be conducted.

Flaws include:

- a) failure to meet the minimum requirements of EPA regulations and anti degradation guidance.
- b) the applicant asserts that the proposed treatment technology may not reliably comply with the DEP's proposed effluent standards for certain parameters. The applicant then explicitly claims that the anti degradation and socio-

economic impact analyses justify rejection of use of the advanced treatment reverse osmosis and reduction of the stringency of the proposed effluent limits. This is an impermissible use of and reliance on an anti degradation review.

c) the applicant improperly establishes the township "median" income based on a lower income segment of the population. The applicant must use the township wide median income, not solely a low income segment.

d) even with basing the analysis on a low income biased segment, the applicant's analysis shows user costs for reverse osmosis treatment that are within the EPA's 2% median income affordability criterion that the applicant has selected.

e) the applicant has failed to include numerous critical variables in the analysis, including capital costs, distribution system costs, connection fees, and enforcement/compliance costs and risks. The latter is a major failure, because the applicant notes that the treatment technology is not expected to reliably attain the Department's proposed effluent limits. Under the NJ Clean Water Enforcement Act mandatory penalty scheme, the faulty analysis is likely to generate significant enforcement fines. (Commentors #2, #4, #9, #20, #12, #21, #22)

RESPONSE: The Department does not agree that the anti-degradation and socio-economic analyses are flawed nor that the analyses used cherry picked data. The Department also disagrees that it relied on any flawed analyses to approve a lowering of in-stream water quality, rejection of Reverse Osmosis technology and to allow less stringent effluent limitations. The Department has no authority to require an Environmental Impact Statement be conducted as part of the NJPDES permitting and WQMP processes. Detailed responses follow.

a) The Department disagrees with this comment. This NJPDES permit includes the more stringent of the minimum federal and state regulatory requirements applicable to a NJPDES discharge to surface water permit including, but not limited to, Standard Permit Conditions and Minimum Effluent Limitations at least as stringent as Secondary Treatment. Further, this permit includes many effluent limitations that are more stringent than these minimum requirements. The Department has also followed the requirements of the anti-degradation policy regulations at N.J.A.C. 7:9B-1.5(d) in the establishment of the effluent limitations for this facility. Please refer to Response to Comment #6 above for details regarding the establishment of the WQBELs. While degradation is allowed for some pollutants based on the socio-economic analysis as explained on page 3 of 18 of the Fact Sheet, the effluent limitations included in this permit action will not result in any SWQS exceedances in the Crosswicks Creek due to this discharge.

b) The Department disagrees with the comment that the applicant's treatment technology may not reliably comply with the proposed effluent standards. The Department disagrees that there was "an impermissible use of and reliance on an anti-degradation review." The applicant presented information in their anti-degradation and socio-economic analyses, dated October 2013 and May 30, 2014, respectively, that the Department believes justifies establishment of effluent limitations that would result in some degradation of the water quality in the Crosswicks Creek. However, this degradation will not cause exceedances of the SWQS, as stated in a) above. Further information regarding the establishment of the WQBELs can also be found in the Fact Sheet on Pages 4 through 10 of 18, also as noted above.

In addition, the permittee is required to apply for and obtain a Treatment Works Approval in accordance with N.J.A.C. 7:14A-22 and 23 for the construction of the sewage treatment plant which would have to include a certification from a Professional Engineer hired by the permittee that the proposed treatment technology will meet all permit limits. Therefore, the Department does not believe that a sewage treatment plant will be constructed that would not be able to achieve compliance with the effluent limitations.

c) The Department disagrees that the socio-economic evaluation and anti-degradation analysis is flawed. The anti-degradation analysis was done in accordance with an approved workplan and collected appropriate information as was detailed in that workplan. For the socio-economic analysis, the Department does not believe

that using the lower income level segment of the population was an invalid procedure as this segment of the population is the primary population to be served by Phase 1 and Phase 2 of this project. Please refer to Section 5 of the “socio-economic analysis” dated May 30, 2014 for further discussion.

d) The Department disagrees with the statement that “user costs for reverse osmosis treatment...are within the EPA’s 2% median income affordability criterion”. The user costs associated with using reverse osmosis treatment at this facility were quoted at an artificially low level based on a plan to under-size the Reverse Osmosis units to treat only 50% of the wastewater flow through the treatment plant. However, the Department advised the applicant subsequently that the NJPDES Treatment Works Approval regulations at N.J.A.C. 7:14A-23.13(m) state that “plant designs that propose the use of bypass lines that would circumvent treatment units and allow untreated or partially treated wastewater to be discharged will not be approved by the Department.” Therefore, the applicant submitted updated user costs in a September 9, 2014 Addendum which projected user costs of \$1,006. Although this above average cost would equate to 1.6% which is still below the 2% guideline, the Department did not require the non-degradation effluent limitations for TDS which would have necessitated the use of the Reverse Osmosis process due to the concerns with other environmental impacts related to the transportation and disposal of the Reverse Osmosis reject water.

e) The Department disagrees that the applicant failed to include the critical variables of capital costs, distribution system costs, connection fees, and enforcement/compliance costs and risks in their socio-economic analysis. These were included in that document as Attachment 1- Operating and Construction Cost Estimates. Connection fees (not distribution fees) are not appropriate to include in annual cost estimates since they are collected one time per house/business, not on an annual basis and cannot be scheduled for budgetary purposes. Also, enforcement fees/fines are not appropriate to include in a budget as these costs should not occur if the sewage treatment plant is constructed, operated and maintained as certified to meet the NJPDES permit effluent limitations. The Department also disagrees that “the applicant notes that technology is not expected to reliably attain DEP’s proposed effluent limits”. The applicant did note in the socio-economic analysis dated May 30, 2014, that a Total Dissolved Solids level of 163 mg/L would not be able to be reliably achieved with the proposed treatment process. However, this statement is no longer applicable as this was not the TDS effluent limit included in this final NJDPES permit.

No change has been made to the final permit in response to this comment.

16. **COMMENT:** There is some concern that agreements were made in meetings behind closed doors, and letters (in particular, a September 9, 2014 letter) were not disclosed in the administrative record of the draft permit. This alleged behavior compromises the integrity of the review process. In minutes from a September 16, 2014 meeting, Plumsted reveals a pattern of unethical and improper political intervention in the NJPDES permit process by legislators (Senator Thomson and Assemblyman Dancer) and accommodation of those inappropriate interventions by DEP Commissioner Martin and Ms. Randazzo of DEP’s Office of Government Affairs. Commentors also feel that there may be some political pressure being put on the Department to deviate from long standing policies and administrative regulations for the benefit of Plumsted and surrounding areas. There is urging from these commentors for the Department to base its decisions on regulations, science and facts, not politics and economics. (Commentors #2, #4, #20, #22)

RESPONSE:

The above allegations are incorrect and without basis. The September 9, 2014 letter that is referenced in the comment is, in fact, listed in the administrative record of the permit. It is listed as item number 8 under “Guidance Documents/Reports” on page 18 of 18 of the Fact Sheet of the draft permit as the “Addendum to the Socio-economic Analysis”, although the date was incorrectly listed May 30, 2014.

The draft permit was issued in accordance with all applicable regulations at N.J.A.C. 7:14A-15. In addition, all requirements for the public notice of permit actions and public comment period at N.J.A.C. 7:14A-15.10 were

met. N.J.A.C. 7:14A-15.10(a) requires the Department to publish a public notice for issuance of a draft permit, scheduling of a public hearing and extension of the public comment period. The public notice for the draft permit and scheduling of a public hearing were noticed in the November 5, 2014 *DEP Bulletin* and the November 5, 2014 *Asbury Park Press*. The Department held a public hearing in accordance with N.J.A.C. 7:14A-15.12 on December 17, 2014. The public comment period was set to end at the end of that hearing, but the Department extended the public comment period until December 31, 2014. At that time, in response to comments received at the hearing requesting additional time to review the permit and provide comments, the Department agreed to extend the public comment period, and did so in accordance with N.J.A.C. 7:14A-15.14. The public notice of the reopening of the public comment period was noticed in the January 7, 2015 *DEP Bulletin* and the January 3, 2015 *Asbury Park Press*. Therefore, the public comment period for this draft permit ended on February 8, 2015.

Further, the socio-economic analysis and all limits proposed in the draft permit were included in accordance with applicable regulations within the Department's statutory and regulatory authority. All decisions resulting from discussions in meetings that occurred prior to the issuance of the draft permit were addressed in the draft permit that was then open to the public for comment via the process detailed above.

The Department is always willing to meet with concerned members of the public. Legislators are always welcome to speak to the Department on behalf of their constituents. However, the Department followed all applicable rules, regulations and policies in developing this NJPDES DSW permit. Please note that the legislators' requests only involved the timeframe for permit issuance and were not related to the contents of the permit.

No change has been made to the final permit in response to this comment.

17. **COMMENT:** Several commenters are concerned that this is the first new DSW permit that has been issued in many years, and that issuing it may set a bad precedent that could allow any rural area with small headwaters to become the target of development. Also, there is concern that the Department is ignoring its' own standards and rules, potentially allowing other sewage treatment plants to be built in the future without proper review or permitting. We believe that if the Department does not look at water quality and do a proper alternative analysis here, it will not be done anywhere. A bad precedent would be set by waiving the requirement that all effluent be treated by the most advanced tertiary treatment available, no matter the cost. We believe that this permit needs to be signed off by the Delaware River Basin Commission before it can go forward, and that, because of the impact on the Clean Water Act, the EPA must be notified. (Commentors #2, #3, #13, #20)

RESPONSE: As stated above, the Department followed all applicable rules, regulations and policies in developing this NJDPES DSW permit. Several alternatives were considered and detailed in the Socio-economic analysis that Plumsted submitted to the Department on May 30, 2014, such as a discharge to groundwater, a tie-in to Ocean County Utilities Authority and Joint Base McGuire-Fort Dix-Lakehurst as well as a "no-build" option. Ultimately, Plumsted Township and Plumsted Municipal Utilities Authority concluded that the discharge to surface water to the Crosswick's Creek was the best suited option to provide for the immediate and future need of the New Egypt Town Center for sewer.

In addition, limitations in the NJPDES permit meet or are more stringent than the effluent requirements of the Delaware River Basin Commission (DRBC). Further, the DRBC concurred with all conditions and limitations in the draft permit in Docket D-2015-002 CP-1, approved June 10, 2015. Additionally, the Department's regulations do not require that all effluent be treated by advanced tertiary treatment, rather they require compliance with all effluent limitations imposed which are developed to protect the designated uses and to meet water quality at all times. Finally, the Department is only required to submit major draft permits to the EPA for review.

No change has been made to the final permit in response to this comment.

18. **COMMENT:** There is concern from several commenters over the change in flow, both increasing and decreasing. Some worry about the increase in flow impacting the nature of the floodplain and the stream not

being able to handle all the additional flow, and some worry about the increase in water withdrawal that could deplete the aquifer. A change to the flow could have an adverse effect on recreational users as well. (Commentors #3, #4, #11, #12, #15, #20, #21, #22)

RESPONSE: Since this project does not involve withdrawal of water from the stream, there would be no decrease of water and as such no impact from this project, in this regard. Regarding any impacts on the nature of the floodplain and the stream bed are addressed in the Response to Comment #5. As previously stated, all limitations and conditions contained within this permit ensure that the discharge will not cause any violation of the SWQS and is protective of all designated uses of the waterbody, including primary and secondary contact recreation.

No change has been made to the final permit in response to this comment.

19. **COMMENT:** Many commenters request that the Department require Plumsted to consider other treatment and septic management approaches, and believe that the Department should be requiring the most state-of-the-art treatment techniques, not a project design based from the 1980s. Commentors believe that alternatives were rejected by Plumsted for non-valid reasons, such as reverse osmosis being rejected purely on cost, and discharge to groundwater options rejected because it would consume land, while other commenters felt that the alternatives were adequately addressed. (Commentors #2, #3, #4, #11, #12, #13, #14, #23)

RESPONSE: Many alternatives to a new treatment plant were considered. The NJPDES DSW permit establishes limitations to ensure designated uses will be maintained and the SWQS are met or exceeded at all times. The limitations that have been imposed are the most stringent of water quality, technology or regulatory based limits. The township chose the treatment alternative that could both meet the stringent limitations imposed and still be cost effective. Also, as explained in Response to Comment #17 above, a detailed alternatives analysis was submitted as part of the above-referenced Socio-economic Analysis.

No change has been made to the final permit in response to this comment.

20. **COMMENT:** Commentors make note that the NJPDES permit is not consistent with the Ocean County Water Quality Management Plan, and that the area may only be designated for groundwater discharge, not surface water discharge. (Commentors #2, #12)

RESPONSE: The Ocean County WMP was adopted on December 30, 2015 and includes the planned sewage treatment plant and a new sewer service area that the plant will serve. This new sewer service area was previously designated for septic systems of less than 2,000 gallons per day (gpd) but changed upon adoption of the Ocean County WMP. The inclusion of the treatment plant into the WMP thereby makes this permit action consistent with the Ocean County WQMP.

No change has been made to the final permit in response to this comment.

21. **COMMENT:** Many commentors requested that the Department extend the public comment period because they did not feel they were given adequate time to review the permit and make appropriate comments. (Commentors #2, #3, #4, #5, #11)

RESPONSE: An extension of the public comment period was granted at the start of the public hearing that was held on December 17, 2014. At that time, the public comment period was set to end on December 31, 2014. The Department then re-noticed the Draft permit in the *Asbury Park Press* on January 3, 2015, and the public comment period officially closed on February 2, 2015. The total number of days that the comment period on this permit was open was 86 days, which significantly exceeds the 30-day minimum number of days required. The Department believes that adequate time was provided for public comment.

Please also see Response to Comment #16 above for more detail.

No change has been made to the final permit in response to this comment.

22. COMMENT: The effluent limits are based upon an effluent flow of 0.6 million gallons per day (MGD) with an interim limit of 0.3 MGD. When the average daily influent flow to the facility exceeds 0.3 MGD the Plumsted Municipal Utilities Authority (MUA) will notify the Department and the final limits (0.6 MGD) will take effect. (1)

RESPONSE: As stated in Part IV, Section E.2.a.i. and ii. of the draft permit, “The permittee must submit a written request after completion of Stage 2 and Stage 3 TWAs to operate under the “2-Final” phase effluent limitations and monitoring conditions (for the flow of 0.6 MGD).” Also, “The permittee shall submit a request to activate alternate phase effluent limits 30 calendar days prior to the commencement of discharge at the higher flow.”

No change has been made to the final permit in response to this comment.

23. COMMENT: The new wastewater treatment plant (WWTP) will have a reliable SCADA system that will have remote access. The facility will be manned for a minimum of 4 hours per day. Due to the minor designation of this facility we request that the Department allow the facility to be unmanned during the weekends – or at least one day during the weekend after the initial startup period and the facility achieves compliance with the effluent limits. We also would like this request to extend to major holidays. Any problem in the facility would be alarmed to the operator for his immediate response. The sampling schedule shows daily required sampling for pH, temperature and *E. coli*. In order to have this request accepted by the Department those daily sampling requirements would have to be suspended for the weekends and major holidays. While this daily data is important, these parameters are not critical. With no industrial dischargers we anticipate a purely domestic sewage influent with not much variation. (1)

RESPONSE: It is too early for the Department to properly address this request. However, part of the treatment works process is to determine the appropriate level of licensed operator to be required for the facility in accordance with N.J.A.C. 7:10A. The question of whether the facility could be allowed to be unmanned during the weekends or on major holidays would be determined through the treatment works approval program.

Regarding the request to reduce monitoring frequency, the Permittee may re-petition the Department for a reduction in monitoring frequency after 12 months of continuous compliant operation.

No change has been made to the final permit in response to this comment.

24. COMMENT: While phosphorus (P) is noted as a water quality impairment by the Department for the reach of the Crosswicks Creek where the effluent discharge will occur – it should also be further noted that this same reach of Crosswicks Creek has complete shading from the voluminous number of large trees on both banks. Without sunlight in sufficient quantity there is a very low potential for any type of algal blooms or excessive periphyton growth. This was discussed with Department staff during the several days of in-stream sampling conducted 2 years ago. There have been no documented algal blooms in this area. The impairment has not caused any P related problems at any time in Crosswicks Creek. The MUA may choose to conduct a P study at some point in the future and is aware of the letter of intent requirement within 60 days of the effective date of the permit (EDP). (1)

RESPONSE: The Department acknowledges that the permittee may decide to pursue a phosphorus study. As stated in Part IV, Section G.4. of the draft permit, the Department will consider a modification request proposing to modify or remove the final effluent limitation for total phosphorus from the permit if the study is submitted in accordance with Sections G.4.b through G.4.d of Part IV the permit and if it can be demonstrated that the

concentrations do not render the waters unsuitable in accordance with N.J.A.C. 7:9B. Please note that the studies are required to have an approved workplan prior to commencement of sampling, and the complete study report must be submitted to the Department 6 months prior to commencement of discharge to allow the Department time to review the study and make any appropriate changes to the effluent limitations.

No change has been made to the final permit in response to this comment.

25. COMMENT: The MUA notes the Industrial Pretreatment Program (IPP) requirements but has no industrial users in the sewer service area at this time. (1)

RESPONSE: As per the state Pretreatment Program Requirements for Local Agencies at N.J.A.C. 7:14A-19.3(b)2.ii., every non-delegated Local Agency must submit an annual report listing all of the indirect users that meet the definition of significant indirect user (SIU) at N.J.A.C. 7:14A-1.2. Therefore, if the permittee does not have any SIUs, the permittee's annual reports shall include such a statement.

No change has been made to the final permit in response to this comment.

26. COMMENT:

- a) A local sewer use ordinance (SUO) will be generated within 60 days of EDP as required.
- b) An Operations and Maintenance (O&M) Manual will be generated within 90 days of the EDP. An outfall tag for labeling the outfall will be constructed for marking the outfall location.
- c) The Reclaimed Water for Beneficial Reuse (RWBR) requirements are noted. The uses will be reviewed sometime after the startup of the facility. If a decision is reached to reuse the effluent an application will be made to the Department for approval of the particular intended use.
- d) The Plumsted MUA anticipates an excellent water quality effluent and expects no foam, sheen, color or odor in the effluent discharge. (1)

RESPONSE: The Department acknowledges these comments.

No change has been made to the final permit in response to these comments.

27. COMMENT: The conditions for permit modification are noted. There are a number of non-limited parameters the MUA feels are not present in the effluent and will request a minor modification when four consecutive test results are non-detected using the specified quantification level (QL). Do the minor permit modification requirements extend to the DRBC parameters (tetrachloroethylene, trichloroethene and 1,2 dichloroethane)? (1)

RESPONSE: The Department acknowledges the permittee's comment. As stated in Part IV, Section G.1.a. of the draft permit, the permittee may request a minor modification for a reduction in monitoring frequency for a non-limited parameter when four consecutive test results of "non-detected" have occurred. However, for the parameters that the DRBC has requested, the permittee would have to petition DRBC directly for any reduction in monitoring frequency.

No change has been made to the final permit in response to 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: NJ0226271

Final: Surface Water New Permit Action

Permittee:

Plumsted Township
121 Evergreen Road
New Egypt, NJ 08533-0398

Co-Permittee:

Property Owner:

Plumsted Township
121 Evergreen Road
New Egypt, NJ 08533-0398

Location Of Activity:

Plumsted MUA WWTP
933 RT 537
AKA Monmouth Road
Plumsted Township, Ocean County

Authorization(s) Covered Under This Approval	Issuance Date	Effective Date	Expiration Date
A -Sanitary Wastewater	1/8/2016	4/1/2016	3/31/2021

**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 GENERAL REQUIREMENTS: NJPDES

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 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
 - Hotline/Two Hour & Twenty-four Hour Reporting N.J.A.C. 7:14A-6.10 & 6.8(h)
 - Written Reporting N.J.A.C. 7:14A-6.10(c) & (d)
 - Duty to Provide Information N.J.A.C. 7:14A-6.10(e) & (f) & 6.8(h)
 - Schedules of Compliance N.J.A.C. 7:14A-2.11, 6.2(a)14 & 18.1
 - Transfer N.J.A.C. 7:14A-6.4
 - 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 for Discharges to Surface 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. Surface Water Quality Standards N.J.A.C. 7:9B-1
 - ii. Water Quality Management Planning Regulations N.J.A.C. 7:15

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. 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-1.1(b) requires a licensed operator. The operator of a system shall meet the Department's requirements pursuant to N.J.A.C. 7:10A-1.1 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.

7. Operation Restrictions

- a. The operation of a waste treatment or disposal facility shall at no time create: (a) a discharge, except as authorized by the Department in the manner and location specified in Part III of this permit; (b) 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.

PART III

LIMITS AND MONITORING REQUIREMENTS

MONITORED LOCATION:

001A Surface Water Outfall

RECEIVING STREAM:

Crosswicks Creek

STREAM CLASSIFICATION:

FW2-NT(C2)

DISCHARGE CATEGORY(IES):

A - Sanitary Wastewater

Location Description

The influent monitoring location shall be before any treatment, other than degritting, and before the addition of any internal wastestreams. The effluent monitoring location shall be after the last treatment step. DSN001A is authorized to discharge treated wastewater to the Crosswicks Creek, classified as FW2-NT waters, at Latitude 40 degrees, 5 minutes, 2.987 seconds, and Longitude 74 degrees, 32 minutes, 26.728 seconds.

Contributing Waste Types

Sanitary

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Table III - A - 1: Surface Water DMR Limits and Monitoring Requirements

PHASE: 1-Initial **PHASE Start Date:** 04/01/2016 **PHASE End Date:**

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Flow, In Conduit or Thru Treatment Plant	Effluent Gross Value	REPORT Monthly Average	REPORT Daily Maximum	MGD	*****	*****	*****	*****	Continuous	Metered
	QL	***	***		***	***	***			
pH	Raw Sew/influent	*****	*****	*****	REPORT Instant Minimum	*****	REPORT Instant Maximum	SU	1/Day	Grab
	QL	***	***		***	***	***			
pH	Effluent Gross Value	*****	*****	*****	4.5 Instant Minimum	*****	7.5 Instant Maximum	SU	1/Day	Grab
	QL	***	***		***	***	***			
Solids, Total Suspended	Raw Sew/influent	*****	*****	*****	*****	REPORT Monthly Average	REPORT Weekly Average	MG/L	3/Month	6 Hour Composite
	QL	***	***		***	***	***			

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Table III - A - 1: Surface Water DMR Limits and Monitoring Requirements

PHASE: 1-Initial PHASE Start Date: 04/01/2016 PHASE End Date:

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Solids, Total Suspended	Effluent Gross Value	6.8 Monthly Average	10.2 Weekly Average	KG/DAY	*****	6.01 Monthly Average	9.02 Weekly Average	MG/L	3/Month	6 Hour Composite
	January thru December	QL	***		***	***	***			
Solids, Total Suspended	Percent Removal	*****	*****	*****	85 Monthly Av Minimum	*****	*****	PERCENT	3/Month	Calculated
	January thru December	QL	***		***	***	***			
Oil and Grease	Effluent Gross Value	*****	*****	*****	*****	10 Monthly Average	15 Instant Maximum	MG/L	1/Quarter	Grab
	January thru December	QL	***		***	***	***			
Nitrogen, Ammonia Total (as N)	Effluent Gross Value	1.14 Monthly Average	1.7 Daily Maximum	KG/DAY	*****	1.0 Monthly Average	1.5 Weekly Average	MG/L	3/Month	6 Hour Composite
	January thru December	QL	***		***	***	***			
Nitrogen, Nitrate Total (as N)	Effluent Gross Value	5.7 Monthly Average	8.5 Daily Maximum	KG/DAY	*****	5 Monthly Average	7.5 Daily Maximum	MG/L	3/Month	6 Hour Composite
	January thru December	QL	***		***	***	***			
E. Coli	Effluent Gross Value	*****	*****	*****	*****	126 Monthly Geo Avg	REPORT Instant Maximum	#/100ML	1/Day	Grab
	January thru December	QL	***		***	***	***			
Solids, Total Dissolved (TDS)	Effluent Gross Value	1136 Monthly Average	1703 Weekly Average	KG/DAY	*****	1000 Monthly Average	1500 Weekly Average	MG/L	3/Month	6 Hour Composite
	January thru December	QL	***		***	***	***			

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Table III - A - 1: Surface Water DMR Limits and Monitoring Requirements

PHASE:1-Initial PHASE Start Date: 04/01/2016 PHASE End Date:

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
BOD, Carbonaceous 5 Day, 20oC January thru December	Raw Sew/influent	*****	*****	*****	*****	REPORT Monthly Average	REPORT Weekly Average	MG/L	3/Month	6 Hour Composite
	QL	***	***		***	***	***			
BOD, Carbonaceous 5 Day, 20oC January thru December	Effluent Gross Value	1.1 Monthly Average	1.7 Weekly Average	KG/DAY	*****	1.0 Monthly Average	1.5 Weekly Average	MG/L	3/Month	6 Hour Composite
	QL	***	***		***	***	***			
BOD, Carbonaceous 5 Day, 20oC January thru December	Percent Removal	*****	*****	*****	85 Monthly Av Minimum	*****	*****	PERCENT	3/Month	Calculated
	QL	***	***		***	***	***			
LC50 Stat 48hr Acu Ceriodaphnia January thru December	Effluent Gross Value	*****	*****	*****	44 Report Per Minimum	*****	*****	%EFFL	1/Quarter	6 Hour Composite
	QL	***	***		***	***	***			
LC50 Stat 96hr Acu Pimephales January thru December	Effluent Gross Value	*****	*****	*****	44 Report Per Minimum	*****	*****	%EFFL	1/Quarter	6 Hour Composite
	QL	***	***		***	***	***			
Temperature, oC January thru December	Raw Sew/influent	*****	*****	*****	REPORT Instant Minimum	REPORT Monthly Average	REPORT Instant Maximum	DEG.C	1/Day	Grab
	QL	***	***		***	***	***			
Temperature, oC January thru December	Effluent Gross Value	*****	*****	*****	REPORT Instant Minimum	REPORT Monthly Average	REPORT Instant Maximum	DEG.C	1/Day	Grab
	QL	***	***		***	***	***			

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Table III - A - 1: Surface Water DMR Limits and Monitoring Requirements

PHASE: 1-Initial **PHASE Start Date:** 04/01/2016 **PHASE End Date:**

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Oxygen, Dissolved (DO)	Effluent Gross Value	*****	*****	*****	*****	8.0 Weekly Av Minimum	*****	MG/L	3/Month	Grab
	QL	***	***		***	***	***			
Phosphorus, Total (as P)	Effluent Gross Value	0.11 Monthly Average	0.17 Weekly Average	KG/DAY	*****	0.1 Monthly Average	0.15 Weekly Average	MG/L	3/Month	6 Hour Composite
	QL	***	***		***	***	***			
Nickel, Total Recoverable	Effluent Gross Value	28.4 Monthly Average	46.4 Daily Maximum	GR/DAY	*****	25 Monthly Average	40.9 Daily Maximum	UG/L	1/Month	6 Hour Composite
	QL	11.4	11.4		***	10	10			
Zinc, Total Recoverable	Effluent Gross Value	39.7 Monthly Average	65.1 Daily Maximum	GR/DAY	*****	35 Monthly Average	57.3 Daily Maximum	UG/L	1/Month	6 Hour Composite
	QL	11.3	11.3		***	10	10			
Lead, Total Recoverable	Effluent Gross Value	22.7 Monthly Average	37.1 Daily Maximum	GR/DAY	*****	20 Monthly Average	32.7 Daily Maximum	UG/L	1/Month	6 Hour Composite
	QL	1.14	1.14		***	1	1			
Copper, Total Recoverable	Effluent Gross Value	28.4 Monthly Average	46.4 Daily Maximum	GR/DAY	*****	25 Monthly Average	40.9 Daily Maximum	UG/L	1/Month	6 Hour Composite
	QL	2.3	2.3		***	2	2			
1,2-Dichloroethane	Effluent Gross Value	*****	*****	*****	*****	REPORT Monthly Average	REPORT Daily Maximum	UG/L	1/Quarter	6 Hour Composite
	QL	***	***		***	1	1			

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Table III - A - 1: Surface Water DMR Limits and Monitoring Requirements

PHASE:1-Initial PHASE Start Date: 04/01/2016 PHASE End Date:

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Tetrachloroethylene	Effluent Gross Value	*****	*****	*****	*****	REPORT Monthly Average	REPORT Daily Maximum	UG/L	1/Quarter	6 Hour Composite
	January thru December	RQL	***		***	***	1			
Trichloroethene	Effluent Gross Value	*****	*****	*****	*****	REPORT Monthly Average	REPORT Daily Maximum	UG/L	1/Quarter	6 Hour Composite
	January thru December	RQL	***		***	***	1			

Table III - A - 2: Surface Water DMR Limits and Monitoring Requirements

PHASE:2-Final PHASE Start Date: INACTIVE PHASE End Date:

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Flow, In Conduit or Thru Treatment Plant	Effluent Gross Value	REPORT Monthly Average	REPORT Daily Maximum	MGD	*****	*****	*****	*****	Continuous	Metered
	January thru December	QL	***		***	***	***			
pH	Raw Sew/influent	*****	*****	*****	REPORT Instant Minimum	*****	REPORT Instant Maximum	SU	1/Day	Grab
	January thru December	QL	***		***	***	***			
pH	Effluent Gross Value	*****	*****	*****	4.5 Instant Minimum	*****	7.5 Instant Maximum	SU	1/Day	Grab
	January thru December	QL	***		***	***	***			

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Table III - A - 2: Surface Water DMR Limits and Monitoring Requirements

PHASE:2-Final PHASE Start Date: INACTIVE PHASE End Date:

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Solids, Total Suspended	Raw Sew/influent	*****	*****	*****	*****	REPORT Monthly Average	REPORT Weekly Average	MG/L	3/Month	6 Hour Composite
	QL	***	***		***	***	***			
Solids, Total Suspended	Effluent Gross Value	13.6 Monthly Average	20.5 Weekly Average	KG/DAY	*****	6.01 Monthly Average	9.02 Weekly Average	MG/L	3/Month	6 Hour Composite
	QL	***	***		***	***	***			
Solids, Total Suspended	Percent Removal	*****	*****	*****	85 Monthly Av Minimum	*****	*****	PERCENT	3/Month	Calculated
	QL	***	***		***	***	***			
Oil and Grease	Effluent Gross Value	*****	*****	*****	*****	10 Monthly Average	15 Instant Maximum	MG/L	1/Quarter	Grab
	QL	***	***		***	***	***			
Nitrogen, Ammonia Total (as N)	Effluent Gross Value	2.3 Monthly Average	3.4 Daily Maximum	KG/DAY	*****	1.0 Monthly Average	1.5 Weekly Average	MG/L	3/Month	6 Hour Composite
	QL	***	***		***	***	***			
Nitrogen, Nitrate Total (as N)	Effluent Gross Value	11.4 Monthly Average	17.0 Daily Maximum	KG/DAY	*****	5 Monthly Average	7.5 Daily Maximum	MG/L	3/Month	6 Hour Composite
	QL	***	***		***	***	***			
E. Coli	Effluent Gross Value	*****	*****	*****	*****	126 Monthly Geo Avg	REPORT Weekly Geometric	#/100ML	1/Day	Grab
	QL	***	***		***	***	***			

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Table III - A - 2: Surface Water DMR Limits and Monitoring Requirements

PHASE:2-Final PHASE Start Date: INACTIVE PHASE End Date:

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Solids, Total Dissolved (TDS)	Effluent Gross Value	2271 Monthly Average	3407 Weekly Average	KG/DAY	*****	1000 Monthly Average	1500 Weekly Average	MG/L	3/Month	6 Hour Composite
	QL	***	***		***	***	***			
BOD, Carbonaceous 5 Day, 20oC	Raw Sew/influent	*****	*****	*****	*****	REPORT Monthly Average	REPORT Weekly Average	MG/L	3/Month	6 Hour Composite
	QL	***	***		***	***	***			
BOD, Carbonaceous 5 Day, 20oC	Effluent Gross Value	2.3 Monthly Average	3.4 Weekly Average	KG/DAY	*****	1.0 Monthly Average	1.5 Weekly Average	MG/L	3/Month	6 Hour Composite
	QL	***	***		***	***	***			
BOD, Carbonaceous 5 Day, 20oC	Percent Removal	*****	*****	*****	85 Monthly Av Minimum	*****	*****	PERCENT	3/Month	Calculated
	QL	***	***		***	***	***			
LC50 Stat 48hr Acu Ceriodaphnia	Effluent Gross Value	*****	*****	*****	82 Report Per Minimum	*****	*****	%EFFL	1/Quarter	6 Hour Composite
	QL	***	***		***	***	***			
LC50 Stat 96hr Acu Pimephales	Effluent Gross Value	*****	*****	*****	82 Report Per Minimum	*****	*****	%EFFL	1/Quarter	6 Hour Composite
	QL	***	***		***	***	***			
Temperature, oC	Raw Sew/influent	*****	*****	*****	REPORT Instant Minimum	REPORT Monthly Average	REPORT Instant Maximum	DEG.C	1/Day	Grab
	QL	***	***		***	***	***			

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Table III - A - 2: Surface Water DMR Limits and Monitoring Requirements

PHASE:2-Final PHASE Start Date: INACTIVE PHASE End Date:

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Temperature, oC	Effluent Gross Value	*****	*****	*****	REPORT Instant Minimum	REPORT Monthly Average	REPORT Instant Maximum	DEG.C	1/Day	Grab
	QL	***	***		***	***	***			
Oxygen, Dissolved (DO)	Effluent Gross Value	*****	*****	*****	*****	8.0 Weekly Av Minimum	*****	MG/L	3/Month	Grab
	QL	***	***		***	***	***			
Phosphorus, Total (as P)	Effluent Gross Value	0.23 Monthly Average	0.34 Weekly Average	KG/DAY	*****	0.1 Monthly Average	0.15 Weekly Average	MG/L	3/Month	6 Hour Composite
	QL	***	***		***	***	***			
Nickel, Total Recoverable	Effluent Gross Value	56.8 Monthly Average	92.9 Daily Maximum	GR/DAY	*****	25 Monthly Average	40.9 Daily Maximum	UG/L	1/Month	6 Hour Composite
	RQL	22.7	22.7		***	10	10			
Zinc, Total Recoverable	Effluent Gross Value	79.5 Monthly Average	130.1 Daily Maximum	GR/DAY	*****	35 Monthly Average	57.3 Daily Maximum	UG/L	1/Month	6 Hour Composite
	RQL	22.7	22.7		***	10	10			
Lead, Total Recoverable	Effluent Gross Value	36.3 Monthly Average	59.5 Daily Maximum	GR/DAY	*****	16 Monthly Average	26.2 Daily Maximum	UG/L	1/Month	6 Hour Composite
	RQL	2.27	2.27		***	1	1			
Copper, Total Recoverable	Effluent Gross Value	56.8 Monthly Average	92.9 Daily Maximum	GR/DAY	*****	25 Monthly Average	40.9 Daily Maximum	UG/L	1/Month	6 Hour Composite
	RQL	4.6	4.6		***	2	2			

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Table III - A - 2: Surface Water DMR Limits and Monitoring Requirements

PHASE:2-Final PHASE Start Date: INACTIVE PHASE End Date:

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
1,2-Dichloroethane April thru December	Effluent Gross Value	*****	*****	*****	*****	REPORT Monthly Average	REPORT Daily Maximum	UG/L	1/Quarter	6 Hour Composite
	RQL	***	***		***	1	1			
Tetrachloroethylene April thru December	Effluent Gross Value	*****	*****	*****	*****	REPORT Monthly Average	REPORT Daily Maximum	UG/L	1/Quarter	6 Hour Composite
	RQL	***	***		***	1	1			
Trichloroethene April thru December	Effluent Gross Value	*****	*****	*****	*****	REPORT Monthly Average	REPORT Daily Maximum	UG/L	1/Quarter	6 Hour Composite
	RQL	***	***		***	1	1			

Surface Water WCR - Semi Annual Reporting Requirements:

Submit a Semi-Annual WCR: within twenty-five days after the end of every 6 month monitoring period beginning from the effective date of the permit (EDP).

Table III - A - 3: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE:Final PHASE Start Date: 04/01/2016 PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Chloride (as Cl)	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December
Manganese, Total Recoverable	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December
Cyanide, Total (as CN)	Effluent Gross Value	REPORT RQL = 40	UG/L	Grab	January thru December
Arsenic, Total Recoverable (as As)	Effluent Gross Value	REPORT RQL = 8	UG/L	6 Hour Composite	January thru December
Selenium, Total Recoverable	Effluent Gross Value	REPORT RQL = 10	UG/L	6 Hour Composite	January thru December
Thallium, Total Recoverable	Effluent Gross Value	REPORT RQL = 10	UG/L	6 Hour Composite	January thru December
Beryllium, Total Recoverable (as Be)	Effluent Gross Value	REPORT RQL = 20	UG/L	6 Hour Composite	January thru December
Barium, Total Recoverable (as Ba)	Effluent Gross Value	REPORT RQL = 20	UG/L	6 Hour Composite	January thru December
Silver, Total Recoverable	Effluent Gross Value	REPORT RQL = 2	UG/L	6 Hour Composite	January thru December
Cadmium, Total Recoverable	Effluent Gross Value	REPORT RQL = 4	UG/L	6 Hour Composite	January thru December
Chromium, Total Recoverable	Effluent Gross Value	REPORT RQL = 10	UG/L	6 Hour Composite	January thru December
Antimony, Total Recoverable	Effluent Gross Value	REPORT RQL = 20	UG/L	6 Hour Composite	January thru December
Mercury Total Recoverable	Effluent Gross Value	REPORT RQL = 1	UG/L	6 Hour Composite	January thru December
Acenaphthylene	Effluent Gross Value	REPORT RQL = 10	UG/L	6 Hour Composite	January thru December
Acenaphthene	Effluent Gross Value	REPORT RQL = 9.5	UG/L	6 Hour Composite	January thru December

Surface Water WCR - Semi Annual Reporting Requirements:

Submit a Semi-Annual WCR: within twenty-five days after the end of every 6 month monitoring period beginning from the effective date of the permit (EDP).

Table III - A - 3: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE:Final

PHASE Start Date: 04/01/2016

PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Anthracene	Effluent Gross Value	REPORT RQL = 10	UG/L	6 Hour Composite	January thru December
Benzo(b)fluoranthene (3,4-benzo)	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December
Benzo(k)fluoranthene	Effluent Gross Value	REPORT RQL = 20	UG/L	6 Hour Composite	January thru December
Benzo(a)pyrene	Effluent Gross Value	REPORT RQL = 20	UG/L	6 Hour Composite	January thru December
Bis(2-chloroethyl) ether	Effluent Gross Value	REPORT RQL = 10	UG/L	6 Hour Composite	January thru December
Bis(2-chloroethoxy) methane	Effluent Gross Value	REPORT RQL = 26.5	UG/L	6 Hour Composite	January thru December
Bis (2-chloroiso- propyl) ether	Effluent Gross Value	REPORT RQL = 10	UG/L	6 Hour Composite	January thru December
Butyl benzyl phthalate	Effluent Gross Value	REPORT RQL = 20	UG/L	6 Hour Composite	January thru December
Chrysene	Effluent Gross Value	REPORT RQL = 20	UG/L	6 Hour Composite	January thru December
Diethyl phthalate	Effluent Gross Value	REPORT RQL = 10	UG/L	6 Hour Composite	January thru December
Dimethyl phthalate	Effluent Gross Value	REPORT RQL = 10	UG/L	6 Hour Composite	January thru December
1,2-Diphenyl- hydrazine	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December
Fluoranthene	Effluent Gross Value	REPORT RQL = 10	UG/L	6 Hour Composite	January thru December
Fluorene	Effluent Gross Value	REPORT RQL = 10	UG/L	6 Hour Composite	January thru December
Hexachlorocyclo- pentadiene	Effluent Gross Value	REPORT RQL = 10	UG/L	6 Hour Composite	January thru December

Surface Water WCR - Semi Annual Reporting Requirements:

Submit a Semi-Annual WCR: within twenty-five days after the end of every 6 month monitoring period beginning from the effective date of the permit (EDP).

Table III - A - 3: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE:Final PHASE Start Date: 04/01/2016 PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Hexachloroethane	Effluent Gross Value	REPORT RQL = 10	UG/L	6 Hour Composite	January thru December
Indeno(1,2,3-cd)-pyrene	Effluent Gross Value	REPORT RQL = 20	UG/L	6 Hour Composite	January thru December
Isophorone	Effluent Gross Value	REPORT RQL = 10	UG/L	6 Hour Composite	January thru December
N-nitrosodi-n-propylamine	Effluent Gross Value	REPORT RQL = 20	UG/L	6 Hour Composite	January thru December
N-nitrosodiphenyl-amine	Effluent Gross Value	REPORT RQL = 20	UG/L	6 Hour Composite	January thru December
N-nitrosodimethyl-amine	Effluent Gross Value	REPORT RQL = 20	UG/L	6 Hour Composite	January thru December
Nitrobenzene	Effluent Gross Value	REPORT RQL = 10	UG/L	6 Hour Composite	January thru December
Phenanthrene	Effluent Gross Value	REPORT RQL = 10	UG/L	6 Hour Composite	January thru December
Pyrene	Effluent Gross Value	REPORT RQL = 20	UG/L	6 Hour Composite	January thru December
Benzo(ghi)perylene	Effluent Gross Value	REPORT RQL = 20	UG/L	6 Hour Composite	January thru December
Benzo(a)anthracene	Effluent Gross Value	REPORT RQL = 10	UG/L	6 Hour Composite	January thru December
1,2-Dichlorobenzene	Effluent Gross Value	REPORT RQL = 9	UG/L	Grab	January thru December
1,2,4-Trichloro-benzene	Effluent Gross Value	REPORT RQL = 10	UG/L	6 Hour Composite	January thru December
Dibenzo(a,h)anthracene	Effluent Gross Value	REPORT RQL = 20	UG/L	6 Hour Composite	January thru December
1,3-Dichlorobenzene	Effluent Gross Value	REPORT RQL = 9	UG/L	Grab	January thru December

Surface Water WCR - Semi Annual Reporting Requirements:

Submit a Semi-Annual WCR: within twenty-five days after the end of every 6 month monitoring period beginning from the effective date of the permit (EDP).

Table III - A - 3: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE:Final PHASE Start Date: 04/01/2016 PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
1,4-Dichlorobenzene	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
2-Chloronaphthalene	Effluent Gross Value	REPORT RQL = 9.5	UG/L	6 Hour Composite	January thru December
Di-n-octyl Phthalate	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December
2,4-Dinitrotoluene	Effluent Gross Value	REPORT RQL = 10	UG/L	6 Hour Composite	January thru December
2,6-Dinitrotoluene	Effluent Gross Value	REPORT RQL = 9.5	UG/L	6 Hour Composite	January thru December
3,3'-Dichloro-benzidine	Effluent Gross Value	REPORT RQL = 60	UG/L	6 Hour Composite	January thru December
4-Bromophenyl phenyl ether	Effluent Gross Value	REPORT RQL = 9.5	UG/L	6 Hour Composite	January thru December
Naphthalene	Effluent Gross Value	REPORT RQL = 8	UG/L	6 Hour Composite	January thru December
Bis(2-ethylhexyl) phthalate	Effluent Gross Value	REPORT RQL = 30	UG/L	6 Hour Composite	January thru December
Di-n-butyl phthalate	Effluent Gross Value	REPORT RQL = 20	UG/L	6 Hour Composite	January thru December
Benzidine	Effluent Gross Value	REPORT RQL = 50	UG/L	6 Hour Composite	January thru December
Malathion	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December
Demeton	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December
Hexachlorobenzene	Effluent Gross Value	REPORT RQL = 10	UG/L	6 Hour Composite	January thru December
Hexachlorobutadiene	Effluent Gross Value	REPORT RQL = 10	UG/L	6 Hour Composite	January thru December

Surface Water WCR - Semi Annual Reporting Requirements:

Submit a Semi-Annual WCR: within twenty-five days after the end of every 6 month monitoring period beginning from the effective date of the permit (EDP).

Table III - A - 3: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE:Final PHASE Start Date: 04/01/2016 PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Mirex	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December
1,3-Dichloropropene	Effluent Gross Value	REPORT RQL = 7	UG/L	Grab	January thru December
1,2,4,5-Tetrachloro-benzene	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December
N-nitrosodiethyl-amine	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December
N-nitrosopyrrolidine	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December
Carbon Tetrachloride	Effluent Gross Value	REPORT RQL = 6	UG/L	Grab	January thru December
1,2-Dichloroethane	Effluent Gross Value	REPORT RQL = 3	UG/L	Grab	January thru December
Bromoform	Effluent Gross Value	REPORT RQL = 8	UG/L	Grab	January thru December
Chloroform	Effluent Gross Value	REPORT RQL = 5	UG/L	Grab	January thru December
Toluene	Effluent Gross Value	REPORT RQL = 6	UG/L	Grab	January thru December
Benzene	Effluent Gross Value	REPORT RQL = 7	UG/L	Grab	January thru December
Acrolein	Effluent Gross Value	REPORT RQL = 50	UG/L	Grab	January thru December
Acrylonitrile	Effluent Gross Value	REPORT RQL = 50	UG/L	Grab	January thru December
Chlorobenzene	Effluent Gross Value	REPORT RQL = 6	UG/L	Grab	January thru December
Chlorodibromomethane	Effluent Gross Value	REPORT RQL = 6	UG/L	Grab	January thru December

Surface Water WCR - Semi Annual Reporting Requirements:

Submit a Semi-Annual WCR: within twenty-five days after the end of every 6 month monitoring period beginning from the effective date of the permit (EDP).

Table III - A - 3: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE:Final PHASE Start Date: 04/01/2016 PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Ethylbenzene	Effluent Gross Value	REPORT RQL = 6	UG/L	Grab	January thru December
Methyl Bromide	Effluent Gross Value	REPORT RQL = 9	UG/L	Grab	January thru December
Methyl Chloride	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Methylene Chloride	Effluent Gross Value	REPORT RQL = 6	UG/L	Grab	January thru December
Tetrachloroethylene	Effluent Gross Value	REPORT RQL = 9	UG/L	Grab	January thru December
Trichlorofluoro- methane	Effluent Gross Value	REPORT RQL = 5	UG/L	Grab	January thru December
1,1-Dichloroethane	Effluent Gross Value	REPORT RQL = 23.5	UG/L	Grab	January thru December
1,1-Dichloroethylene	Effluent Gross Value	REPORT RQL = 6	UG/L	Grab	January thru December
1,1,1-Trichloro- ethane	Effluent Gross Value	REPORT RQL = 6	UG/L	Grab	January thru December
1,1,2-Trichloro- ethane	Effluent Gross Value	REPORT RQL = 6	UG/L	Grab	January thru December
1,1,2,2-Tetrachloro- ethane	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
1,2-Dichloropropane	Effluent Gross Value	REPORT RQL = 5	UG/L	Grab	January thru December
1,2-trans-Dichloro- ethylene	Effluent Gross Value	REPORT RQL = 4	UG/L	Grab	January thru December
2-Chloroethyl Vinyl Ether (Mixed)	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Bromodichloromethane	Effluent Gross Value	REPORT RQL = 5	UG/L	Grab	January thru December

Surface Water WCR - Semi Annual Reporting Requirements:

Submit a Semi-Annual WCR: within twenty-five days after the end of every 6 month monitoring period beginning from the effective date of the permit (EDP).

Table III - A - 3: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE:Final PHASE Start Date: 04/01/2016 PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Vinyl Chloride	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Trichloroethylene	Effluent Gross Value	REPORT RQL = 5	UG/L	Grab	January thru December
Methoxychlor	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December
N-Nitrosodi- n-butylamine	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December
Chloroethane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Asbestos (Fibrous)	Effluent Gross Value	REPORT	FIBERS/L	6 Hour Composite	January thru December
Parachloro-m- cresol	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December
Parathion	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December
Phenols	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
2,4,5-Trichloro- phenol	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December
Delta BHC, Total (ug/l)	Effluent Gross Value	REPORT RQL = 0.02	UG/L	6 Hour Composite	January thru December
Endosulfan Sulfate	Effluent Gross Value	REPORT RQL = 0.08	UG/L	6 Hour Composite	January thru December
Beta Endosulfan	Effluent Gross Value	REPORT RQL = 0.04	UG/L	6 Hour Composite	January thru December
Alpha Endosulfan	Effluent Gross Value	REPORT RQL = 0.02	UG/L	6 Hour Composite	January thru December
Endrin Aldehyde	Effluent Gross Value	REPORT RQL = 0.1	UG/L	6 Hour Composite	January thru December

Surface Water WCR - Semi Annual Reporting Requirements:

Submit a Semi-Annual WCR: within twenty-five days after the end of every 6 month monitoring period beginning from the effective date of the permit (EDP).

Table III - A - 3: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE:Final

PHASE Start Date: 04/01/2016

PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
PCB-1016 (Arochlor 1016)	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December
2,3,7,8-Tetrachloro- dibenzo-p-dioxin	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December
4,4'-DDT(p,p'-DDT)	Effluent Gross Value	REPORT RQL = 0.06	UG/L	6 Hour Composite	January thru December
4,4'-DDD(p,p'-DDD)	Effluent Gross Value	REPORT RQL = 0.04	UG/L	6 Hour Composite	January thru December
4,4'-DDE(p,p'-DDE)	Effluent Gross Value	REPORT RQL = 0.04	UG/L	6 Hour Composite	January thru December
Aldrin	Effluent Gross Value	REPORT RQL = 0.04	UG/L	6 Hour Composite	January thru December
Alpha BHC	Effluent Gross Value	REPORT RQL = 0.02	UG/L	6 Hour Composite	January thru December
Beta BHC	Effluent Gross Value	REPORT RQL = 0.04	UG/L	6 Hour Composite	January thru December
Gamma BHC (lindane),	Effluent Gross Value	REPORT RQL = 0.03	UG/L	6 Hour Composite	January thru December
Chlordane	Effluent Gross Value	REPORT RQL = 0.2	UG/L	6 Hour Composite	January thru December
Dieldrin	Effluent Gross Value	REPORT RQL = 0.03	UG/L	6 Hour Composite	January thru December
Endosulfans, Total (alpha and beta)	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December
Endrin	Effluent Gross Value	REPORT RQL = 0.04	UG/L	6 Hour Composite	January thru December
Toxaphene	Effluent Gross Value	REPORT RQL = 1	UG/L	6 Hour Composite	January thru December
Heptachlor	Effluent Gross Value	REPORT RQL = 0.02	UG/L	6 Hour Composite	January thru December

Surface Water WCR - Semi Annual Reporting Requirements:

Submit a Semi-Annual WCR: within twenty-five days after the end of every 6 month monitoring period beginning from the effective date of the permit (EDP).

Table III - A - 3: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE:Final

PHASE Start Date: 04/01/2016

PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Heptachlor Epoxide	Effluent Gross Value	REPORT RQL = 0.4	UG/L	6 Hour Composite	January thru December
PCB-1221 (Arochlor 1221)	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December
PCB-1232 (Arochlor 1232)	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December
PCB-1242 (Arochlor 1242)	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December
PCB-1248 (Arochlor 1248)	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December
PCB-1254 (Arochlor 1254)	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December
PCB-1260 (Arochlor 1260)	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December
Polychlorinated Biphenyls (PCBs)	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December
Chlorpyrifos	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December
2-Chlorophenol	Effluent Gross Value	REPORT RQL = 20	UG/L	6 Hour Composite	January thru December
2-Nitrophenol	Effluent Gross Value	REPORT RQL = 18	UG/L	6 Hour Composite	January thru December
2,4-Dichlorophenol	Effluent Gross Value	REPORT RQL = 10	UG/L	6 Hour Composite	January thru December
2,4-Dimethylphenol	Effluent Gross Value	REPORT RQL = 13.5	UG/L	6 Hour Composite	January thru December
2,4-Dinitrophenol	Effluent Gross Value	REPORT RQL = 40	UG/L	6 Hour Composite	January thru December
2,4,6-Trichloro- phenol	Effluent Gross Value	REPORT RQL = 20	UG/L	6 Hour Composite	January thru December

Surface Water WCR - Semi Annual Reporting Requirements:

Submit a Semi-Annual WCR: within twenty-five days after the end of every 6 month monitoring period beginning from the effective date of the permit (EDP).

Table III - A - 3: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE:Final PHASE Start Date: 04/01/2016 PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
4-Chlorophenyl phenyl ether	Effluent Gross Value	REPORT RQL = 21	UG/L	6 Hour Composite	January thru December
4-Nitrophenol	Effluent Gross Value	REPORT RQL = 12	UG/L	6 Hour Composite	January thru December
4,6-Dinitro-o-cresol	Effluent Gross Value	REPORT RQL = 60	UG/L	6 Hour Composite	January thru December
Phenol Single Compound	Effluent Gross Value	REPORT RQL = 10	UG/L	6 Hour Composite	January thru December
Pentachlorophenol	Effluent Gross Value	REPORT RQL = 30	UG/L	6 Hour Composite	January thru December
Pentachlorobenzene	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December
Sulfide-Hydrogen Sulfide(undissociat)	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December
Guthion	Effluent Gross Value	REPORT	UG/L	6 Hour Composite	January thru December

PART IV

SPECIFIC REQUIREMENTS: NARRATIVE

Sanitary Wastewater

A. MONITORING REQUIREMENTS

1. Standard Monitoring Requirements

- a. Each analysis required by this permit shall be performed by a New Jersey Certified Laboratory that is certified to perform that analysis.
- b. The Permittee shall perform all water/wastewater analyses in accordance with the analytical test procedures specified in 40 CFR 136, unless other test procedures have been approved by the Department in writing or as otherwise specified in the permit.
- c. The permittee shall utilize analytical methods that will ensure compliance with the Quantification Levels (QLs) listed in PART III. QLs include, but are not limited to, Recommended Quantification Levels (RQLs) and Method Detection Levels (MDLs). If the permittee and/or contract laboratory determines that the QLs achieved for any pollutant(s) generally will not be as sensitive as the QLs specified in PART III, the permittee must submit a justification of such to the Bureau of Surface Water Permitting. For limited parameters with no QL specified, the sample analysis shall use a detection level at least as sensitive as the effluent limit.
- d. All sampling shall be conducted in accordance with the Department's Field Sampling Procedures Manual, or an alternate method approved by the Department in writing.
- e. All monitoring shall be conducted as specified in Part III.
- f. All sample frequencies expressed in Part III are minimum requirements. Any additional samples taken consistent with the monitoring and reporting requirements contained herein shall be reported on the Monitoring Report Forms.
- g. Annual and semi-annual wastewater testing shall be conducted in a different quarter of each year so that tests are conducted in each of the four permit quarters of the permit cycle. Testing may be conducted during any month of the permit quarters.
- h. Monitoring for Wastewater Characterization Report parameters shall be conducted concurrently with the Whole Effluent Toxicity (WET) monitoring, when feasible.
- i. Any influent and effluent sampling for toxic pollutant analyses shall be collected concurrently.

B. RECORDKEEPING

1. Standard Recordkeeping Requirements

Sanitary Wastewater

- a. The permittee shall retain records of all monitoring information, including 1) all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation (if applicable), 2) copies of all reports required by this NJPDES permit, 3) all data used to complete the application for a NJPDES permit, and 4) monitoring information required by the permit related to the permittee's residual use and/or disposal practices, for a period of at least 5 years, or longer as required by N.J.A.C. 7:14A-20, from the date of the sample, measurement, report, application or record.
- b. Records of monitoring information shall include 1) the date, locations, and time of sampling or measurements, 2) the individual(s) who performed the sampling or measurements, 3) the date(s) the analyses were performed, 4) the individual(s) who performed the analyses, 5) the analytical techniques or methods used, and 6) the results of such analyses.

C. REPORTING

1. Standard Reporting Requirements

- a. The permittee shall submit all required monitoring results to the Department on the forms provided to them. The Monitoring Report Forms (MRFs) may be provided to the permittee in either a paper format or in an electronic file format. Unless otherwise noted, all requirements below pertain to both paper and electronic formats.
- b. Any MRFs in paper format shall be submitted to the following addresses:
 - i. NJDEP
Mail Code - 401-02B
Division of Water Quality
Office of Permit Management
P.O. Box 420
Trenton, New Jersey 08625-0420
 - ii. Delaware River Basin Commission (DRBC)
P. O. Box 7360
West Trenton, New Jersey 08628
 - iii. (if requested by the Water Compliance and Enforcement Bureau)
Mail Code - 44-03
NJDEP: Central Bureau of Water Compliance and Enforcement
4 Station Plaza - P.O. Box 420
Trenton, New Jersey 08625-0420
- c. Any electronic data submission shall be in accordance with the guidelines and provisions outlined in the Department's Electronic Data Interchange (EDI) agreement with the permittee. Paper copies must be available for on-site inspection by DEP personnel or provided to the DEP upon written request.
- d. All monitoring report forms shall be certified by the highest ranking official having day-to-day managerial and operational responsibilities for the discharging facility.
- e. The highest ranking official may delegate responsibility to certify the monitoring report forms in his or her absence. Authorizations for other individuals to sign shall be made in accordance with N.J.A.C. 7:14A-4.9(b).

- f. Monitoring results shall be submitted in accordance with the current Discharge Monitoring Report Manual and any updates thereof.
- g. If monitoring for a parameter is not required in a monitoring period, the permittee must report "CODE=N" for that parameter.
- h. If there are no discharge events during an entire monitoring period, the permittee must notify the Department when submitting the monitoring results. This is accomplished by placing a check mark in the "No Discharge this monitoring period" box on the paper or electronic version of the monitoring report submittal form.

D. SUBMITTALS

1. Standard Submittal Requirements

- a. The permittee shall prepare/update the Operation and Maintenance (O&M) Manual including an emergency plan in accordance with requirements of N.J.A.C. 7:14A-6.12(c).
- b. Submit a certification that an Operations and Maintenance (O&M) Manual has been prepared: within 90 days from the effective date of the permit (EDP).
- c. The permittee shall amend the Operation & Maintenance Manual whenever there is a change in the treatment works design, construction, operations or maintenance which substantially changes the treatment works operations and maintenance procedures.

2. Outfall Tag Requirements

- a. The permittee shall notify the Department that a tag to mark the location of the outfall pipe has been installed consistent with N.J.A.C. 7:14A-6.2(a)9.

E. FACILITY MANAGEMENT

1. Discharge Requirements

- a. The permittee shall discharge at the location(s) specified in PART III of this permit.
- b. The permittee shall not discharge foam or cause foaming of the receiving water that 1) forms objectionable deposits on the receiving water, 2) forms floating masses producing a nuisance, or 3) interferes with a designated use of the waterbody.
- c. The permittee's discharge shall not produce objectionable color or odor in the receiving stream.
- d. The discharge shall not exhibit a visible sheen.
- e. When quantification levels (QL) and effluent limits are both specified for a given parameter in Part III, and the QL is less stringent than the effluent limit, effluent compliance will be determined by comparing the reported value against the QL.
- f. When an average of three (3) consecutive rolling monthly average values of the committed flow (actual flow and approved allocated flow) reaches or exceeds 80% of 0.6 MGD (the permitted capacity of the facility), the permittee shall:
 - i. Develop a Capacity Assurance Program (CAP) in accordance with N.J.A.C. 7:14A-22.16.
 - ii. For more information concerning the CAP, please contact the Bureau of Engineering and Construction Permitting South at (609) 984-6840.

- iii. Contact the Division of Watershed Management to discuss whether an amendment to the Water Quality Management Plan (WQMP) or Wastewater Management Plan (WMP) will be necessary.

2. Applicability of Discharge Limitations and Effective Dates

- a. Surface Water Discharge Monitoring Report (DMR) Form Requirements
 - i. The effluent limitations and monitoring conditions contained in PART III for the "1-Initial" phase apply for the flow of 0.3 mgd.
The permittee must submit a written request after completion of Stage 2 and Stage 3 TWAs to operate under the "2-Final" phase effluent limitations and monitoring conditions (for the flow of 0.6 MGD).
 - ii. Permittee shall submit a request to activate alternate phase effluent limits 30 calendar days prior to the commencement of discharge at the higher flow.
- b. Wastewater Characterization Report (WCR) Form Requirements
 - i. The final effluent monitoring conditions contained in PART III for DSN001A apply for the full term of this permit action.

3. Operation, Maintenance and Emergency conditions

- a. The permittee shall operate and maintain treatment works and facilities which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit as specified in the Operation & Maintenance Manual.
- b. The permittee shall develop emergency procedures to ensure effective operation of the treatment works under emergency conditions in accordance with N.J.A.C. 7:14A-6.12(d).

4. Toxicity Testing Requirements - Acute Whole Effluent Toxicity

- a. The permittee shall conduct toxicity tests on its wastewater discharge in accordance with the provisions in this section. Such testing will determine if appropriately selected effluent concentrations adversely affect the test species.
- b. Any test that does not meet the specifications of N.J.A.C. 7:18, laboratory certification regulations, must be repeated within 30 days of the completion of the initial test. The repeat test shall not replace subsequent testing required in Part III.
- c. The permittee shall collect and analyze the concentration of ammonia-N in the effluent on the day a sample is collected for WET testing. This result is to be reported on the Biomonitoring Report Form.
- d. Acute toxicity testing shall initially consist of concurrent acute toxicity tests, with split effluent samples, using the test species and methods identified in Part III of this permit.
- e. The results for the most sensitive test species will be used to evaluate compliance with the WET limitation.
- f. Testing with two species will be considered complete when four sets of acceptable concurrent tests using split samples on the two species, have been completed and the data has been deemed sufficient to designate the more sensitive species.
- g. After completing four sets of concurrent toxicity tests on two species, the Department may modify the permit to reduce testing to the more sensitive test species.

- h. Submit an Acute Methodology Questionnaire: within 60 days from the effective date of the permit (EDP). The permittee shall resubmit after any change of laboratory occurs.
- i. Submit an acute whole effluent toxicity test report: within twenty-five days after the end of every quarterly monitoring period beginning from the effective date of the permit (EDP). The permittee shall submit toxicity test results on appropriate forms.
- j. Test reports shall be submitted to:
 - i. New Jersey Department of Environmental Protection
401-02B
Division of Water Quality
Bureau of Surface Water Permitting
401 East State Street
P.O. Box 420
Trenton, New Jersey 08625-0420

5. Toxicity Reduction Implementation Requirements (TRIR)

- a. The permittee shall initiate a tiered toxicity investigation if two out of six consecutive WET tests demonstrate that the effluent does not comply or will not comply with the toxicity limit or action level specified in Part III of this permit.
 - i. If the exceedence of the toxicity limit or action level is directly caused by a documented facility upset, or other unusual event which has been identified and appropriately remedied by the permittee, the toxicity test data collected during the event may be eliminated when determining the need for initiating a TRIR upon written Department approval.
- b. The permittee shall begin toxicity characterization within 30 days of the end of the monitoring period when the second toxicity test exceeds the toxicity limits or action levels in Part III. The monitoring frequency for toxicity testing shall be increased to semi-monthly (i.e. every two months). Up to 12 additional tests may be required.
 - i. The permittee may return to the toxicity testing frequency specified in Part III if four consecutive toxicity tests conducted during the Toxicity Characterization do not exceed the toxicity limit or action level.
 - ii. If two out of any six consecutive, acceptable tests again exceed the toxicity limit or action level in Part III, the permittee shall repeat the Toxicity Reduction Implementation Requirements.
- c. The permittee shall initiate a preliminary toxicity identification (PTI) upon the fourth exceedence of the toxicity limit or action level specified in Part III during the toxicity characterization.
 - i. The permittee may return to the monitoring frequency specified in PART III while conducting the PTI. If more frequent WET testing is performed during the PTI, the permittee shall submit all biomonitoring reports to the DEP and report the results for the most sensitive species on the DMR.

- ii. As appropriate, the PTI shall include:
 - (1) treatment plant performance evaluation,
 - (2) pretreatment program information,
 - (3) evaluation of ammonia and chlorine produced oxidants levels and their effect on the toxicity of the discharge,
 - (4) evaluation of chemical use and processes at the facility, and
 - (5) an evaluation of incidental facility procedures such as floor washing, and chemical spill disposal which may contribute to effluent toxicity.
 - iii. If the permittee demonstrates that the cause of toxicity is the chlorine added for disinfection or the ammonia concentration in the effluent and the chlorine and/or ammonia concentrations are below the established water quality based effluent limitation for chlorine and/or ammonia, the permittee shall identify the procedures to be used in future toxicity tests to account for chlorine and/or ammonia toxicity in their preliminary toxicity identification report.
 - iv. The permittee shall submit a Preliminary Toxicity Identification Notification within 15 months of triggering TRIR. This notification shall include a determination that the permittee intends to demonstrate compliance OR plans to initiate a CTI.
- d. The permittee must demonstrate compliance with the WET limitation or action level in four consecutive WET tests to satisfy the requirements of the Toxicity Reduction Investigation Requirements. After successful completion, the permittee may return to the WET monitoring frequency specified in PART III.
- e. The permittee shall initiate a Comprehensive Toxicity Investigation (CTI) if the PTI does not identify the cause of toxicity and a demonstration of consistent compliance with the toxicity limit or action level in Part III can not be made.
- i. The permittee shall develop a project study plan identifying the party or parties responsible for conducting the comprehensive evaluation, establish a schedule for completing the study, and a description of the technical approach to be utilized.
 - ii. If the permittee determines that the PTI has failed to demonstrate consistent compliance with the toxicity limit or action level in Part III, a Comprehensive Toxicity Investigation Workplan must be prepared and submitted within 90 days.
 - iii. The permittee shall summarize the data collected and the actions taken in CTI Quarterly Reports. The reports shall be submitted within 30 calendar days after the end of each quarter.
 - iv. The permittee shall submit a Final CTI Report 90 calendar days after the last quarterly report. The final CTI report shall include the corrective actions identified to reduce toxicity and a schedule for implementing these corrective actions.
- f. Upon receipt of written approval from the Department of the corrective action schedule, the permittee shall implement those corrective actions consistent with that schedule.
- i. The permittee shall satisfy the requirements of the Toxicity Reduction Implementation Requirements and return to the original toxicity monitoring frequency after corrective actions are implemented and the permittee demonstrates consistent compliance with the toxicity limit or action level in Part III in four consecutive toxicity tests.
 - ii. If the implemented corrective measures do not result in consistent compliance with the toxicity limit or action level in Part III, the permittee shall submit a plan for resuming the CTI.

- iii. Documents regarding Toxicity Investigations shall be sent to the following:
New Jersey Department of Environmental Protection
401-02B
Division of Water Quality
Bureau of Surface Water Permitting
401 East State Street
P.O. Box 420
Trenton, New Jersey 08625-0420

6. Introduction to RWBR Requirements

- a. The following RWBR sections contain the conditions for the permittee to beneficially reuse treated effluent or Reclaimed Water for Beneficial Reuse (RWBR), provided the effluent is in compliance with the criteria specified for the particular use specified below.
- b. There are two levels of RWBR uses. Public Access and Restricted Access.

7. Inactive RWBR Requirements

- a. The following RWBR sections are included in this permit for various reuse applications. These sections are inactive and not effective unless the status column in Appendix A states the reuse activity is approved. Any specific RWBR type not approved in the Appendix, may be approved at a later date by a minor modification permit action once the appropriate submittal requirements have been received and approved by the Department.

8. RWBR Requirements for Public Access

- a. The Public Access reuse types authorized by this permit are those approved in Appendix A. Other Public Access reuse types may be added by minor modification of this permit.
- b. The hydraulic loading rate for land application of RWBR shall not exceed 2 inches per week.
- c. Any water diverted for RWBR shall be monitored and comply with the high level treatment requirements listed below and the operational requirements in the approved Operations Protocol. If any of these requirements are not achieved, the effluent shall not be diverted for RWBR.
 - i. Total Suspended Solids (TSS): Instantaneous maximum of 5.0 mg/L prior to disinfection.
 - ii. Nitrogen, Total (NO₃ + NH₃): Daily maximum of 10.0 mg/L. This requirement only applies when RWBR is land applied.
 - iii. Fecal Coliform: 7-day median maximum of 2.2 colonies per 100 mL and an instantaneous maximum of 14 colonies per 100 mL.
 - iv. Chlorine Produced Oxidants (CPO): If the permittee disinfects utilizing chlorine, an instantaneous minimum of 1.0 mg/L after fifteen minutes contact time at peak hourly flow must be met.
 - v. Ultraviolet Disinfection: If the permittee disinfects utilizing UV disinfection, a minimum design UV dose of 100 mJ/cm² under maximum daily flow must be used. All aspects of the UV system must meet the requirements of the May 2003 (or most recent) National Water Research Institute's Ultraviolet Disinfection Guidelines for Drinking Water and Water Reuse, second edition.
 - vi. Turbidity for UV systems: Instantaneous maximum of 2.0 NTU.

- d. Monitoring of the diverted public access RWBR shall be conducted in the following manner:
- i. Sampling for TSS shall be immediately prior to disinfection. Monitoring for TSS shall be a grab sample once per week.
 - ii. Sampling for Turbidity in systems shall be sampled immediately prior to disinfection. The permittee shall establish a correlation between Turbidity and TSS in their effluent as detailed in the Reuse Technical Manual. A statistically significant correlation between Turbidity and TSS shall be established prior to commencement of the RWBR program and shall be incorporated into the Operations Protocol and updated annually. The initial correlation should be done as part of a daily monitoring program for at least 30 days. To ensure continuous compliance with the 5.0 mg/L TSS level, Turbidity must be monitored continuously and achieve the level established in the Operations Protocol.
 - iii. For UV systems, UV lamp intensity, UV transmittance and UV flow rate shall be monitored continuously after full disinfection treatment.
 - iv. Monitoring for Fecal Coliform shall be a grab sample, at least a minimum of once per week taken immediately after disinfection. Fecal coliform shall be monitored immediately after disinfection.
 - v. Monitoring for Total Nitrogen ($\text{NO}_3 + \text{NH}_3$) shall be a composite sample, taken in accordance with Part III, at least once per week taken prior to RWBR diversion. Total Nitrogen ($\text{NO}_3 + \text{NH}_3$) shall be monitored after the appropriate disinfection treatment is achieved.
- e. All monitoring results of the RWBR shall be reported each month on Wastewater Characterization Reports (WCR). Unless noted otherwise, the highest of all measured values for diverted RWBR shall be reported.
- i. If chlorine is used for disinfection, the lowest sampling result obtained during the reporting month shall be reported for CPO.
 - ii. If ultraviolet disinfection is used, the lowest sampling results obtained during the reporting month shall be reported for lamp intensity and UV transmittance.

9. RWBR Requirements for Restricted Access--Land Application and Non Edible Crops

- a. The Restricted Access--Land Application and Non Edible Crops reuse types authorized by this permit are those approved in Appendix A. Other Restricted Access--Land Application and Non Edible Crops reuse types may be added by minor modification of this permit.
- b. The hydraulic loading rate for land application of RWBR shall not exceed 2 inches per week.
- c. Any water diverted for RWBR shall be monitored and comply with the high level treatment requirements listed below and the operational requirements in the approved Operations Protocol. If any of these requirements are not achieved, the effluent shall not be diverted for RWBR.
- d. Nitrogen, Total ($\text{NO}_3 + \text{NH}_3$): Daily maximum of 10 mg/L. Frequency of sampling for Total Nitrogen shall be in accordance with Part III of this permit. The sample shall be collected as a composite sample taken prior to diversion for RWBR. Nitrogen, Total ($\text{NO}_3 + \text{NH}_3$) shall be monitored after the appropriate disinfection treatment time is achieved. This requirement only applies when RWBR is land applied, however, this requirement does not apply to spray irrigation within a fenced perimeter or otherwise restricted area.

- e. The effluent shall comply with the permit limitations for E. Coli as specified in the Effluent Limitations Tables at Part III of the permit. The frequency for sampling shall be in accordance with Part III of this permit. The sample shall be collected as a grab sample taken immediately after disinfection.
- f. Chlorine Produced Oxidants (CPO): For chlorine disinfection, instantaneous minimum of 1.0 mg/L after fifteen minutes contact time at peak hourly flow. Frequency of sampling for CPO shall be in accordance with Part III of this permit. The sample shall be collected as a grab sample taken immediately after disinfection. The value reported for CPO shall be the minimum sampling result obtained during the reporting month for diverted RWBR. Chlorine Produced Oxidants (CPO) shall be monitored after the appropriate contact time is achieved.
- g. Ultraviolet Disinfection: For UV disinfection, a minimum design UV dose of 75 mJ/cm² under maximum daily flow must be used. This dose must also be based on continuous monitoring of UV lamp intensity, UV transmittance and UV flow rate. All aspects of the UV system must meet the requirements of the May 2003 (or most recent) National Water Research Institute's Ultraviolet Disinfection Guidelines for Drinking Water and Water Reuse, second edition. UV lamp intensity, UV transmittance and UV flow rate shall be monitored continuously after full disinfection treatment.
- h. All monitoring results of the RWBR shall be reported each month on Wastewater Characterization Reports (WCR). Unless noted otherwise, the highest of all measured values for diverted RWBR shall be reported.

10. RWBR Requirements for Restricted Access--Construction and Maintenance Operations

- a. The Restricted Access--Construction and Maintenance Operations reuse types authorized by this permit are those approved in Appendix A. Other Restricted Access--Construction and Maintenance Operations reuse types may be added by minor modification of this permit.
- b. The effluent shall comply with the permit limitations for E. Coli as specified in the Effluent Limitations Tables at Part III of the permit. The frequency for sampling shall be in accordance with Part III of this permit. The sample shall be collected immediately after disinfection. This requirement does not apply to sanitary sewer jetting.

11. RWBR Requirements for Restricted Access--Industrial Systems

- a. The Restricted Access--Industrial Systems reuse types authorized by this permit are those approved in Appendix A. Other Restricted Access--Industrial Systems reuse types may be added by minor modification of this permit.

12. RWBR Submittal Requirements

- a. For all types of RWBR, with the exception of sanitary sewer jetting and STP washdown water, the permittee shall submit and receive approval of an Operations Protocol or modify the existing Operations Protocol as detailed in the most recent version of the Department's "Technical Manual for Reclaimed Water for Beneficial Reuse" (Reuse Technical Manual) prior to the commencement of any RWBR activity. A copy of the approved Operations Protocol shall be maintained onsite. Specific requirements for the Operations Protocol are identified in the Reuse Technical Manual.

- b. The permittee shall submit a copy of the Reuse Supplier and User Agreement with each request for authorization to distribute RWBR in which the user is a different entity than the supplier. Specific requirements for the Reuse Supplier and User Agreement are identified in the Reuse Technical Manual.
- c. For Public Access RWBR on Edible Crops, the permittee shall submit an annual inventory of edible crop irrigation with the Beneficial Reuse Annual Report. Specific requirements for the annual inventory are identified in the Reuse Technical Manual.
- d. 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 type of authorized RWBR activity for the previous calendar year. Specific requirements for the Annual Reuse Report are identified in the Reuse Technical Manual.
- e. The permittee shall submit and receive approval of an Engineering Report in support of RWBR authorization requests for new or expanded RWBR projects as detailed in the most recent version of the Department's "Technical Manual for Reclaimed Water for Beneficial Reuse" (Reuse Technical Manual) prior to the commencement of this/these type/s of RWBR activity. A copy of the approved Engineering Report shall be maintained onsite. Specific requirements for the Engineering Report are identified in the Reuse Technical Manual.
- f. All submittals shall be mailed or delivered to: New Jersey Department of Environmental Protection, Division of Water Quality, Bureau of Surface Water Permitting, Mail Code 401-02B, P.O. Box 420, Trenton, New Jersey 08625-0420.

13. RWBR Operational Requirements

- a. Effluent that does not meet the requirements for RWBR established in Part III, Part IV and the operational requirements specified in the facility's approved Operations Protocol shall not be diverted for RWBR.
- b. The land application of RWBR shall not produce surface runoff or ponding.
- c. All setback distances shall be consistent with the distances outlined in the Reuse Technical Manual.
- d. Land application sites shall not be frozen or saturated when applying RWBR.
- e. A daily log noting the volume of RWBR distributed to each approved application site shall be maintained on-site by the permittee and made available to the Department upon request. The volume of RWBR to be distributed shall be determined through the use of a totalizing flow meter, or other means of accurate flow measurement.
- f. Any vehicle used to transport and/or distribute RWBR shall be appropriately marked. The vehicle shall not be used to transport water or other fluid that does not meet 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.
- g. The permittee shall post Access Control and Advisory Signs in accordance with the requirements of the Reuse Technical Manual.
- h. There shall be no cross-connections to potable water systems.

- i. 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. Worker contact with RWBR shall be minimized.
- j. The issuance of this permit for the use of RWBR shall not be considered as a waiver of any applicable federal, state or local rule, regulation or ordinance.

F. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

1. Requirement to Identify and Locate Industrial Users

- a. The Permittee shall identify all indirect users which meet the significant indirect user definition in N.J.A.C. 7:14A-1.2 or have reasonable potential to:
 - i. interfere with attainment of the effluent limitations contained in the permittee's NJPDES permit
 - ii. pass through the treatment works and impair the water quality of the receiving stream; or
 - iii. affect sludge quality so as to interfere with the use or management of the municipal sludge

2. Notification Requirements

- a. The permittee shall provide adequate notice to the NJDEP, Division of Water Quality, Bureau of Pretreatment and Residuals, of the name, address, telephone number and facility contact of all:
 - i. new SIUs at the time the proposed user applies to the permittee for connection to the permittee's system,
 - ii. any substantial change or proposed change in the volume or character of pollutants being introduced into the POTW by existing SIUs, or
 - iii. any substantial change or proposed change in the volume or character of pollutants being introduced into the POTW by a user that causes the user to become an SIU.
- b. For purposes of this subsection, adequate notice shall include information on the quality and quantity of effluent introduced into the POTW and any anticipated impact of such change on the quantity or quality of effluent to be discharged from the POTW.

3. Requirement to Develop Local Limits

- a. If necessary to ensure compliance with the requirements in paragraph ii following, the permittee shall perform a headworks analysis in order to develop local limits or demonstrate that local limits are not necessary. The headworks analysis and, if necessary, development of local limits shall:
 - i. be conducted in accordance with the Local Limits Development Guidance (July 2004, USEPA Office of Wastewater Management), including all supplements and amendments thereto, including: identifying the sources and pollutants which should be limited in order to address environmental protection criteria of paragraph ii.; characterizing industrial discharges; reviewing applicable environmental protection criteria and pollutant effects data; monitoring of IU discharges, POTW collection system and treatment plant; and calculating local limits for the identified pollutants of concern;

- ii. ensure compliance with the following minimum environmental protection criteria: the numerical effluent limitations in the Part III; The local agency's process inhibition and upset criteria; the local agency's worker health and safety protection criteria; the sludge quality criteria for a chosen method(s) of sludge management; and the limitations in the local agency's Air Pollution Control permit, where applicable.

4. Submittal Requirements

- a. Submit the Local Ordinance: within 60 days from the effective date of the permit (EDP).
- b. The permittee shall submit updates to its Local Sewer Use Ordinance within 30 days of modification.
- c. The permittee shall prepare a Annual Pretreatment Program Report which shall consists of a listing of all users which meet the significant indirect user definition in N.J.A.C. 7:14A-1.2. The report shall include the name, address, and type of business for each facility. The report shall be on the forms provided by the Department. The forms are available on the Department's web site at <http://www.nj.gov/dep/dwq/bpr.htm>.
- d. Submit the Annual Pretreatment Program Report: annually beginning 60 days from the effective date of this document.
- e. The reports shall be submitted to: NJDEP, Mail Code - 401-02B, Bureau of Pretreatment and Residuals, 401 East State Street, P. O. Box 420, Trenton, NJ. 08625-0420

G. CONDITIONS FOR MODIFICATION

1. Notification requirements

- a. The permittee may request a minor modification for a reduction in monitoring frequency for a non-limited parameter when four consecutive test results of "not detected" have occurred using the specified QL.

2. Causes for modification

- a. The Department may modify this permit through a minor modification in accordance with N.J.A.C. 7:14A-16.5(a)1 to eliminate monitoring for the less sensitive species upon completion of the WET characterization requirement.
- b. The Department may modify or revoke and reissue any permit to incorporate 1) any applicable effluent standard or any effluent limitation, including any effluent standards or effluent limitations to control the discharge of toxic pollutants or pollutant parameters such as acute or chronic whole effluent toxicity and chemical specific toxic parameters, 2) toxicity reduction requirements, or 3) the implementation of a TMDL or watershed management plan adopted in accordance with N.J.A.C. 7:15-7.
- c. The permittee may request a minor modification to eliminate the monitoring requirements associated with a discharge authorized by this permit when the discharge ceases due to changes at the facility.

3. Removal or Modification of Final WQBELs or Criteria End-of-Pipe Effluent Limitations for Chemical Specific Toxic Pollutants

- a. The Department will consider proposing to remove or modify a toxic pollutant's newly imposed final effluent limitation from the permit if any or all of the information in item "b" below is submitted for Departmental review and consideration.
- b. Items that will be considered include, but are not limited to:
 - i. Submission of additional effluent data (minimum of 2.5 consecutive years of monthly data) using an approved quantification level equal to or better than the Department's Recommended Quantification Level (RQL).
 - ii. Acceptable site-specific ambient data (e.g. hardness, pollutant specific data) collected in accordance with a NJDEP approved work plan.
 - iii. Acceptable site-specific translator values developed in accordance with a NJDEP approved work plan.
 - iv. Acceptable site-specific criteria developed in accordance with a NJDEP approved work plan.
 - v. Updated 1Q10, 7Q10, 75th percentile, and/or other appropriate stream flow values where applicable.
 - vi. Updated regulatory mixing zone dilution factors where applicable.
- c. All studies require a NJDEP approved workplan that shall be submitted to the Department for approval on or before the effective date of the permit (EDP) + 6 months.
 - i. It is recommended that all ambient monitoring associated with the establishment of hardness values, pollutant concentrations, and site specific translator values be conducted under the confines of a single work plan.
- d. All final study reports and/or additional information shall be submitted to the Department on or before EDP + 36 months.
- e. The Department will review all submitted information and will either propose a permit action to remove/modify the final effluent limitation(s) or deny the modification request.

4. Removal or Modification of the Final WQBEL or Criteria End-of-Pipe Limitation for Phosphorus

- a. The Department will consider a modification request proposing to modify or remove the final effluent limitation for total phosphorus from the permit if the following studies are submitted in accordance with items "b." through "d." below, and they demonstrate support for such an action in accordance with N.J.A.C. 7:9B. Studies that will be considered by the Department include a limiting nutrient analysis and use impairment evaluation that have been prepared in accordance with the Department guidance document entitled "Technical Manual for Phosphorus Evaluation for NJPDES DSW Permits." This document may be downloaded from the Department's website (www.state.nj.us/dep/dwq/techman.htm).
- b. Submit a letter of intent: within 60 days from the effective date of the permit (EDP). The permittee must notify the Department in writing, whether the intention is to proceed towards attainment of the final effluent limitation for phosphorus or to pursue the option to undertake and submit the studies and reports specified in item "a." above. Should the permittee choose not to pursue the option to undertake and submit the studies and reports specified in item "a." above, the final effluent limitation for phosphorus will become effective at EDP + 59 months.

- c. The studies listed in item "a." above are required to have a work plan approved by the Department prior to the commencement of sampling. Eight (8) copies of the work plan must be submitted to the Department no later than the EDP + 4 months. The Department intends to respond to the work plan submittals within 2 months of its receipt from the permittee.
- d. Eight (8) copies of the information identified in item "a." above shall be submitted to the Department no later than EDP + 24 months.
- e. All information identified in items "c." and "d." above shall be submitted to the Department at the following address:
NJDEP: Division of Water Quality
Mail Code - 401-02B
Bureau of Surface Water Permitting
P.O. Box 420
Trenton, New Jersey 08625-0420
- f. If, based upon the information and studies prepared in accordance with item "a." above, the Department determines it is appropriate to remove or modify the final effluent limitation for phosphorus, the Department will draft the appropriate permit action as a major modification.
- g. The permittee shall submit to the Department, beginning EDP + 6 months, semiannual progress reports detailing the progress made towards meeting the phosphorus limitation that becomes effective on EDP + 59 months or its progress toward completion of the optional studies identified in "a." above, as appropriate.

PLUMSTED MUA WWTP, New Egypt

Permit No. NJ0226271
DSW140001 Surface Water New Permit Action

Masterfile #: 501695

PI #: 631998

RWBR Approval Status List

The permittee is only authorized to utilize RWBR for the specific category, type and location that has been approved in the table below.

RWBR Category	Specific RWBR Type	Location	Status
PA	Spray Irrigation (Golf Course)	None	Not Approved
PA	Spray Irrigation (Athletic Fields, Playgrounds)	None	Not Approved
PA	Spray Irrigation (Residential Lawns)	None	Not Approved
PA	Vehicle Washing	None	Not Approved
PA	Hydroseeding/Fertilizing	None	Not Approved
PA	Decorative Fountains	None	Not Approved
PA	Toilet Flushing	None	Not Approved
RA-LA	Sod Irrigation	None	Not Approved
RA-LA	Spray Irrigation within a fenced perimeter or otherwise restricted area	None	Not Approved
RA-LA	Spray Irrigation within a fenced perimeter or otherwise restricted area (Without NH3 + NO3)	None	Not Approved
RA-LA	Spray Irrigation (not fenced or restricted area)	None	Not Approved
RA-CM	Street Sweeping	None	Not Approved
RA-CM	Dust Control	None	Not Approved
RA-CM	Fire Protection	None	Not Approved
RA-CM	Vehicle Washing (at STP or DPW)	None	Not Approved
RA-CM	Composting	None	Not Approved
RA-IS	Sanitary Sewer Jetting	Plumsted MUA Sewer Service Area	Approved
RA-IS	Non-Contact Cooling Water	None	Not Approved
RA-IS	Boiler/Process Makeup Water	None	Not Approved
RA-IS	Road Construction Operations	None	Not Approved
RA-IS	Hydrostatic Testing	None	Not Approved
RA-IS	Parts Washing	None	Not Approved
RA-IS	STP Washdown	Plumsted MUA	Approved

Categories:

PA Public Access
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
DPW - Dept. of Public Works

Annual Reuse Report

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 = _____ gallons
- (2) The total wastewater discharged (D) by the facility in the previous calendar year; D = _____ gallons
- (3) The percent of wastewater reused (%R) by the facility in the previous calendar year, calculated as follows:

$$\%R = R/(R+D), \text{ expressed as a percent;}$$
%R = _____ 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; Correlation = _____
- (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

Annual Reuse Report - SAMPLE

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 = _____ gallons
- (2) The total wastewater discharged (D) by the facility in the previous calendar year;
D = _____ 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 = _____ 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;
Correlation = _____
- (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