

## **NOTICE TO BIDDERS**

NOTICE IS HEREBY GIVEN that sealed proposals will be received by Michael Cruoglio for the Western Monmouth Utilities Authority, County of Monmouth, State of New Jersey, on **Wednesday, January 29, 2025, at 10:00 am**, at the Authority's Administration Building located at 103 Pension Road, in Manalapan Township, NJ 07726, phone (732) 446-9300, at which time and place bids will be opened and read in public for:

### **Surface Water and Biosolids Annual Laboratory Testing**

Specifications, Instructions to Bidders and Proposal Forms may be viewed and downloaded from the Authority's website: [www.wmuanj.org](http://www.wmuanj.org). Bids shall be made on the proposal form provided in the manner designated therein and required by the specifications. All bids must be submitted in a sealed envelope and clearly marked "BID" along with the project name. If the bid is sent by Express Mail - the Express Company envelope must be marked "BID" along with project name.

Bidders are required to comply with the current requirements of N.J.S.A.10:5- 31 et. seq. P.L. 1975, c.127 (Affirmative Action); N.J.S.A. 52:25-24.2 P.L. 1977, c.33 (Disclosure of Ownership) and N.J.S.A. 52:32-44 P.L. 1999, c. 39, as amended by P.L. 2004, c. 57, (NJ Contractor Business Registration Act).

Michael Cruoglio

Manager of Finance and Administration

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**BID DOCUMENT CHECKLIST**  
WESTERN MONMOUTH UTILITIES AUTHORITY

*REQUIRED  
BY WMUA*

*READ, SIGNED  
& SUBMITTED*

- |  |                          |
|--|--------------------------|
| <input checked="" type="checkbox"/> BID PROPOSAL FORM  | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> NON-COLLUSION AFFIDAVIT  | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> STOCKHOLDER DISCLOSURE CERTIFICATION                                   | <input type="checkbox"/> |
| <input type="checkbox"/> PUBLIC WORKS CONTRACTOR APPLICATION<br>OR CERTIFICATE                             | <input type="checkbox"/> |
| <input type="checkbox"/> CONSENT OF SURETY   | <input type="checkbox"/> |
| <input type="checkbox"/> EQUIPMENT CERTIFICATION   | <input type="checkbox"/> |
| <input type="checkbox"/> FORM OF GUARANTEE   | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> BUSINESS REGISTRATION CERTIFICATE AND W-9 FORM                         | <input type="checkbox"/> |
| <input type="checkbox"/> PHOTOCOPIES OF REQUIRED LICENSES  | <input type="checkbox"/> |
| <input type="checkbox"/> CERTIFICATION OF NON-INVOLVEMENT IN PROHIBITED<br>ACTIVITIES IN RUSSIA OR BELARUS | <input type="checkbox"/> |

*REVIEWED*

- |   |                          |
|---|--------------------------|
| <input checked="" type="checkbox"/> MANDATORY AFFIRMATIVE ACTION LANGUAGE   | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> AMERICANS WITH DISABILITIES ACT OF 1990 | <input type="checkbox"/> |
| <input type="checkbox"/> PREVAILING WAGE                                    | <input type="checkbox"/> |

**NOTE:** This form is provided for bidder's use in assuring compliance with all required documentation and is **REQUIRED** to be submitted.

**EXHIBIT A**  
**P.L. 1975, C. 127 (N.J.A.C. 17:27)**  
**MANDATORY AFFIRMATIVE ACTION LANGUAGE**

During the performance of this contract, the contractor agrees as follows:

The contractor or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of race, religion, sex, national origin, creed, color, ancestry, age, marital status, affectional or sexual orientation, familial status, liability for service in the Armed Forces of the United States, or nationality. The contractor will take affirmative action to ensure that such applicants are recruited and employed, and that employees are treated during employment, without regard to their race, religion, sex, national origin, creed, color, ancestry, age, marital status, affectional or sexual orientation, familial status, liability for service in the Armed Forces of the United States, or nationality. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer, recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Public Agency Compliance Officer setting for the provisions of this nondiscrimination clause;

The contractor or subcontractor, where applicable will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, religion, sex, national origin, creed, color, ancestry, age, marital status, affectional or sexual orientation, familial status, liability for service in the Armed Forces of the United States, or nationality;

The contractor or subcontractor, where applicable, will send to each labor union or representative or workers with which it has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the agency contracting officer advising the labor union or workers' representative of the contractor's commitments under this act and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

The contractor or subcontractor, where applicable, agrees to comply with the regulations promulgated by the Treasurer pursuant to P.L. 1975, c. 127, as amended and supplemented from time to time and the Americans with Disabilities Act.

The contractor or subcontractor agrees to attempt in good faith to employ minority and female workers consistent with the applicable county employment goals prescribed by N.J.A.C. 17:27-5.2 promulgated by the Treasurer pursuant to P.L. 1975, c 127, as amended and supplemented from time to time or in accordance with a binding determination of the applicable county employment goals determined by the Affirmative Action Office pursuant to N.J.A.C. 17:27-5.2 promulgated by the Treasurer pursuant to P.L. 1975, c. 127, as amended from time to time.

The contractor or subcontractor agrees to inform in writing appropriate recruitment agencies in the area, including employment agencies, placement bureaus, colleges, universities, labor unions, that it does not discriminate on the basis of race, religion, sex, national origin, creed, color, ancestry, age, marital status, affectional or sexual orientation, familial status, liability for service in the Armed Forces of the United States, or nationality, and that it will discontinue the use of any recruitment agency which engages in direct or indirect discriminatory practices.

The contractor or subcontractor agrees to revise any of its testing procedures, if necessary, to assure that all personnel testing conforms with the principles of job-related testing, as established by the statutes and court decisions of the State of New Jersey and as established by applicable Federal law and applicable Federal court decisions.

The contractor or subcontractor agrees to review all procedures relating to transfer, upgrading, downgrading and layoff to ensure that all such actions are taken without regard to race, religion, sex, national origin, creed, color, ancestry, age, marital status, affectional or sexual orientation, familial status, liability for service in the Armed Forces of the United States, or nationality, and conform with the applicable employment goals, consistent with the statutes and court decisions of the State of New Jersey, and applicable Federal law and applicable Federal court decisions.

The contractor shall submit to the public agency, after notification of award but prior to execution of a goods and services contract, one of the following three documents:

Letter of Federal Affirmative Action Plan Approval  
Certificate of Employee Information Report  
Employee Information Report Form AA302

The contractor and its subcontractors shall furnish such reports or other documents to the Division of Contract Compliance and EEO as may be requested by the Division from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be requested by the Division of Contract Compliance & EEO for conducting a compliance investigation pursuant to Subchapter 10 or the Administrative Code (NJAC 17:27.)

**AMERICANS WITH DISABILITIES ACT OF 1990**  
Equal Opportunity for Individuals with Disability

The CONTRACTOR and the WMUA do hereby agree that the provisions of Title 11 of the Americans With Disabilities Act of 1990 (the "ACT") (42 U.S.C. 512 et seq.), which prohibits discrimination on the basis of disability by public entities in all services, programs, and activities provided or made available by public entities, and the rules and regulations promulgated pursuant there unto, are made a part of this contract. In providing any aid, benefit, or service on behalf of the WMUA pursuant to this contract, the CONTRACTOR agrees that the performance shall be in strict compliance with the Act. In the event that the Contractor, its agents, servants, employees, or subcontractors violate or are alleged to have violated the Act during the performance of this contract, the CONTRACTOR shall defend the WMUA in any action or administrative proceeding commenced pursuant to this Act. The Contractor shall indemnify, protect, and save harmless the WMUA, its agents, servants, and employees from and against any and all suits, claims, losses, demands, or damages, of whatever kind or nature arising out of or claimed to arise out of the alleged violation. The CONTRACTOR shall, at its own expense, appear, defend, and pay any and all charges for legal services and any and all costs and other expenses arising from such action or administrative proceeding or incurred in connection therewith. In any and all complaints brought pursuant to the WMUA grievance procedure, the CONTRACTOR agrees to abide by any decision of the WMUA which is rendered pursuant to said grievance procedure. If any action or administrative proceeding results in an award of damages against the WMUA or if the WMUA incurs any expense to cure a violation of the ADA which has been brought pursuant to its grievance procedure, the CONTRACTOR shall satisfy and discharge the same at its own expense.

The WMUA shall, as soon as practicable after a claim has been made against it, give written notice thereof to the CONTRACTOR along with full and complete particulars of the claim. If any action or administrative proceedings is brought against the WMUA or any of its agents, servants, and employees, the WMUA shall expeditiously forward or have forwarded to the CONTRACTOR every demand, complaint, notice, summons, pleading, or other process received by the WMUA or its representatives.

It is expressly agreed and understood that any approval by the WMUA of the services provided by the CONTRACTOR pursuant to this contract will not relieve the CONTRACTOR of the obligation to comply with the Act and to defend, indemnify, protect, and save harmless the WMUA pursuant to this paragraph.

It is further agreed and understood that the WMUA assumes no obligation to indemnify or save harmless the CONTRACTOR, its agents, servants, employees and subcontractors for any claim which may arise out of their performance of this Agreement. Furthermore, the CONTRACTOR expressly understands and agrees that the provisions of this indemnification clause shall in no way limit the CONTRACTOR'S obligations assumed in this Agreement, nor shall they be construed to relieve the CONTRACTOR from any liability, nor preclude the WMUA from taking any other actions available to it under any other provisions of the Agreement or otherwise at law.

## INSTRUCTIONS TO BIDDERS:

### **I. SUBMISSION OF BIDS**

- A. Sealed bids shall be received by the Western Monmouth Utilities Authority, hereinafter referred to as "WMUA" in accordance with public advertisement as required by law, a copy of said notice being attached hereto and made a part of these specifications.
- B. Sealed bids will be received by the designated representative at the time and place stated in the Notice to Bidders, and at such time and place will be publicly opened and read aloud.
- C. The bid shall be submitted in a sealed envelope: (1) addressed to the WMUA, (2) bearing the name and address of the bidder written on the face of the envelope, and (3) clearly marked "BID" with the contract title and/or bid # being bid.
- D. It is the bidder's responsibility to see that bids are presented to the WMUA on the hour and at the place designated. Bids may be hand delivered or mailed; however, the WMUA disclaims any responsibility for bids forwarded by regular or overnight mail. If the bid is sent by express mail service, the designation in Section C, above, must also appear on the outside of the express mail envelope. Bids received after the designated time and date will be returned unopened.
- E. Sealed bids forwarded to the WMUA before the time of the opening of bids may be withdrawn upon written application of the bidder who shall be required to produce evidence showing that the individual is or represents the principal or principals involved in the bid. Once bids have been opened, they must remain firm for a period of sixty (60) calendar days.
- F. All prices and amounts must be written in ink or preferably typewritten. Bids containing any conditions, omissions, unexplained erasures or alterations, items not called for in the bid proposal form, attachment of additive information not required by the specifications, or irregularities of any kind, may be rejected by the WMUA. Any changes, whiteouts, strikeouts, etc. in the bid must be initialed in ink by the person responsible for signing the bid.
- G. Each bid proposal form must give the full business address, business phone, fax and email if available, and contact person of the bidder and be signed by an authorized representative. Bids by partnerships must furnish the full name of all partners and must be signed in the partnership name by one of the members of the partnership or by an authorized representative, followed by the signature and designation of the person signing. Bids by corporations must be signed in the legal name of the corporation, followed by the name of the State in which incorporated and must contain the signature and designation of the president,

secretary or other person authorized to bind the corporation in the matter. When requested, satisfactory evidence of the authority of the officer signing shall be furnished.

H. Bidder should be aware of the requirements of N.J.S.A. 2C: 21-33, et seq. which governs false claims and representations by bidders. It is a serious crime for the bidder to knowingly submit a false claim and/or knowingly make material misrepresentation. There are enhanced penalties for areas of false claims, bid rigging and bribery, gratuities, and gifts; and conflict of interest. Please consult the statutes for further information.

## **II. BID SECURITY AND BONDING REQUIREMENTS**

The following provisions if indicated by an (X), shall be applicable to this bid and be made a part of the bidding documents:

### A. BID GUARANTEE

Bidder shall submit with the bid a certified check, cashier's check or bid bond in the amount of ten percent (10%) of the total price bid, but not in excess of \$20,000, payable unconditionally to the WMUA. When submitting a Bid Bond, it shall contain a Power of Attorney for the full amount of the Bid Bond from a surety company authorized to do business in the State of New Jersey and acceptable to the WMUA. The check or bond of the unsuccessful bidder(s) shall be returned as prescribed by law. The check or bond of the bidder to whom the current contract is awarded shall be retained until a contract is executed and the required performance bond or other security is submitted. The check or bond of the successful bidder shall be forfeited if the bidder fails to enter into a contract pursuant to N.J.S.A. 40A: 11-21 and N.J.S.A. 18A: 18A-24.

Failure to submit this shall be cause for rejection of the bid.

### B. CONSENT OF SURETY

Bidder shall submit with the bid a Certificate (Consent of Surety) with a Power of Attorney for the full amount of the bid price from a Surety Company authorized to do business in the State of New Jersey and acceptable to the WMUA stating that it will provide said bidder with a Performance Bond in the full amount of the bid. This certificate shall be obtained in order to confirm that the bidder to whom the contract is awarded will furnish Performance and Payment Bonds from an acceptable surety company on behalf of said bidder, any or all subcontractors or by each respective subcontractor or by any combination thereof which results in performance security

equal to the total amount of the contract, pursuant to N.J.S.A. 40A: 11-22 and N.J.S.A.18A: 18A-25.

Failure to submit this shall be cause for rejection of the bid.

C. PERFORMANCE BOND

Successful bidder shall simultaneously with the delivery of the executed contract, submit an executed bond in the amount of one hundred percent (100%) of the acceptable bid as security for the faithful performance of this contract.

Failure to submit this with the executed contract shall be cause for declaring the contract null and void pursuant to N.J.S.A. 40A: 11-22 and 18A: 18A-25.

D. LABOR AND MATERIAL (PAYMENT) BOND

Successful bidder shall with the delivery of the performance bond submit an executed payment bond to guarantee payment to laborers and suppliers for the labor and material used in the work performed under the contract.

Failure to submit this with the performance bond shall be cause for declaring the contract null and void.

MAINTENANCE BOND

Upon acceptance of the work by the WMUA, the bidder shall submit a maintenance bond (N.J.S.A. 40A: 11-16.3) in an amount not to exceed 100% guaranteeing against defective quality of work or materials for the period of:

1 year

2 years

**MAINTENANCE BOND IN THE AMOUNT OF \_\_\_\_\_% IS REQUIRED.**

The performance bond provided shall not be released until final acceptance of the whole work and then only if any liens or claims have been satisfied and any maintenance bonds required have been executed and approved by the WMUA.

The surety on such bond or bonds shall be duly authorized by a surety company authorized to do business in the State of New Jersey N.J.S.A. 17:31-5.

### III. INTERPRETATION AND ADDENDA

- A. The bidder understands and agrees that its bid is submitted on the basis of the specifications prepared by the WMUA. The bidder accepts the obligation to become familiar with these specifications.
- B. Bidders are expected to examine the specifications and related bid documents with care and observe all their requirements. Ambiguities, error or omissions noted by bidders should be promptly reported in writing to the appropriate official. Any prospective bidder who wishes to challenge a bid specification shall file such challenges in writing with the contracting agent no less than three business days prior to the opening of the bids. Pursuant to N.J.S.A. 40A:11-13 and N.J.S.A. 18A:18A-5, challenges filed after that time shall be considered void and having no impact on the contracting unit or the award of a contract. In the event the bidder fails to notify the WMUA of such ambiguities, errors or omissions, the bidder shall be bound by the bid.
- C. No oral interpretation and or clarification of the meaning of the specifications for any goods or services will be made to any bidder. Such request shall be in writing, addressed to the WMUA'S representative stipulated in the specification. In order to be given consideration, a written request must be received at least seven (7) business days prior to the date fixed for the opening of the bids for goods and services.

All interpretations, clarifications and any supplemental instructions will be in the form of written addenda to the specifications, and will be distributed to all prospective bidders. All addenda so issued shall become a part of the specification and bid documents, and shall be acknowledged by the bidder in the bid. The WMUA'S interpretations or corrections thereof shall be final.

**Five (5) days (Saturday, Sunday and Holidays accepted) in accordance with N.J.S.A. 40A: 11-23 and N.J.S.A.18A: 18A-21 applies to goods and services. See statute for construction and municipal solid waste requirements.**

#### D. Discrepancies in Bids

- 1. If the amount shown in words and its equivalent in figures do not agree, the written words shall be binding. Ditto marks are not considered writing or printing and shall not be used.
- 2. In the event that there is a discrepancy between the unit prices and the extended totals, the unit prices shall prevail. In the event there is an error of the summation of the extended totals, the computation by the WMUA of the extended totals shall govern.

#### E. Pre-Bid Conference

If stated in the public notice, attendance at the Pre-Bid Conference is not mandatory, but is strongly recommended. Failure to attend does not relieve the bidder of any obligations or requirements.

#### **IV. BRAND NAMES, STANDARDS OF QUALITY AND PERFORMANCE**

- A. Brand names and/or descriptions used in these specifications are to acquaint bidders with the types of goods and services desired and will be used as a standard by which goods and services offered, as equivalent will be evaluated.
- B. Variations between the goods and services described and the goods and services offered are to be fully identified and described by the bidder on a separate sheet and submitted with the bid proposal form. A vendor's literature WILL NOT suffice in explaining exceptions to these specifications. In the absence of any exceptions by the bidder, it will be presumed and required that the goods and services as described in the bid specification be provided or performed.
- C. It is the responsibility of the bidder to document and/or demonstrate the equivalency of the goods and services offered. The WMUA reserves the right to evaluate the equivalency of the goods and services and upon satisfaction to the WMUA, may approve them.
- D. In submitting its bid, the bidder certifies that the goods and services to be furnished will not infringe upon any valid patent, copyright or trademark and that the successful bidder shall, at its own expense, defend any and all actions or suits charging infringement, and will save the WMUA harmless from any damages resulting from infringement.
- E. Only manufactured farm products of the United States, wherever available, shall be used pursuant to N.J.S.A. 40A: 11-18 and N.J.S.A. 18A: 18A-20.
- F. Wherever practical and economical to the WMUA, it is desired that recycled or recyclable products be provided. Please indicate when recycled products are being offered.
- G. The Bidder shall guarantee any or all goods and services supplied under these specifications. Defective or inferior goods shall be replaced at the expense of the bidder. The bidder will be responsible for return freight or restocking charges.

## V. INSURANCE AND INDEMNIFICATION

**The insurance documents indicated by a (X) may include but are not limited to the following coverage.**

### A. INSURANCE REQUIREMENTS

#### 1. Worker's Compensation Insurance

Insurance shall be maintained in full force during the life of the contract, covering all employees engaged in performance of the contract in accordance with the applicable statute.

#### 2. General Liability Insurance

This insurance shall have limits of not less than \$500,000.00 any one person and \$500,000.00 any one accident for bodily injury and \$1,000,000.00 aggregate for property damage, and shall be maintained in full force during the life of the contract.

#### 3. Automobile Liability Insurance

This insurance covering contractor for claims arising from owned, hired and non-owned vehicles with limits of not less than \$1,000,000.00 any one person and \$1,000,000.00 any one accident for bodily injury and \$500,000.00 each accident for property damage, shall be maintained in full force during the life of the contract.

### B. Certificates of the Required Insurance

Required Certificates of insurance as listed above shall be submitted with the contract. Such coverage shall be with an insurance company authorized to do business in the State of New Jersey and shall name the WMUA as an additional insured, as well as agree and undertake to indemnify and save harmless the WMUA and the WMUA's respective employees and agents in all manners pertaining to the Contract.

Self-insured contractors shall submit an affidavit attesting to their self insured coverage's and shall name the WMUA as an additional insured as well as agree and undertake to indemnify and save harmless the WMUA and the WMUA's respective employees and agents in all manners pertaining to the Contract.

### C. Indemnification

Successful bidder shall indemnify and hold harmless the WMUA and the WMUA's respective employees and agents from all claims, suits or actions and damages or

costs of every name and description to which the WMUA may be subjected or put by reason of injury to the person or property of another, or the property of the WMUA, resulting from negligent acts or omissions on the part of the bidder, the bidder's agents, servants or subcontractors in the delivery of goods and services or in the performance of the work under the contract.

## **VI. PRICING INFORMATION FOR PREPARATION OF BIDS**

- A. The WMUA is exempt from any local, state or federal sales use or excise tax.
- B. Estimated Quantities (Open-End Contracts)

The WMUA has attempted to identify the item(s) and the estimated amounts of each item bid to cover its requirements; however, past experience shows that the amount ordered may be different than that submitted for bidding. The right is reserved to decrease or increase the quantities specified in the specifications pursuant to N.J.A.C. 5:30-11.2 and N.J.A.C. 11.10. NO MINIMUM PURCHASE IS IMPLIED OR GUARANTEED.

- C. Contractor shall be responsible for obtaining any applicable permits or licenses from any government entity that has jurisdiction to require the same. All bids submitted shall have included this cost.
- D. Bidders shall insert prices for furnishing goods and services required by these specifications. Prices shall be net, including any charges for packing, crating, containers, etc. All transportation charges shall be fully prepaid by the contractor, F.O.B. destination and placement at locations specified by the WMUA. As specified, placement may require inside deliveries. No additional charges will be allowed for any transportation costs resulting from partial shipments made for the contractor's convenience.

## **VII. STATUTORY AND OTHER REQUIREMENTS**

The following provisions indicated by an (X) shall be applicable to this bid and be made a part of the bidding documents:

A.  Mandatory Affirmative Action Certification

No firm may be issued a contract unless it complies with the affirmative action regulation of N.J.A.C. 17-27-1.1 et seq.

1. Procurement, Professional and Service Contracts

All successful bidders must submit, within seven days after the receipt of the notice of intent to award the contract or the receipt of the contract, one of the following:

- i. A photocopy of a valid letter for an approved Federal Affirmative Action Plan (good for one year from the date of the letter), or
- ii. A photocopy of an approved Certificate of Employee Information Report, or
- iii. If the Vendor has none of the above, the public agency is required to provide the vendor with an initial Affirmative Action Employee Information Report (AA-302).

2. Maintenance/Construction Contracts

All successful vendors must submit within three days of the signing of the contract an Initial Project Manning Report (AA201-available upon request from the State's Affirmative Action Office) for any contract award that meets or exceeds the bidding threshold.

B.  Americans with Disabilities Act of 1990

Discrimination on the basis of disability in contracting for the purchase of goods and services is prohibited. Bidders are required to read Americans with Disabilities language that is part of this specification and agrees that the provisions of Title II of the Act are made a part of the contract. The contractor is obligated to comply with the Act and to hold the OWNER harmless.

C.  New Jersey Business Registration for Contractors with Government Agencies Act

Effective September 1, 2004, business organizations or individuals doing business in New Jersey are required to register with the Department of the Treasury, Division of Revenue, according to N.J.S.A. 52:32-44 et seq.

There is no cost for this registration and it can be done on line at [www.nj.gov/treasury/revenue/taxreg.htm](http://www.nj.gov/treasury/revenue/taxreg.htm). You will receive a certificate indicating your registration. A copy of the registration certificate must be submitted with the bid documents.

D.  Prevailing Wage Act

Pursuant to N.J.S.A. 34:11-56.25 et seq., contractors on projects for public work shall adhere to all requirements of the New Jersey Prevailing Wage Act. The contractor shall be required to submit a certified payroll record to the WMUA within ten (10) days of the payment of the wages. The contractor is also responsible for obtaining and submitting all subcontractors's certified payroll records within the aforementioned time period. The contractor shall submit said certified payrolls in the form set forth in N.J.A.C. 12:60-6.1. It will be the contractor's responsibility to obtain additional copies of the certified payroll form to be submitted by the contacting the Office of Administrative Law, P.O. Box 049, Trenton, NJ 08625 or the New Jersey Department of Labor, Division of Workplace Standards.

E.  The Public Works Contractor Registration Act

No contractor/subcontractor is permitted to bid or engage in any contract for public work (N.J.S.A. 34:11-56.26) unless that contractor/subcontractor is registered with the New Jersey Department of Labor. A copy of the certificate or the application shall be submitted with the bid.

"Contractor" is defined as "a person, partnership, association, joint stock company, trust, corporation or other legal business entity or successor thereof who enters into a contract which is subject to the provision of the "New Jersey Prevailing Wage Act", "for the construction, reconstruction, demolition, alteration, repair or maintenance of a public building regularly open to and used by the general public or a public institution, and includes any subcontractor or lower tier subcontractor as defined herein". (N.J.S.A. 34:11-56.48, et seq.)

F.  Stockholder Disclosure

No corporation or partnership shall be awarded any contract for the performance of any work or the furnishing of any goods and services, unless, prior to the receipt of the bid or accompanying the bid of said corporation or partnership, there is submitted a statement setting forth the names and addresses of all stockholders in the corporation or partnership who own ten percent or more of its stock of any class, or of all individual partners in the partnership who own a ten percent or greater interest therein. Form of Statement shall be completed and attached to the bid proposal.  
N.J.S.A. 52:25-24.2

G.  The New Jersey Worker and Community Right to Know Act

The manufacturer or supplier of a substance or mixture shall supply the Chemical Abstracts Service number of all the components of the mixture or substance and the chemical name. The manufacturer and supplier must properly label each container. Further, all applicable Material Safety Data Sheets (MSDS) hazardous substance fact sheet- must be furnished. N.J.S.A. 34:5A-1 et seq.

H.  Non-Collusion Affidavit

The Affidavit shall be properly executed and submitted with the bid proposal.

I.  Pay-to-Play Compliance

If the value of the Contract is over \$17,500, the New Jersey Pay-To-Play Law, N.J.S.A. 19:44A-20.4 et seq., must be complied with. Under New Jersey's Pay- to- Play Law, Contracts can be awarded either through a "fair and open" process or a non "fair and open" process, both of which have their own Pay-to Play requirements.

If the Contract is awarded through a "fair and open" process, the process shall include, at minimum:

- (a) Public advertisement, and
- (b) Award under "a process that provides for public solicitation of proposals or qualifications," and
- (c) Established on the basis of an award and disclosure process documented in writing prior to any solicitation, and
- (d) Publicly opened and announced when awarded.

Contractors who have received \$50,000 or more through government contracts in a calendar year must file an annual disclosure statement (Form BE) electronically with the Election Law Enforcement Commission to report contract information and reportable contributions it has made whether the Contract was awarded in a "fair and open" process or not.

If the Contract is awarded through a non "fair and open" process, the Contractor shall submit a Political Contribution Disclosure form and a Business Entity Disclosure Certification form to the WMUA ten (10) days in advance of the Contract Award date. If the WMUA determines that the Contractor made reportable contributions to: (i) any municipal committee of a political party if a member of that party is in office as a member of the governing body of the county or municipality when the contract is

awarded, and /or (ii) any candidate committee of a person serving in an elected position of the county of municipality, in the one year preceding the award of the Contract, the WMUA will be prohibited from awarding such Contract to the Contractor. In addition, a CONTRACTOR receiving a Contract under a non "fair and open" process is barred from making a reportable contribution during the term of the Contract.

J. W-9 Form

Vendor shall provide completed IRS form W-9 with bid package.

**VIII. METHODS OF AWARD**

A. The length of the contract shall be stated in the technical specifications, pursuant to N.J.S.A. 40A: 11-15 and 18A: 18A-42.

Pursuant to regulatory requirements, any contract resulting from this bid shall be subject to the availability and appropriation of sufficient funds annually.

B. If the award is to be made on the basis of a base bid only, it shall be made to that responsible bidder, submitting the lowest base bid.

C. If the award is to be made on the basis of a combination of a base bid with selected options, it shall be made to that responsible bidder submitting the lowest net bid.

D. The WMUA may also elect to award the contract on the basis of unit prices.

E. Government entities are not private business/consumer clients; therefore, separate company contracts are not honored and will not be executed. Terms of the specifications/bid package prevail. Bids must be formally accepted by the WMUA.

F. In the event that bid proposals submitted by two or more bidders are deemed to be tied, the WMUA shall award the contract based on a review of the following factors listed in order of priority:

- 1) History of vendor performance, as evidenced by the WMUA's vendor performance database;
- 2) A usable cash-or-volume based discount that renders one bid more favorably priced;
- 3) Delivery advantage, specially shorter time frames for delivery and/or closer proximity to the point of delivery; and
- 4) Proximity to the WMUA.

- 5) If a decision cannot be reached utilizing the above, a coin will be tossed.

## **IX. CAUSES FOR REJECTION OF BIDS**

A. All bids may be rejected pursuant to N.J.S.A. 40A: 11-13.2 and N.J.S.A. 18A: 18A-22.

B. Multiple Bids are NOT ALLOWED.

More than one bid from an individual or partnership, or association under the same names shall not be considered.

C. Bids which are obviously unbalanced may be rejected.

D. Prior Negative Experience pursuant to N.J.S.A. 40A: 11-4-b and N.J.S.A. 18A: 18A-4-b.

E. Contract Execution

Should the successful bidder, fail to enter into a contract within 21 days, Sundays and holidays excepted, the WMUA may then, at its option, accept the bid of the next lowest responsible bidder. N.J.S.A. 40A: 11-24b and N.J.S.A. 18A: 18A-36b.

## **X. TERMINATION OF CONTRACT**

A. If, through any cause, the contractor shall fail to fulfill in a timely and proper manner obligations under the contract or any obligations mandated by the WMUA, such failure shall be deemed a violation of the contract, and the WMUA shall thereupon have the right to terminate the contract by giving written notice to the contractor of such termination and specifying the effective date of termination. Such termination shall relieve the WMUA of any obligation for balances to the contractor of any sum or sums set forth in the contract. WMUA will pay only for goods and services accepted prior to termination.

B. Notwithstanding the above, the contractor shall not be relieved of liability to the WMUA for damages sustained by the WMUA by virtue of any breach of the contract by the contractor and the WMUA may withhold any payments to the contractor for the purpose of compensation until such time as the exact amount of the damage due the WMUA from the contractor is determined.

C. The contractor agrees to indemnify and hold the WMUA and WMUA's respective employees and agents harmless from any liability to subcontractor/suppliers

concerning payment for work performed or goods supplied arising out of the lawful termination of the contract by the WMUA under this provision.

- D. In case of default by the contractor, the WMUA may procure the goods or service from other sources and hold the contractor responsible for any excess cost.
- E. Continuation of the terms of the contract beyond the Authority's fiscal year which ends on January 31st is contingent on availability of funds in the following year's budget. In the event of unavailability of such funds, the WMUA reserves the right to cancel this contract.
- F. ACQUISITION, MERGER, SALE AND/OR TRANSFER OF BUSINESS, ETC.

It is understood by all parties that if, during the life of the contract, the contractor disposes of his/her business concern by acquisition, merger, sale and or/transfer or by any means convey his/her interest(s) to another party, the new owner(s) will be required to submit all documentation/legal instruments that were required in the original bid/contract/. Any change shall be approved by the WMUA.

- G. The contractor will not assign any interest in the contract and shall not transfer any interest in the same without the prior written consent of the WMUA.
- H. The WMUA may terminate the contract for convenience by providing 60 calendar days advanced notice to the contractor.

#### **XI. VENDOR PAYMENT**

- A. No payment will be made unless duly authorized by the WMUA's authorized representative and accompanied by proper documentation.
- B. Payment will be made in accordance with the WMUA's policy and procedures and the new Jersey Prompt Payment of Contracts Law, N.J.S.A. 2A:30A-1 et seq.

The WMUA will, after receipt of each payment estimate, make a clear determination as to whether the CONTRACTOR completed work. Subsequently, the WMUA shall approve or reject any and all of the payment estimates. If the WMUA wishes to dispute a payment estimate, the WMUA shall provide prompt and timely notice to the CONTRACTOR as to why any and all of the payment estimate was rejected and what is necessary to cure any and all defects. The WMUA shall pay to the CONTRACTOR any undisputed portions and all approved payment estimates within thirty (30) days of the WMUA's approval.

The quantity for which payment will be made shall be the hours of use for the equipment and any required personnel from the time the equipment and/or personnel leave the Contractor's facility to the time the equipment and/or personnel

return to the Contractor's facility. **However, the maximum time WMUA will compensate for travel time is 60 minutes per vehicle per day.**

**NON-COLLUSION AFFIDAVIT**

STATE OF NEW JERSEY)

COUNTY OF )

ss:

I, \_\_\_\_\_ of the City of \_\_\_\_\_

In the County of \_\_\_\_\_ and the State of \_\_\_\_\_

Of full age, being duly sworn according to law on my oath depose and say that:

I am \_\_\_\_\_

Of the firm of \_\_\_\_\_

The bidder making the Proposal for the above named project, and that I execute the said Proposal with full authority to do so: that said bidder has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free, competitive bidding in connection with the above named project; and that all statements contained in said proposal and in this affidavit are true and correct, and made with full knowledge that the Western Monmouth Utilities Authority of Monmouth County relies upon the truth of the statements contained in said Proposal and in the statements contained in this affidavit in awarding the contract for said project.

I further warrant that no person or selling agency has been employed or retained to solicit or secure such contract upon an agreement or understanding for a commission, percentage, brokerage or contingent fee except bona fide employees or bona fide established commercial or selling agencies maintained by \_\_\_\_\_

\_\_\_\_\_  
(name of contractor)

(N.J.S.A. 52:34-15)

Subscribed and sworn before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_

\_\_\_\_\_  
(Also type or print name of affiant under signature)

\_\_\_\_\_  
NOTARY PUBLIC OF  
MY COMMISSION EXPIRES:

**STATEMENT OF OWNERSHIP DISCLOSURE**

N.J.S.A. 52:25-24.2 (P.L. 1977, c.33, as amended by P.L. 2016, c.43)

This statement shall be completed, certified to, and included with all bid and proposal submissions. Failure to submit the required information is cause for automatic rejection of the bid or proposal.

**Name of Organization:** \_\_\_\_\_

**Organization**

**Address:** \_\_\_\_\_

**Part I Check the box that represents the type of business organization:**

- Sole Proprietorship (skip Parts II and III, execute certification in Part IV)
- Non-Profit Corporation (skip Parts II and III, execute certification in Part IV)
- For-Profit Corporation (any type)       Limited Liability Company (LLC)
- Partnership       Limited Partnership       Limited Liability Partnership (LLP)
- Other (be specific): \_\_\_\_\_

**Part II**

The list below contains the names and addresses of all stockholders in the corporation who own 10 percent or more of its stock, of any class, or of all individual partners in the partnership who own a 10 percent or greater interest therein, or of all members in the limited liability company who own a 10 percent or greater interest therein, as the case may be. **(COMPLETE THE LIST BELOW IN THIS SECTION)**

**OR**

No one stockholder in the corporation owns 10 percent or more of its stock, of any class, or no individual partner in the partnership owns a 10 percent or greater interest therein, or no member in the limited liability company owns a 10 percent or greater interest therein, as the case may be. **(SKIP TO PART IV)**

(Please attach additional sheets if more space is needed):

<b>Name of Individual or Business Entity</b>	<b>Address</b>

**Part III DISCLOSURE OF 10% OR GREATER OWNERSHIP IN THE STOCKHOLDERS, PARTNERS OR LLC MEMBERS LISTED IN PART II**

If a bidder has a direct or indirect parent entity which is publicly traded, and any person holds a 10 percent or greater beneficial interest in the publicly traded parent entity as of the last annual federal Security and Exchange Commission (SEC) or foreign equivalent filing, ownership disclosure can be met by providing links to the website(s) containing the last annual filing(s) with the federal Securities and Exchange Commission (or foreign equivalent) that contain the name and address of each person holding a 10% or greater beneficial interest in the publicly traded parent entity, along with the relevant page numbers of the filing(s) that contain the information on each such person. **Attach additional sheets if more space is needed.**

Website (URL) containing the last annual SEC (or foreign equivalent) filing	Page #'s

**Please list** the names and addresses of each stockholder, partner or member owning a 10 percent or greater interest in any corresponding corporation, partnership and/or limited liability company (LLC) listed in Part II **other than for any publicly traded parent entities referenced above.** The disclosure shall be continued until names and addresses of every noncorporate stockholder, and individual partner, and member exceeding the 10 percent ownership criteria established pursuant to N.J.S.A. 52:25-24.2 has been listed. **Attach additional sheets if more space is needed.**

Stockholder/Partner/Member and Corresponding Entity Listed in Part II	Address

**Part IV Certification**

I, being duly sworn upon my oath, hereby represent that the foregoing information and any attachments thereto to the best of my knowledge are true and complete. I acknowledge: that I am authorized to execute this certification on behalf of the bidder/proposer; that the **Western Monmouth Utilities Authority** is relying on the information contained herein and that I am under a continuing obligation from the date of this certification through the completion of any contracts with **Western Monmouth Utilities Authority** to notify the **Western Monmouth Utilities Authority** in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I am subject to criminal prosecution under the law and that it will constitute a material breach of my agreement(s) with the, permitting the **Western Monmouth Utilities Authority** to declare any contract(s) resulting from this certification void and unenforceable.

Full Name (Print):		Title:	
Signature:		Date:	

## AFFIRMATIVE ACTION REGULATIONS

P.L. 1975, C. 127 (N.J.A.C. 17:27)

If awarded a contract, all procurement and service contractors will be required to comply with the requirements of P.L. 1975, C. 127, (N.J.A.C. 17:27). Within seven (7) days after receipt of the notification of intent to award the contract or receipt of the contract, whichever is sooner, the contractor should present one of the following to the appropriate authority:

1. A photocopy of a valid letter from the U.S. Department of Labor that the contractor has an existing federally-approved or sanctioned Affirmative Action Plan (valid for one year from the date of the letter).

OR

2. A photocopy of approved Certificate of Employee. Information Report.

OR

3. An Affirmative Action Employee Information Report (Form AA302)

OR

4. All successful construction contractors must submit within three days of the signing of the contract an Initial Project Manning Report (AA-201) for any contract award that meets or exceeds the Public Agency bidding threshold (available upon request).

**NO FIRM MAY BE ISSUED A CONTRACT UNLESS IT COMPLIES WITH THE AFFIRMATIVE ACTION REGULATIONS OF P.L. 1975, C. 127.**

The following questions must be answered by all bidders:

1. Do you have a federally approved or sanctioned Affirmative Action Program?

YES \_\_\_\_\_ NO \_\_\_\_\_

If yes, please submit a copy of such approval.

2. Do you have a Certificate of Employee Information Report Approval?

YES \_\_\_\_\_ NO \_\_\_\_\_

If yes, please submit a copy of such certificate.

The undersigned certifies that the vendor is aware of the commitment to comply with the requirements of P.L. 1975, c. 127 and agrees to furnish the required documentation pursuant to the law.

COMPANY: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

**Note:** A vendor's bid must be rejected as non-responsive if the vendor fails to comply with requirements of P.L. 1975, c.127, within the time frame.



### CERTIFICATION OF NON-INVOLVEMENT IN PROHIBITED ACTIVITIES IN RUSSIA OR BELARUS

Pursuant to N.J.S.A. 52:32-60.1, et seq. (L. 2022, c. 3) any person or entity (hereinafter "Vendor") that seeks to enter into or renew a contract with a State agency for the provision of goods or services, or the purchase of bonds or other obligations, must complete the certification below indicating whether or not the Vendor is identified on the Office of Foreign Assets Control (OFAC) Specially Designated Nationals and Blocked Persons list, available here: <https://sanctionssearch.ofac.treas.gov/>. If the Department of the Treasury finds that a Vendor has made a certification in violation of the law, it shall take any action as may be appropriate and provided by law, rule or contract, including but not limited to, imposing sanctions, seeking compliance, recovering damages, declaring the party in default and seeking debarment or suspension of the party.

I, the undersigned, certify that I have read the definition of "Vendor" below, and have reviewed the Office of Foreign Assets Control (OFAC) Specially Designated Nationals and Blocked Persons list, and having done so certify:

*(Check the Appropriate Box)*

A. That the Vendor is not identified on the OFAC Specially Designated Nationals and Blocked Persons list on account of activity related to Russia and/or Belarus.

**OR**

B. That I am unable to certify as to "A" above, because the Vendor is identified on the OFAC Specially Designated Nationals and Blocked Persons list on account of activity related to Russia and/or Belarus.

**OR**

C. That I am unable to certify as to "A" above, because the Vendor is identified on the OFAC Specially Designated Nationals and Blocked Persons list. However, the Vendor is engaged in activity related to Russia and/or Belarus consistent with federal law, regulation, license or exemption. A detailed description of how the Vendor's activity related to Russia and/or Belarus is consistent with federal law is set forth below.

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*(Attach Additional Sheets If Necessary.)*

_____ Signature of Vendor's Authorized Representative	_____ Date
_____ Print Name and Title of Vendor's Authorized Representative	_____ Vendor's FEIN
_____ Vendor's Name	_____ Vendor's Phone Number
_____ Vendor's Address (Street Address)	_____ Vendor's Fax Number
_____ Vendor's Address (City/State/Zip Code)	_____ Vendor's Email Address

<sup>i</sup> Vendor means: (1) A natural person, corporation, company, limited partnership, limited liability partnership, limited liability company, business association, sole proprietorship, joint venture, partnership, society, trust, or any other nongovernmental entity, organization, or group; (2) Any governmental entity or instrumentality of a government, including a multilateral development institution, as defined in Section 1701(c)(3) of the International Financial Institutions Act, 22 U.S.C. 262r(c)(3); or (3) Any parent, successor, subunit, direct or indirect subsidiary, or any entity under common ownership or control with, any entity described in paragraph (1) or (2).

## **Technical Specifications**

### **Surface Water and Biosolids Testing**

The Western Monmouth Utilities Authority (WMUA), operator of the Pine Brook Wastewater Treatment Facility located in Manalapan, New Jersey, is soliciting prices for their annual testing of Surface Water (Wastewater) and Biosolids (Digested Sludge) as required by the New Jersey Department of Environmental Protection (NJDEP) as described in Permit Nos. NJ0023728 and NJ0194921.

The above permits, dated July 2021, are included as attachments to this specification for your reference.

Each analysis required by these permits must be performed by a New Jersey Certified Laboratory that is certified to perform that analysis. Samples shall be picked up from the WMUA's Laboratory at the Pine Brook Wastewater Treatment Facility. To ensure compliance with the sample "Hold Times" required by the analytic procedures specified in 40 CFR 136 or other NJ Department of Environmental Protection approved methods, and in accordance with the NJ Department of Environmental Protection Field Sampling Procedures Manual, the WMUA requires that the Bidder that is awarded this contract must be located within 100 travel miles by vehicle of the WMUA's Pine Brook Treatment Facility. Bids submitted by Bidders whose laboratory is outside of this range will be rejected. Additionally, to ensure successful testing and compliance with the applicable "Hold Times" for each sample, the WMUA requires that transportation of the samples must be direct from the WMUA's facilities to the testing facility, without additional stops.

Turnaround time for all reports will be 10-14 days, unless otherwise specified. Results shall be reported as within quantitation levels as per NJDEP permit.

In the event that a sample test or result is invalid due to lab error, the WMUA must be notified immediately and a Letter of Explanation must be provided to the WMUA by the lab explaining the lab error. If time allows for resampling within the frequency and time period required by the WMUA's NJPDES permit, all efforts must be taken to perform a new test on a new sample, so that the required number of samples and test frequency were met during that reporting period. The required number of tests and frequency are listed on the table attached to this specification.

Interested parties must perform all testing requirements for both Surface Water and Biosolids, as per the proposal page. Award of this contract will be made to one NJDEP certified laboratory for a period of one year, with the option to renew for a second year. A copy of New Jersey Department of Environmental Protection's Laboratory Certification must be included with bid submission.

Questions regarding this specification may be directed in writing to Jesse VanPelt, Laboratory Manager, at [JVanpelt@wmua.manalapan.nj.us](mailto:JVanpelt@wmua.manalapan.nj.us).

**Proposal Page**  
**Surface Water and Biosolids Testing**

We the undersigned propose to furnish and deliver the above services pursuant to the bid specification and made part hereof:

\$ \_\_\_\_\_

(Annual Total of Testing Requirements per attached)

Vendor Name: \_\_\_\_\_

Address: \_\_\_\_\_

---

Signature of Authorized Agent: \_\_\_\_\_

Telephone: \_\_\_\_\_

Email: \_\_\_\_\_

NJDEP Lab Identification No.: \_\_\_\_\_

Contract period will be March 1, 2025 thru February 28, 2026, with option to renew for a second year.

Quantities used in this solicitation may increase or decrease as required by NJDEP permit requirements.

**PROPOSAL SUBMITTED BY:** \_\_\_\_\_

**SURFACE WATER TESTING (WASTEWATER)**

<u>PARAMETERS</u>	<u>NUMBER OF TESTS (EST)</u>	<u>FREQUENCY</u>	<u>TYPE</u>	<u>BASE UNIT PRICE</u>	<u>EXTENDED PRICE</u>
Ammonia NH3	104	1/week	Raw & Final Composite	\$	\$
CBOD-5	104	1/week	Raw & Final Composite	\$	\$
TSS	104	1/week	Raw & Final Composite	\$	\$
TDS	208	2/week	Raw & Final Composite	\$	\$
Total Phosphorus	24	2/month	Raw & Final Composite	\$	\$
Nitrate NO3	12	1/month	Raw & Final Composite	\$	\$
E.Coli	96	8/month	Final Grab	\$	\$
Oil & Grease	4	4/year	Final Grab	\$	\$
Dissolved Oxygen (on site)	52	1/week	In Field/Final Outfall	\$	\$
<b><u>ANNUAL SURFACE WATER</u></b>					
ON FINAL 24 HOUR COMPOSITE & FINAL AT OUTFALL GRAB (SEE PERMIT PAGES 8 THRU 17)			In Field/Final Outfall	\$	\$
<b><u>BIOSOLIDS (DIGESTED SLUDGE)</u></b>					
Ultimate Disposal - SQAR Table #1 (SEE PERMIT PAGES 1 THRU 4)		13		\$	\$
Annual Residuals - SQAR Tables #1 thru #6 (SEE PERMIT PAGES 1 THRU 12)		1		\$	\$
Sample Pickup Service (includes sample bottles)	104	2/week		\$	\$
				<b><u>ANNUAL TOTAL</u></b>	\$

# Appendix A

NJPDES permit NJ0023728



## State of New Jersey

PHIL MURPHY  
*Governor*

DEPARTMENT OF ENVIRONMENTAL PROTECTION  
Mail Code – 401-02B

SHAWN M LATOURETTE  
*Commissioner*

SHEILA OLIVER  
*Lt. Governor*

Water Pollution Management Element  
Bureau of Surface Water & Pretreatment Permitting  
P.O. Box 420 – 401 E State St  
Trenton, NJ 08625-0420  
Phone: (609) 292-4860 / Fax: (609) 984-7938

**Email Only**  
**July 7, 2021**

Brian Valentino, CEO  
Western Monmouth Utilities Authority  
103 Pension Rd  
Manalapan Twp, NJ 07726

Re: Final Surface Water Renewal Permit Action  
Category: A -Sanitary Wastewater  
NJPDES Permit No. NJ0023728  
PINE BROOK STP  
Manalapan Twp, Monmouth County

Dear Mr. Valentino:

Enclosed is a **final** NJPDES permit action identified above which has been issued in accordance with N.J.A.C. 7:14A. This permit action authorizes the permittee to discharge a permitted flow of 8.8 million gallons per day of treated and disinfected domestic waster into Pine Brook which is classified as FW2-NT waters of the state.

Comments were received on the draft permit issued on March 4, 2021. The thirty (30) day public comment period began on March 5, 2021 when the public notice was published in the *Asbury Park Press* newspaper as shown here: <https://njpublicnotices.com>. It ended on April 4, 2021. 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.

Minor changes have been incorporated to this final permit action including updates to the bureau name; correction to the sample type for Total Recoverable Mercury to grab; and removal of information regarding the chlorine produced oxidants recommended quantitation level in Part IV.A.

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 Renewal 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 [https://www.nj.gov/dep/dwq/forms\\_adjudicatory.htm](https://www.nj.gov/dep/dwq/forms_adjudicatory.htm).

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/>.

Questions or comments regarding the final action should be addressed to Dave Thomas either by phone at (609) 292-4860 or email at [Dave.Thomas@dep.nj.gov](mailto:Dave.Thomas@dep.nj.gov).

Sincerely,

A handwritten signature in black ink that reads "Susan Rosenwinkel". The signature is written in a cursive style.

Susan Rosenwinkel  
Bureau Chief  
Bureau of Surface Water & Pretreatment Permitting

Enclosures

cc: Permit Distribution List  
Masterfile #: 12911; PI #: 47082

## **Table of Contents for the Final Permit**

**This permit package contains the items below:**

- 1. Cover Letter – Final Permit**
- 2. Table of Contents for the Final Permit**
- 3. List of Acronyms**
- 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: Chronic Toxicity Testing Specifications for Use in the NJPDES Permit Program**
- 11. Appendix B: RWBR Approval Status List**

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

Comments were received on the NJPDES draft Surface Water Renewal Permit Action No. NJ0023728 issued on March 5, 2021. The thirty (30) day public comment period began on March 5, 2021 when the Public Notice was published in the *Asbury Park Press* as shown here: <https://njpublicnotices.com>. Public notice was also provided in the February 17, 2021 *DEP Bulletin*. The comment period ended on April 4, 2021. The following person commented during the public comment period:

- A. Brian J. Valentino, Executive Director & Chief Executive Officer, Western Monmouth Utilities Authority (WMUA) in a letter dated April 1, 2021.

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: Effluent Limitations for Nitrate Nitrogen (Nitrate)**

The draft permit proposes monthly average effluent limitations for nitrate nitrogen of 10 mg/l and 333.0 kg/day. It is not clear if the "0.0" is necessary as perhaps 333 is precise enough. We understand that these proposed limitations are based on the Department's conclusions that (a) nitrate is discharged in quantifiable amounts in WMUA's treatment plant discharge, and (b) the level of nitrate nitrogen in the receiving water exceeds the numeric criterion in New Jersey's Surface Water Quality Standards (NJSWQS) and therefore the receiving water has been listed as impaired for nitrate in the Department's 2016 Integrated Water Quality Monitoring and Assessment Report. In situations like this, the Department typically imposes an effluent limitation equal to the receiving water criterion of 10 mg/l nitrate nitrogen. Specific comments are as follows:

*A. Schedule for Imposition of the Proposed Nitrate Effluent Limitations*

Part IV.D.2 of the draft permit specifies that the proposed nitrate effluent limitations will become effective in the 37<sup>th</sup> month after the effective date of the permit. This does not provide sufficient time for WMUA to comply with these effluent limitations. It will be necessary for WMUA to undertake at least the following: planning and evaluation studies to assess the ability of the existing facility to reduce nitrate below the required limits; definition of any facility upgrades needed to meet the required limits; design of the upgraded facilities along with preparation of plans and specifications; obtain bids for construction of the facility upgrades; secure financing for the facility upgrades; construction of the facility upgrades; and start-up of the new facilities. This will require at least a five-year period of time.

*B. Basis and Need for the Proposed Nitrate Effluent Limitations*

There is no question that our discharge contains nitrate. That is a natural consequence of the level of treatment we provide to remove ammonia from our wastewater. Regarding the impairment listing, our research indicates that the receiving water was first listed as impaired for nitrate in the 2004 Integrated Report and the listing has been continued since then. It appears to us that there have been no new nitrate data collected to support or refute the listing since 2004. Thus, the impairment is based on information that is seventeen or more years old and we believe that an update is necessary. Reliance on antiquated data is insufficient as a basis to require a significant expenditure as would be needed here. The Department would never accept data as old as that from a permittee trying to justify a permit action.

We also note that while nitrate nitrogen exceeded 10 mg/l in the upstream reaches of the receiving water, the concentrations decreased in the downstream direction and were effectively below 10 mg/l before and in Duhernal Lake. The 10 mg/l numeric criterion in the NJSWQS is based on the suitability of the receiving water as a drinking water resource. Clearly Matchaponix Brook is not, and never will be, used as a source of drinking water. Duhernal Lake is also not directly used as a source of drinking water, although water supply wells operated by the Borough of Sayreville are located near the Lake. We have been provided data by the Borough, and they clearly show that nitrate nitrogen is far below 10 mg/l in the water extracted by the wells. Consequently, there is no threat to human health due to nitrate in the receiving water.

*C. History of Nitrate Effluent Limitations*

The nitrate criterion at N.J.A.C. 7:9B-1.14(f) has been in effect for many years. A nitrate effluent limitation has never been imposed in the WMUA NJPDES permit during that time. As noted above, the criterion was derived to protect against adverse human health effects in drinking water. In particular, it is based on prevention of an ailment known as methemoglobinemia (also known as blue baby syndrome) which affects infants under 6 months of age who consume water with high nitrate concentrations. Consequently, the 10 mg/l criterion is really a drinking water criterion.

One of the designated uses of FW2 waters is public potable water supply after conventional filtration treatment and disinfection. The Department has taken the position that conventional filtration treatment and disinfection will do little to reduce nitrate concentrations, and therefore the drinking water criterion of 10 mg/l has been required to be satisfied in any potable water supply source. In theory, Matchaponix Brook, since it is classified as an FW2 waterway, can serve as a potable water supply source. Therefore, the Department has required that the drinking water criterion be met in the receiving water. Reasonableness dictates that the receiving water in the vicinity of and downstream of the WMUA discharge is not now and never will be used as a potable water supply source. Even if under some remote possibility, plans were developed to withdraw water for potable use directly from the receiving water downstream of the WMUA discharge, then nitrate limitations could be imposed at that time.

The current and likely uses of this receiving water do not substantiate the environmental and economic costs that will be realized if nitrate removal is required. Those costs would be incurred with no corequisite benefit and only for a hypothetical use that is completely unrealistic.

*D. Cost of Nitrate Removal at WMUA*

WMUA's historical effluent nitrate concentrations dictate that additional treatment for nitrate removal would be necessary to meet the proposed effluent limitations. The financial cost of nitrate removal from wastewater is substantial. While nitrate removal may be more common for smaller discharges to groundwater from which wells extract drinking water, there are very few municipal facilities of any size with discharges to surface water that provide nitrate removal. Denitrification of the WMUA wastewater flow stream would result in capital construction costs in the range of \$20 - \$30 Million. This cost must be contrasted against the lack of any real benefit to the environment.

Furthermore, providing treatment for nitrate removal does not come without associated adverse environmental consequences. There will be greater sludge production which requires further treatment and disposal, greater energy usage which has its own set of environmental consequences, and an increase in the use of chemicals for treatment. Consequently, providing treatment for nitrate removal at this facility has a definite set of negative economic and environmental consequences. Those costs must be evaluated against

the benefit of making Matchaponix Brook suitable as a potable water supply source. Mandating nitrate removal at this facility results in substantial negative economic and environmental costs for the purpose of achieving the fully unrealistic goal of making Matchaponix Brook suitable as a potable water supply source.

#### *E. Alternative Regulatory Options*

WMUA understands the Department's position in proposing a nitrate effluent limitation in this instance. That position is based on strict application of a narrow portion of the NJSWQS. Considering the financial and economic costs associated with requiring these effluent limitations, we believe that there is room for discretion and an opportunity to invoke other aspects of the NJSWQS in this instance. New Jersey's SWQS provide two opportunities for resolution - (1) N.J.A.C. 7:9B-1.9 allows a modification of water quality based effluent limitations (WQBELs) on a case by case basis whether water quality in the receiving water is better than, equal to or does not meet the applicable water quality criteria; and (2) N.J.A.C. 7:9B-1.10 allows the reclassification of a waterway for a less restrictive use (e.g., deletion of the use as a potable water supply source). Each of these two alternatives can provide the Department a mechanism for avoiding the conflict that will ensue over this issue. WMUA is confident that any demonstrations needed to support such a decision will clearly show the impracticality of the Matchaponix Brook ever being used as a potable water supply source.

We note that this matter has statewide implications, i.e., implementation of the nitrate water quality criterion as has been proposed in this matter will lead to certain negative statewide financial and environmental implications. The Department has previously recognized the importance of this matter and has considered changes to its NJSWQS which would impose a WQBEL for nitrate only for discharges upstream of potable water intakes and not for all discharges to waterways that are classified as being suitable for public potable water supply after conventional filtration treatment and disinfection. If modified standards were in place today, an effluent limitation for nitrate would not be proposed for this facility. WMUA will work with the Department and other affected dischargers to resurrect the effort to implement a reasonable change to the SWQS that will resolve this problem.

#### RESPONSE:

As described in this comment, the draft permit proposes monthly average limitations for nitrate of 10 mg/L and a loading limitation of 333.0 kg/day. The loading limitation has been revised to 333 kg/day in this final permit action to ensure that consistent significant digits are utilized in the conversion from mg/L to kg/day.

As per N.J.A.C. 7:14A-13.6(a), a WQBEL shall be imposed when the Department has determined that the discharge of a pollutant (in this case, nitrate) causes an excursion above a NJSWQS. To determine the need for nitrate WQBELs, the Department analyzed the facility's effluent data as part of the permit renewal process where nitrate was found to be discharged in quantifiable amounts in the effluent. Given that the waterbody is impaired for nitrate, as per the Department's 2016 Integrated Water Quality Monitoring and Assessment Report, a WQBEL was determined necessary for nitrate in accordance with N.J.A.C. 7:14A-13.6(a) and was set equal to the NJSWQS of 10 mg/L based on the impairment status. Responses to the permittee's individual concerns described above are as follows:

#### *A. Schedule for Imposition of the Proposed Nitrate Effluent Limitations*

As noted in this comment, Part IV.D.2 of the draft permit specifies that the proposed nitrate effluent limitations will become effective in the 37<sup>th</sup> month after the effective date of the permit. As allowable under N.J.A.C. 7:14A-6.4, the Department allotted a 3-year compliance schedule for attainment of these effluent limits. However, the Department does agree that upgrades and changes in treatment will be

needed to reliably attain these limits where these upgrades are likely to be significant in scope and may require a longer schedule than three years. This could include tasks as identified in this comment such as the definition, design, construction, financing and start-up of any facility upgrades. However, specifics regarding any design and construction schedule and allotted times for each task will need to be better defined in order for the Department to fully evaluate the issue and in order to consider any adjustments to the schedule.

*B. Basis and Need for the Proposed Nitrate Effluent Limitations*

As described in the March 5, 2021 draft NJPDES permit, Matchaponix Brook is listed as being impaired for nitrate within the 2016 Integrated Water Quality Monitoring and Assessment Report. In addition, based on a review of the draft 2018/2020 New Jersey Integrated Water Quality Monitoring and Assessment Report (see [NJDEP-Division of Water Monitoring and Standards \(state.nj.us\)](http://www.nj.gov/dep/water/monitoring/standards/)), Matchaponix Brook continues to be listed as impaired. Information regarding the dates of the data collection that serves as the basis for these listings differed for each Integrated Water Quality Monitoring and Assessment Report where these reports are separate and distinct from the NJPDES permit action. New Jersey Register (N.J.R.) VOLUME 47, ISSUE 6, MARCH 16, 2015 ([47 N.J.R. 667\(a\)](http://www.nj.gov/register/)), VOLUME 49, ISSUE 20, OCTOBER 16, 2017 ([49 N.J.R. 3442\(a\)](http://www.nj.gov/register/)), and VOLUME 50, ISSUE 13, JULY 2, 2018 ([50 N.J.R. 1507\(b\)](http://www.nj.gov/register/)) include the public noticed data timeframes.

The Department acknowledges that nitrate may be present in the upstream reaches of the receiving water and levels may decrease due in part to dilution by the time it reaches Duhernal Lake. Nonetheless, Matchaponix Brook continues to be listed as impaired and the Department is required to abide by its regulations in establishing NJPDES permit requirements by utilizing the most recent information from the Integrated Water Quality Monitoring and Assessment Report.

*C. History of Nitrate Effluent Limitations*

The commenter is correct in that this is the first NJPDES permit action in which nitrate effluent limits have been included. As stated in the Fact Sheet for the August 13, 2014 final NJPDES permit, insufficient facility specific data was available at that time in order to calculate WQBELs where increased monitoring was a requirement of that permit action. This permit renewal serves to establish requirements based on that additional data.

As noted by the commenter, the NJSWQS at N.J.A.C. 7:9B set criteria for Nitrate based on the primary drinking water standard's maximum contaminant level (MCL) of 10 mg/L where nitrate has potential acute public health risks such as infant methemoglobinemia (blue baby syndrome). The receiving water for the facility's discharge, Matchaponix Brook, is classified as FW2-NT waters. All FW2 waters are designated as a potable drinking water source within the NJSWQS at N.J.A.C. 7:9B-1.12(c)4 as follows:

“In all FW2 waters, the designated uses are:

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;”

Based on these regulations and the fact that nitrate is listed on the 2016 Integrated Water Quality Monitoring and Assessment Report, the nitrate standard of 10 mg/L must be applied in accordance with the designated use. In other words, while the Matchaponix Brook may not be presently used as a source of potable water supply in New Jersey, the existing rule does not provide for allowances for these considerations and existing regulations require inclusion of these requirements.

Given the above rationale, newly calculated nitrate WQBELs have been imposed in this final permit action. In accordance with N.J.A.C. 7:14A-17.2(a), the permittee may submit a request for an adjudicatory hearing to contest the newly imposed Nitrate limitations within thirty days of the issuance of the final permit. Additionally, in accordance with N.J.A.C. 7:14A-17.6(a), the permittee may also submit a written request seeking a stay of the nitrate limitation pending the outcome of the adjudicatory hearing.

*D. Cost of Nitrate Removal at WMUA*

The Department understands that the wastewater treatment plant is not currently designed to remove nitrate and there would be significant costs as well as time needed for planning, evaluation and allocating funding for any plant upgrade. In addition, the Department acknowledges that there are ancillary costs to nitrate removal such as sludge handling and energy costs. As noted previously, the permittee could request a stay of nitrate requirements in accordance with N.J.A.C. 7:14A-17.6 (e). Factors that the Department must consider in any stay request pursuant to N.J.A.C. 17.6(e) include:

- i. The pollution source and its impact upon the affected ecosystem(s);
- ii. The level of pollutant control actually achieved as defined at N.J.A.C. 7:14A-1.2 by the existing treatment facility;
- iii. The degree and extent that short-term treatment alternatives including their cost may be applied to the existing treatment facility and what treatment level improvements may result from these alternatives; and
- iv. The cost to achieve total compliance with permit conditions, including the degree and extent of any negative economic impacts on the permittee and the community in relation to the environmental impacts that will result from not achieving compliance with permit conditions.

These factors must be addressed as part of any stay request.

*E. Alternative Regulatory Options*

Current regulations require imposition of nitrate effluent limitations as previously described. Nonetheless, the Department had been considering modifications to its existing rules specifically the “Tiered Drinking Water Rule Proposal” which would have allowed consideration of an alternate application of the nitrate SWQS for discharges that do not impact water supply intakes. However, the Department has not moved forward with any rule modification; therefore, the nitrate criterion remains unchanged at this time. As a result, the Department evaluated the necessity of WQBELs in accordance with N.J.A.C. 7:14A-13.5 in this subject permit action as described above. In summary, the Department is mandated to follow the existing regulations and appropriately did so in preparing the draft permit renewal.

The receiving water for the facility’s discharge is the Matchaponix Brook which is classified as FW2-NT waters. As noted previously, one of the designated uses of all FW2 waters is as a potential drinking water source after conventional treatment and disinfection in accordance with N.J.A.C. 7:9B-1.12(c). As described above, the Department acknowledges that the criteria is developed for human health effects even though all FW2 waters may not be used for such purposes. While the Matchaponix Brook may not be presently used as a source of potable water supply in New Jersey, the existing rule does not provide for allowances for these considerations.

As detailed within the draft permit Fact Sheet, any request for a formal reclassification/re-designation of the Matchaponix Brook to non-drinking water use from the WMUA may be forwarded to the:

Bureau of Environmental Analysis, Restoration and Standards,  
Attn: Kimberly Cenno, Bureau Chief.

PO Box 420 (Mail Code 401-04I)  
401 East State Street  
Trenton, New Jersey 08625-0420

Additional information regarding this matter can be found at: <https://www.state.nj.us/dep/wms/bears/swqs-rules.htm>.

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

2. **COMMENT:**  
**Capacity Assurance Program (CAP) Requirements**

A CAP Threshold of 95% is listed in the permit's Table of Effluent Limitations (see Tables III-A-1 and III-A-2 in the permit) where the Fact Sheet describes the new "CAP threshold" parameter as an action level equal to 95%. We presume that "AL" as specified in the Table of Effluent Limitations means Action Level; however, we do not see AL defined anywhere in the permit. Given that the CAP threshold is not an effluent limitation, we request that it be removed from Tables III-A-1 and III-A-2 and recommend that it be placed only in Part IV.D.1.f of the permit. We will gladly cooperate with the discharge monitoring report (DMR) reporting requirements that the Department seeks.

At a minimum, the CAP threshold should be clearly designated as an action level, not an effluent limitation, and that it is not subject to enforcement action in the same way applicable to effluent limitations.

**RESPONSE:**

"Action Level" is defined within the draft and final NJPDES Permit actions within the List of Acronyms. While the Action Level is not defined specifically within Table III-A-1 and III-A-2, AL is intended to mean action level and simply means that when the 12 month rolling average exceeds 95%, an action is required to be fulfilled to ensure compliance with the Capacity Assurance Program regulations at N.J.A.C. 7:14A-22.16. As stated in Part IV D.1. f. i., ii. and iii:

- f. The permittee shall comply with the following Capacity Assurance Program (CAP) requirements:
  - i. The permittee shall ensure compliance with the CAP regulations and upon triggering the action level in Part III, the permittee is required to initiate the requirements of N.J.A.C. 7:14A-22.16.
  - ii. For the calculation of the parameter "CAP Threshold" in Part III of the permit, the permittee shall use the permitted flow of 8.8 MGD and the 12-month rolling average flow calculated for the parameter of "Flow, In Conduit or Thru Treatment Plant" in the calculation of the percentage of the permitted flow for the month. This percentage shall be reported as the CAP Threshold percentage.
  - iii. For more information concerning the CAP, please contact the Bureau of Environmental, Engineering and Permitting at (609) 984-4429.

Inclusion of the AL within Tables III-A-1 and III-A-2 is intended to aid the permittee in tracking these levels to ensure compliance with this requirement. The commenter is correct in that an exceedance of the AL does not trigger enforcement penalties, as it is not a limit, but rather may require submission of a Capacity Assurance Report. Additional information regarding this requirement can be obtained within the Frequently Asked Questions document for the Capacity Assurance Program at [www.state.nj.us/dep/dwq/pdf/CAP2017\\_FAQs.pdf](http://www.state.nj.us/dep/dwq/pdf/CAP2017_FAQs.pdf).

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

3. COMMENT:  
**Total Dissolved Solids (TDS) Effluent Limitations in Fact Sheet**

We note a discrepancy in the TDS “existing limits” on page 20 of 22 in the Fact Sheet. The monthly average existing limit is 600 mg/l, not 500 mg/l.

RESPONSE:

While the correct values were included in Tables III-A-1 and III-A-2 of the draft NJPDES permit, the TDS monthly average value in the TDS “existing limits” column on page 20 of 22 in the Fact Sheet was incorrect within the Fact Sheet and is hereby corrected for the purpose of the Administrative Record (deletions shown with strikethrough, additions shown with underline):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA (5)	EXISTING LIMITS	INITIAL LIMITS	FINAL LIMITS	MONITORING	
							Freq.	Sample Type
Total Dissolved Solids	kg/d	Monthly Avg. Weekly Avg.	13646.2 16521.9	<del>16700</del> - <del>20000</del> 25000	20000 25000	20000 25000	2/Week	Calculated
Total Dissolved Solids	mg/L	Monthly Avg. Weekly Avg.	488.6 541.5	<del>500</del> <u>600</u> 750	600 750	600 750	2/Week	24 Hr Composite

As the Fact Sheet is a part of the Administrative Record and not a part of the final permit, this “Response to Comments” document serves to amend the Administrative Record.

4. COMMENT:  
**Equalization Basin and Reed Beds in Fact Sheet**

We recently decommissioned the equalization basin and constructed a new equalization tank immediately downstream of grit removal in the process diagram. As part of the construction of the new equalization tank we completely removed the reed beds. We sent a letter and application on April 24, 2019 to the Department requesting that permit NJG0129534 be revoked where this letter is provided as an attachment to the comments document. A response has not yet been received from the Department. However, the Department should consider removing all mention of this permit from the proposed draft discharge permit and page 2 of the Fact Sheet should be updated by moving the equalization basin to item #2 and renaming it “Equalization Tank.” The process flow diagram attached to the permit should be updated to reflect this change as well.

RESPONSE:

The application dated April 24, 2019 requesting that permit NJG0129534 be revoked was deemed administratively complete and was forwarded to the Bureau of Groundwater, Residuals and Permit Administration for technical review and processing. Should you have any further questions regarding the status of this permit application, please contact the Bureau of Groundwater, Residuals and Permit Administration at [dwq\\_groundwater@dep.nj.gov](mailto:dwq_groundwater@dep.nj.gov) and refer to the NJPDES permit number referenced above.

Given this change to the treatment units, and to ensure that the NJPDES permit reflects the most current information, item Number 5 noted below as included on Page 2 of the Fact Sheet is hereby corrected for the purpose of the Administrative Record as follows (deletions shown with strikethrough, additions shown with underline):

“Sanitary wastewater is processed through the following units:

1. grit chamber,
2. equalization tank,
3. primary clarifiers,
4. trickling filters,
5. secondary clarifiers,
6. ~~equalization basin~~
6. nitrification aeration tanks,
7. tertiary clarifiers,
8. Pressure Filters,
9. Ultraviolet disinfection”

As the Fact Sheet is a part of the Administrative Record and not a part of the final permit, this “Response to Comments” document serves to amend the Administrative Record.

5. COMMENT:  
**Dissolved Oxygen Sampling Frequency**

Section 6 of the Fact Sheet lists the DO sample frequency as once per day. This contradicts the sample frequency of once per week listed in Table III-A-2 of the draft permit. It appears that the Fact Sheet sample frequency is a typo and should be changed to match the draft permit frequency of once per week, which is also the sample frequency in our recently expired permit.

RESPONSE:

The commenter is correct where the correct monitoring frequency is once per week as listed in Tables III-A-1 and III-A-2. This paragraph should have been stated as follows:

“The monitoring frequency of ~~once per day~~ once per week is being carried forward from the existing permit and is consistent with N.J.A.C. 7:14A-14.2. The sample type shall be **grab**.”

As the Fact Sheet is a part of the Administrative Record and not a part of the final permit, this “Response to Comments” document serves to amend the Administrative Record.

6. COMMENT:  
**Name and Address**

We have noticed that throughout the cover letter, the public notice and the draft permit have several references to “The Western Monmouth *County* Utilities Authority.” Please strike the word “County” wherever it may appear in our name. The legal name of our entity is simply “Western Monmouth Utilities Authority.” We also request that all references to the now-abandoned “Utility Road” mailing address be updated to reflect our active mailing address of “103 Pension Road, Manalapan, NJ 07726”.

RESPONSE:

The Department acknowledges that the legal name of your entity is “Western Monmouth Utilities Authority” as indicated in your 2019 NJPDES renewal application. Any references in relation to “county” have been removed and the final permit reflects this as well on the cover letter and permit authorization page.



# 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: NJ0023728**

**Final: Surface Water Renewal Permit Action**

**Permittee:**

Western Monmouth Utilities Authority  
103 Pension Rd  
Manalapan Twp, NJ 07726

**Co-Permittee:**

**Property Owner:**

Western Monmouth Utilities Authority  
103 Pension Rd  
Manalapan Twp, NJ 07726

**Location Of Activity:**

Pine Brook STP  
103 Pension Rd  
Manalapan, Monmouth County

Authorization(s) Covered Under This Approval	Issuance Date	Effective Date	Expiration Date
A -Sanitary Wastewater - Renewal	07/07/2021	10/01/2021	09/30/2026

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

**DEP AUTHORIZATION**  
**Susan Rosenwinkel, Bureau Chief**  
**Bureau of Surface Water & Pretreatment Permitting**  
**Water Pollution Management Element**

(Terms, conditions and provisions attached hereto)

Division of Water Quality

## List of Acronyms

ACR	Acute to Chronic Ratio
AL	Action Level
AML	Average Monthly Limitation
BMP	Best Management Practices
BPJ	Best Professional Judgement
CAP	Capacity Assurance Program
CFR	Code of Federal Regulations
CV	Coefficient of Variation
CWEA/CWA	Clean Water Enforcement Act/Clean Water Act
Department	New Jersey Department of Environmental Protection
DGW	Discharge to Groundwater
DMR	Discharge Monitoring Report
DRBC	Delaware River Basin Commission
DSN	Discharge Serial Number
DSW	Discharge to Surface Water
EDP/M	Effective Date of the Permit/Permit Modification
EEQ	Existing Effluent Quality
ELG	Effluent Limitation Guideline
g/d or g/day	Grams per Day
IEC	Interstate Environmental Commission
IPP	Industrial Pretreatment Program
kg/d or kg/day	Kilograms per Day
LTA	Long Term Average
MA1CD10 or 1Q10	Minimum average one day flow with a statistical recurrence interval of ten years
MA7CD10 or 7Q10	Minimum average seven consecutive day flow with a statistical recurrence interval of ten years
MA30CD5 or 30Q5	Minimum average 30 consecutive day flow with a statistical recurrence interval of five years
mg/L	Milligrams per Liter
MDL	Maximum Daily Limitation
MGD	Million Gallons per Day
MRF	Monitoring Report Form
NAICS	North American Industry Classification System
NPDES/NJPDES	National/New Jersey Pollutant Discharge Elimination System
NJR	New Jersey Register
PCB	Polychlorinated Biphenyls
PMP	Pollutant Minimization Plan
POTW	Publicly Owned Treatment Works
RPMF	Reasonable Potential Multiplying Factor
RTR	Residuals Transfer Report
RQL	Recommended Quantification Levels
RWBR	Reclaimed Water for Beneficial Reuse
SIC	Standard Industrial Classification
SIU	Significant Indirect User
SQAR	Sludge Quality Assurance Regulations
SWQS	Surface Water Quality Standards
TMDL	Total Maximum Daily Load
TR	Total Recoverable
TRIR	Toxicity Reduction Implementation Requirements
USEPA TSD	USEPA Technical Support Document for Water Quality Based Toxics Control (EPA/505/2-90-001, March 1991)
µg/L	Micrograms per Liter
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UV	Ultraviolet
WCR	Wastewater Characterization Report
WER	Water Effects Ratio
WLA	Wasteload Allocation
WWTP	Wastewater Treatment Plant
WQBEL	Water Quality Based Effluent Limitation

## 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)
    - Written Reporting N.J.A.C. 7:14A-6.10(e) & (f) & 6.8(h)
  - Duty to Provide Information N.J.A.C. 7:14A-2.11, 6.2(a)14 & 18.1
  - Schedules of Compliance N.J.A.C. 7:14A-6.4
  - Transfer N.J.A.C. 7:14A-6.2(a)8 & 16.2

## PART II

# GENERAL REQUIREMENTS: DISCHARGE CATEGORIES

### A. Additional Requirements Incorporated By Reference

#### 1. Requirements 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. Standard Reporting Requirements – Monitoring Report Forms (MRFs)**

- a. All MRFs shall be electronically submitted to the Department's MRF Submission Service.
- b. MRF data submission shall be in accordance with the guidelines and provisions outlined in the Department's Electronic Data Interchange (EDI) agreement with the permittee.
- c. MRFs shall be submitted at the frequencies identified in Part III of this permit.
- d. All MRFs 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 MRFs in his or her absence. Authorizations for other individuals to certify 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 NJPDES MRF Reference 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, for a monitored location, there are no discharge events during an entire monitoring period, the permittee must notify the Department when submitting the monitoring results by checking the "No Discharge this monitoring period" box on the paper or electronic version of the monitoring report submittal form.

#### **7. Standard Reporting Requirements - Electronic Submission of NJPDES Information**

- a. Effective December 21, 2020, the below identified documents and reports shall be electronically submitted to the NJDEP via the Department's designated Electronic Submission Service.
  - i. Non-compliance reports required by N.J.A.C. 7:14A-6.10 and 40 CFR 122.41(1)(6) and (7) related to sanitary sewer overflows or bypass events.

#### **8. 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  
Bureau of Licensing & Registration  
Mail Code 401-04E  
PO Box 420  
Trenton, New Jersey 08625 - 0420  
(609) 984-6507
- b. The permittee shall notify the Department of any changes in licensed operator within two weeks of the change.

## **9. 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 Sanitary Outfall

RECEIVING STREAM:

Pine Brook

STREAM CLASSIFICATION:

FW2-NT(C2)

DISCHARGE CATEGORY(IES):

A - Sanitary Wastewater

**Location Description**

The influent shall be monitored before any treatment, other than degritting, and before the addition of any internal waste streams. The effluent shall be monitored after the last treatment step and before discharge. Outfall 001A shall discharge treated wastewater to the Pine Brook, within the Raritan River basin, classified as FW2-Non Trout waters at : Latitude 40deg. 18' 59" and Longitude 74deg. 21' 26".

**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: 10/01/2021      PHASE End Date: 09/30/2024

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Flow, In Conduit or Thru Treatment Plant	Effluent Gross Value	*****	*****	*****	REPORT Annual Average	REPORT Monthly Average	REPORT Daily Maximum	MGD	Continuous	Metered
	QL	***	***		***	***	***			
CAP Threshold	Effluent Gross Value	*****	*****	*****	*****	REPORT 12 Month Rolling Av	*****	PERCENT	1/Month	Calculated
	AL	***	***		***	95	***			
pH	Raw Sew/influent	*****	*****	*****	REPORT Report Per Minimum	*****	REPORT Report Per Maximum	SU	2/Day	Grab
	QL	***	***		***	***	***			
pH	Effluent Gross Value	*****	*****	*****	6.0 Report Per Minimum	*****	9.0 Report Per Maximum	SU	2/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:** 10/01/2021      **PHASE End Date:** 09/30/2024

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Solids, Total Suspended January thru December	Raw Sew/influent	*****	*****	*****	*****	REPORT Monthly Average	REPORT Weekly Average	MG/L	1/Week	24 Hour Composite
	QL	***	***		***	***	***			
Solids, Total Suspended January thru December	Effluent Gross Value	1000 Monthly Average	1500 Weekly Average	KG/DAY	*****	30 Monthly Average	45 Weekly Average	MG/L	1/Week	24 Hour Composite
	QL	***	***		***	***	***			
Solids, Total Suspended January thru December	Percent Removal	*****	*****	*****	85 Monthly Av Minimum	*****	*****	PERCENT	1/Week	Calculated
	QL	***	***		***	***	***			
Oil and Grease January thru December	Effluent Gross Value	*****	*****	*****	*****	10 Monthly Average	15 Instant Maximum	MG/L	1/Quarter	Grab
	QL	***	***		***	***	***			
Nitrogen, Ammonia Total (as N) May thru October	Effluent Gross Value	50 Monthly Average	74.9 Weekly Average	KG/DAY	*****	1.5 Monthly Average	2.25 Weekly Average	MG/L	1/Week	24 Hour Composite
	QL	***	***		***	***	***			
Nitrogen, Ammonia Total (as N) November thru April	Effluent Gross Value	333 Monthly Average	753 Daily Maximum	KG/DAY	*****	10 Monthly Average	22.6 Daily Maximum	MG/L	1/Week	24 Hour Composite
	QL	***	***		***	***	***			
Nitrogen, Nitrate Total (as N) January thru December	Effluent Gross Value	REPORT Monthly Average	REPORT Daily Maximum	KG/DAY	*****	REPORT Monthly Average	REPORT Daily Maximum	MG/L	1/Month	24 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:** 10/01/2021      **PHASE End Date:** 09/30/2024

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
E. Coli	Effluent Gross Value	*****	*****	*****	*****	126 Monthly Geo Avg	REPORT Report Per Maximum	#/100ML	8/Month	Grab
	January thru December	QL	***		***	***	***			
Solids, Total Dissolved (TDS)	Effluent Gross Value	20000 Monthly Average	25000 Weekly Average	KG/DAY	*****	600 Monthly Average	750 Weekly Average	MG/L	2/Week	24 Hour Composite
	January thru December	QL	***		***	***	***			
BOD, Carbonaceous 5 Day, 20oC	Raw Sew/influent	*****	*****	*****	*****	REPORT Monthly Average	REPORT Weekly Average	MG/L	1/Week	24 Hour Composite
	January thru December	QL	***		***	***	***			
BOD, Carbonaceous 5 Day, 20oC	Effluent Gross Value	333 Monthly Average	500 Weekly Average	KG/DAY	*****	10 Monthly Average	15 Weekly Average	MG/L	1/Week	24 Hour Composite
	January thru December	QL	***		***	***	***			
BOD, Carbonaceous 5 Day, 20oC	Percent Removal	*****	*****	*****	85 Monthly Av Minimum	*****	*****	PERCENT	1/Week	Calculated
	January thru December	QL	***		***	***	***			
IC25 Stare 7day Chr Ceriodaphnia	Effluent Gross Value	*****	*****	*****	48.5 Report Per Minimum	*****	*****	%EFFL	1/Year	Composite
	January thru December	QL	***		***	***	***			
Temperature, oC	Raw Sew/influent	*****	*****	*****	REPORT Report Per Minimum	REPORT Monthly Average	REPORT Report Per Maximum	DEG.C	2/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 - 1: Surface Water DMR Limits and Monitoring Requirements**

**PHASE: 1 Initial**                      **PHASE Start Date:** 10/01/2021                      **PHASE End Date:** 09/30/2024

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Temperature, oC	Effluent Gross Value	*****	*****	*****	REPORT Report Per Minimum	REPORT Monthly Average	REPORT Report Per Maximum	DEG.C	2/Day	Grab
	QL	***	***		***	***	***			
Oxygen, Dissolved (DO)	Effluent Gross Value	*****	*****	*****	6.0 Weekly Av Minimum	REPORT Daily Avg Minimum	*****	MG/L	1/Week	Grab
	QL	***	***		***	***	***			
Phosphorus, Total (as P)	Effluent Gross Value	REPORT Monthly Average	REPORT Weekly Average	KG/DAY	*****	REPORT Monthly Average	REPORT Weekly Average	MG/L	1/Month	24 Hour Composite
	QL	***	***		***	***	***			

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

**PHASE: 2 Final**                      **PHASE Start Date:** 10/01/2024                      **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 Annual Average	REPORT Monthly Average	REPORT Daily Maximum	MGD	Continuous	Metered
	QL	***	***		***	***	***			
CAP Threshold	Effluent Gross Value	*****	*****	*****	*****	REPORT 12 Month Rolling Av	*****	PERCENT	1/Month	Calculated
	AL	***	***		***	95	***			

**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:** 10/01/2024      **PHASE End Date:**

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
pH January thru December	Raw Sew/influent	*****	*****	*****	REPORT Report Per Minimum	*****	REPORT Report Per Maximum	SU	2/Day	Grab
	QL	***	***		***	***	***			
pH January thru December	Effluent Gross Value	*****	*****	*****	6.0 Report Per Minimum	*****	9.0 Report Per Maximum	SU	2/Day	Grab
	QL	***	***		***	***	***			
Solids, Total Suspended January thru December	Raw Sew/influent	*****	*****	*****	*****	REPORT Monthly Average	REPORT Weekly Average	MG/L	1/Week	24 Hour Composite
	QL	***	***		***	***	***			
Solids, Total Suspended January thru December	Effluent Gross Value	1000 Monthly Average	1500 Weekly Average	KG/DAY	*****	30 Monthly Average	45 Weekly Average	MG/L	1/Week	24 Hour Composite
	QL	***	***		***	***	***			
Solids, Total Suspended January thru December	Percent Removal	*****	*****	*****	85 Monthly Av Minimum	*****	*****	PERCENT	1/Week	Calculated
	QL	***	***		***	***	***			
Oil and Grease January thru December	Effluent Gross Value	*****	*****	*****	*****	10 Monthly Average	15 Instant Maximum	MG/L	1/Quarter	Grab
	QL	***	***		***	***	***			
Nitrogen, Ammonia Total (as N) May thru October	Effluent Gross Value	50 Monthly Average	74.9 Weekly Average	KG/DAY	*****	1.5 Monthly Average	2.25 Weekly Average	MG/L	1/Week	24 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 - 2: Surface Water DMR Limits and Monitoring Requirements**

**PHASE: 2 Final**                      **PHASE Start Date:** 10/01/2024                      **PHASE End Date:**

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Nitrogen, Ammonia Total (as N) November thru April	Effluent Gross Value	333 Monthly Average	753 Daily Maximum	KG/DAY	*****	10 Monthly Average	22.6 Daily Maximum	MG/L	1/Week	24 Hour Composite
	QL	***	***		***	***	***			
Nitrogen, Nitrate Total (as N) January thru December	Effluent Gross Value	333 Monthly Average	REPORT Daily Maximum	KG/DAY	*****	10 Monthly Average	REPORT Daily Maximum	MG/L	1/Month	24 Hour Composite
	QL	***	***		***	***	***			
E. Coli January thru December	Effluent Gross Value	*****	*****	*****	*****	126 Monthly Geo Avg	REPORT Report Per Maximum	#/100ML	8/Month	Grab
	QL	***	***		***	***	***			
Solids, Total Dissolved (TDS) January thru December	Effluent Gross Value	20000 Monthly Average	25000 Weekly Average	KG/DAY	*****	600 Monthly Average	750 Weekly Average	MG/L	2/Week	24 Hour Composite
	QL	***	***		***	***	***			
BOD, Carbonaceous 5 Day, 20oC January thru December	Raw Sew/influent	*****	*****	*****	*****	REPORT Monthly Average	REPORT Weekly Average	MG/L	1/Week	24 Hour Composite
	QL	***	***		***	***	***			
BOD, Carbonaceous 5 Day, 20oC January thru December	Effluent Gross Value	333 Monthly Average	500 Weekly Average	KG/DAY	*****	10 Monthly Average	15 Weekly Average	MG/L	1/Week	24 Hour Composite
	QL	***	***		***	***	***			
BOD, Carbonaceous 5 Day, 20oC January thru December	Percent Removal	*****	*****	*****	85 Monthly Av Minimum	*****	*****	PERCENT	1/Week	Calculated
	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:** 10/01/2024                      **PHASE End Date:**

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
IC25 Statre 7day Chr Ceriodaphnia	Effluent Gross Value	*****	*****	*****	48.5 Report Per Minimum	*****	*****	%EFFL	1/Year	Composite
	QL	***	***		***	***	***			
Temperature, oC	Raw Sew/influent	*****	*****	*****	REPORT Report Per Minimum	REPORT Monthly Average	REPORT Report Per Maximum	DEG.C	2/Day	Grab
	QL	***	***		***	***	***			
Temperature, oC	Effluent Gross Value	*****	*****	*****	REPORT Report Per Minimum	REPORT Monthly Average	REPORT Report Per Maximum	DEG.C	2/Day	Grab
	QL	***	***		***	***	***			
Oxygen, Dissolved (DO)	Effluent Gross Value	*****	*****	*****	6.0 Weekly Av Minimum	REPORT Daily Avg Minimum	*****	MG/L	1/Week	Grab
	QL	***	***		***	***	***			
Phosphorus, Total (as P)	Effluent Gross Value	REPORT Monthly Average	REPORT Weekly Average	KG/DAY	*****	REPORT Monthly Average	REPORT Weekly Average	MG/L	1/Month	24 Hour Composite
	QL	***	***		***	***	***			

**Surface Water WCR - Annual Reporting Requirements:**

Submit an Annual WCR: within twenty-five days after the end of every 12 month monitoring period beginning from the effective date of the permit (EDP).

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

PHASE: Final

PHASE Start Date: 10/01/2021

PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Manganese, Total Recoverable	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Arsenic, Total Recoverable (as As)	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Selenium, Total Recoverable	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Thallium, Total Recoverable	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Beryllium, Total Recoverable (as Be)	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Barium, Total Recoverable (as Ba)	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Nickel, Total Recoverable	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Silver, Total Recoverable	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Zinc, Total Recoverable	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Cadmium, Total Recoverable	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Lead, Total Recoverable	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Chromium, Total Recoverable	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Copper, Total Recoverable	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Antimony, Total Recoverable	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Mercury Total Recoverable	Effluent Gross Value	REPORT	UG/L	Grab	January thru December

**Surface Water WCR - Annual Reporting Requirements:**

Submit an Annual WCR: within twenty-five days after the end of every 12 month monitoring period beginning from the effective date of the permit (EDP).

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

PHASE: Final

PHASE Start Date: 10/01/2021

PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Acenaphthylene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Acenaphthene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Anthracene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Benzo(b)fluoranthene (3,4-benzo)	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Benzo(k)fluoranthene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Benzo(a)pyrene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Bis(2-chloroethyl) ether	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Bis(2-chloroethoxy) methane	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Bis (2-chloroiso- propyl) ether	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Butyl benzyl phthalate	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Chrysene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Diethyl phthalate	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Dimethyl phthalate	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
1,2-Diphenyl- hydrazine	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Fluoranthene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December

**Surface Water WCR - Annual Reporting Requirements:**

Submit an Annual WCR: within twenty-five days after the end of every 12 month monitoring period beginning from the effective date of the permit (EDP).

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

PHASE: Final

PHASE Start Date: 10/01/2021

PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Fluorene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Hexachlorocyclopentadiene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Hexachloroethane	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Indeno(1,2,3-cd)pyrene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Isophorone	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
N-nitrosodi-n-propylamine	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
N-nitrosodiphenylamine	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
N-nitrosodimethylamine	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Nitrobenzene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Phenanthrene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Pyrene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Benzo(ghi)perylene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Benzo(a)anthracene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
1,2-Dichlorobenzene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
1,2,4-Trichlorobenzene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December

**Surface Water WCR - Annual Reporting Requirements:**

Submit an Annual WCR: within twenty-five days after the end of every 12 month monitoring period beginning from the effective date of the permit (EDP).

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

PHASE: Final

PHASE Start Date: 10/01/2021

PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Dibenzo(a,h) anthracene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
1,3-Dichlorobenzene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
1,4-Dichlorobenzene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
2-Chloronaphthalene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Di-n-octyl Phthalate	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
2,4-Dinitrotoluene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
2,6-Dinitrotoluene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
3,3'-Dichloro-benzidine	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
4-Bromophenyl phenyl ether	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Naphthalene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Bis(2-ethylhexyl) phthalate	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Di-n-butyl phthalate	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Benzdine	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Malathion	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Demeton	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December

**Surface Water WCR - Annual Reporting Requirements:**

Submit an Annual WCR: within twenty-five days after the end of every 12 month monitoring period beginning from the effective date of the permit (EDP).

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

PHASE: Final

PHASE Start Date: 10/01/2021

PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Hexachlorobenzene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Hexachlorobutadiene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Mirex	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
1,3-Dichloropropene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
1,2,4,5-Tetrachloro-benzene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
N-nitrosodiethyl-amine	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
N-nitrosopyrrolidine	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Carbon Tetrachloride	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
1,2-Dichloroethane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Bromoform	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Chloroform	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Toluene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Benzene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Acrolein	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Acrylonitrile	Effluent Gross Value	REPORT	UG/L	Grab	January thru December

**Surface Water WCR - Annual Reporting Requirements:**

Submit an Annual WCR: within twenty-five days after the end of every 12 month monitoring period beginning from the effective date of the permit (EDP).

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

PHASE: Final

PHASE Start Date: 10/01/2021

PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Chlorobenzene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Chlorodibromomethane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Ethylbenzene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Methyl Bromide	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Methyl Chloride	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Methylene Chloride	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Tetrachloroethylene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Trichlorofluoro- methane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
1,1-Dichloroethane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
1,1-Dichloroethylene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
1,1,1-Trichloro- ethane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
1,1,2-Trichloro- ethane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
1,1,2,2-Tetrachloro- ethane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
1,2-Dichloropropane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
1,2-trans-Dichloro- ethylene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December

**Surface Water WCR - Annual Reporting Requirements:**

Submit an Annual WCR: within twenty-five days after the end of every 12 month monitoring period beginning from the effective date of the permit (EDP).

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

PHASE: Final

PHASE Start Date: 10/01/2021

PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
2-Chloroethyl Vinyl Ether (Mixed)	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Bromodichloromethane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Vinyl Chloride	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Trichloroethylene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Methoxychlor	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
N-Nitrosodi-n-butylamine	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Chloroethane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Cyanide, free	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Asbestos	Effluent Gross Value	REPORT	FIBERS/L	24 Hour Composite	January thru December
Parachloro-m-cresol	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Parathion	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
2,4,5-Trichloro-phenol	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Delta BHC, Total (ug/l)	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Endosulfan Sulfate	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Beta Endosulfan	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December

**Surface Water WCR - Annual Reporting Requirements:**

Submit an Annual WCR: within twenty-five days after the end of every 12 month monitoring period beginning from the effective date of the permit (EDP).

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

PHASE: Final

PHASE Start Date: 10/01/2021

PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Alpha Endosulfan	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Endrin Aldehyde	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
PCB-1016 (Arochlor 1016)	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
2,3,7,8-Tetrachloro- dibenzo-p-dioxin	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
4,4'-DDT(p,p'-DDT)	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
4,4'-DDD(p,p'-DDD)	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
4,4'-DDE(p,p'-DDE)	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Aldrin	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Alpha BHC	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Beta BHC	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Gamma BHC (lindane),	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Chlordane	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Dieldrin	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Endosulfans, Total (alpha and beta)	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Endrin	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December

**Surface Water WCR - Annual Reporting Requirements:**

Submit an Annual WCR: within twenty-five days after the end of every 12 month monitoring period beginning from the effective date of the permit (EDP).

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

PHASE: Final

PHASE Start Date: 10/01/2021

PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Toxaphene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Heptachlor	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Heptachlor Epoxide	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
PCB-1221 (Arochlor 1221)	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
PCB-1232 (Arochlor 1232)	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
PCB-1242 (Arochlor 1242)	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
PCB-1248 (Arochlor 1248)	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
PCB-1254 (Arochlor 1254)	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
PCB-1260 (Arochlor 1260)	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Polychlorinated Biphenyls (PCBs)	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Chlorpyrifos	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
2-Chlorophenol	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
2-Nitrophenol	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
2,4-Dichlorophenol	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
2,4-Dimethylphenol	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December

**Surface Water WCR - Annual Reporting Requirements:**

Submit an Annual WCR: within twenty-five days after the end of every 12 month monitoring period beginning from the effective date of the permit (EDP).

**Table III - A - 3: Surface Water WCR - Annual Limits and Monitoring Requirements****PHASE:** Final**PHASE Start Date:** 10/01/2021**PHASE End Date:**

<b>Parameter</b>	<b>Sample Point</b>	<b>Compliance Quantity</b>	<b>Units</b>	<b>Sample Type</b>	<b>Monitoring Period</b>
2,4-Dinitrophenol	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
2,4,6-Trichloro-phenol	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
4-Chlorophenyl phenyl ether	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
4-Nitrophenol	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
4,6-Dinitro-o-cresol	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Phenol Single Compound	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Pentachlorophenol	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Pentachlorobenzene	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December
Guthion	Effluent Gross Value	REPORT	UG/L	24 Hour Composite	January thru December

MONITORED LOCATION:

RWBR Beneficial Reuse SW

RECEIVING STREAM:

STREAM CLASSIFICATION:

DISCHARGE CATEGORY(IES):

A - Sanitary Wastewater

**Location Description**

Specific requirements for monitoring beneficial reuse can be found in Part IV. Approved public access sites can be found in Appendix B.

**Contributing Waste Types**

Sanitary

**Requirements have not been defined for this Monitored Location.**

## 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. When more than one test procedure is approved for the analysis of a pollutant or pollutant parameter, the test procedure must be sufficiently sensitive as defined at 40 CFR 136, 40 CFR 122.21(e)(3), and 40 CFR 122.44(i)(1)(iv).
- 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.
- j. Flow shall be measured using Flow Meter.

#### B. RECORDKEEPING

##### 1. Standard Recordkeeping Requirements

- 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 and 3) all data used to complete the application for a NJPDES permit, for a period of at least 5 years from the date of the sample, measurement, report, application or record.

## Sanitary Wastewater

- 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. SUBMITTALS

#### 1. Standard Submittal Requirements

- a. The permittee shall prepare an 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. Compliance Schedule Progress Reports

- a. In accordance with N.J.A.C. 7:14A-6.4(a), a schedule of compliance has been included for Nitrate, including interim deadlines for annual progress reports that outline the progress towards compliance with the conditions of the permit.
  - i. Submit a Compliance Schedule Progress Report within 12 months from the effective date of the permit (EDP).
  - ii. Submit a Compliance Schedule Progress Report within 24 months from the effective date of the permit (EDP).
- b. The compliance schedule progress report(s) shall be submitted to the following Departmental entities:
  - i. NJDEP: Division of Water Quality  
Mail Code - 401-02B  
Bureau of Surface Water and Pretreatment Permitting  
P.O. Box 420  
Trenton, New Jersey 08625-0420.
  - ii. NJDEP: Northern Bureau of Water Compliance and Enforcement  
7 Ridgedale Avenue  
Cedar Knolls, New Jersey 07927-1112

### D. 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. The permittee shall comply with the following Capacity Assurance Program (CAP) requirements:
  - i. The permittee shall ensure compliance with the CAP regulations and upon triggering the action level in Part III, the permittee is required to initiate the requirements of N.J.A.C. 7:14A-22.16.
  - ii. For the calculation of the parameter "CAP Threshold" in Part III of the permit, the permittee shall use the permitted flow of 8.8 MGD and the 12-month rolling average flow calculated for the parameter of "Flow, In Conduit or Thru Treatment Plant" in the calculation of the percentage of the permitted flow for the month. This percentage shall be reported as the CAP Threshold percentage.
  - iii. For more information concerning the CAP, please contact the Bureau of Environmental, Engineering and Permitting at (609) 984-4429.

## **2. Applicability of Discharge Limitations and Effective Dates**

- a. Surface Water Discharge Monitoring Report (DMR) Form Requirements
  - i. This permit includes multiple phases for DSN001A.  
The initial limitation and monitoring conditions are effective from the effective date of the permit (EDP) until EDP + 36 months. Final limitation and monitoring conditions become effective on EDP + 37 months.
- 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. 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.

## **5. 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 B 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.

## 6. RWBR Requirements for Public Access

- a. The Public Access reuse types authorized by this permit are those approved in Appendix B. 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 (NO<sub>3</sub> + NH<sub>3</sub>): 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. Ultraviolet Disinfection: If the permittee disinfects utilizing UV disinfection, a minimum design UV dose of 100 mJ/cm<sup>2</sup> 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.
- 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, taken in accordance with Part III, 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 (NO<sub>3</sub> + NH<sub>3</sub>) shall be a composite sample, taken in accordance with Part III, at least once per week taken prior to RWBR diversion. Total Nitrogen (NO<sub>3</sub> + NH<sub>3</sub>) 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 ultraviolet disinfection is used, the lowest sampling results obtained during the reporting month shall be reported for lamp intensity and UV transmittance.

#### **7. 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 B. 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 (NO<sub>3</sub> + NH<sub>3</sub>): Daily maximum of 10 mg/L. Frequency of sampling for Total Nitrogen shall be at minimum monthly. The sample shall be collected as a composite sample taken prior to diversion for RWBR. Nitrogen, Total (NO<sub>3</sub> + NH<sub>3</sub>) 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. E. Coli 126 colonies per 100 mL as a geometric mean. Frequency of sampling for E. Coli shall be in accordance with Part III of this permit. The sample shall be collected as a grab sample taken immediately after disinfection.
- f. Ultraviolet Disinfection: For UV disinfection, a minimum design UV dose of 75 mJ/cm<sup>2</sup> 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.
- g. 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.

#### **8. 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 B. Other Restricted Access--Construction and Maintenance Operations reuse types may be added by minor modification of this permit.
- b. E. Coli: 126 colonies per 100 mL as a geometric mean. Frequency of sampling for E. Coli shall be in accordance with Part III of this permit. The sample shall be collected as a grab sample taken immediately after disinfection. This requirement does not apply to sanitary sewer jetting.

#### **9. RWBR Requirements for Restricted Access--Industrial Systems**

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

#### **10. RWBR Submittal Requirements**

- a. For all types of Restricted Access RWBR, the permittee shall submit and receive approval of a Standard Operations Procedure or modify an existing Standard Operations Procedure 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 type of RWBR activity. A copy of the approved Standard Operations Procedure shall be maintained onsite. Specific requirements for the Standard Operations Procedure are identified in the Reuse Technical Manual. This requirement does not apply to sanitary sewer jetting and STP washdown water.
- 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).
- 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 any type 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, Mail Code 401-02B, Bureau of Surface Water & Pretreatment Permitting, P.O. Box 420, Trenton, New Jersey 08625-0420.

#### **11. 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 or Standard Operations Procedure, as applicable, 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.

## **12. Toxicity Testing Requirements - Chronic 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. Chronic toxicity tests shall be conducted using the test species and method identified in Part III of this permit.
- c. Any test that does not meet the specifications contained in the Department's "Chronic Toxicity Testing Specifications for Use in the NJPDES Program" document 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.
- d. 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.
- e. IC25 - Inhibition Concentration - Concentration of effluent which has an inhibitory effect on 25% of the test organisms for the monitored effect, as compared to the control (expressed as percent effluent).
- f. Test results shall be expressed as the IC25 for each test endpoint. Where a chronic toxicity testing endpoint yields IC25's from more than one test endpoint, the most sensitive endpoint will be used to evaluate effluent toxicity.
- g. The permittee shall resubmit a Chronic Methodology Questionnaire within 60 days of any change in laboratory.
- h. Submit a chronic whole effluent toxicity test report within twenty-five days after the end of every annual monitoring period beginning from the effective date of the permit (EDP).
- i. Test reports shall be submitted to:
  - i. [biomonitoring@dep.nj.gov](mailto:biomonitoring@dep.nj.gov)

## **13. 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 monthly. 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 third exceedence of the toxicity limit or action level specified in Part III during 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  
Mail Code 401-02B  
Division of Water Quality  
Bureau of Surface Water & Pretreatment Permitting  
401 East State Street  
P.O. Box 420  
Trenton, New Jersey 08625-0420.

## **E. 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 i 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. The permittee shall submit updates to its Local Sewer Use Ordinance within 30 days of modification.
- b. The permittee shall prepare a Pretreatment Program Report which consists of a listing of all indirect users which meet the significant indirect user definition in N.J.A.C. 7:14A-1.2. The permittee may also include potential significant indirect users or if the permittee cannot make determination if an indirect user is a significant indirect user. The report shall include the name, address, and type of business for each facility. The report shall be on the form provided by the Department. The form is available on the Department's web site at <http://www.nj.gov/dep/dwq/pdf/non-dla-pt-annual-report-form.pdf>
- c. Submit the Annual Pretreatment Program Report annually beginning on EDP + 1 year.
- d. The reports shall be submitted to: NJDEP, Mail Code - 401-02B, Bureau of Surface Water & Pretreatment Permitting, 401 East State Street, P. O. Box 420, Trenton, NJ. 08625-0420.

## **F. 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 a sufficiently sensitive quantification level as defined at 40 CFR 136, 40 CFR 122.21(e)(3), and 40 CFR 122.44(i)(1)(iv).

**2. Causes for modification**

- a. 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.
- b. 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.

PINE BROOK STP, Manalapan

Permit No.NJ0023728  
DSW190001 Surface Water Renewal Permit Action

**APPENDIX A:**

**CHRONIC TOXICITY TESTING SPECIFICATIONS  
FOR USE IN THE NJPDES PERMIT PROGRAM**

**Version 3.0**

**May 2017**

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*Notice: Mention of trade names or commercial products do not constitute endorsement or recommendation for use.*

## I. AUTHORITY AND PURPOSE

These methods specifications for the conduct of whole effluent chronic toxicity testing are established under the authority of the NJPDES permitting program, N.J.A.C. 7:14A-6.5(a)2 and 40 CFR 136, for discharges to waters of the State. The methods referenced herein are included by reference in 40 CFR 136, Table 1.A. and, therefore, constitute approved methods for chronic toxicity testing. The information contained herein serves to clarify testing requirements and outline and implement the interlaboratory Standard Reference Toxicant Program until specific chronic requirements are incorporated into the laboratory certification regulations under N.J.A.C. 7:18. As such these methods are intended to be used to determine compliance with discharge permits issued under the authority of the NJPDES permit program. Tests are to be conducted in accordance with the general conditions and method specifications (test organism specific) contained in this document. All other conditions and specifications can be found in 40 CFR 136 and USEPA methodologies.

Until a subchapter on chronic toxicity testing within the regulations governing the certification of laboratories and environmental measurements (N.J.A.C. 7:18) becomes effective, tests shall be conducted in conformance with the methodologies as designated herein and contained in 40 CFR 136. The laboratory performing the testing shall possess certification for the applicable chronic methodologies incorporated by reference through the laboratory certification program established under N.J.A.C. 7:18, as required by N.J.A.C. 7:9B-1.5(c)5.

These methods are incorporated into discharge permits as enforceable permit conditions. Each discharge permit will specify in Parts III&IV of the permit, the test species specific methods from this document that will be required under the terms of the discharge permit. Although the test species specific methods for each permit are determined on a case-by-case basis, the purpose of this methods document is to assure consistency among dischargers and to provide certified laboratories with information on the universe of tests to be utilized so that they can make the necessary preparations, including completing the required Standard Reference Toxicant testing. Please note that these methodologies are required for compliance testing only. Facilities and/or laboratories conducting testing under the requirements of a Toxicity Identification Evaluation or for informational purposes are not bound by these methods.

This document constitutes the fifth version of the NJDEP's interim chronic methodologies. This version contains no significant changes to the test methods themselves.

## II. GENERAL CONDITIONS

### A. LABORATORY SAFETY, GLASSWARE, ETC.

All safety procedures, glassware cleaning procedures, etc., shall be in conformance with 40 CFR 136 and USEPA's "Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms," "Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms" and N.J.A.C. 7:18.

### B. TEST CONCENTRATIONS / REPLICATES

All testing is to be performed with a minimum of five effluent concentrations plus a dilution water control. A second reference water control is optional when a dilution water other than culture water is used. The use of both a 0.5 or 0.75 dilution factor is acceptable for the selection of test concentrations. The Department recommends the use of the 5 standard dilutions plus a dilution water control to cover the entire range of effluent test concentrations e.g. 0%, 6.25%, 12.5%, 25%, 50%, 100%.

The number of replicates used in the test must, at a minimum, satisfy the specifications of the applicable methods contained herein. Increased data sensitivity can be obtained by increasing the number of replicates equally among test concentrations and thus an increased number of replicates is acceptable. Further, the use of nonparametric statistical analysis requires a minimum of four replicates per test concentration. If the data for any particular test is not conducive to parametric analyses and if less than four replicates were included, the test may not be considered acceptable for compliance purposes.

The use of single concentration tests consisting of the permit limitation as a concentration and a control is not permitted for compliance purposes, but may be used by a permittee in the conduct of a Toxicity Investigation Evaluation (TIE) or for information gathering purposes. Such a test would be considered a "pass" if there was no significant difference in test results, using hypothesis testing methods.

### C. DILUTION WATER

#### 1. Marine and Estuarine Waters

A high quality natural water, such as the Manasquan River Inlet is strongly recommended as the dilution water source for chronic toxicity testing with marine and estuarine organisms. The use of the receiving water as the dilution water source is not required. Saline waters prepared with hypersaline brine and deionized water may also be used as dilution water. Hypersaline brines shall be prepared from a high quality natural seawater and shall not exceed a concentration of 100 ppt. The type of dilution water for a permittee may not be changed without the prior approval of the Department.

The standard test salinity shall be 25 ppt. Since most effluents are freshwater based, in most cases it will be necessary to adjust the salinity of the test concentrations to the standard test salinity.

#### 2. Fresh Waters

A high quality natural water, such as Round Valley Reservoir (if access is allowed) or Lake Hopatcong, is recommended as the dilution water source for chronic toxicity testing with freshwater organisms. It is not required to perform the toxicity testing with the receiving water as dilution water. Tests performed with reconstituted water or up to 20% Diluted Mineral Water (DMW) as dilution water is acceptable. For testing with *Ceriodaphnia dubia*, the addition of 5 µg/l selenium (2 µg/l selenium with natural water) and 1 µg/l vitamin B12 is recommended (Keating and Dagbusan, 1984; Keating, 1985 and 1988). The source of a dilution water for a permittee may not be changed without the prior approval of the Department through the completion of a Whole

Effluent toxicity testing methodology questionnaire. Reconstituted water and DMW should be prepared with Millipore Super Q<sup>R</sup> or equivalent, meet the requirements of N.J.A.C. 7:18-6 and should be aerated a minimum of 24 hrs prior to use, but not supersaturated.

#### **D. EFFLUENT SAMPLE COLLECTION**

Effluent samples shall be representative of the discharge being regulated. For each discharge serial number (DSN), the effluent sampling location shall be the same as that specified in the NJPDES permit for other sampling parameters unless an alternate sampling point is specified in the NJPDES discharge permit. For continuous discharges, effluent sampling shall consist of 24 hour composite samples consisting either of equal volumes taken once every hour or of a flow-proportionate composite sample, unless otherwise approved by the Department. Unless otherwise specified, three samples shall be collected as specified above, preferably one every other day. The first sample should be used for test initiation and the first renewal. The second sample for the next two renewals. The third sample should be used for the final three renewals. For the *Selenastrum* test, a single sample shall be collected not more than 24 hours prior to test initiation. In no case, shall more than 36 hours' elapse between collection and first use of the sample. It is acceptable to collect samples more frequently for chronic WET testing and if samples are collected daily for acute toxicity testing conducted concurrently, available samples may be used to renew the test solutions as appropriate.

For all other types of discharges, effluent sampling shall be conducted according to specifications contained within the discharge permit, methodology questionnaire, or as otherwise specified by the Department. The use of grab samples or other special sampling procedures may be approved by the Department based on time of occurrence and duration of intermittent discharge events.

If a municipal discharger has concerns that the concentrations of ammonia and/or chlorine in an effluent are adequate to cause violations of the permit limit for chronic toxicity testing, the permittee should conduct analyses, as specified in USEPA's toxicity investigation methods documents, to illustrate the relationship between chronic effluent toxicity and chlorine and/or ammonia as applicable. This data may then be submitted to the Department as justification for a request to use modified test procedures, which account for ammonia and/or chlorine toxicity, in future chronic toxicity tests. The Department may, where adequate justification exists, permit the adjustment of these pollutants in the effluent sample if discharge limits for these pollutants are contained in the NJPDES permit and those permit limitations are adequate for the protection of water quality. Any proposed modified test procedures to adjust effluent chlorine and/or ammonia shall be approved by the Department prior to use of those test procedures for any compliance testing.

Except for filtration through a 2 mm or larger screen or an adjustment to the standard test salinity, no other adjustments to the effluent sample shall be made without prior written approval by the Department. When a laboratory adjusts a freshwater effluent salinity and the pH of the test concentration changes more than 0.5 pH units from the initial pH, the laboratory shall readjust the pH of the test concentration to within 0.5 pH units of the original test concentration. Aeration of samples prior to test start shall be minimized where possible and samples shall not be aerated where adequate saturation exists to maintain dissolved oxygen.

#### **E. PHYSICAL CHEMICAL MEASUREMENTS**

At a minimum, the physical chemical measurements shall be as follows unless more stringent criteria is required by the method:

- pH and dissolved oxygen shall be measured at the beginning and end of each 24 hour exposure period, in at least one chamber, of each test concentration and the control. In order to ensure that measurements for these parameters are representative of the test concentrations during the test, measurements for these parameters should be taken in an additional replicate chamber for such concentrations which contains no test organisms, but is subject to the same test conditions.

- Temperature shall either be monitored continuously, measured daily in at least two locations in the environmental control system, or measured at the beginning and end of each 24 hr exposure period in at least one replicate for each treatment.
- Salinity shall be measured in all salt water tests at the beginning and end of each 24 hour exposure period, in at least one replicate for each treatment.
- For all freshwater tests, alkalinity, hardness and conductivity shall be measured in each new sample (100% effluent) and control.
- When natural salt water is used; nitrite, nitrate, and ammonia shall be measured in the control before each renewal in the mysid test only.
- For samples of discharges where concentrations of ammonia and/or chlorine are known or are suspected to be sufficient to cause toxicity, it is recommended that the concentrations of these pollutants be determined and submitted with the standardized report form. The laboratory is advised to consult with the permittee to determine if these parameters should be measured in the effluent. Where such measurements are deemed appropriate, measurements shall be conducted at the beginning of each 24 hour exposure period. Also, since a rise in the test pH can affect the toxicity of ammonia in the effluent, analysis of ammonia during the test may be appropriate if a rise in pH is accompanied by a significant increase in mortality.

## F. STATISTICS

Special attention should be given to the omission and inclusion of a given replicate in the analysis of mysid fecundity data (USEPA 1994, p. 275) and *Ceriodaphnia* reproduction data (USEPA 1994, page 174).

Determination of acceptability criteria and average individual dry weight for the growth endpoints must follow the specifications in the applicable documents (e.g., p.84 for saltwater methods document.)

Use of nonparametric statistical analyses requires a minimum of four replicates per test concentration. If the data for any particular test are not conducive to parametric analyses and if less than four replicates were included, the test may not be acceptable to the Department.

For point estimate techniques, statistical analysis must follow the protocol contained in the approved testing method. The linear interpolation estimate IC<sub>p</sub> values and not the bootstrap mean IC<sub>p</sub>, shall be reported for permit compliance purposes. The IC<sub>p</sub> value reported on the Discharge Monitoring Report shall be rounded off as specified in the Department's "NJPDES Monitoring Report Form Reference Manual", updated December 2007, and available on the web at [http://www.state.nj.us/dep/dwq/pdf/MRF\\_Manual.pdf](http://www.state.nj.us/dep/dwq/pdf/MRF_Manual.pdf) for further information.

If the result reported by the IC<sub>p</sub> method is greater than 100% effluent, the test result is reported as ">100%"

If separate IC<sub>25</sub>'s can be calculated from multiple test endpoints, for example a reproductive and/or growth endpoint and a survival endpoint, the lowest IC<sub>25</sub> value expressed in units of "% effluent" will be used to determine permit compliance and should, therefore, be reported as the IC<sub>25</sub> value for the test. If the IC<sub>25</sub> value for growth and/or reproduction is not lower than that for survival, the IC<sub>25</sub> value reported for the test shall be as survival. For saltwater tests, where additional controls are used in a test (i.e. brine and/or artificial sea salt control), a T-test shall be used to determine if there is a significant difference between the original test control and the additional controls. If there is a significant difference between any of the controls, the test may be deemed unacceptable and if so, will not be used for permit compliance.

### III. TEST ACCEPTABILITY CRITERIA

Any test that does not meet the test acceptability criteria of the chronic toxicity method will not be used by the Department for any purpose and must be repeated as soon as practicable, with freshly collected samples.

1. Tests must be performed by a laboratory approved for the conduct of chronic toxicity tests and certified for chronic toxicity testing under N.J.A.C. 7:18.
2. Test results may be rejected due to inappropriate sampling, including the use of less than three effluent samples in a test and/or use of procedures not specified in a permit or methodology questionnaire, use of frozen samples, not refrigerating samples upon collection, or unapproved pretreatment of an effluent sample.
3. Controls shall meet, at a minimum, the applicable performance criteria specified in the Table 2.0 and in the individual method specifications contained herein.
4. Acceptable and applicable Standard Reference Toxicant Data must be available for the test.
5. No unapproved deviations from the applicable test methodology may be present.
6. When using hypothesis testing techniques, a deviation from the dose response as explained in the statistical portion of this document shall not be present in the data.
7. If more stringent criteria are required within the chronic toxicity test method or rule, the more stringent criteria must be met.

Table 2.0:

#### CONTROL PERFORMANCE

TEST ORGANISM	MINIMUM SURVIVAL	MINIMUM WEIGHT GAIN	MINIMUM FECUNDITY/ REPRODUCTION
<i>Pimephales promelas</i>	80%	0.25 mg avg	N/A
<i>Ceriodaphnia dubia</i>	80%	N/A	Average of $\geq 15$ young per surviving female
<i>Selenastrum capricornutum</i>	Density $\geq 2 \times 10^5$ cells/ml	N/A	Variability in controls not to exceed 20%.
<i>Cyprinodon variegatus</i>	80%	0.60 mg (unpreserved) avg 0.50 mg (preserved) avg	N/A
<i>Menidia beryllina</i>	80%	0.50 mg (unpreserved) avg 0.43 mg (preserved) avg	N/A
<i>Mysidopsis bahia</i>	80%	0.20 mg per mysid avg	egg production by 50% of control females if fecundity is used as an endpoint.

THE DETERMINATION OF A TEST AS UNACCEPTABLE DOES NOT RELIEVE THE FACILITY FROM MONITORING FOR THAT MONITORING PERIOD

## **IV. STANDARD REFERENCE TOXICANT TESTING**

All chronic testing shall be accompanied by testing with a Standard Reference Toxicant (SRT) as a part of each laboratory's internal quality control program. Such a testing program must be consistent with the quality assurance/quality control protocols described in the USEPA chronic testing manuals. Laboratories may utilize the reference toxicant of their choice and toxicants such as cadmium chloride, potassium chloride, sodium dodecyl sulfate and copper sulfate are all acceptable. However, Potassium chloride has been chosen by several laboratories and is recommended by the Department. The concentration of the reference toxicant shall be verified by chemical analysis in the low and high test concentrations once each year or every 12 tests, whichever is less. It is not necessary to run SRT tests, for all species using the same SRT.

### **A. INITIAL STANDARD REFERENCE TOXICANT (SRT) TESTING REQUIREMENTS**

At a minimum, this testing shall include an initial series of at least five SRT tests for each test species method. Acceptable SRT testing for chronic toxicity shall be performed utilizing the short term chronic toxicity test methods as specified herein. Reference toxicant tests utilizing acute toxicity testing methods, or any method other than those contained in this document are not acceptable. The laboratory should forward results of the initial SRT testing, including control charts, the name of the reference toxicant utilized, the supplier and appropriate chemical analysis of the toxicant to the Department's laboratory certification program prior to obtaining certification for chronic toxicity testing. Certification for the applicable chronic toxicity method must be obtained prior to the conduct of any chronic toxicity testing for compliance purposes.

### **B. SUBSEQUENT SRT TESTING REQUIREMENTS**

After receiving the initial approval from the Department to conduct chronic toxicity tests for compliance purposes, subsequent SRT testing shall be conducted as follows:

1. Where organisms used in testing are cultured at the testing laboratory, SRT testing must be conducted at least once per month for each species/method.
2. Where the laboratory purchases organisms for the conduct of chronic toxicity testing for the test organism in question, the testing laboratory must conduct a concurrent SRT per lot of organisms, unless the supplier provides at least the most recent five monthly SRT's using the same toxicant and control conditions. SRT data provided by the supplier for each lot of organisms purchased is acceptable as long as the SRT test result falls within the control limits of the control chart established by the supplier for that organism. The laboratory using purchased organisms is responsible for the results of any compliance tests they perform.
3. A testing laboratory purchasing organisms from a supplier laboratory must still perform SRT testing on a monthly basis at a minimum, for each species they test with, in order to adequately document their own interlaboratory precision.
4. If a testing laboratory purchasing organisms elects not to use the SRT data from a "supplier laboratory" or such data is unavailable or where organisms are purchased from another organism supplier, the testing laboratory must conduct SRT testing on each lot of organisms purchased.
5. If a testing laboratory conducts testing for a species/method less frequently than monthly, then an SRT shall be run concurrent with the toxicity test.

NOTE: Based on these requirements, SRT data are considered applicable to a compliance test when the SRT test results are acceptable and the SRT test is conducted within 30 days of the compliance test, for the test species and SRT in question. Therefore, it is not necessary for an approved laboratory to run an SRT test every month if the laboratory is not conducting compliance tests for a particular species.

### **C. CHANGING OF AN ESTABLISHED REFERENCE TOXICANT**

The SRT used for any species by a laboratory may be changed at any time provided that the following conditions have been satisfied:

1. A series of at least three reference toxicant tests are conducted with the new reference toxicant and the results of those tests are identified as satisfactory, in writing, by the Department.
2. Laboratories must continue using the already approved SRT in their ongoing QA/QC program, until such time as the letter referenced above, is received by the laboratory.

### **D. CONTROL CHARTS**

Control charts shall be established from SRT test results in accordance with the procedures outlined in the USEPA methods documents. Control charts shall be constructed using IC25's using the following methods:

1. The upper and lower control limits shall be calculated by determining +/- two standard deviations above and below the mean.
2. SRT test results which exhibit an IC25 that is greater than the highest concentration tested or less than the lowest concentration tested (i.e. a definitive endpoint cannot be determined), shall not be used to establish control charts.
3. SRT tests which do not meet the acceptability criteria for a specific species shall not be used to establish control charts.
4. All values used in the control charts should be as nominal concentrations. However, the control charts shall be accompanied by a chart tabulating the test results as measured concentrations.
5. An outlier (i.e. values which fall outside the upper and lower control limits) should be included on the control chart unless it is determined that the outlier was caused by factors not directly related to the test organisms (e.g., test concentration preparation) as the source of variability would not be directly applicable to effluent tests. In such case, the result and explanation shall be reported to the Department within 30 days of the completion of the SRT test.

The control chart established for the initial series of SRT data submitted will be used by the laboratory and the Department to determine outliers from SRT test results reported in the "NJPDES Biomonitoring Report Form - Chronic Toxicity Test" submitted by the permittees for the test species. These initial control limits will remain unchanged until twenty SRT tests have been completed by the laboratory.

The following procedures shall be used for continually updating control charts after twenty acceptable SRT tests have been completed:

1. Once a laboratory has completed twenty acceptable SRT tests for a test species, the upper and lower control limits shall be recalculated with those twenty values.
2. For each successive SRT test conducted after these first twenty tests, a moving average shall be calculated and the control limits reevaluated using the last twenty consecutive test results.
3. The upper and lower control limits shall be reported on the "NJPDES Biomonitoring Report Form - Chronic Toxicity Tests" along with the SRT test result.

#### **E. UNACCEPTABLE SRT TEST RESULTS**

If a laboratory produces any SRT test results which are outside the established upper and lower control limits for a test species at a frequency greater than one test in any twenty tests, the laboratory shall investigate sources of variability, take corrective actions to reduce identified sources of variability, and perform an additional SRT during the same month. The Department may not accept or may require repeat testing for any toxicity testing that may have been affected by such an occurrence.

If a laboratory produces two consecutive SRT test results or three out of any twenty test results which are outside the established upper and lower limits for a specific test species, the laboratory shall cease to conduct chronic toxicity tests for compliance purposes for that test species until the reason(s) for the outliers have been resolved. Approval to resume testing may be contingent upon the laboratory producing SRT test results within the established upper and lower control limits for that test species in two consecutive SRT tests. If one or both of those test results again fall outside the established control levels, the laboratory is unapproved for that test species until five consecutive test results within the established upper and lower control limits are submitted and approved by the Department.

#### **F. ANNUAL SUBMITTALS**

The Department may request, at any time, any information which is essential in the evaluation of SRT results and/or compliance data.

## V. TEST CANCELLATION / RESCHEDULING EVENTS

A lab may become aware of QA problems during or immediately following a test that will prevent data from being submitted or a lab may be unable to complete a tests due to sample collection or shipping problems. If for any reason a chronic toxicity test is initiated and then prematurely ended by the laboratory the laboratory shall submit the form entitled "Chronic Whole Effluent Toxicity Testing Test Cancellation / Rescheduling Event Form" contained herein. This form shall be used to detail the reason for prematurely ending the test. This completed form and any applicable raw data sheets shall be submitted to the biomonitoring program at the address below within 30 days of the cessation of the test.

Tests are considered to be initiated once test organisms have been added to all test chambers.

Submission of this form does not relieve the facility from monitoring for that monitoring period.

## VI. REPORTING

The report form entitled "NJPDES Biomonitoring Report Form - Chronic Toxicity Tests" should be used to report the results of all NJPDES chronic compliance biomonitoring tests. Laboratory facsimiles are acceptable but must contain all information included on any recent revisions of the form by the Department. Statistical printouts and raw data sheets (including chain of custody documents) for all endpoints analyzed shall be included with the report submitted to the Department. All chronic toxicity test report forms shall be submitted to the following email addresses as applicable:

[biomonitoring@dep.nj.gov](mailto:biomonitoring@dep.nj.gov)

[Toxicity@drbc.gov](mailto:Toxicity@drbc.gov)

In addition, the results of all chronic toxicity tests conducted must be reported on the DMR form under the appropriate parameter code in the monitoring period in which the test was conducted.

## VII. METHOD SPECIFICATIONS

The following method specifications shall be followed as specified in the NJPDES permit. Any changes to these methods will not be considered acceptable unless they are approved in writing by the Department, prior to their use.

- A. Fathead Minnow (*Pimephales promelas*), Larval Survival and Growth Test, method 1000.0
- B. *Ceriodaphnia dubia*, Survival and Reproduction Test, method 1002.0
- C. Algal, (*Selenastrum capricornutum*), Growth Test, method 1003.0
- D. Sheepshead Minnow (*Cyprinodon variegatus*), Larval Survival and Growth Test, method 1005.0
- E. Inland Silverside (*Menidia beryllina*), Larval Survival and Growth Test, method 1006.0
- F. *Mysidopsis bahia*, Survival, Growth, and Fecundity Test, method 1007.0

## VIII. REFERENCES

1. NJPDES Monitoring Report Form Reference Manual October 2007  
[http://www.state.nj.us/dep/dwq/pdf/MRF\\_Manual.pdf](http://www.state.nj.us/dep/dwq/pdf/MRF_Manual.pdf)

2. USEPA. 2002. Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms. EPA-821-R-02-014. October 2002. Third Edition.
3. USEPA. 2002. Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms. EPA-821-R-02-013. October 2002. Fourth Edition.

**CHRONIC WHOLE EFFLUENT TOXICITY TESTING  
TEST CANCELLATION / RESCHEDULING EVENT FORM**

**THIS FORM IS TO BE COMPLETED AND SUBMITTED TO THE DEPARTMENT DIRECTLY BY THE LABORATORY CONDUCTING CHRONIC TOXICITY TESTS WHENEVER A CHRONIC TOXICITY TEST IS PREMATURELY ENDED FOR ANY REASON**

NJPDES No.: \_\_\_\_\_

FACILITY NAME: \_\_\_\_\_

LOCATION: \_\_\_\_\_

CONTACT: \_\_\_\_\_ PHONE: \_\_\_\_\_

**CANCELLATION EVENT:**

LABORATORY NAME / NUMBER: \_\_\_\_\_

CONTACT: \_\_\_\_\_

TEST START DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

TEST END DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

REASON FOR CANCELLATION: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

When is retest scheduled to be performed?

**EFFLUENT SAMPLING:**

SAMPLING POINT / DESCRIPTION OF SAMPLING SITE: \_\_\_\_\_

SAMPLING INITIATED: DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_ TIME: \_\_\_\_\_

SAMPLING ENDED: DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_ TIME: \_\_\_\_\_

NUMBER OF EFFLUENT SAMPLES COLLECTED: \_\_\_\_\_

SAMPLE TYPE (GRAB/COMPOSITE): \_\_\_\_\_

RECEIVED IN LAB BY/FROM: \_\_\_\_\_

\_\_\_\_\_

METHOD OF SHIPMENT: \_\_\_\_\_

(ALL APPLICABLE RAW DATA SHEETS MUST BE ATTACHED)

c: Permittees authorized agent.

Masterfile #: 12911

PI #: 47082

### 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	MUA Sewer Service Area	Approved
RA-IS	Non-Contact Cooling Water	None	Not Approved
RA-IS	Boiler Makeup Water	None	Not Approved
RA-IS	Road Milling	None	Not Approved
RA-IS	Hydrostatic Testing	None	Not Approved
RA-IS	Parts Washing	None	Not Approved
RA-IS	STP Washdown	Western Monmouth 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 - 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:  

$$\%R = R/(R+D), \text{ expressed as a percent;}$$
%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)
	<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  
And Pretreatment Permitting  
P.O. Box 420  
Trenton, NJ 08625-0420

For electronic copies:  
[ramanathan.asokan@dep.nj.gov](mailto:ramanathan.asokan@dep.nj.gov)

# Appendix B

Residuals Permit NJG0198404



## State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

MAIL CODE 401-02B

DIVISION OF WATER QUALITY

BUREAU OF GROUND WATER, RESIDUALS, AND PERMIT ADMINISTRATION

401 E. STATE STREET, P.O. BOX 420

TRENTON, NJ 08625-0420

[www.state.nj.us/dep/dwq](http://www.state.nj.us/dep/dwq)

PHILIP D. MURPHY

*Governor*

SHEILA Y. OLIVER

*Lt. Governor*

SHAWN M. LATOURETTE

*Commissioner*

July 30, 2021

**VIA EMAIL TO:** [bvalentino@wmua.manalapan.nj.us](mailto:bvalentino@wmua.manalapan.nj.us)

Mr. Brian Valentino  
Western Monmouth Utilities Authority  
103 Pension Road  
Manalapan, NJ 07726

Re: Residual General Permit Authorization Renewal  
Cat: S4G -Sludge Quality Category 4 (GP)  
NJPDES Permit No.: NJG0198404, Program Interest No.: 47082  
Pine Brook Sewage Treatment Plant  
Manalapan Township, Monmouth County

Dear Mr. Valentino:

Enclosed is New Jersey Pollutant Discharge Elimination System (NJPDES) Authorization to Discharge No. NJG0198404 (Category S4G -Sludge Quality Category 4 (GP)) issued under the authority of Residual NJPDES General Permit No. NJ0194921. Permit conditions are described herein and the General Permit is available for viewing at [www.state.nj.us/dep/dwq/gp\\_residuals.htm](http://www.state.nj.us/dep/dwq/gp_residuals.htm).

A copy of this Authorization should be located at the regulated facility at all times and be available for inspection by any authorized representative of the Department. If you have designated an agent, you must notify them about this General Permit Authorization and its requirements.

Please submit a completed Form R so that we have an up-to-date version for our records. In addition to being an application form for authorization under the S4G, this form meets the requirements of the Sludge Quality Assurance Regulations (N.J.A.C. 7:14C-1.6(c)) to maintain on-file and submit to the Department a sludge sampling plan.

If you have any questions or comments regarding the above referenced action, please contact Susanne Hoffman by telephone at (609) 984-4428 or [Susanne.Hoffman@dep.nj.gov](mailto:Susanne.Hoffman@dep.nj.gov).

Sincerely,

Patrick R. Brown, Environmental Specialist 3  
Residuals Unit  
Bureau of Ground Water, Residuals, and Permit Administration

c: [jcarr@wmua.manalapan.nj.us](mailto:jcarr@wmua.manalapan.nj.us)  
[dmartindell@wmua.manalapan.nj.us](mailto:dmartindell@wmua.manalapan.nj.us)  
[cweber@wmua.manalapan.nj.us](mailto:cweber@wmua.manalapan.nj.us)  
[tvanelt@wmua.manalapan.nj.us](mailto:tvanelt@wmua.manalapan.nj.us)

Gpcv\_res.doc



Mail Code 401-02B  
Bureau of Ground Water, Residuals, and Permit Administration  
401 E. State Street, P.O. Box 420  
Trenton, NJ 08625-0420  
(609) 984-4428

AUTHORIZATION TO DISCHARGE  
S4G -Sludge Quality Category 4 (GP)

**Facility Name:** Pine Brook STP

**Permit Number:** NJG0198404

**Program Interest No.:** 47082

**Facility Address:**

103 Pension Road  
Manalapan, NJ 07726-0390

**Type of Activity:** Residual General Permit Authorization Renewal

**Owner:**

Western Monmouth Utilities Authority  
103 Pension Road  
Manalapan Twp, NJ 07726

**Operating Entity:**

Western Monmouth Utilities Authority  
103 Pension Road  
Manalapan, NJ 07726

**Issuance Date:**

07/30/2021

**Effective Date:**

01/01/2022

**Expiration Date:**

12/31/2026

Your Request for Authorization under NJPDES General Permit No. NJ0194921 has been approved by the New Jersey Department of Environmental Protection.

This Authorization to Discharge implements the provisions of the Sludge Quality Assurance Regulations (N.J.A.C. 7:14C) for residual quality and quantity monitoring as well as other general conditions required by N.J.A.C. 7:14A-6 for Domestic Treatment Works that have a permitted flow greater than or equal to 5.0 MGD.

A handwritten signature in black ink, appearing to read "Patrick R. Brown".

**Date:** 07/30/2021

**Patrick R. Brown, Environmental Specialist 3**

Bureau of Ground Water, Residuals, and Permit Administration

(Terms, conditions and provisions attached hereto)

## 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(e) & (f) & 6.8(h)
  - Duty to Provide Information N.J.A.C. 7:14A-2.11, 6.2(a)14 & 18.1
  - Schedules of Compliance N.J.A.C. 7:14A-6.4
  - Transfer N.J.A.C. 7:14A-6.2(a)8 & 16.2

## PART II

# GENERAL REQUIREMENTS: DISCHARGE CATEGORIES

### A. Additional Requirements Incorporated By Reference

#### 1. General Discharge Requirements

- a. The permittee shall comply with land-based sludge management criteria and shall conform with the requirements for the management of residuals and grit and screenings under N.J.A.C. 7:14A-6.15(a), which includes:
  - i. Standards for the Use or Disposal of Residual, N.J.A.C. 7:14A-20;
  - ii. Section 405 of the Federal Act governing the disposal of sludge from treatment works treating domestic sewage;
  - iii. The Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq., and the Solid Waste Management Rules, N.J.A.C. 7:26;
  - iv. The Sludge Quality Assurance Regulations, N.J.A.C. 7:14C;
  - v. The Statewide Sludge Management Plan promulgated pursuant to the Water Quality Planning Act, N.J.S.A. 58:11A-1 et seq., and the Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq.;
  - vi. The provisions concerning disposal of sewage sludge and septage in sanitary landfills set forth at N.J.S.A. 13:1E-42 and the Statewide Sludge Management Plan; and
  - vii. Residual that is disposed in a municipal solid waste landfill unit shall meet the requirements in 40 CFR Part 258 and/or N.J.A.C. 7:26 concerning the quality of residual disposed in a municipal solid waste landfill unit. (That is, passes the Toxicity Characteristic Leaching Procedure and does not contain "free liquids" as defined at N.J.A.C. 7:14A-1.2.)

### B. General Conditions

#### 1. Standard Reporting Requirements – Monitoring Report Forms (MRFs)

- a. All MRFs shall be electronically submitted to the Department's MRF Submission Service.
- b. MRF data submission shall be in accordance with the guidelines and provisions outlined in the Department's Electronic Data Interchange (EDI) agreement with the permittee.
- c. MRFs shall be submitted at the frequencies identified in Part III of this permit.
- d. All MRFs 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 MRFs in his or her absence. Authorizations for other individuals to certify 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 NJPDES MRF Reference 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, for a monitored location, there are no discharge events during an entire monitoring period, the permittee must notify the Department when submitting the monitoring results by checking the "No Discharge this monitoring period" box on the paper or electronic version of the monitoring report submittal form.

## **2. 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.

## **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 report any noncompliance with the land-based sludge management criteria to the Department and to the ultimate sludge management alternative utilized by the permittee in accordance with Part IV, D.1.b of this permit.

## **4. Notification of Changes**

- a. The permittee shall give written notice to the Department of any planned physical alterations or additions to the permitted facility when the alteration or addition is expected to result in a significant change in the permittee's discharge(s) and/or residual use or disposal practices. This includes, but is not limited to, any changes in the treatment process that would result in a change to: sludge quality, a monitored location, and/or addition of a monitored location.
- 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. Permit Conditions Relating to Residuals Management**

- a. If any applicable standard for residual use or disposal is promulgated under section 405(d) of the Federal Act and Sections 4 and 6 of the State Act and that standard is more stringent than any limitation on the pollutant or practice in the permit, the Department may modify or revoke and reissue the permit to conform to the standard for residual use or disposal.

- b. The permittee shall make provisions for storage, or some other approved alternative management strategy, for anticipated downtimes at a primary residual management alternative. The permittee shall not be permitted to store residual beyond the capacity of the structural treatment and storage components of the treatment works. N.J.A.C. 7:14A-20.8(a) and N.J.A.C. 7:26 provide for the temporary storage of residuals for periods not exceeding six months, provided such storage does not cause pollutants to enter surface or ground waters of the State. The storage of residual for more than six months is not authorized under this permit. However, this prohibition does not apply to residual that remains on the land for longer than six months when the person who prepares the residual demonstrates that the land on which the residual remains is not a surface disposal site or landfill. The demonstration shall explain why residual must remain on the land for longer than six months prior to final use or disposal, discuss the approximate time period during which the residual shall be used or disposed and provide documentation of ultimate residual management arrangements. Said demonstration shall be in writing, be kept on file by the person who prepares residual, and submitted to the Department upon request.
- c. The permittee shall comply with the appropriate adopted District Solid Waste or Sludge Management Plan (which by definition in N.J.A.C. 7:14A-1.2 includes Generator Sludge Management Plans), unless otherwise specifically exempted by the Department.
- d. The preparer must notify and provide information necessary to comply with the N.J.A.C. 7:14A-20 land application requirements to the person who applies bulk residual to the land. This shall include, but not be limited to, the applicable recordkeeping requirements and certification statements of 40 CFR 503.17 as referenced at N.J.A.C. 7:14A-20.7(j).
- e. The preparer who provides residual to another person who further prepares the residual for application to the land must provide this person with notification and information necessary to comply with the N.J.A.C. 7:14A-20 land application requirements.
- f. Any person who prepares bulk residual in New Jersey that is applied to land in a State other than New Jersey shall comply with the requirement at N.J.A.C. 7:14A-20.7(b)1.ix to submit to the Department written proof of compliance with or satisfaction of all applicable statutes, regulations, and guidelines of the state in which land application will occur.

## **6. Additional General Requirements**

- a. This general permit may be issued, modified, revoked and reissued, or terminated in accordance with applicable requirements of N.J.A.C. 7:14A-15, 16 and 17.
- b. With the consent of the permittee, the Department shall revoke an authorization to discharge under this general permit without following the procedures set forth in N.J.A.C. 7:14A-15.6 if the discharge has ceased and provided that all applicable closure requirements as required by N.J.A.C. 7:14A-23.34 have been completed.

## **7. Requirements to Obtain an Individual Permit**

- a. The Department may require any person authorized by this general New Jersey Pollutant Discharge Elimination System (NJPDES) permit to apply for and obtain an individual NJPDES permit. Cases in which an individual NJPDES permit may be required include the following:
  - i. The quantity and/or quality of the discharge changes such that site specific requirements are necessary;
  - ii. The permittee is not in compliance with the conditions of the general NJPDES permit;
  - iii. A change has occurred such that the source does not involve the same or substantially similar types of operating procedures; or

- iv. A change has occurred such that the source does not require the same or similar monitoring.
- b. The Department may require any owner, operator and/or discharger authorized by this general NJPDES permit to apply for an individual NJPDES permit as provided above, only if the owner, operator, or discharger has been notified in writing that a permit application is required. This notice shall include a statement establishing a deadline by which the owner, operator, and/or discharger is to file the application, and a statement that on the effective date of the individual NJPDES permit the general NJPDES permit as it applies to the individual permittee shall be revoked.

## 8. Exclusions

- a. Any owner, operator, and/or discharger authorized by this general permit may request to be excluded from the coverage of the general NJPDES permit by applying for an individual permit. The owner, operator, and/or discharger shall submit an application in accordance with N.J.A.C. 7:14A-4, with reasons supporting the request, to the NJDEP. The request shall be processed under N.J.A.C. 7:14A-15, 16 and 17. The request shall be granted by the issuance of an individual permit if the reasons cited by the owner, operator and/or discharger are adequate to support the request.
- b. An owner, operator, and/or discharger excluded from this general NJPDES permit solely because of an existing individual permit, may request that the individual permit be revoked or modified, as appropriate, and that the discharge be authorized by the general NJPDES permit. Upon revocation or modification of the individual permit, the permittee shall be authorized under the general permit.

## 9. Administrative Requirements

- a. Persons seeking authorization under this general permit shall submit to the Department a written Request for Authorization (RFA). A RFA under this general permit shall include the following: A completed NJPDES 1 Form and a completed Form R.
- b. The Department may notify a person that the discharge is authorized by a general permit, even if the person has not submitted a RFA. A person so notified may nonetheless request an individual permit under B.8 above.
- c. Authorizations under this general permit shall become effective upon receipt of notification of authorization by the Department as allowed pursuant to N.J.A.C. 7:14A-6.13(d)5.iii.
- d. Upon reissuance of this general permit, authorizations shall be automatically renewed as allowed pursuant to N.J.A.C. 7:14A-6.13(d)9. However, the renewal of an authorization either requires a notice to the Department that there are no changes or a new RFA to be submitted to update any information that is no longer true, accurate and/or complete

## 10. Access

- 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. The Department or its designated agent may take samples of sludge to verify the reported analytical data and to determine if the permittee is in compliance with this permit.

## PART III LIMITS AND MONITORING REQUIREMENTS

MONITORED LOCATION:  
SL4A SQAR-Anaerobic Digester

DISCHARGE CATEGORY(IES):  
S4G - Sludge Quality Category 4 (GP)

**Location Description**

SQAR information shall be collected on the liquid residual being discharged from the discharge side of the pump which transfers sludge from the anaerobic digester to the sludge holding tank. Said information shall be representative of the chemical and physical characteristics of the liquid residual leaving the treatment plant for use or disposal.

**Contributing Waste Types**

Dom Residual-Other

**Residuals DMR Reporting Requirements:**

Submit a Monthly DMR: due 60 calendar days after the end of each calendar month.

**Table III - A - 1: Residuals DMR Limits and Monitoring Requirements**

Parameter	Sample Point	PHASE Start Date:		Units	PHASE End Date:			Units	Frequency	Sample Type
		Limit	Limit		Limit	Limit	Limit			
Solids, Total January thru December	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	%TS	1/Month	Composite
	QL	***	***		***	***	***			
Nitrate Nitrogen, Dry Weight January thru December	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Month	Composite
	QL	***	***		***	***	***			
Nitrogen, Kjeldahl Total, Dry Wt January thru December	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Month	Composite
	QL	***	***		***	***	***			
Potassium Dry Weight January thru December	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Month	Composite
	QL	***	***		***	***	***			

**Residuals DMR Reporting Requirements:**

Submit a Monthly DMR: due 60 calendar days after the end of each calendar month.

**Table III - A - 1: Residuals DMR Limits and Monitoring Requirements**

PHASE: Final

PHASE Start Date:

PHASE End Date:

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Nitrogen, Ammonia Dry Weight	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Month	Composite
	January thru December	QL	***		***	***	***			
Calcium Dry Weight	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Month	Composite
	January thru December	QL	***		***	***	***			
Molybdenum Dry Weight	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Month	Composite
	January thru December	QL	***		***	***	***			
Phosphorus Dry Weight	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Month	Composite
	January thru December	QL	***		***	***	***			
Arsenic, Dry Weight	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Month	Composite
	January thru December	QL	***		***	***	***			
Selenium, Dry Weight	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Month	Composite
	January thru December	QL	***		***	***	***			
Copper, Dry Weight	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Month	Composite
	January thru December	QL	***		***	***	***			

**Residuals DMR Reporting Requirements:**

Submit a Monthly DMR: due 60 calendar days after the end of each calendar month.

**Table III - A - 1: Residuals DMR Limits and Monitoring Requirements**

**PHASE:** Final

**PHASE Start Date:**

**PHASE End Date:**

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Beryllium Dry Weight	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Month	Composite
	January thru December	QL	***		***	***	***			
Cadmium, Dry Weight	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Month	Composite
	January thru December	QL	***		***	***	***			
Zinc, Dry Weight	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Month	Composite
	January thru December	QL	***		***	***	***			
Lead, Dry Weight	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Month	Composite
	January thru December	QL	***		***	***	***			
Nickel, Dry Weight	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Month	Composite
	January thru December	QL	***		***	***	***			
Mercury, Dry Weight	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Month	Composite
	January thru December	QL	***		***	***	***			

**Residuals DMR Reporting Requirements:**

Submit a Monthly DMR: due 60 calendar days after the end of each calendar month.

**Table III - A - 1: Residuals DMR Limits and Monitoring Requirements**

**PHASE:**Final

**PHASE Start Date:**

**PHASE End Date:**

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Chromium, Dry Weight January thru December	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Month	Composite
	QL	***	***		***	***	***			

**Residuals WCR - Annual Reporting Requirements:**

Submit an Annual WCR: due 60 calendar days after the end of each calendar year.

**Table III - A - 3: Residuals WCR - Annual Limits and Monitoring Requirements**

**PHASE:**Final

**PHASE Start Date:**

**PHASE End Date:**

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Silver, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Antimony, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Thallium, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Acenaphthylene, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December

**Residuals WCR - Annual Reporting Requirements:**

Submit an Annual WCR: due 60 calendar days after the end of each calendar year.

**Table III - A - 3: Residuals WCR - Annual Limits and Monitoring Requirements**

PHASE: Final

PHASE Start Date:

PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Acenaphthene, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Anthracene Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Benzene, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Benzo(k)fluoranthene Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Benzo(a)pyrene, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Bis(2-chloroethyl) ether, Dry Wt	Residuals	REPORT	MG/KG	Composite	January thru December
Bis(2-chloroethoxy)- methane, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Bis(2-chloroiso- propyl)-ether, Dry Wt	Residuals	REPORT	MG/KG	Composite	January thru December
Butyl benzyl- phthalate, Dry Wt	Residuals	REPORT	MG/KG	Composite	January thru December
Chrysene Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Diethyl phthalate, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Dimethyl phthalate, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
1,2-Diphenyl- hydrazine, Dry Wt	Residuals	REPORT	MG/KG	Composite	January thru December
Fluoranthene Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Fluorene, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December

**Residuals WCR - Annual Reporting Requirements:**

Submit an Annual WCR: due 60 calendar days after the end of each calendar year.

**Table III - A - 3: Residuals WCR - Annual Limits and Monitoring Requirements**

PHASE: Final

PHASE Start Date:

PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Hexachlorocyclopentadiene, Dry Wt	Residuals	REPORT	MG/KG	Composite	January thru December
Hexachloroethane, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Indeno(1,2,3-cd)pyrene, Dry Wt	Residuals	REPORT	MG/KG	Composite	January thru December
N-nitrosodi-n-propylamine, Dry Wt	Residuals	REPORT	MG/KG	Composite	January thru December
N-nitrosodi-phenylamine, Dry Wt	Residuals	REPORT	MG/KG	Composite	January thru December
N-nitrosodi-methylamine, Dry Wt	Residuals	REPORT	MG/KG	Composite	January thru December
Naphthalene Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Nitrobenzene Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Phenanthrene Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Pyrene, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Benzo(ghi)perylene, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Benzo(a)anthracene, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
1,2-Dichlorobenzene, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
1,2,4-Trichlorobenzene, Dry Wt	Residuals	REPORT	MG/KG	Composite	January thru December
Dibenzo(a,h)anthracene, Dry Wt	Residuals	REPORT	MG/KG	Composite	January thru December

**Residuals WCR - Annual Reporting Requirements:**

Submit an Annual WCR: due 60 calendar days after the end of each calendar year.

**Table III - A - 3: Residuals WCR - Annual Limits and Monitoring Requirements**

PHASE: Final

PHASE Start Date:

PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
1,3-Dichlorobenzene, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
1,4-Dichlorobenzene, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
2-Chloronaphthalene, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Di-n-octyl Phthalate Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
2,4-Dinitrotoluene, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
2,6-Dinitrotoluene, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
3,3'-Dichloro- benzidine, Dry Wt	Residuals	REPORT	MG/KG	Composite	January thru December
4-Bromophenyl phenyl ether, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Bis(2-ethylhexyl) phthalate, Dry Wt	Residuals	REPORT	MG/KG	Composite	January thru December
Di-n-butyl phthalate Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Benzidine Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Hexachlorobenzene, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Hexachlorobutadiene, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
trans-1,3-Dichloro- propene, Dry Wt	Residuals	REPORT	MG/KG	Composite	January thru December
3,4 Benzo- fluoranthene	Residuals	REPORT	MG/KG	Composite	January thru December

**Residuals WCR - Annual Reporting Requirements:**

Submit an Annual WCR: due 60 calendar days after the end of each calendar year.

**Table III - A - 3: Residuals WCR - Annual Limits and Monitoring Requirements**

PHASE: Final

PHASE Start Date:

PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Acrolein, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Acrylonitrile Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Bromoform Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Carbon Tetrachloride Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Chlorobenzene, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Chlorodibromomethane Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Chloroethane Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Chloroform Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Dichlorobromomethane Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Ethylbenzene Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Methyl Bromide, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Methyl Chloride, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Methylene Chloride, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Tetrachloroethylene, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Toluene, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December

**Residuals WCR - Annual Reporting Requirements:**

Submit an Annual WCR: due 60 calendar days after the end of each calendar year.

**Table III - A - 3: Residuals WCR - Annual Limits and Monitoring Requirements****PHASE:** Final**PHASE Start Date:****PHASE End Date:**

<b>Parameter</b>	<b>Sample Point</b>	<b>Compliance Quantity</b>	<b>Units</b>	<b>Sample Type</b>	<b>Monitoring Period</b>
Trichloroethylene, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Vinyl Chloride Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
1,1-Dichloroethane, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
1,1-Dichloroethylene Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
1,1,1-Trichloro- ethane, Dry Wt	Residuals	REPORT	MG/KG	Composite	January thru December
1,1,2-Trichloro- ethane, Dry Wt	Residuals	REPORT	MG/KG	Composite	January thru December
1,1,2,2-Tetrachloro- ethane	Residuals	REPORT	MG/KG	Composite	January thru December
1,2-Dichloroethane, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
1,2-Dichloropropane, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
1,2-trans-Dichloro ethylene, Dry Wt	Residuals	REPORT	MG/KG	Composite	January thru December
2-Chloroethyl Vinyl Ether, Dry Wt	Residuals	REPORT	MG/KG	Composite	January thru December
Cyanide, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Isophorone Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Phenol, Single Compound, Dry Wt	Residuals	REPORT	MG/KG	Composite	January thru December
BHC Delta Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December

**Residuals WCR - Annual Reporting Requirements:**

Submit an Annual WCR: due 60 calendar days after the end of each calendar year.

**Table III - A - 3: Residuals WCR - Annual Limits and Monitoring Requirements**

PHASE: Final

PHASE Start Date:

PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Endosulfan Sulfate, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Beta Endosulfan	Residuals	REPORT	MG/KG	Composite	January thru December
Alpha Endosulfan	Residuals	REPORT	MG/KG	Composite	January thru December
Endrin Aldehyde, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
4,4'-DDT, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
4,4'-DDD, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
4,4'-DDE, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Aldrin, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Gamma BHC (lindane), Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Chlordane(Tech Mix & Metabolites), Dry Wt	Residuals	REPORT	MG/KG	Composite	January thru December
Dieldrin, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Toxaphene Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Heptachlor Epoxide, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
PCB-1232, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
PCB-1242, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December

**Residuals WCR - Annual Reporting Requirements:**

Submit an Annual WCR: due 60 calendar days after the end of each calendar year.

**Table III - A - 3: Residuals WCR - Annual Limits and Monitoring Requirements****PHASE:** Final**PHASE Start Date:****PHASE End Date:**

<b>Parameter</b>	<b>Sample Point</b>	<b>Compliance Quantity</b>	<b>Units</b>	<b>Sample Type</b>	<b>Monitoring Period</b>
PCB-1248, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
PCB-1254, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
PCB-1260, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
PCB-1016, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
PCB-1221, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Alpha BHC Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Beta BHC, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Heptachlor Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Endrin, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
p-chloro-m-cresol, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
2-Chlorophenol, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
2-Nitrophenol, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
2,4-Dichlorophenol, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
2,4-Dimethylphenol, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
2,4 Dinitrophenol, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December

**Residuals WCR - Annual Reporting Requirements:**

Submit an Annual WCR: due 60 calendar days after the end of each calendar year.

**Table III - A - 3: Residuals WCR - Annual Limits and Monitoring Requirements**

**PHASE:** Final

**PHASE Start Date:**

**PHASE End Date:**

<b>Parameter</b>	<b>Sample Point</b>	<b>Compliance Quantity</b>	<b>Units</b>	<b>Sample Type</b>	<b>Monitoring Period</b>
2,4,6 Trichloro-phenol, Dry Wt	Residuals	REPORT	MG/KG	Composite	January thru December
4-Chlorophenyl phenyl ether, Dry Wt	Residuals	REPORT	MG/KG	Composite	January thru December
4-Nitrophenol, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
Pentachlorophenol, Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December
4,6-Dinitro-o-cresol Dry Weight	Residuals	REPORT	MG/KG	Composite	January thru December

**Residuals Transfer Reporting Requirements:**

Submit a Monthly RTR: due 60 calendar days after the end of each calendar month.

**MONITORED LOCATION:**  
SL4P SQAR-Sludge Production

**DISCHARGE CATEGORY(IES):**  
S4G - Sludge Quality Category 4 (GP)

**Location Description**

Production information shall be collected on all residuals leaving the treatment plant for use or disposal. All residuals removed from the treatment works during the reporting period must be reported on the Monitoring Report Forms (MRF's). If the permittee is removing residuals for use or disposal from a location other than the monitored location(s) in Part III of the permit, the permittee shall contact BPR prior to removal to determine if the residual should be reported on the existing MRF's or if a new monitored location should be added.

**Contributing Waste Types**

Dom Residual-Other

**Residuals WCR - Annual Reporting Requirements:**

Submit an Annual WCR: due 60 calendar days after the end of each calendar year.

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**Table III - B - 1: Residuals WCR - Annual Limits and Monitoring Requirements**

**PHASE:** Final

**PHASE Start Date:**

**PHASE End Date:**

<b>Parameter</b>	<b>Sample Point</b>	<b>Compliance Quantity</b>	<b>Units</b>	<b>Sample Type</b>	<b>Monitoring Period</b>
Amt Sludge Rmvd, Gallons	Residuals	REPORT	GAL/YEAR	Calculated	January thru December
Total Amount of Sludge Removed	Residuals	REPORT	DMT/YR	Calculated	January thru December
Solids, Total	Residuals	REPORT	%TS	Composite	January thru December

## **PART IV**

# **SPECIFIC REQUIREMENTS: NARRATIVE**

### **Notes and Definitions**

#### **A. Footnotes**

##### **1. Statistical Base Limit**

- a. Monthly Average - report the arithmetic mean of all samples taken during that month.

##### **2. Sample Type**

- a. Composite - a minimum of five (5) grab samples of equal volumes shall be taken to form a representative composite of residual quality in accordance with N.J.A.C. 7:14C-1.6.

#### **B. Definitions**

##### **1. Definitions**

- a. All words and terms used in this permit shall have meanings as defined in the "Regulations Concerning the New Jersey Pollutant Discharge Elimination System" (N.J.A.C. 7:14A), unless otherwise stated or unless the context clearly requires a different meaning.
- b. "Land-based sludge management criteria" means those standards established by the Department in the Statewide Sludge Management Plan adopted pursuant to the Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq., or established pursuant to the Clean Water Act or the Federal Water Pollution Control Act (33 U.S.C. Section 1251 et seq.) including all subsequent supplements and amendments, or any regulations adopted pursuant thereto.
- c. "Sludge" means the solid residue and associated liquid resulting from physical, chemical, and/or biological treatment of domestic or industrial wastewaters.
- d. "Treatment works" means any treatment works as defined by N.J.A.C. 7:14A-1.2 and N.J.S.A. 58:10A-3.
- e. "Ultimate sludge management alternative" means the final management of sludge at a facility or operation such that no additional permit or approval actions are required for further processing or movement.

## Sludge Quality Category 4 (GP)

### A. Sludge Quality Requirements

#### 1. Residuals Information

- a. The parameters required to be monitored are specifically stated under Part III of this permit.
- b. All sludge samples shall be collected at locations representative of the chemical and physical characteristics of the sludge removed from the last treatment process before leaving the treatment plant for use or disposal.
- c. Where a treatment works generates several different types of sludges (for example, primary, secondary or advanced wastewater treatment sludges) each of which is removed separately for use or disposal, separate composite samples for each different type of sludge shall be analyzed for the parameters under Part III of this permit.
- d. All residuals removed from the treatment works during the reporting period must be reported on the RTR. If the permittee is removing residuals for use or disposal from a location other than the monitored location in Part III of the permit, the permittee shall contact BGWRPA prior to removal to determine if the residual should be reported on the existing MRFs or if a new monitored location should be added.
- e. A sludge sampling plan that details the sampling and analytical procedures pursuant to N.J.A.C. 7:14C-1.6(c) shall be developed and maintained for all parameters under Part III of this permit.
- f. All sample collection, preservation and analysis shall be performed in a manner consistent with the Sludge Quality Assurance Regulations (N.J.A.C. 7:14C).
- g. All monitoring required by this permit shall be performed by a laboratory certified by the Department for the analysis of those specific parameters in accordance with N.J.A.C. 7:18.
- h. All sample frequencies expressed in Part III are minimum requirements. If the permittee monitors any parameter more frequently than required by this permit and uses the test procedures contained herein, the results of this monitoring shall be included in the calculation and reporting of the data submitted. Such increased frequency shall also be indicated.

### B. Recordkeeping

#### 1. Standard Recordkeeping Requirements

- a. The permittee shall retain copies of all reports required by a NJPDES permit and records of all data used to complete the application for a NJPDES permit for a period of at least 5 years.

#### 2. Residuals Information

- a. In addition to the information required under Part III, the permittee shall retain the following information for a period of at least five (5) years:
  - i. All records of the monitoring information, and quality assurance and quality control documentation specified in N.J.A.C. 7:14C-1.4(f).
  - ii. Records on the quality of all residual received pursuant to the Sludge Quality Assurance Regulations at N.J.A.C. 7:14C.

### C. Reporting

#### 1. Residuals Information

## Sludge Quality Category 4 (GP)

- a. The frequency of reporting to the Department of the records kept under Part III shall be as specifically stated therein.
- b. The permittee shall report monitoring results on the Discharge Monitoring Reports (DMR), Waste Characterization Reports (WCR), Residuals Transfer Reports (RTR), or other monitoring report forms, where specified, and all applicable information required on the forms shall be entered in the manner specified therein before submission. Any information not in compliance with this condition shall not be deemed to fulfill the reporting requirements of this permit.
- c. Submit any modifications to the sludge sampling plan required pursuant to Section A.1.e above within thirty (30) days of any subsequent sampling plan modification. The sludge sampling plan modification shall be submitted to: Mail Code 401-02B, Division of Water Quality, Bureau of Ground Water, Residuals & Permit Administration, P.O. Box 420, Trenton, New Jersey 08625-0420

### D. Operation and Management

#### 1. Residuals Information

- a. The permittee shall comply with the land-based sludge management criteria applicable to the ultimate sludge management alternative utilized by the permittee. It shall be the responsibility of the permittee to ensure that all residual accepted is compatible with the land-based sludge management criteria applicable to the ultimate sludge management alternative utilized by the permittee.
- b. The permittee shall report any noncompliance with the land-based sludge management criteria to the Department. The noncompliance with the land-based sludge management criteria shall be orally reported within 24 hours of the permittee becoming aware of the noncompliance to the Bureau of Ground Water, Residuals & Permit Administration at (609) 984-4428 and to the ultimate sludge management alternative. A written submission shall be made within five days thereafter to: Mail Code 401-02B, Division of Water Quality, Bureau of Ground Water, Residuals & Permit Administration, P.O. Box 420, Trenton, New Jersey 08625-0420, with a copy to the ultimate sludge management alternative, and shall include the following information:
  - i. Dates of occurrence;
  - ii. A description of the noncompliance with the land-based sludge management criteria;
  - iii. The cause of the noncompliance; and
  - iv. Steps being taken to reduce, eliminate and prevent reoccurrence of the noncompliance.
- c. Based on information submitted pursuant to (b) above, or pursuant to N.J.A.C. 7:14A-20.5, the Department may require the permittee to perform and submit the results of additional sludge analyses, obtain under N.J.A.C. 7:26G a formal waste classification of the sludge removed for use or disposal, and/or require other actions when necessary to protect public health or the environment from any adverse effect of a pollutant in the sludge.

#### 2. Acceptance of Customer Residuals by Treatment Works located in New Jersey

- a. Prior to accepting a residual source that has not been issued an Authorization under one of the New Jersey Sludge Quality Assurance Regulation (SQAR) General Permits, the permittee shall submit a completed Domestic or Industrial Generator Form R (whichever is applicable), signed by a duly authorized representative of the residual generator.
- b. The permittee has one hundred eighty (180) days from the effective date of this permit to submit a completed Form R from a residual source that is currently being accepted and has not been issued an Authorization under one of the New Jersey Sludge Quality Assurance Regulation (SQAR) General Permits.
- c. The permittee is prohibited from receiving residual sources that do not have a completed Form R on file with the Department pursuant to (a) and (b) above.
- d. Additional source screening analyses or a formal waste classification under N.J.A.C. 7:26G may be required, if deemed necessary, in the judgement of the NJDEP through evaluation of past SQAR reports or other relevant information concerning residual quality and industrial discharges.
- e. If the nature of residual reported on a Form R should change at any time due to an increase or change in process wastewater contributions, a change in treatment process, or a change in its process, handling, manufacturing, packaging, storage, or disposal practice, a new Form R shall be submitted within 90 days of the change.

**3. Closure Requirements for Treatment Works located in New Jersey**

- a. The permittee shall follow the closure procedures at N.J.A.C. 7:14A-23.34.
- b. All residual material shall be removed within 180 calendar days after the treatment works and/or equipment is taken out of service.
- c. Proof of proper residual management shall be submitted within thirty (30) calendar days after their removal from a closed unit.

PINE BROOK STP, Manalapan

Permit No.NJG0198404  
RES210001 Residual General Permit Authorization Renewal