

**St. Johns County School District**  
Sebastian Administrative Annex  
Purchasing Department  
3015 Lewis Speedway, Building 5  
St. Augustine, FL 32084



# REQUEST FOR PROPOSAL (RFP)

## REQUIRED RESPONSE FORM

**RFP TITLE: Operation and Management of Water and Wastewater Treatment Plant**

RFP NO.: 2018-33  
RELEASE DATE: September 12, 2018  
See Details in RFP for Mandatory Site Visit

F.O.B. Destination: **District Wide**

CONTACT: Patrick Snodgrass  
Director of Purchasing  
(904) 547-8941  
patrick.snodgrass@stjohns.k12.fl.us

**RFP DUE DATE AND TIME: October 12, 2018 @ 1:30 pm**  
**RFP OPENING DATE AND TIME: October 12, 2018 @ 2:00 pm**

SUBMIT RFP TO: Sebastian Administrative Annex  
Purchasing Department  
3015 Lewis Speedway, Building 5  
St. Augustine, FL 32084

RFP OPENING LOCATION: Sebastian Administrative Annex  
Purchasing Department  
3015 Lewis Speedway, Building 5  
St. Augustine, FL 32084

**REQUIRED SUBMITTALS CHECKLIST** - Each submittal checked below is **required** for proposal to be considered.

- Literature     Specifications     Catalogs     Product Samples: See Special Conditions  
 Debarment Form     Manufacturer's Certificate of Warranty  
 Drug-Free Workplace Certification     List of References  
 Certificate of Insurance: See Special Conditions  
 Additional submittals specific to this RFP may also be required – See Special Conditions for details

**PROPOSER MUST FILL IN THE INFORMATION LISTED BELOW AND SIGN WHERE INDICATED FOR RFP TO BE CONSIDERED.**

Company Name: \_\_\_\_\_

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

City, State: \_\_\_\_\_ Zip: \_\_\_\_\_ FEIN: \_\_\_\_\_

**Signature of Owner or Authorized Officer/Agent** \_\_\_\_\_ Telephone: \_\_\_\_\_

Typed Name of Above: \_\_\_\_\_ FAX: \_\_\_\_\_

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

By my signature, I certify that this offer is made without prior understanding, agreement, or connection with any corporation, firm, business entity or person submitting an offer for the same materials, supplies, equipment, or services (s), and is in all respects fair and without collusion or fraud. I further agree to abide by all conditions of this invitation and certify that I am authorized by the offeror to sign this response. In submitting an offer to the School Board of St. Johns County, I, as the proposer, offer and agree that if the offer is accepted, the offeror will convey, sell, assign, or transfer to the School Board of St. Johns County all right, title, and interest in and to all causes of action it may now or hereafter acquire under the Anti-trust laws of the United States and the State of Florida for price fixing relating to the particular commodity(s) or service(s) purchased or acquired by the School Board. At the School Board's discretion, such assignment shall be made and become effective at the time the School Board of St. Johns County tenders final payment to the vendor.

## GENERAL CONDITIONS, INSTRUCTIONS AND INFORMATION

Proposer: To ensure acceptance of the proposal follow these instructions:

1. **DEFINITIONS:** For purpose of this RFP, "Proposal" refers to the completed RFP Required Response Form above, together with all supporting documentations and submittals. "Proposer" or "Contractor" or "Respondent" refers to the entity or person that submits the proposal. "District" refers to the St. Johns County School District, and "School Board" to the St. Johns County School Board. "Purchasing Department Representative" refers to the Purchasing Department staff member named as its contact on the first page of the RFP. "Conditions" refers to both the General Conditions and the Special Conditions of this RFP.
2. **EXECUTION OF PROPOSAL:** The RFP Required Response Form must be completed, signed, and returned in a sealed envelope to the Purchasing Department, together with the Proposal and all required submittals. All Proposals must be completed in ink or typewritten. If a correction is necessary, draw a single line through the entered figure and enter the corrected figure or use an opaque correction fluid. All corrections should be initialed by the person signing the Proposal even when using opaque correction fluid. Any illegible entries will not be considered for award. The RFP General Conditions, Special Conditions and specifications **cannot** be changed or altered in any way by the Proposal or otherwise by the Proposer. In the event of any conflict between the Conditions and specifications of the RFP and the terms and Conditions of the Proposal, the Conditions and specifications of the RFP take precedence. Any failure to comply with the RFP Conditions or specifications or attempt to alter them by the Proposer shall be grounds for rejection of the Proposal.
3. **SUBMISSION OF PROPOSAL:** The completed Proposal must be submitted in a sealed envelope with the RFP title and number on the outside. Proposals must be time stamped by the Purchasing Department prior to the RFP due time on date due. No Proposal will be considered if not time stamped by the Purchasing Department prior to the stated submission deadline. Proposals submitted by telegraphic or facsimile transmission will not be accepted unless authorized by the Special Conditions of this RFP.
4. **SPECIAL CONDITIONS:** The Purchasing Department has the authority to issue Special Conditions as required for individual proposals. Any Special Conditions that vary from these General Conditions shall take precedence over the General Conditions.
5. **PRICES QUOTED:** Deduct trade discounts and quote a firm net price. Give both unit price and aggregate total. Prices must be stated in units to quantity specified in the RFP. In case of discrepancy in computing the amount of the Proposal, the **Unit Price** quoted will govern. All prices quoted shall be F.O.B. destination, freight prepaid. Proposer is responsible for freight charges. Proposer owns goods in transit and files any claims, unless otherwise stated in Special Conditions. Each item must be proposed separately and no attempt is to be made to tie any item or items in with any other item or items. If a Proposer offers a discount or offers terms less than Net 30, it is understood that a minimum of thirty (30) days will be required for payment. If a payment discount is offered, the discount time will be computed from the date of satisfactory delivery at place of acceptance and receipt of correct invoice at the office specified.
  - a) Taxes: The School Board does not pay Federal excise and State taxes on direct purchase of tangible personal property. The applicable tax exemption number is shown on the purchase order. This exemption does not apply to purchases of tangible personal property made by contractors who use the tangible personal property in the performance of contracts for the improvement of School Board-owned real property as defined in Chapter 192 of the Florida Statutes.
  - b) Mistakes: Proposers are expected to examine the General and Special Conditions, specifications, delivery schedules, Proposal prices and extensions, and all instructions pertaining to supplies and services. Failure to do so will be at Proposer's risk.
  - c) Conditions and Packaging: It is understood and agreed that any item offered or shipped as a result of this RFP shall be new (current production model at the time of this RFP) unless otherwise stated. All containers shall be suitable for storage or shipment, and all prices shall include standard commercial packaging.
  - d) Underwriters' Laboratories: Unless otherwise stipulated in the RFP, all manufactured items and fabricated assemblies shall be U.L. listed where such has been established by U.L. for the item(s) offered and furnished. In lieu of the U.L. listing, Proposer may substitute a listing by an independent testing laboratory recognized by OSHA under the Nationally Recognized Testing Laboratories (NRTL) Recognition Program.
  - e) Preference for St. Johns County Bidders: For all purchases made by the School Board, prices and quality being equal, preference may be given to St. Johns County Proposers, subject to certification as a drug-free workplace (Florida Statutes 287.087 and 287.084).
6. **BRAND NAMES:** The District reserves the right to seek proposals for a particular product or specific equipment by manufacturer, make, model or other identifying information. However, a Proposer may propose a substitute product of equal quality and functionality unless the Conditions or Specifications state that substitute products or equipment may not be proposed and will not be considered. If a substitute product is proposed, it is the Proposer's responsibility to submit

with the Proposal brochures, samples and/or detailed specifications on the substitute product. The District shall be the sole judge in the exercise of its discretion for determining whether the substitute product is equal and acceptable.

- 7. QUALITY:** The items proposed must be new and equal to or exceed specifications. The manufacturer's standard warranty shall apply. During the warranty period the successful bidder must repair and/or replace the unit without cost to the District with the understanding that all replacements shall carry the same warranty as the original equipment. The successful Proposer shall make any such repairs and/or replacements immediately upon receiving notice from the District.
- 8. SAMPLES:** Samples of items, when required, must be furnished free of expense by the RFP due date unless otherwise stated. If not destroyed, upon request, samples will be returned at the Proposer's expense. Proposers will be responsible for the removal of all samples furnished within thirty (30) days after RFP opening. All samples will be disposed of after thirty (30) days. Each individual sample must be labeled with Proposer's name, RFP number, and item number. Failure of Proposer to either deliver required samples or to clearly identify samples as indicated may be reason for rejection of the RFP. Unless otherwise indicated, samples should be delivered to the office of the Purchasing Department of the St. Johns County School Board, Sebastian Administrative Annex, 3015 Lewis Speedway Unit 5, St. Augustine, FL 32084.
- 9. TESTING:** Items proposed may be tested for compliance with RFP Conditions and specifications.
- 10. NON-CONFORMITY:** Items delivered that do not conform to RFP Conditions or specifications may be rejected and returned at Proposer's expense. Goods or services not delivered as per delivery date in RFP and/or purchase order may be purchased on the open market. The Proposer shall be responsible for any additional cost. Any violation of these stipulations may also result in Proposer being disqualified from participating in future competitive solicitations or otherwise doing business with the District.
- 11. DELIVERY:** Unless actual date of delivery is specified (or if specified delivery cannot be met), the Proposal must show the number of days required to make delivery after receipt of purchase order in space provided. Delivery time may become a basis for recommending an award (see Special Conditions).
- 12. REQUESTS FOR CLARIFICATION:** No correction or clarification of any ambiguity, inconsistency or error in the RFP Conditions and specifications will be made to any Proposer orally. Any request for such interpretation or correction should be by email addressed to the Purchasing Department Representative prior to the deadline specified in the Special Conditions for submitting questions. All such interpretations and supplemental instructions will be in the form of written addenda to the RFP. Only the interpretation or correction so given by the Purchasing Department Representative, in writing, shall be binding and prospective proposers are advised that no other source is authorized to give information concerning, or to explain or interpret the RFP Conditions and specifications.
- 13. DISPUTE:** Any dispute concerning the Conditions or specifications of this RFP or the contract resulting from this RFP shall be decided by Purchasing Department and that decision shall be final.
- 14. AWARDS:** Proposals shall be reviewed in accordance with the RFP Conditions and specifications and the best interest of the School District. To that end, the Board reserves the right to reject any and all proposals; to waive any irregularities or informalities; to accept any item or group of items; to request additional information or clarification from any proposal; to acquire additional quantities at prices quoted in the Proposal unless additional quantities are not acceptable, in which case the Proposal must be conspicuously labelled "PROPOSAL IS FOR SPECIFIED QUANTITY ONLY", and to purchase the product or service at the price and terms of any contract with a governmental entity procured by competitive solicitation, in accordance with Florida law. The decision to award a contract or take other action in regard to the RFP shall be made in the best interest of the School District.
- 15. OTHER GOVERNMENTAL AGENCIES:** It is the intent of this solicitation to obtain proposals to sell the services or products to the School Board. Other school boards and governmental agencies/entities may purchase goods or services based on the contract awarded as a result of this RFP. The services and products are to be furnished in accordance with the terms of the resulting contract.
- 16. MARKING:** A packing list must be included in each shipment and shall show the School Board purchase order number, RFP number, school name or department name, contents and shipper's name and address; mark packing list and invoice covering final shipment "Order Completed". If no packing list accompanies the shipment, the buyer's count will be accepted. Mark each package clearly with (A) shipper's name and address, (B) contents, (C) the School Board of St. Johns County purchase order number, and (D) RFP number.
- 17. INSPECTION, ACCEPTANCE & TITLE:** Inspection and acceptance will be at destination shown on purchase order unless otherwise provided. Title to/or risk of loss or damage to all items shall be the responsibility of the successful Proposer until acceptance by the District. If the materials or services supplied to the District are found to be defective or do not conform to specifications, the Board reserves the right to cancel the order upon written notice to the Proposer and return product at Proposer's expense.
- 18. BILLING AND PAYMENT:** Invoices, unless otherwise indicated, must show purchase order numbers and shall be submitted to St. Johns County School District, Accounts Payable Department, 40 Orange Street, St. Augustine, FL 32084. Payment will be made as prescribed in the Special Conditions and properly invoiced.

- 19. COPYRIGHT AND PATENT RIGHTS:** The Proposer, without exception, shall indemnify and hold harmless the School Board and its employees from liability of any nature or kind, including legal fees and other costs and expenses, for or on account of any copyrighted, patented, or unpatented invention, process, or article manufactured or used in the performance of the contract, including its use by the School Board. If the proposer uses any design, device, or materials covered by letters, patent, or copyright, it is mutually understood and agreed without exception that the proposal prices shall include all royalties or cost arising from the use of such design, device or materials in any way involved in the work.
- 20. OSHA:** The Proposer warrants that the product supplied to the School Board shall conform in all respects to the standards set forth in the Occupational Safety and Health Act of 1970, as amended, and the failure to comply with this condition will constitute a breach of contract.
- 21. LEGAL REQUIREMENTS:** The Proposer shall comply with Federal, State, County, and local laws, ordinances, rules, and regulations that in any manner affect the items covered herein. Lack of knowledge by the proposer will in no way be a cause for relief from responsibility.
- 22. CONFLICT OF INTEREST:** The award hereunder is subject to the provisions of Chapter 112, Florida Statutes. All Proposers must disclose with their Proposal the name of any officer, director, or agent who is also an employee of the School Board. Further, all Proposers must disclose the name of any Board employee who owns directly or indirectly, an interest of five per cent (5%) or more of the total assets of capital stock in the Proposer's firm.
- 23. ANTI-DISCRIMINATION:** The Proposer certifies that Proposer is in compliance with the requirements of law regarding equal employment opportunity for all persons without regard to age, race, color, religion, sex, national origin, or disability.
- 24. LICENSES AND PERMITS:** The Proposer shall be responsible for obtaining, at its expense, all licenses and permits required for performance of the work or services resulting from the RFP award.
- 25. BID BONDS, PERFORMANCE BONDS, CERTIFICATES OF INSURANCE:** Bid bonds, when required, shall be submitted with the bid in the amount specified in Special Conditions. Bid bonds will be returned to unsuccessful bidders. After acceptance of bid, the Board will notify the successful bidder to submit a performance bond and certificate of insurance in the amount specified in Special Conditions. St. Johns County School District shall be named as additional insured on policies required by detailed specifications. Upon receipt of the performance bond, the bid bond will be returned to the successful bidder.
- 26. DEFAULT AND REMEDIES:** The following remedies for default shall apply.
- a) **Failure to Timely Deliver.** The parties acknowledge and agree that the damages for the failure of the successful Proposer to timely deliver the products or services contracted for may be difficult to determine. Moreover, both parties wish to avoid lengthy delay and expensive litigation relating to the failure of the successful Proposer to deliver on time. Therefore, in the event the successful Proposer fails to timely deliver the products or services contracted for, the School Board may exercise the remedy of liquidated damages against the successful Proposer in an amount equal to 25% of the unit price proposal, times the quantity. The successful Proposer shall pay that sum to the School Board not as a penalty, but as liquidated damages intended to compensate for unknown and unascertainable damages.
- b) **Other Default.** In the event of default for any reason other than the failure of the successful proposer to timely deliver the products or services contracted for, the School Board may exercise any and all remedies in contract or tort available to it, including, but not limited to, the recovery of actual and consequential damages.
- 27. TERMINATION:** In the event any of the provisions of this RFP are violated by the Proposer, the Purchasing Department reserves the right to reject its proposal. Furthermore, the School Board reserves the right to terminate any contract resulting from this RFP for financial or administrative convenience, as determined in its sole business judgment, upon giving thirty (30) days prior written notice to the other party.
- 28. FACILITIES:** The Board reserves the right to inspect the Proposer's facilities at any time with prior notice.
- 29. ASBESTOS STATEMENT:** All material supplied to the School Board must be 100% asbestos free. Proposer by virtue of proposing, certifies by signing Proposal, that if awarded any portion of this proposal, will supply only material or equipment that is 100% asbestos free.
- 30. INDEMNITY AND HOLD HARMLESS AGREEMENT:** During the term of this Proposal and any contract awarded to Proposer as a result of this RFP, the Proposer shall indemnify, hold harmless, and defend the School Board, its agents, and employees from any and all costs and expenses, including but not limited to, attorney's fees, reasonable investigative and recovery costs, court costs and all other sums which the Board, its agents, servants and employees, may pay or become obligated to pay on account of any, all and every claim or demand, or assertion of liability, or any claim or actions founded, thereon, arising or alleged to have arisen out of the products, goods or services furnished by the Proposer, its agents, or employees, or any of its equipment, including, without limitation, claims for damages, injury to person or property, including the Board's property, or death.
- 31. CRIMINAL BACKGROUND SCREENING:** Pursuant to Florida Statute 1012.467 and School Board Rule 7.142, the District will issue and recognize statewide background badges to non-instructional contractor employees who meet the clearance requirements of Florida Statute 1012.467(2)(g) when it is not anticipated that they will come into direct contact with students. However, pursuant to Florida Statute 1012.467 and School Board Rule 7.142, if the District is unable to

rule out that Proposer's employees or subcontractors may come into contact with students, then, in the paramount interest of student safety, the employees will be required to undergo and pass background screening in accordance with School Board Rule 7.142, unless another statutory exemption applies.

**For this RFP:**

- A.  Student contact not anticipated
- B.  Student contact anticipated

If Box A is checked, statewide badge will be recognized or issued, if applicable.

If Box B is checked, background screening pursuant to School Board Rule 7.142(4) will be required.

**The Proposer acknowledges and agrees to comply with the requirements of School Board Rule 7.142. Proposer shall be responsible for the expense of the background screening of its employees.**

- 32. VENUE:** Any suit, action, or other legal proceedings arising out of or relating to any contract awarded based upon this RFP shall be brought in a court of competent jurisdiction in St. Johns County, Florida. The parties waive any right to require that a suit, action, or proceeding arising out of this Agreement be brought in any other jurisdiction or venue.
- 33. WAIVER OF JURY TRIAL:** The parties knowingly, voluntarily, and intentionally waive their right to trial by jury with respect to any litigation arising out of, under, or in connection with this RFP or any contract awarded upon this RFP. This provision is a material inducement for the School Board to enter into the proposal contract.
- 34. LOBBYING:** Lobbying is not permitted with any District personnel or School Board members in connection with any RFP or competitive solicitation. All oral or written inquiries must be directed through the Purchasing Department. Lobbying is defined as any action taken by an individual, firm, association, joint venture, partnership, syndicate, corporation, and all other groups who seek to influence the governmental decision of a board member or district personnel on the award of this contract. Any proposer or any individuals that lobby on behalf of proposer will result in rejection/disqualification of said proposal.
- 35. ASSIGNMENTS:** The successful bidder may not sell, assign or transfer any of its rights, duties or obligations under this bid contract without the prior written consent of the School Board.
- 36. PROTEST:** Failure to give notice or file a protest within the time prescribed in Section 120.57 (3), Florida Statutes, shall constitute a waiver of any protest.
- 37. COMPLIANCE WITH FEDERAL REGULATIONS:** All contracts involving Federal funds will contain certain provisions required by applicable sections of Title 34, Section 80.36(l) and 85.510, Code of Federal Regulations and are included by reference herein.
  - a) **Debarment:** The Proposer certifies by signing the Proposal and required response form that the Proposer and its principals are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from participation in Federally funded transactions and may, in certain instances, be required to provide a separate written certification to this effect.

During the term of any contract with the School Board, in the event of debarment, suspension, proposed debarment, declared ineligible or voluntarily excluded from participation in Federally funded transactions, the proposer shall immediately notify the Purchasing Department and the Superintendent, in writing.
  - b) **Records:** Vendors will also be required to provide access to records, which are directly pertinent to the contract and retain all required records for three (3) years after the School Board's final **payment is made**.
  - c) **Termination:** For all contracts involving Federal funds, in excess of \$10,000, the School Board reserves the right to terminate the contract for cause as well as convenience by issuing a certified notice to the vendor.
- 38. PUBLIC ENTITY CRIME:** Pursuant to Florida Statute 287.133, a person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a proposal on a contract to provide any goods or services to a public entity, may not submit a proposal on a contract with a public entity for the construction or repair of a public building or public work, may not submit proposals on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017 of Florida Statute, for CATEGORY TWO for a period of thirty-six (36) months from the date of being placed on the convicted vendor list.
- 39. COLLECTION, USE OR RELEASE OF SOCIAL SECURITY NUMBERS:** The St. Johns County School District is authorized to collect, use or release social security numbers (SSN) of vendors, contractors and their employees and for the following purposes, which are noted as either required or authorized by law to be collected. The collection of social security numbers is either specifically authorized by law or imperative for the performance of the District's duties and responsibilities as prescribed by law (Sections 119.07(5)(a)2 and 3, Florida Statutes):
  - a) **Criminal history and criminal background checks/Identifiers for processing fingerprints by Department of Law Enforcement/, if SSN is available** [Required by Fla. Admin. Code 11 C-6.003 and Fla. Stat. § 119.07(5)(a)6]

- b) **Vendors/Consultants that District reasonably believes would receive a 1099 form if a tax identification number is not provided including for IRS form W-9** [Required by 26 C.F.R. § 31.3406-0, 26 C.F.R. § 301.6109-1, and Fla. Stat. § 119.07(5)(a)2 and 6]

**40. PURCHASING AGREEMENTS AND STATE TERM CONTRACTS:** The Purchasing agreements and state term contracts available under s. 287.056 have been reviewed.

**41. PUBLIC RECORDS AND CONFIDENTIALITY:** Subject to the limited confidentiality afforded pending RFP Proposals by Florida Statute 119.071, the RFP and all proposals are public records subject to disclosure pursuant to the Florida Public Records Law. Requests for tabulations and other records pertinent to the competitive solicitation shall be processed in accordance with the Florida Public Records Law. By submitting a proposal, proposers will be deemed to have waived any claim of confidentiality based on trade secrets, proprietary rights, or otherwise.

Florida Statute 119.0701 requires the Contractor to comply with Florida's public records laws with respect to services performed on behalf of the School District. Specifically, the Statute requires that the Contractor:

- a) Keep and maintain public records required by the School District to perform the service.
- b) Upon request from the School District's custodian of public records, provide the School District with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in this chapter or as otherwise provided by law.
- c) Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the contract if the contractor does not transfer the records to the School District.
- d) Upon completion of the contract, transfer, at no cost, to the public agency all public records in possession of the Contractor or keep and maintain public records required by the School District to perform the service. If the Contractor transfers all public records to the School District upon completion of the contract, the contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the contractor keeps and maintains public records upon completion of the contract, the contractor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the School District, upon request from the School District's custodian of public records, in a format that is compatible with the information technology systems of the School District.

**IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT 904-547-7637; [sjpubrec@stjohns.k12.fl.us](mailto:sjpubrec@stjohns.k12.fl.us) ; OR ST. JOHNS COUNTY SCHOOL BOARD, ATTN: COMMUNITY RELATIONS, 40 ORANGE STREET, ST. AUGUSTINE, FL 32084**

# Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions

*This certification is required by the Department of Education regulations implementing Executive Order 12549, Debarment and Suspension, 34 CFR Part 85, for all lower tier transactions meeting the threshold and tier requirements stated at Section 85.110.*

1. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.
2. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.
3. The prospective lower tier participant shall provide immediate written notice to the person to whom this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
4. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations.
5. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

6. The prospective lower tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion - Lower Tier Covered Transactions," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
7. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.
8. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
9. Except for transactions authorized under paragraph 5 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

## Instructions for Certification:

1. The prospective lower tier participant certifies, by submission of this proposal that neither it nor its principals are:
  - (a) presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency;
  - (b) have not within a three-year period preceding this application been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in performing a public (federal, state or local) transaction or contract under a public transaction; or for violation of federal or state antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property;
  - (c) are not presently indicted for or otherwise criminally or civilly charged by a government entity (federal, state or local) with commission of the offenses enumerated in this certification; or
  - (d) have not within a three-year period preceding this application had one or more public transaction (federal, state or local) terminated for cause or default.
2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

Name of Applicant	PR/Award Number and/or Project Name
Printed Name	Title of Authorized Representative
Signature	Date

## DRUG FREE WORKPLACE CERTIFICATION FORM

In accordance with 287.087, Florida Statutes, preference shall be given to businesses with drug-free workplace programs. Whenever two or more bids, which are equal with respect to price, quality, and service, are received by the state or by any political subdivision for the procurement of commodities or contractual services, a bid received from a business that certifies that it has implemented a drug-free workplace program *shall be given preference* in the award process. Established procedures for processing tie bids will be followed if none of the tied vendors have a drug-free workplace program. In order to have a drug-free program, a business shall:

- 1) Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the action that will be taken against employees for violations of such prohibition.
- 2) Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
- 3) Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in subsection (1).
- 4) In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
- 5) Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.
- 6) Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

As the person authorized to sign the statement, I certify that this firm complies fully with the above requirements.

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(Vendor's Signature)





**PROPOSER’S STATEMENT OF PRINCIPAL PLACE OF BUSINESS**

(Must be completed & submitted with each competitive solicitation)

RFP number and description: \_\_\_\_\_

Identify the state in which the Proposer has its principal place of business: \_\_\_\_\_

**Instructions: IF your principal place of business above is located within the State of Florida, the Proposer must sign below and submit this form with your bid response, no further action is required.**

**However, if your principal place of business is outside of the State of Florida, the following must be completed by an attorney and returned with your bid response. FAILURE TO COMPLY SHALL BE CONSIDERED TO BE NON-RESPONSIVE TO THE TERMS OF THE SOLICITATION.**

**OPINION OF OUT –OF-STATE BIDDER’S ATTORNEY ON BIDDING PREFERENCES**

(To be completed by the Attorney for an Out-of-State Proposer)

**NOTICE:** Section 287.084(2), Florida Statute, provides that “a vendor whose principal place of business is outside this state must accompany any written bid, proposal, or reply documents with a written opinion of an attorney at law licensed to practice law in that foreign state, as to the preferences, if any or none, granted by the law of that state (or political subdivision thereof) to its own business entities whose principal places of business are in that foreign state in the letting of any or all public contracts.” See also: Section 287.084(1), Florida Statutes.

**LEGAL OPINION ABOUT STATE BIDDING PREFERENCES**

(Please Select One)

\_\_\_\_\_ The Proposer’s principal place of business is in the State of \_\_\_\_\_ and it is my legal opinion that the laws of that state **do not grant a preference** in the letting of any or all public contracts to business entities whose principal places of business are in that state.

\_\_\_\_\_ The Proposer’s principal place of business is in the State of \_\_\_\_\_ and it is my legal opinion that the laws of that state **grant the following preference(s)** in the letting of any or all public contracts to business entities whose principal places of business are in that state: (Please describe applicable preference(s) and identify applicable preference(s) and identify applicable state law(s)):

\_\_\_\_\_  
\_\_\_\_\_

**LEGAL OPINION ABOUT POLITICAL SUBDIVISION BIDDING PREFERENCES**

(Please Select One)

\_\_\_\_\_ The Proposer’s principal place of business is in the political subdivision of \_\_\_\_\_ and it is my legal opinion that the laws of that political subdivision **do not grant a preference** in the letting of any or all public contracts to business entities whose principal places of business are in that political subdivision.

\_\_\_\_\_ The Proposer’s principal place of business is in the political subdivision of \_\_\_\_\_ and the laws of that political subdivision **grant the following preference(s)** in the letting of any or all public contracts to business entities whose principal places of business are in that political subdivision: (Please describe applicable preference(s) and identify applicable authority granting the preference(s)):

\_\_\_\_\_  
\_\_\_\_\_

Signature of out-of-state proposer’s attorney: \_\_\_\_\_

Attorney’s printed name: \_\_\_\_\_

Address of out-of-state proposer’s attorney: \_\_\_\_\_

Phone number/e-mail of out-of-state proposer’s attorney: \_\_\_\_\_

Attorney’s states of bar admission: \_\_\_\_\_

Proposer’s Signature: \_\_\_\_\_

Proposer’s Printed Name: \_\_\_\_\_

# RFP #2018-33 Operation and Management of Water and Wastewater Treatment Plant

## ST. JOHNS COUNTY SCHOOL DISTRICT

### REQUEST FOR PROPOSAL

#### SPECIAL CONDITIONS

##### 1.0 INTRODUCTION

- 1.1 The St. Johns County School District (hereinafter referred to as the District) is requesting proposals for the operation and management of the Water Treatment Plant and Waste Water Treatment Plant at South Woods Elementary School, 4750 State Road 206 West, Elkton, FL 32033. The District is also seeking pricing for additional and/or repair work on an as needed basis. The District makes no guarantee of a specific amount of additional and/or repair work to be completed under this proposal.

##### 2.0 INSTRUCTIONS FOR RFP SUBMITTAL

- 2.1 All proposals must be received no later than, October 12, 2018 @ 1:30 PM and must be delivered to:

St. Johns County School District  
Sebastian Administrative Annex  
Purchasing Department  
3015 Lewis Speedway, Building 5  
St. Augustine, FL 32084

If a proposal is transmitted by US mail or other delivery medium, the proposer will be responsible for its timely delivery to the address indicated

- 2.2 Any proposal received after the stated date and time, **WILL NOT** be considered.
- 2.3 One manually signed original proposal and three (3) photocopies of the proposal; must be sealed in one package and clearly labeled "RFP #2018-33 Operation and Management of Water and Wastewater Treatment Plant" on the outside of the package. The legal name, address, proposer's contact person and telephone number must also be clearly noted on the outside of the package.
- 2.4 Failure to submit one original proposal with a manual signature may result in rejection of the bid.
- 2.5 All proposals must be signed by an officer or employee having the authority to legally bind the proposer.
- 2.6 Any corrections must be initialed. This includes corrections made using correction fluid (white out) or any other method of correction.

## **RFP #2018-33 Operation and Management of Water and Wastewater Treatment Plant**

- 2.7 Proposers should become familiar with any local conditions that may, in any manner, affect the services required. The proposer(s) are required to carefully examine the RFP terms and to become thoroughly familiar with any and all conditions and requirements that may in any manner affect the work to be performed under the contract. No additional allowance will be made due to lack of knowledge of these conditions.
- 2.8 Proposals not conforming to the instructions provided herein will be subject to disqualification at the sole discretion of the District.
- 2.9 Any proposal may be withdrawn prior to the date and time the proposals are due. Any proposal not withdrawn will constitute an irrevocable offer for a period of 90 days, to provide the District with the services specified in the proposal.
- 2.10 Pursuant to Florida Statute, it is the practice of the District to make available for public inspection and copying any information received in response to an Invitation to Bid or Request for Proposal (RFP). No action on the part of the respondent to a Bid or RFP will create an obligation of confidentiality on the part of the District, including but not limited to, making a reference in the response to the trade secret statutes. It is recommended that potential suppliers exclude from their response any information that, in their judgment may be considered a trade secret.
- 2.11 When a school district is required to make purchases of personal property through competitive solicitation and the lowest responsible and responsive bid, proposal or reply is by a vendor whose principal place of business is in a state or political subdivision which grants a preference by that state or political subdivision, then the school district shall award an equal preference to the lowest responsible and responsive vendor having a principal place of business within Florida. In a competitive solicitation in which the lowest bid is submitted by a vendor whose principal place of business is located outside the state, and that state does not grant a preference in competitive solicitation to vendors having a principal place of business in that state, the preference to the lowest responsible and responsive vendor having a principal place of business in the State of Florida shall be five (5) percent. F.S. 287.084(1)(a).

A vendor whose principal place of business is outside this state must accompany any written bid, proposal or reply documents with a written opinion of an attorney at law licensed to practice law in that foreign state, as to the preferences, if any or none, granted by the law of that state to its own business entities whose principal places of business are in that foreign state in the letting of any or all public contracts. F.S. 287.084(2)

### **3.0 AWARD**

- 3.1 The District reserves the right to waive any irregularities and technicalities and may, at its sole discretion, request a re-submittal or other information to evaluate any or all proposals.

## **RFP #2018-33 Operation and Management of Water and Wastewater Treatment Plant**

- 3.2 The District reserves the right to require proposer(s) to submit evidence of qualifications or any other information the Board may deem necessary, including audited and unaudited financial statements.
- 3.3 The District reserves the right, prior to Board approval, to withdraw the RFP or portions thereof, without penalty.
- 3.4 The District reserves the right to: (1) accept the proposal of any firm to be in the best interest of the District and (2) to reject any and/or all proposals.
- 3.5 The District reserves the right to conduct interviews with any of the proposers and to require a formal presentation by any of the proposers.
- 3.6 It is the intent of the District to award this RFP to a single source.
- 3.7 The RFP award will be made based on funds availability and will be at the sole discretion of the St. Johns County School Board.

### **4.0 CONTRACT/RENEWAL**

- 4.1 The term of this contract shall be from December 1, 2018 to November 30, 2021 and may by mutual agreement between the District and the awarded Contractor be renewable for up to two (2) additional one (1) year periods.

At the end of the initial three (3) year term, the District will consider a price increase provided the proposed price increase does not exceed the lesser of 3% or the rate of inflation as determined by the Consumer Price Index (CPI) for urban wage earners and clerical workers, U.S. city average, all items (1982-84=100), published by the U.S. Bureau of Labor Statistics, or any successor or substitute index appropriately adjusted for the prior 12 month period using the first published CPI for the month immediately preceding the month of the contract renewal request. The awarded Contractor must request the increase in writing at least 60 days prior to the renewal of the contract.

- 4.2 All terms and conditions of this RFP, any addenda, and negotiated terms are incorporated into the contract by reference as set forth herein.

### **5.0 RFP INQUIRIES/NOTICES**

- 5.1 In order to maintain a fair and impartial competitive process, District staff or Board members will not communicate with prospective Contractors regarding this RFP after the release date. All questions and inquiries must be submitted via email no later than September 28, 2018 @ 12:00 PM to:

Patrick Snodgrass  
Director of Purchasing  
[patrick.snodgrass@stjohns.k12.fl.us](mailto:patrick.snodgrass@stjohns.k12.fl.us)

## **RFP #2018-33 Operation and Management of Water and Wastewater Treatment Plant**

**Communication via email as stated above is the only means prospective bidders may contact the District regarding this solicitation. Violation of this section is grounds for automatic disqualification of a prospective bidder's submittal.**

The District will not respond to questions and inquiries submitted after the deadline stated above.

All questions will be answered via posting to the DemandStar website [www.demandstar.com](http://www.demandstar.com) no later than October 1, 2018 @ 5:00 PM.

- 5.2 Copies of addendum will be made available for inspection at the District's Purchasing Department where bid documents will be kept on file.
- 5.3 No Addendum will be issued later than October 1, 2018, except an addendum withdrawing the RFP or one which includes postponement of the date for receipt of proposals or one containing the questions and answers.
- 5.4 All notices relative to this RFP, including but not limited to initial release, addendums, letters of intent and awards will be posted on the DemandStar web site – [www.demandstar.com](http://www.demandstar.com).

### **6.0 MANDATORY SITE VISIT**

A **MANDATORY Site Visit for Contractors** is scheduled for September 21, 2018 @ 9:30 AM at the Water Treatment Plant and Wastewater Treatment Plant located at South Woods Elementary School.

South Woods Elementary School  
4750 State Road 206 W  
Hastings, FL 32033

Contractors must become familiar with any local conditions that may in any manner affect the service required. Contractor is required to carefully examine the terms and to become familiar with any and all conditions and requirements that may affect the work to be performed under this proposal. No additional allowance will be made due to lack of knowledge of these conditions.

### **7.0 BACKGROUND**

South Woods Elementary School opened in St. Johns County in August 2005. At the time of the school opening, it was determined that the school would be best served with its own Water Treatment Plant and Waste Water Treatment Plant. The Water Treatment Plant was brought on line and is permitted under the State of Florida Department of Environmental Protection, permit number FLA0429333. The facility has an industrial permit for the treatment of reverse osmosis reject water from the Water Treatment Plant.

## **RFP #2018-33 Operation and Management of Water and Wastewater Treatment Plant**

Reject water is dosed with carbon dioxide and discharged into the Deep Creel, Class III Fresh Waters. A copy of the permit is attached as **Attachment A**.

The Waste Water Treatment Plant was brought on line and is permitted under the State of Florida Department of Environmental Protection, permit number FLA395692. A copy of the permit is attached as **Attachment B**. Please note that there may be slight variations in the specifications contained in the permits and respective plants.

PWS #255-4489 is also utilized at this site.

### **8.0 SCOPE OF SERVICES**

8.1 This RFP is for the operation, management and maintenance of the Water Treatment Plant and Wastewater Treatment Plant at South Woods Elementary School. All work performed under this RFP shall comply with all local, state and federal codes, laws and regulations relative to the type of work being performed.

8.2 The awarded Contractor is responsible for supplying, at its own expense, all supervision, labor, equipment, machines, tools, materials, transportation, and anything necessary to perform work under this RFP. The District will not purchase, lease or otherwise acquire equipment for use by the Contractor in performance of work under this RFP.

8.3 The awarded Contractor shall pay or reimburse the District for all fines and penalties levied by any local, state or federal agency as a result of non-compliance of the operation of the Water Treatment Plant or Wastewater Treatment Plant during the term of the Agreement resulting from this RFP.

8.4 The awarded Contractor shall provide all sampling as required per permit.

### **8.5 Water Treatment Plant**

8.5.1 The awarded Contractor shall operate, manage, and maintain the Water Treatment Plant in compliance with permit number FLA0429333 issued by the State of Florida Department of Environmental Protection.

8.5.2 The awarded Contractor shall operate, manage, and maintain the Water Treatment Plant to ensure maximum efficiency at the lowest possible cost, while maintaining compliance with all codes, laws and regulations.

8.5.3 The awarded Contractor shall perform quarterly preventive maintenance of the equipment and provide a report to the District's Director for Maintenance or designee. This includes:

- SDI and TDS testing of the RO membranes, permeate, reject and raw water line.
- Inspection of Feed Equipment to ensure operability

## **RFP #2018-33 Operation and Management of Water and Wastewater Treatment Plant**

- Perform amp draw and inspection of all equipment including but not limited to motive pumps, air compressor, finished drinking water and reject blowers, high service pumps and well pumps

8.5.4 The awarded Contractor shall be required to visit six (6) days per week, Sunday through Friday, with a minimum of one (1) hour each visit.

8.5.5 The awarded Contractor shall perform all repairs associated with maintenance of the Water Treatment Plant, and shall be responsible for basic and reasonable operational supplies.

8.5.6 The awarded Contractor shall ensure visual inspection is performed during the full operation of the Water Treatment Plant at least once per week.

### **8.6 Wastewater Treatment Plant**

8.6.1 The awarded Contractor shall operate, manage, and maintain the Wastewater Treatment Plant in compliance with permit number FLA395692 issued by the State of Florida Department of Environmental Protection.

8.6.2 The awarded Contractor shall operate, manage, and maintain the Wastewater Treatment Plant to ensure maximum efficiency at the lowest possible cost, while maintaining compliance with all codes, laws and regulations.

8.6.3 The awarded Contractor shall be required to visit six (6) days per week, Sunday through Friday, with a minimum of thirty (30) minutes on five (5) days, and a visual check on the sixth day.

8.6.4 The awarded Contractor shall perform all repairs associated with maintenance of the Wastewater Treatment Plant, and shall be responsible for basic and reasonable operational supplies.

8.6.5 The awarded Contractor shall be responsible for all sludge hauling associated with the Wastewater Treatment Plant when approved by the District.

8.7 The awarded Contractor shall notify the District's Director for Maintenance or designee both verbally and in writing immediately after discovery of any needed repairs.

8.8 Prior to any additional work, the awarded Contractor shall provide a written job quote. The submitted price for parts and materials percentage mark up over cost, and hourly labor rate will be used as the basis for each job quote. The requirements of each job will be determined by an authorized District representative. Each job quote must contain a detailed listing of the labor and materials required to completed the work based on the individual requirements of each job. The listing of product must include the appropriate unit of measure, quantity and cost to the District. Any materials based on a percentage (%) markup over cost must show the Contractors cost and the appropriate markup.

## **RFP #2018-33 Operation and Management of Water and Wastewater Treatment Plant**

**EXCEPTIONS REGARDING APPROVED QUOTE:** In the event of an emergency when the public interest or property of the District would suffer material injury or damage by delay; when an immediate threat to the proper performance of essential functions exists; or will likely result in material loss or damage to property, bodily injury, or loss of life if immediate action is not taken; or no action could result in non-compliance with any local, state or federal agency.

**No later than 48 hours after the emergency, the awarded Contractor must submit a brief written statement of the circumstances to the Director of Maintenance Services. A copy of this statement must be submitted with the invoice. Failure to comply may result in a delay of payment.**

- 8.9 The District reserves the right to inspect all work prior to payment. The awarded Contractor shall promptly correct all work rejected by an authorized District representative at no additional cost to the District.
- 8.10 The awarded Contractor shall provide itemized invoices for additional and/or repair work for hours worked and goods/materials received. Invoices are to reflect the prices submitted on the proposal sheet. The District may only be billed for hours worked and goods/materials received. The District reserves the right to require the awarded Contractor to provide documentation to substantiate their labor and material cost.
- 8.11 The awarded Contractor shall not outsource any services without the written consent of an authorized District representative.
- 8.12 The awarded Contractor shall be responsible for any damage to District property due to negligence on the part of the awarded Contractor, its employees or its agents.
- 8.13 The proposal requires all Contractors to name individual(s) that, if awarded, would be assigned to the operation, management and maintenance of the Water Treatment Plant and Wastewater Treatment Plant. Any replacement personnel must have, at a minimum, credentials equivalent to the individuals whom they replace. In the event the awarded Contractor changes personnel assigned to work required under this RFP, written notice is required to the District. The District may require resumes of all replacement personnel for review. The awarded Contractor agrees that they will remove (within a mutually agreed upon period of time) any individual providing services under the contract, if, after the matter has been reviewed jointly by the District and the awarded Contractor, the District requests such action in writing. Any such removal shall not necessarily reflect on the capabilities or competencies of the individual so removed. Nothing herein shall affect the responsibilities of the awarded Contractor.

### **9.0 PROPOSAL FORMAT AND EVALUATION CRITERIA**

In order to maintain comparability and enhance the review process, it is required that proposals be organized in the manner specified below. Include all information in your



## **RFP #2018-33 Operation and Management of Water and Wastewater Treatment Plant**

proposal. **Proposers are encouraged to provide tab separations for each item. Proposals received which do not contain ALL items listed in this section will be considered non-responsive.**

- A. RFP COVER SHEET: Required response form (Page 1 of RFP) with all required information completed and all signatures as specified.
- B. DEBARMENT FORM
- C. DRUG FREE WORKPLACE CERTIFICATION FORM
- D. PRINCIPAL PLACE OF BUSINESS FORM
- E. INSURANCE COVERAGE: Insurance certificates evidencing coverage as specified in section 11.0 or a signed statement indicating that coverage meeting the required coverage will be obtained prior to commencement of any work under this RFP.
- F. QUALIFICATIONS AND EXPERIENCE OF THE FIRM AND STAFF:  
Provide responsive information to each of the following:
  - 1. Indicate the number of years the firm has provided similar service.
  - 2. Describe the capabilities of the firm including skilled personnel.
  - 3. Give the location of the office from which staff assigned to the work required under this RFP will be based out of (“Home Office”).
  - 4. Describe the capabilities of the Home Office including skilled personnel.
  - 5. Indicate the number of years the Home Office has provided similar service.
  - 6. Identify management and personnel that would be assigned to all work required under this RFP. Resumes of these individuals must be submitted with the proposal.
  - 7. Identify the specific individual who would serve the District on a day-to-day basis as a primary point of contact to the District.
  - 8. Provide references, including names, current telephone numbers and current email addresses for other public agencies or companies where work similar to that required by this RFP was performed.

# RFP #2018-33 Operation and Management of Water and Wastewater Treatment Plant

## G. FIRM'S APPROACH AND METHODOLOGY

1. Describe how your personnel will be deployed to ensure maximum efficiency is achieved in operating, managing, and maintaining the Water Treatment Plant and Wastewater Treatment Plant.
2. Provide an assessment of current conditions at the Water Treatment Plant and Wastewater Treatment Plant. This assessment should include observations relative to operation of the plant and any areas of concern. Firms will have the opportunity to observe conditions at the Mandatory Site Visit or may observe conditions at any time by making arrangements with the school based maintenance manager at the site.

## H. PRICING

Complete and submit Fee Schedule and Certification form. Pricing for a flat annual fee to operate, manage and maintain the Water Treatment Plant and Wastewater Treatment Plant is required. Pricing shall include all sampling as required by permit.

The following items are not included in the flat annual fee submitted on the Fee Schedule and Certification Form:

- Sludge Hauling shall be provided by the awarded Contractor at a percentage markup over cost after District approval
- Needed chemicals shall be provided by the District

## 10.0 PROPOSAL EVALUATION PROCESS

- 10.1 Proposals are received and publicly opened. Only names of Proposers are read at this time.
- 10.2 All proposals will be evaluated in accordance with the evaluation criteria specified in this document.
- 10.3 The proposal evaluation process shall consist of an evaluation of all responsive and responsible proposals by a committee ("Committee") consisting of District personnel. Committee members shall independently review and score the written proposals in each criteria in Section 9.0 F-H, awarding points ranging from 90% to 100% for the maximum points for excellent, 80% to 90% for good, 70% to 80% for satisfactory, 60% to 70% for marginally unsatisfactory and 0% to 60% for unsatisfactory. The Committee member' scores will be totaled for each proposal and they will be ranked from highest to lowest based on the total number of points awarded.

<b>PROPOSAL EVALUATION</b>	<b>MAXIMUM POINTS</b>
Qualifications and Experience of the Firm and Staff	30
Firm's Approach and Methodology	35
Pricing	35
<b>Maximum Points</b>	<b>100</b>

## **RFP #2018-33 Operation and Management of Water and Wastewater Treatment Plant**

- 10.4 The Committee reserves the right to meet as a group prior to completing the scoring process in order to discuss the proposals and scoring. Any such meeting will be noticed on the District website and will be conducted as a public meeting.
- 10.5 The Committee may consult with other District staff and third-party consultants for the purpose of gathering facts, information and feedback about the RFP and the proposals, but such other staff and consultants will not participate in the deliberation and evaluation process, as such communications are not subject to the sunshine law and will not be noticed and may take place outside of public meetings.
- 10.6 Upon completion of the evaluation, the Committee will recommend to the Board that it authorize District staff to pursue negotiations and execute a contract with the highest ranked proposer. If a satisfactory contract cannot be negotiated, negotiations with the highest ranked proposer will be terminated at the discretion of the District and negotiations may commence with the second highest ranked proposer. This process shall continue until a satisfactory contract is reached with one of the proposers, subject to acceptance and final approval by the Board. If a contract cannot be reached with any of the proposers, the District reserves the right to acquire commodities and services specified in this solicitation from any Contractor of its choosing through direct negotiation, in accordance with Florida Department of Education Rules.

### **11.0 INSURANCE REQUIREMENTS**

It is mandatory that the person/firm submitting the proposal have minimum Liability limits of \$1,000,000.00 for Comprehensive General Liability, including Product Liability Coverage. The person/firm submitting the bid must also have a minimum Liability Limit of \$1,000,000.00 for Motor Vehicle Liability and at least the statutory limit of Worker's Compensation. All coverage must be included on the certificate(s). Proposer's insurance provider must be rated A- or better by AM Best. If the Proposer's current certificate of insurance does not meet the amount required, a statement must be included with the proposal document from their insurance carrier indicating that if a Proposal award was made to the firm, that the carrier would write the necessary insurance coverage. The successful Proposer must then have the required insurance placed in force with written notification provided to the Director of Purchasing, prior to issuance of a purchase order that authorizes the work performance to begin. Failure to do so may invalidate the award and result in an award to the next lowest responsible proposer. **Successful Contractor must list St. Johns County School Board as an additional insured.**

### **12.0 INVOICING**

The awarded Contractor shall invoice the flat annual fee on a monthly basis. The flat annual fee divided by twelve (12) shall equal the monthly invoice amount.

Any invoices submitted for additional and/or repair work must show the number and cost of labor hours, the cost of materials, and the amount of the material mark-up. Prices listed in the submittal must be used for billing. A delay of payment may result if invoices

## **RFP #2018-33 Operation and Management of Water and Wastewater Treatment Plant**

submitted do not separate labor, materials and materials mark-up. A work ticket signed by the school based maintenance manager or an authorized District representative indicating approval must be included with the invoice. Failure to submit a copy of the signed work ticket may result in a delay of payment.

### **13.0 CONTRACTOR PAYMENT**

The St. Johns County School District requires all Contractors responding to this RFP to accept payment from the District on a Visa credit card. No other payment options will be made available. St. Johns County School District will issue a unique “ghost” credit card number to each Contractor. This information must be held on file for all future payments. The card has a zero balance until payments have been authorized by the district.

After goods are delivered or services rendered the awarded Contractor submit invoices to the Accounts Payable Department according to the current process. The payment terms are set as IMMEDIATE (next accounts payable run). When payments are authorized, an email notification is sent to an email address provided by the awarded Contractor. The email notification includes the invoice number, invoice date, and amount of payment. Once the awarded Contractor receives the email the credit card has been authorized to charge for the amount listed in the email. When the awarded Contractor charges the full amount authorized in the email the card will return to a zero balance until the next payment is authorized.

### **14.0 PURCHASE ORDERS**

A Purchase Order issued by the Purchasing Department or from School Internal Accounts is the only legal authorization for Contractors to perform services or provide commodities to the District. A commitment, either written or verbal, from District employees without a Purchase Order issued by the Purchasing Department or from School Internal Accounts does not constitute an obligation by the District to a Contractor. Contractors that perform services or provide commodities without a Purchase Order issued by the Purchasing Department or from School Internal Accounts do so at their own risk and at risk of non-payment. Additional information regarding doing business with the District can be found on the District web site, [www.stjohns.k12.fl.us](http://www.stjohns.k12.fl.us) under the Purchasing Department.

**FEE SCHEDULE AND CERTIFICATION**

	<b>Flat Annual Fee to Operate, Manage and Maintain the Water Treatment Plant and Wastewater Treatment Plant</b>
<b>Year One Total Annual Fee (December 1, 2018 - November 30, 2019)</b>	
<b>Year Two Total Annual Fee (December 1, 2019 - November 30, 2020)</b>	
<b>Year Three Total Annual Fee (December 1, 2020 - November 30, 2021)</b>	
<b>Additional and/or Repair Work</b>	
	<b>Hourly Rate</b>
Standard Hourly Rate for additional and/or repair work. The standard hourly rate shall apply for additional and/or repair work for services from 7:00 am to 5:00 pm, Monday through Friday.	
Non-Standard Hourly Rate for additional and/or repair work. The non-standard hourly rate shall apply for additional and/or repair work for services from 5:01pm to 6:59am, Monday through Friday. The non-standard hourly rate shall also apply to weekends.	
	<b>Percentage (%) Mark Up</b>
A percentage (%) markup over cost for all materials, supplies and equipment for additional and/or repair work.	

I hereby certify that I am submitting the enclosed information as my company's cost proposal by virtue of executing and returning this FEE SCHEDULE. I further certify full, complete and unconditional acceptance of the contents of the Request for Proposals, and all appendices and the contents of any Addenda released thereto.

Company Name: \_\_\_\_\_

Authorized Signature: \_\_\_\_\_

Print Name: \_\_\_\_\_

Date: \_\_\_\_\_



Attachment A  
**Florida Department of  
Environmental Protection**

Rick Scott  
Governor

Carlos Lopez-Cantera  
Lt. Governor

Northeast District  
8800 Baymeadows Way West, Suite 100  
Jacksonville, Florida 32256

Jonathan P. Steverson  
Secretary

March 15, 2016

In the Matter of an  
Application for Permit by:

Mr. Tim Forson  
Deputy Superintendent of Operations  
St. Johns County School District  
40 Orange Street  
St. Augustine, Florida 32084

**Permit No.: FL0429333 (Minor)**  
**File Number: FL0429333 – 004 – IW5D**  
**South Woods Elementary RO WTP**  
**St. Johns County**

### **NOTICE OF PERMIT ISSUANCE**

Enclosed is Industrial Wastewater Facility Permit Number FL0429333 to operate an existing 0.032 MGD daily maximum flow permitted industrial wastewater discharge of demineralization concentrate from the South Woods Elementary School reverse osmosis membrane filtration water treatment plant (WTP) to Deep Creek (Class III Fresh Waters). The permit grants continuance of existing mixing zones in Deep Creek for the following effluent parameters: specific conductance, un-ionized ammonia, gross alpha particle and combined radium 226+228. There are no new or expanded discharges to surface waters. The facility is located at latitude 29° 43' 35.95" N, longitude 81° 27' 47.32" W on 4700 State Road 206 West, Hastings, Florida 32145 in St. Johns County.

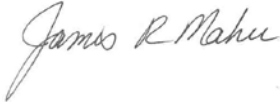
This permit is issued under Chapter 403, Florida Statutes, and Chapters 62-4, 62-302, 62-303, 62-304, 62-620, 62-650 and 62-660 of the Florida Administrative Code (F.A.C.). **Monitoring requirements under this permit are effective on the first day of the second month following the effective date of the permit (May 1, 2016).** Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements, if any.

Any party to this order (permit) has the right to seek judicial review of the permit action under Section 120.68, Florida Statutes, by the filing of a notice of appeal under Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, with the Clerk of the Department of Environmental Protection, Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal.

The notice of appeal must be filed within 30 days from the date when this document is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



James R. Maher, PE  
Assistant District Director

JRM/aw

c: John Cuddihee, P.E., Terracon Inc.  
Kyle Hayes, Terracon, Inc.  
EPA Region IV  
St. Johns County Health Department  
St. Johns County Board of Commissioners  
Elsa Potts, P.E, FDEP  
Monica Sudano, FDEP

**FILING AND ACKNOWLEDGEMENT & CERTIFICATE OF SERVICE**

Filed on this date pursuant to § 120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged. The undersigned hereby certifies that this Notice of Permit Issuance and all copies were sent before the close of business on March 15, 2016, to the listed persons.



Clerk

March 15, 2016

Date



# Florida Department of Environmental Protection

Northeast District  
8800 Baymeadows Way West, Suite 100  
Jacksonville, Florida 32256

Rick Scott  
Governor

Carlos Lopez-Cantera  
Lt. Governor

Jonathan P. Steverson  
Secretary

## STATE OF FLORIDA INDUSTRIAL WASTEWATER FACILITY PERMIT

### PERMITTEE:

St. Johns County School District

**PERMIT NUMBER:** FL0429333 (Minor)

**FILE NUMBER:** FL0429333-004-IW5D

**EFFECTIVE DATE:** March 28, 2016

**EXPIRATION DATE:** March 27, 2021

### RESPONSIBLE OFFICIAL:

Mr. Tim Forson  
Deputy Superintendent of Operations  
St. Johns County School District  
40 Orange Street  
St. Augustine, Florida 32084  
Telephone: (904) 547-7670  
[tim.forson@stjohns.k12.fl.us](mailto:tim.forson@stjohns.k12.fl.us)

### FACILITY:

South Woods Elementary RO WTP  
4700 State Road 206 West  
Hastings, FL 32145  
St. Johns County  
Latitude: 29°43' 35.95" N      Longitude: 81°27' 47.31" W

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and applicable rules of the Florida Administrative Code (F.A.C.) and constitutes authorization to discharge to waters of the state under the National Pollutant Discharge Elimination System (NPDES). This permit does not constitute authorization to discharge wastewater other than as expressly stated in this permit. The above named permittee is hereby authorized to operate the facilities in accordance with the documents attached hereto and specifically described as follows:

### FACILITY DESCRIPTION:

The facility is an on-site reverse osmosis (RO) membrane filtration water treatment plant (WTP) serving the South Woods Elementary School. The design capacity of the WTP (PWS ID: 2554489) is 38,880 GPD.

### WASTEWATER TREATMENT:

An existing 0.032 MGD maximum daily flow permitted discharge of demineralization concentrate stream from the reverse osmosis (RO) water treatment plant (WTP). The RO demineralization concentrate waste stream is dosed with a carbon dioxide solution in the contact tank to reduce pH of the reject stream prior to entering a packed-tower air-stripper for sulfide removal and dissolved oxygen addition. The air-stripped demineralization concentrate wastewater is pumped through a 2-inch force main for discharge to Deep Creek.

### EFFLUENT DISPOSAL:

**Surface Water Discharge D-001:** An existing 0.032 MGD Daily Maximum Flow permitted discharge to Deep Creek, (WBID #2549, Class III Fresh Waters). Outfall D-001 is a 2" single-port polyethylene pipe discharging



approximately at a depth of approximately 5 feet below water surface. The point of discharge is located approximately at latitude 29°43' 25" N, longitude 81°29' 06" W.

**IN ACCORDANCE WITH:** The limitations, monitoring requirements and other conditions set forth in this Cover Sheet and Part I through Part X on pages 1 through 22 of this permit.

## 1. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

### A. Surface Water Discharges

- During the period beginning on the effective date and lasting through the expiration date of this permit, the permittee is authorized to discharge reverse osmosis WTP demineralization concentrate from Outfall D-001 to Deep Creek. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.B.3:

Parameter	Units	Max/Min	Reclaimed Water Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow	MGD	Max	0.032	Daily Maximum	Continuous	Recording Flow Meter with Totalizer	FLW-1	
		Max	0.0072	Monthly Average				
Oxygen, Dissolved (DO)	mg/L	Min	5.0	Single Sample	Weekly	Grab	EFF-1	See I.A.8
pH	s.u.	Max	8.5	Single Sample	Weekly	Grab	EFF-1	
		Min	6.0	Single Sample				
Solids, Total Suspended	mg/L	Max	Report	Single Sample	Monthly	Grab	EFF-1	
Temperature (C), Water	Deg C	Max	Report	Single Sample	Monthly	Grab	EFF-1	
Nitrogen, Ammonia, Total (as N)	mg/L	Max	Report	Single Sample	Monthly	Grab	EFF-1	
Nitrogen, Ammonia, Total unionized (as N)	mg/L	Max	0.026	Single Sample	Monthly	Calculated	CAL-1	See I.A.4,6,10
Specific Conductance	µmhos/cm	Max	4,950	Single Sample	Monthly	Grab	EFF-1	See I.A.5,10
Specific Conductance (background)	µmhos/cm	Max	Report	Single Sample	Monthly	Grab	SWB-1	
Nitrogen, Total	mg/L	Max	Report	Single Sample	Quarterly	Grab	EFF-1	See I.A.9
Phosphorus, Total (as P)	mg/L	Max	Report	Single Sample	Quarterly	Grab	EFF-1	See I.A.9
Hydrogen sulfide (un-ionized)	mg/L	Max	Report	Single Sample	Quarterly	Grab	EFF-1	

## Attachment A

Parameter	Units	Max/Min	Reclaimed Water Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Alpha, Gross Particle Activity	pCi/L	Max	20.0	Single Sample	Quarterly	Grab	EFF-1	See I.A.6,10
Radium 226 + Radium 228, Total	pCi/L	Max	12.5	Single Sample	Quarterly	Grab	EFF-1	See I.A.6,10
Acute Whole Effluent Toxicity, 96 Hour LC50 (Ceriodaphnia dubia)	percent	Min	20	Single Sample	**Once Every Five Years	Grab	EFF-1	See I.A.7
Acute Whole Effluent Toxicity, 96 Hour LC50 (Cyprinella leedsi)	percent	Min	20	Single Sample	**Once Every Five Years	Grab	EFF-1	See I.A.7

*\*\*Whole Effluent Toxicity (WET) sampling is to be conducted 12 months prior to expiration date of permit.*

2. Reclaimed water samples shall be taken at the monitoring site locations listed in Permit Condition I.A.1. and as described below:

Monitoring Site Number	Description of Monitoring Site
FLW-1	Flowmeter, in-line mag-meter at WTP downstream of treatment units
EFF-1	Effluent, after final treatment and prior to discharge into Deep Creek
CAL-1	Calculated value of un-ionized ammonia as N
SWB-1	Background sampling location in Deep Creek, upstream of discharge (D-001)

3. The discharge shall not contain components that settle to form putrescent deposits or float as debris, scum, oil, or other matter. [62-302.500(1)(a)]
4. Unionized ammonia shall be calculated based on a separate single grab sample for total ammonia. The pH and temperature at the time of the grab sample shall be used for the calculation and reported on the DMR. [62-302.530(3)]
5. The facility is granted a mixing zone for specific conductance pursuant to FAC Rule 62-4.244 for the effluent discharge from Outfall D-001 into Deep Creek. The mixing zone for specific conductance is an area with a semi-circular shape originating at the bulkhead at the point of discharge. The size of each mixing zone is 1.17 square meters with a radius of approximately 0.61 meters. [62-4.244, 62-302]
6. The facility is granted mixing zones for gross alpha particle, combined radium 226 + 228, and unionized ammonia pursuant to Rule 62-4.244, F.A.C., for the effluent discharge from Outfall D-001 into Deep Creek. The mixing zone for the above parameters is an area with a semi-circular shape originating at the bulkhead at the point of discharge. The size of each mixing zone is 7.1 square meters with a radius of approximately 1.5 meters. [62-4.244, 62-302]
7. The permittee shall comply with the following requirements to evaluate acute whole effluent toxicity of the discharge from outfall D-001.
- a. Effluent Limitation
    - (1) In any routine or additional follow-up test for acute whole effluent toxicity, the 96-hour LC50 shall not be less than **20%** effluent. [Rules 62-302.200(1); 62-302.500(1)(a)4; 62-4.241(5)(a); and 62-4.244(3)(d), F.A.C.]
  - b. Monitoring Frequency
    - (1) Routine toxicity tests shall be conducted at time of permit renewal, according to FS 403.0882(6)(d)(1), unless this toxicity test, or any subsequent toxicity test performed by the Department, does not meet toxicity requirements.
  - c. Sampling Requirements
    - (1) All tests shall be conducted on a single grab sample of final effluent.
  - d. Test Requirements
    - (1) Routine Tests: All routine tests shall be conducted using a control (0% effluent) and a minimum of five dilutions: **100%, 50%, 30%, 20%, and 10%** effluent.

(2) The permittee shall conduct 96-hour acute static renewal multi-concentration toxicity tests using the daphnid, *Ceriodaphnia dubia*, and the bannerfin shiner, *Cyprinella leedsii*, concurrently.

(3) All test species, procedures and quality assurance criteria used shall be in accordance with Methods for Measuring Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, 5<sup>th</sup> Edition, EPA-821-R-02-012. Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use.

In the event the above method is revised, the permittee shall conduct acute toxicity testing in accordance with the revised method.

(4) The control water and dilution water shall be moderately hard water as described in EPA-821-R-02-012, Table 7.

e. Quality Assurance Requirements

(1) A standard reference toxicant (SRT) quality assurance (QA) acute toxicity test shall be conducted with each species used in the required toxicity tests either concurrently or initiated no more than 30 days before the date of each routine or additional follow-up test conducted. Additionally, the SRT test must be conducted concurrently if the test organisms are obtained from outside the test laboratory unless the test organism supplier provides control chart data from at least the last five monthly acute toxicity tests using the same reference toxicant and test conditions. If the organism supplier provides the required SRT data, the organism supplier's SRT data and the test laboratory's monthly SRT-QA data shall be included in the reports for each companion routine or additional follow-up test required.

(2) If the mortality in the control (0% effluent) exceeds 10% for either species in any test, the test for that species (including the control) shall be invalidated and the test repeated. The repeat test shall begin within 14 days after the last day of the invalid test.

(3) If 100% mortality occurs in all effluent concentrations for either species prior to the end of any test and the control mortality is less than 10% at that time, the test (including the control) for that species shall be terminated with the conclusion that the test fails and constitutes non-compliance.

(4) Routine and additional follow-up tests shall be evaluated for acceptability based on the concentration-response relationship, as required by EPA-821-R-02-012, Section 12.2.6.2., and included with the bioassay laboratory reports.

f. Reporting Requirements

(1) Results from all required tests shall be reported on the Discharge Monitoring Report (DMR). If an LC50 >100% effluent occurs in the test, then ">100" shall be entered on the DMR for that test species. If an LC50 <100% effluent occurs, then the calculated LC50 effluent concentration shall be entered on the DMR for that test species.

(1) A bioassay laboratory report for each routine test shall be prepared according to EPA-821-R-02-012, Section 12, Report Preparation and Test Review, and e-mailed or mailed to the Department at the address below within 30 days after the last day of the test.

(2) For additional follow-up tests, a single bioassay laboratory report shall be prepared according to EPA-821-R-02-012, Section 12, and e-mailed or mailed within 30 days after the last day of the second valid additional follow-up test.

(3) Data for invalid tests shall be included in the bioassay laboratory report for the repeat test.

(4) The same bioassay data shall not be reported as the results of more than one test.

(5) All bioassay laboratory reports shall be e-mailed or mailed *to Jacksonville only*:

Florida Department of Environmental Protection  
Northeast District – Wastewater Section

8800 Baymeadows Way West, Suite 100  
Jacksonville, Florida 32256

g. Test Failures

(1) A test fails when the test results do not meet the limits in 7.a.(1).

(2) Additional Follow-up Tests:

(a) If a routine test does not meet the acute toxicity limitation in 7.a.(1) above, the permittee shall notify the Department at the address above within 21 days after the last day of the failed routine test and conduct two additional follow-up tests on each species that failed the test in accordance with 7.d.

(b) The first test shall be initiated within 28 days after the last day of the failed routine test. The remaining additional follow-up tests shall be conducted weekly thereafter until a total of two valid additional follow-up tests are completed.

(c) The first additional follow-up test shall be conducted using a control (0% effluent) and a minimum of five dilutions: 100%, 75%, 50%, 25%, and 12.5% effluent. The permittee may modify the dilution series in the second additional follow-up test to more accurately bracket the toxicity such that at least two dilutions above and two dilutions below the target concentration and a control (0% effluent) are run. All test results shall be statistically analyzed according to the procedures in EPA-821-R-02-012.

(3) In the event of three valid test failures (whether routine or additional follow-up tests) within a 12-month period, the permittee shall notify the Department within 21 days after the last day of the third test failure.

(a) The permittee shall submit a plan for correction of the effluent toxicity within 60 days after the last day of the third test failure.

(b) The Department shall review and approve the plan before initiation.

(c) The plan shall be initiated within 30 days following the Department's written approval of the plan.

(d) Progress reports shall be submitted quarterly to the Department at the address above.

(e) During the implementation of the plan, the permittee shall conduct quarterly routine whole effluent toxicity tests in accordance with 7.d. Additional follow-up tests are not required while the plan is in progress. Following completion or termination of the plan, the frequency of monitoring for routine and additional follow-up tests shall return to the schedule established in 7.b.(1). If a routine test is invalid according to the acceptance criteria in EPA-821-R-02-012, a repeat test shall be initiated within 14 days after the last day of the invalid routine test.

(f) Upon completion of four consecutive quarterly valid routine tests that demonstrate compliance with the effluent limitation in 7.a.(1) above, the permittee may submit a written request to the Department to terminate the plan. The plan shall be terminated upon written verification by the Department that the facility has passed at least four consecutive quarterly valid routine whole effluent toxicity tests.

(g) If a test within the sequence of the four is deemed invalid, but is replaced by a repeat valid test initiated within 14 days after the last day of the invalid test, the invalid test will not be counted against the requirement for four consecutive quarterly valid routine tests for the purpose of terminating the plan.

(4) The additional follow-up testing and the plan do not preclude the Department taking enforcement action for whole effluent toxicity failures. [62-4.241, 62-620.620(3)]

8. Effluent dissolved oxygen concentrations and other pollutants (such as CBOD5 and TKN) shall be maintained such that the discharge does not degrade dissolved oxygen level of the receiving water body (Deep Creek) below the applicable water quality criterion. By rule, no more than 10 % of the daily average percent dissolved oxygen (DO) saturation values shall be below 38%. This facility will maintain the 5.0 mg/L minimum to meet the criteria in providing a greater degree of protection. *[62-302.533(1)]*
9. In no case shall nutrient concentrations of a body of water be altered so as to cause an imbalance in natural populations of aquatic flora or fauna. *[62-302.530(47(b))]*
10. The effluent limitations specified in I.A.1., for selected parameters listed below have been calculated to ensure compliance with the applicable water quality criteria at the boundary of the mixing zone. The Permittee's discharge shall not cause an exceedance of the Chapter 62-302.530, F.A.C., Class III fresh water quality criteria outside the described mixing zones. Zones of mixing are established for the following effluent parameters:
  - a. Gross Alpha Particle – 7.1 square meters (radius of 1.5 meters),
  - b. Combined Radium 226+228 – 7.1 square meters (radius of 1.5 meters),
  - c. Un-ionized Ammonia – 7.1 square meters (radius of 1.5 meters), and
  - d. Specific Conductance – 1.17 square meters (radius of 0.61 meters)

In no case, shall a mixing zone be larger than is necessary for the discharge to completely mix with the receiving water to meet water quality standards, and in no case shall a mixing zone significantly impair the designated use of the water body other than within the established boundaries of the mixing zone. *[62-4.244(1), 62-302.530, F.A.C]*

## B. Other Limitations and Monitoring and Reporting Requirements

1. The sample collection, analytical test methods, and method detection limits (MDLs) applicable to this permit shall be conducted using a sufficiently sensitive method to ensure compliance with applicable water quality standards and effluent limitations and shall be in accordance with Rule 62-4.246, Chapter 62-160, F.A.C. and 40 CFR 136, as appropriate. The list of Department established analytical methods, and corresponding MDLs (method detection limits) and PQLs (practical quantitation limits), which is titled “**FAC 62-4 MDL/PQL Table (April 26, 2006)**” is available at <http://www.dep.state.fl.us/labs/library/index.htm>. The MDLs and PQLs as described in this list shall constitute the minimum acceptable MDL/PQL values and the Department shall not accept results for which the laboratory’s MDLs or PQLs are greater than those described above unless alternate MDLs and/or PQLs have been specifically approved by the Department for this permit. Any method included in the list may be used for reporting as long as it meets the following requirements:
  - a. The laboratory’s reported MDL and PQL values for the particular method must be equal or less than the corresponding method values specified in the Department’s approved MDL and PQL list;
  - b. The laboratory reported MDL for the specific parameter is less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Parameters that are listed as “report only” in the permit shall use methods that provide an MDL, which is equal to or less than the applicable water quality criteria stated in 62-302, F.A.C.; and
  - c. If the MDLs for all methods available in the approved list are above the stated permit limit or applicable water quality criteria for that parameter, then the method with the lowest stated MDL shall be used.

When the analytical results are below method detection or practical quantitation limits, the permittee shall report the actual laboratory MDL and/or PQL values for the analyses that were performed following the instructions on the applicable discharge monitoring report.

Where necessary, the permittee may request approval of alternate methods or for alternative MDLs or PQLs for any approved analytical method. Approval of alternate laboratory MDLs or PQLs are not necessary if the laboratory reported MDLs and PQLs are less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Approval of an analytical method not included in the above-referenced list is not necessary if the analytical method is approved in accordance with 40 CFR 136 or deemed acceptable by the Department. [62-4.246, 62-160]

2. The permittee shall provide safe access points for obtaining representative influent and effluent samples which are required by this permit. [62-620.320(6)]
3. **Monitoring requirements under this permit are effective on the first day of the second month following the effective date of the permit.** Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements, if any. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified by the REPORT type (i.e. monthly, quarterly, semiannual, annual, etc.) indicated on the DMR forms attached to this permit. Unless specified otherwise in this permit, monitoring results for each monitoring period shall be submitted in accordance with the associated DMR due dates below. DMRs shall be submitted for each required monitoring period including periods of no discharge.

REPORT Type on DMR	Monitoring Period	Mail or Electronically Submit by
Monthly	first day of month – last day of month	28 <sup>th</sup> day of following month
Quarterly	January 1 – March 31 April 1 – June 30	April 28 July 28



	July 1 – September 30 October 1 – December 31	October 28 January 28
Semiannual	January 1 – June 30 July 1 – December 31	July 28 January 28
Annual	January 1 – December 31	January 28
Toxicity	January 1 – December 31	January 28

The permittee may submit either paper or electronic DMR forms. If submitting paper DMR forms, the permittee shall make copies of the attached DMR forms, without altering the original format or content unless approved by the Department, and shall mail the completed DMR forms to the Department by the twenty-eighth (28th) of the month following the month of operation at the address specified below:

Florida Department of Environmental Protection  
Wastewater Compliance Evaluation Section, Mail Station 3551  
Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

If submitting electronic DMR forms, the permittee shall use the electronic DMR system(s) approved in writing by the Department and shall electronically submit the completed DMR forms to the Department by the twenty-eighth (28th) of the month following the month of operation. Data submitted in electronic format is equivalent to data submitted on signed and certified paper DMR forms. *[62-620.610(18)]*

- Unless specified otherwise in this permit, all reports and other information required by this permit, including 24-hour notifications, shall be submitted to or reported to, as appropriate, the Department's Northeast District Office at the address specified below:

Florida Department of Environmental Protection  
Northeast District Office  
8800 Baymeadows Way West, Suite 100  
Jacksonville, Florida 32256-7577

Phone Number - (904) 256-1700; FAX Number - (904)4 256-1589  
(All FAX copies and e-mails shall be followed by original copies.)*[62-620.305]*

- All reports and other information shall be signed in accordance with the requirements of Rule 62-620.305, F.A.C. *[62-620.305]*
- If there is no discharge from the facility on a day when the facility would normally sample, the sample shall be collected on the day of the next discharge. *[62-620.320(6)]*

## II. INDUSTRIAL SLUDGE MANAGEMENT REQUIREMENTS

- The method of sludge use or disposal by this facility is Class I solid waste landfill.
- The permittee shall be responsible for proper treatment, management, use, and land application or disposal of its sludges. *[62-620.320(6)]*
- Storage, transportation, and disposal of sludge/solids characterized as hazardous waste shall be in accordance with requirements of Chapter 62-730, F.A.C. *[62-730]*

4. The permittee shall maintain records available for inspection by the Department at the permitted facility, as follows:
  - a. Quantity of sludge generated;
  - b. Quantity of sludge transported for treatment and/or disposal;
  - c. Name and location of the site(s) to which sludge is transported;
  - d. If a person other than the permittee is responsible for sludge transportation, treatment, and/or disposal, the permittee shall also keep records of the name and address of each transporter, and copies of all shipping manifests.

*[62-620.320(6)]*

### **III. GROUND WATER REQUIREMENTS**

1. Section III is not applicable to this facility.

### **IV. ADDITIONAL LAND APPLICATION REQUIREMENTS**

1. Section IV is not applicable to this facility.

### **V. OPERATION AND MAINTENANCE REQUIREMENTS**

1. During the period of operation authorized by this permit, the wastewater facilities shall be operated under the supervision of a person who is qualified by formal training and/or practical experience in the field of water pollution control. *[62-620.320(6)]*
2. The permittee shall maintain the following records and make them available for inspection on the site of the permitted facility.
  - a. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, including, if applicable, a copy of the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;
  - b. Copies of all reports required by the permit for at least three years from the date the report was prepared;
  - c. Records of all data, including reports and documents, used to complete the application for the permit for at least three years from the date the application was filed;
  - d. A copy of the current permit;
  - e. A copy of any required record drawings; and
  - f. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date of the logs or schedules.

*[62-620.350]*

### **VI. SCHEDULES**

1. The following improvement actions shall be completed according to the following schedule. The Best Management Practices (BMP) Plan shall be prepared and implemented in accordance with Part VII of this permit.

Improvement Action	Completion Date
a. Continue implementing the existing BMP Plan	Effective date of permit

[62-620.320(6)]

2. Source water quality characterization is necessary for evaluation of demineralization concentrate discharges characteristics and identification of appropriate discharge monitoring parameters. **At the time of permit renewal, the permittee shall provide acceptable source water characterization at a minimum for the following parameters as part of DEP Form 2DC:** carbonaceous oxygen demand (CBOD), chemical oxygen demand (COD), total organic carbon (TOC), total suspended solids (TSS), ammonia (as N), total nitrogen, total phosphorus, fecal coliform, hydrogen sulfide (un-ionized), specific conductance, gross alpha particle, radium 226+228 (combined), sodium, chloride, calcium, sulfate, magnesium and bicarbonate. **Applicants should consult with the Northeast District office permitting staff regarding source water data prior to submitting an application.** Sampling and monitoring data shall be collected and analyzed in accordance with 40 CFR 136, Rule 62-4.246, F.A.C., and Chapter 62-160, F.A.C.
3. The permittee is not authorized to discharge to waters of the state after the expiration date of this permit, unless:
  - a. The permittee has applied for renewal of this permit at least 180 days before the expiration date of this permit using the appropriate forms listed in Rule 62-620.910, F.A.C., and in the manner established in the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C.; or
  - b. The permittee has made complete the application for renewal of this permit before the permit expiration date.

[62-620.335(1)-(4)]

## VII. BEST MANAGEMENT PRACTICES / STORMWATER POLLUTION PREVENTION PLANS

1. The permittee shall during the term of this permit operate the facility in accordance with the existing Best Management Practices (BMP) or in accordance with subsequent amendments to the Plan. The permittee shall also amend this Plan, to incorporate practices to achieve the objectives and specific requirements listed below. The permittee shall maintain the Plan at the facility and shall make the plan available to the Department upon request. The Plan shall be implemented in accordance with the schedule contained in Part VI of this permit. [62-620.100(3)(m)]
2. Through implementation of the Best Management Practices (BMP), the permittee shall prevent or minimize the generation and the potential for the release of pollutants from the facility to the waters of the State through normal operations and ancillary activities. [62-620.100(3)(m)]
3. The permittee shall develop and amend the BMP Plan consistent with the following objectives for the control of pollutants.
  - a. The number and quantity of pollutants and the toxicity of effluent generated, discharged or potentially discharged at the facility shall be minimized by the permittee to the extent feasible by managing each influent waste stream in the most appropriate manner.
  - b. Under the BMP Plan, and any Standard Operating Procedures (SOPs) included in the Plan, the permittee shall ensure proper operation and maintenance of the treatment facility.

- c. The permittee shall establish specific objectives for the control of pollutants by conducting the following evaluations.
  - (1) Each facility component or system shall be examined for its waste minimization opportunities and its potential for causing a release of significant amounts of pollutants to waters of the United States due to equipment failure, improper operation, and natural phenomena such as rain or adverse weather, etc. The examination shall include all normal operations and ancillary activities including but not limited to material storage areas, plant site runoff, in-plant transfer, process and material handling areas, loading or unloading operations, spillage or leaks, sludge and waste disposal, or drainage from raw material storage, as applicable.
  - (2) Where experience indicates a reasonable potential for equipment failure (e.g., a tank overflow or leakage), natural condition (e.g., precipitation), or other circumstances to result in significant amounts of pollutants reaching surface waters, the program should include a prediction of the direction, rate of flow and total quantity of pollutants which could be discharged from the facility as a result of each condition or circumstance.

*[62-620.100(3)(m)]*

4. The BMP Plan shall be consistent with the objectives in Part 3 above and the general guidance contained in the publication entitled Guidance Manual for Developing Best Management Practices (BMPs) (USEPA, 1993) or any subsequent revisions to the guidance document. The BMP Plan shall:
  - a. Be documented in narrative form, shall include any necessary plot plans, drawings or maps, and shall be developed in accordance with good engineering practices. The BMP Plan shall be organized and written with the following structure:
    - (1) Name and location of the facility.
    - (2) Statement of BMP Plan policy.
    - (3) Structure, functions, and procedures of the BMP Plan committee.
    - (4) Specific management practices and standard operating procedures to achieve the above objectives, including, but not limited to, the following:
      - (a) modification of equipment, facilities, technology, processes, and procedures,
      - (b) reformulation or redesign of products,
      - (c) substitution of materials, and
      - (d) improvement in management, inventory control, materials handling or general operational phases of the facility.
    - (5) Risk identification and assessment.
    - (6) Reporting of BMP Plan incidents.
    - (7) Materials compatibility.
    - (8) Good housekeeping.
    - (9) Preventative maintenance.
    - (10) Inspections and records.
    - (11) Security.
    - (12) Employee training.
  - b. Establish specific best management practices to meet the objectives identified in Part 3 of this section, addressing each component or system capable of generating or causing a release of significant amounts of pollutants, and identifying specific preventative or remedial measures to be implemented.

*[62-620.100(3)(m)]*

5. Required Components of a Waste Minimization Assessment

- a. The WMA shall include an overall plant water balance, as well as internal water balances, as necessary. This information shall be used to determine any opportunities for water conservation or reuse/recycling and to determine if and where leakages might occur.
- b. A materials and risk assessment shall be developed and shall include the following:
  - (1) Identification of the types and quantities of materials used or manufactured (including by products produced) at the facility;
  - (2) Identification of the location and types of materials management activities which occur at the facility;
  - (3) An evaluation of the following aspects of materials compatibility: containment and storage practices for chemicals, container compatibility, chemical mixing procedures; potential mixing or compatibility problems; and specific prohibitions regarding mixing of chemicals;
  - (4) Technical information on human health and ecological effects of toxic or hazardous chemicals presently used or manufactured (including by products produced) or planned for future use or production; and
  - (5) Analyses of chemical use and waste generation, including overall plant material balances and as necessary, internal process balances, for all pollutants. (When actual measurements of the quantity of a chemical entering a wastewater or storm water stream are not readily available, reasonable estimates should be made based on best engineering judgment.) The analyses shall address reasons for using particular chemicals, and measures or estimates of the actual and potential chemical discharges via wastewater, wastewater sludge, storm water, air, solid waste or hazardous waste media.
- c. The WMA shall include, at a minimum, the following means of reducing pollutant discharges in wastewater streams or of otherwise minimizing wastes:
  - (1) Process related source reduction measures, including any or all of the following, as appropriate:
    - (a) Production process changes;
    - (b) Improved process controls;
    - (c) Reduction of off spec materials;
    - (d) Reduction in use of toxic or hazardous materials;
    - (e) Chemical modifications and/or material purification;
    - (f) Chemical substitution employing non toxic or less toxic alternatives; and
    - (g) Equipment upgrades or modifications or changes in equipment use.
  - (2) Housekeeping/operational changes, including waste stream segregation, inventory control, spill and leak prevention, equipment maintenance; and employee training in areas of pollution prevention, good housekeeping, and spill prevention and response;
  - (3) In process recycling, on site recycling and/or off site recycling of materials;
  - (4) Following all source reduction and recycling practices, wastewater treatment process changes, including the use of new or improved treatment methods, such that treatment by products are less toxic to aquatic or human life; and
  - (5) Other means as agreed upon by the permit issuing authority and the permittee.
- d. For storm water discharges and instances where storm water enters the wastewater treatment/disposal system or is otherwise commingled with wastewater, the WMA shall evaluate the following potential sources of storm water contamination, at a minimum:
  - (1) Loading, unloading and transfer areas for dry bulk materials or liquids;
  - (2) Outdoor storage of raw materials or products;
  - (3) Outdoor manufacturing or processing activities;
  - (4) Dust or particulate generating processes; and
  - (5) On site waste and/or sludge disposal practices.

The likelihood of storm water contact in these areas and the potential for spills from these areas shall be considered in the evaluation. The history of significant leaks or spills of toxic or hazardous pollutants shall also be considered. Recommendations for changes to current practices which would reduce the potential for storm water contamination from these areas shall be made, as necessary.

*[62-620.100(3)(m)]*

6. The permittee is encouraged, but not required, to conduct a waste minimization assessment (WMA) for this facility to determine actions that could be taken to reduce waste loadings and chemical losses to all wastewater and/or storm water streams.

If the permittee elects to develop and implement a WMA, information on plan components can be obtained from the Department's Industrial Wastewater website, or from:

Florida Department of Environmental Protection  
Industrial Wastewater Section, Mail Station 3545  
Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

(850) 245-8589

(850) 245-8669 - (Fax) *[62-620.100(3)(m)]*

7. The BMP Plan shall be signed by the permittee or their duly authorized representative in accordance with Rule 62-620.305(2)(a) and (b), F.A.C. The Plan shall be reviewed by appropriate facility staff and management. Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.) Florida Statutes, applicable portions of the Plan shall be signed and sealed by the professional(s) who prepared them.

The BMP Plan shall contain a written statement from corporate or facility management indicating management's commitment to the goals of the BMP Plan program. Such statements shall be publicized or made known to all facility employees. Management shall also provide training for the individuals responsible for implementing the BMP Plan. *[62-620.100(3)(m)]*

8. The permittee shall maintain a copy of the BMP Plan at the facility and shall make the plan available to the Department upon request. All offices of the permittee which are required to maintain a copy of the NPDES permit shall also maintain a copy of the BMP Plan. *[62-620.100(3)(m)]*
9. If following review by the Department, the BMP Plan is determined insufficient, the permittee will be notified that the Plan does not meet one or more of the minimum requirements of this Part. Upon such notification from the Department, the permittee shall amend the plan and shall submit to the Department a written certification that the requested changes have been made. Unless otherwise provided by the Department, the permittee shall have 30 days after such notification to make the changes necessary.

The permittee shall amend the BMP Plan whenever there is a change in the facility or in the operation of the facility which materially increases the generation of pollutants or their release or potential release to the receiving waters. The permittee shall also amend the Plan, as appropriate, when plant operations covered by the BMP Plan change. Any such changes to the Plan shall be consistent with the objectives and specific requirements listed above. All changes in the BMP Plan shall be reported to the Department in writing. *[62-620.100(3)(m)]*

10. At any time, if the BMP Plan proves to be ineffective in achieving the general objective of preventing and minimizing the generation of pollutants and their release and potential release to the receiving

waters and/or the specific requirements above, the permit and/or the BMP Plan shall be subject to modification to incorporate revised BMP Plan requirements. *[62-620.100(3)(m)]*

#### **VIII. RE-OPENER CLAUSE**

1. The permit shall be revised, or alternatively, revoked and reissued in accordance with the provisions contained in Rules 62-620.325 and 62-620.345 F.A.C., if applicable, or to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 303(d), 304(b)(2) and 307(a)(2) of the Clean Water Act (the Act), as amended, if the effluent standards, limitations, or water quality standards so issued or approved:
  - a. Contains different conditions or is otherwise more stringent than any condition in the permit/or;
  - b. Controls any pollutant not addressed in the permit.

The permit as revised or reissued under this paragraph shall contain any other requirements then applicable.

2. The permit may be reopened to adjust effluent limitations or monitoring requirements study should future Water Quality Based Effluent Limitation (WQBEL) determinations, water quality studies, DEP approved changes in water quality standards, DEP adopted Basin Management Action Plan (BMAP), applicable Numeric Nutrient Criteria (NNC) or other information show a need for a different limitation or monitoring requirement. *[62-620.320(6)]*

#### **IX. OTHER SPECIFIC CONDITIONS**

1. Where required by Chapter 471 or Chapter 492, F.S., applicable portions of reports that must be submitted under this permit shall be signed and sealed by a professional engineer or a professional geologist, as appropriate. *[62-620.310(4)]*
2. The permittee shall provide verbal notice to the Department's Northeast District Office as soon as practical after discovery of a sinkhole or other karst feature within an area for the management or application of wastewater, or wastewater sludges. The Permittee shall immediately implement measures appropriate to control the entry of contaminants, and shall detail these measures to the Department's Northeast District Office in a written report within 7 days of the sinkhole discovery. *[62-620.320(6)]*
3. Existing manufacturing, commercial, mining, and silvicultural wastewater facilities or activities that discharge into surface waters shall notify the Department as soon as they know or have reason to believe:
  - a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following levels;
    - (1) One hundred micrograms per liter,
    - (2) Two hundred micrograms per liter for acrolein and acrylonitrile; five hundred micrograms per liter for 2, 4-dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter for antimony, or
    - (3) Five times the maximum concentration value reported for that pollutant in the permit application; or
  - b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following levels;

- (1) Five hundred micrograms per liter,
- (2) One milligram per liter for antimony, or
- (3) Ten times the maximum concentration value reported for that pollutant in the permit application. [62-620.625(1)]

## **X. GENERAL CONDITIONS**

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit are binding and enforceable pursuant to Chapter 403, Florida Statutes. Any permit noncompliance constitutes a violation of Chapter 403, Florida Statutes, and is grounds for enforcement action, permit termination, permit revocation and reissuance, or permit revision. [62-620.610(1)]
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviations from the approved drawings, exhibits, specifications or conditions of this permit constitutes grounds for revocation and enforcement action by the Department. [62-620.610(2)]
3. As provided in subsection 403.087(7), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor authorize any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit or authorization that may be required for other aspects of the total project which are not addressed in this permit. [62-620.610(3)]
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title. [62-620.610(4)]
5. This permit does not relieve the permittee from liability and penalties for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted source; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. The permittee shall take all reasonable steps to minimize or prevent any discharge, reuse of reclaimed water, or residuals use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [62-620.610(5)]
6. If the permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee shall apply for and obtain a new permit. [62-620.610(6)]
7. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control, and related appurtenances, that are installed and used by the permittee to achieve compliance with the conditions of this permit. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to maintain or achieve compliance with the conditions of the permit. [62-620.610(7)]
8. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [62-620.610(8)]



9. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, including an authorized representative of the Department and authorized EPA personnel, when applicable, upon presentation of credentials or other documents as may be required by law, and at reasonable times, depending upon the nature of the concern being investigated, to:
  - a. Enter upon the permittee's premises where a regulated facility, system, or activity is located or conducted, or where records shall be kept under the conditions of this permit;
  - b. Have access to and copy any records that shall be kept under the conditions of this permit;
  - c. Inspect the facilities, equipment, practices, or operations regulated or required under this permit; and
  - d. Sample or monitor any substances or parameters at any location necessary to assure compliance with this permit or Department rules.

*[62-620.610(9)]*

10. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data, and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except as such use is proscribed by Section 403.111, F.S., or Rule 62-620.302, F.A.C. Such evidence shall only be used to the extent that it is consistent with the Florida Rules of Civil Procedure and applicable evidentiary rules. *[62-620.610(10)]*

11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. *[62-620.610(11)]*

12. Unless specifically stated otherwise in Department rules, the permittee, in accepting this permit, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard. *[62-620.610(12)]*

13. The permittee, in accepting this permit, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-4.052, F.A.C. *[62-620.610(13)]*

14. This permit is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department. *[62-620.610(14)]*

15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility or activity and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. *[62-620.610(15)]*

16. The permittee shall apply for a revision to the Department permit in accordance with Rules 62-620.300, F.A.C., and the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.325(2), F.A.C., for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins except as provided in Rule 62-620.300, F.A.C. *[62-620.610(16)]*
17. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The permittee shall be responsible for any and all damages which may result from the changes and may be subject to enforcement action by the Department for penalties or revocation of this permit. The notice shall include the following information:
  - a. A description of the anticipated noncompliance;
  - b. The period of the anticipated noncompliance, including dates and times; and
  - c. Steps being taken to prevent future occurrence of the noncompliance.*[62-620.610(17)]*
18. Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246 and Chapters 62-160 and 62-610, F.A.C., and 40 CFR 136, as appropriate.
  - a. Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10), or as specified elsewhere in the permit.
  - b. If the permittee monitors any contaminant more frequently than required by the permit, using Department approved test procedures, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
  - c. Calculations for all limitations which require averaging of measurements shall use an arithmetic mean unless otherwise specified in this permit.
  - d. Except as specifically provided in Rule 62-160.300, F.A.C., any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health Environmental Laboratory Certification Program (DOH ELCP). Such certification shall be for the matrix, test method and analyte(s) being measured to comply with this permit. For domestic wastewater facilities, testing for parameters listed in Rule 62-160.300(4), F.A.C., shall be conducted under the direction of a certified operator.
  - e. Field activities including on-site tests and sample collection shall follow the applicable standard operating procedures described in DEP-SOP-001/01 adopted by reference in Chapter 62-160, F.A.C.
  - f. Alternate field procedures and laboratory methods may be used where they have been approved in accordance with Rules 62-160.220, and 62-160.330, F.A.C.*[62-620.610(18)]*
19. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule detailed elsewhere in this permit shall be submitted no later than 14 days following each schedule date. *[62-620.610(19)]*
20. The permittee shall report to the Department's Northeast District Office any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours

from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

- a. The following shall be included as information which must be reported within 24 hours under this condition:
  - (1) Any unanticipated bypass which causes any reclaimed water or effluent to exceed any permit limitation or results in an unpermitted discharge,
  - (2) Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
  - (3) Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
  - (4) Any unauthorized discharge to surface or ground waters.
- b. Oral reports as required by this subsection shall be provided as follows:
  - (1) For unauthorized releases or spills of treated or untreated wastewater reported pursuant to subparagraph (a)4. that are in excess of 1,000 gallons per incident, or where information indicates that public health or the environment will be endangered, oral reports shall be provided to the **STATE WATCH OFFICE TOLL FREE NUMBER (800) 320-0519**, as soon as practical, but no later than 24 hours from the time the permittee becomes aware of the discharge. The permittee, to the extent known, shall provide the following information to the State Watch Office:
    - (a) Name, address, and telephone number of person reporting;
    - (b) Name, address, and telephone number of permittee or responsible person for the discharge;
    - (c) Date and time of the discharge and status of discharge (ongoing or ceased);
    - (d) Characteristics of the wastewater spilled or released (untreated or treated, industrial or domestic wastewater);
    - (e) Estimated amount of the discharge;
    - (f) Location or address of the discharge;
    - (g) Source and cause of the discharge;
    - (h) Whether the discharge was contained on-site, and cleanup actions taken to date;
    - (i) Description of area affected by the discharge, including name of water body affected, if any; and
    - (j) Other persons or agencies contacted.
  - (2) Oral reports, not otherwise required to be provided pursuant to subparagraph b.1 above, shall be provided to the Department's Northeast District Office within 24 hours from the time the permittee becomes aware of the circumstances.
- c. If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the environment, the Department's Northeast District Office shall waive the written report.

*[62-620.610(20)]*

21. The permittee shall report all instances of noncompliance not reported under Permit Conditions X. 17, 18 or 19 of this permit at the time monitoring reports are submitted. This report shall contain the same information required by Permit Condition X.20 of this permit. *[62-620.610(21)]*

22. Bypass Provisions.

- a. "Bypass" means the intentional diversion of waste streams from any portion of a treatment works.
- b. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless the permittee affirmatively demonstrates that:
  - (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and
  - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
  - (3) The permittee submitted notices as required under Permit Condition X. 22. c. of this permit.
- c. If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Department, if possible at least 10 days before the date of the bypass. The permittee shall submit notice of an unanticipated bypass within 24 hours of learning about the bypass as required in Permit Condition X. 20. of this permit. A notice shall include a description of the bypass and its cause; the period of the bypass, including exact dates and times; if the bypass has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the bypass.
- d. The Department shall approve an anticipated bypass, after considering its adverse effect, if the permittee demonstrates that it will meet the three conditions listed in Permit Condition X. 22. b.(1) through (3) of this permit.
- e. A permittee may allow any bypass to occur which does not cause reclaimed water or effluent limitations to be exceeded if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Permit Condition X. 22. b. through d. of this permit.

*[62-620.610(22)]*

23. Upset Provisions.

- a. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based effluent limitations because of factors beyond the reasonable control of the permittee.
  - (1) An upset does not include noncompliance caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, careless or improper operation.
  - (2) An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of upset provisions of Rule 62-620.610, F.A.C., are met.
- b. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:
  - (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
  - (2) The permitted facility was at the time being properly operated;
  - (3) The permittee submitted notice of the upset as required in Permit Condition X.5. of this permit; and
  - (4) The permittee complied with any remedial measures required under Permit Condition X. 5. of this permit.
- c. In any enforcement proceeding, the burden of proof for establishing the occurrence of an upset rests with the permittee.

- d. Before an enforcement proceeding is instituted, no representation made during the Department review of a claim that noncompliance was caused by an upset is final agency action subject to judicial review.

*[62-620.610(23)]*

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION



James R. Maher, PE  
Assistant District Director

PERMIT ISSUANCE DATE: March 15, 2016

**AMENDMENT TO THE FACT SHEET  
FOR  
STATE OF FLORIDA  
INDUSTRIAL WASTEWATER FACILITY PERMIT**

**1) GENERAL INFORMATION**

PERMIT NUMBER: FL0429333 – 004 (Minor)  
FACILITY NAME: South Woods Elementary RO WTP  
FACILITY LOCATION: 4700 State Road 206 West, Hastings, FL 32145  
St. Johns County  
NAME OF PERMITTEE: St. Johns County School District  
PERMIT WRITER: Amul Mehta, Engineer III – Wastewater Permitting  
PERMIT REVIEWER: D. Anh Vo, P.E., Wastewater Section – NED FDEP

**2) CHANGES TO DRAFT PERMIT:**

References to Chapter 62-601, F.A.C., have been removed from the permit due to the repeal of [Chapter 62-601, F.A.C.](#), which took effect Monday, February 8, 2016.

**3) PUBLIC NOTICE REQUIREMENTS:**

- a) The Notice of Draft Permit was issued on January 13, 2016. The Notice of Draft Permit documents were sent to the applicant, St. Johns County Health Department, St. Johns County Board of County Commissioners and EPA Region IV. The Department did not receive any comments on the draft permit from the applicant, EPA or any other agency within the 30-day public comment period ending on February 12, 2016.
- b) The Notice of Intent (NOI) to Issue Draft Permit along with a NOI Public Notice was issued on February 17, 2016. The NOI Public Notice was published in *The St. Augustine Record* on February 29, 2016. The applicant provided a Publisher's Affidavit (proof of publication) to the Department's Northeast District Office on March 7, 2016. The Department did not receive any requests for an administrative proceeding (hearing) within the 14-day petition period following publication of the Public Notice ending on March 14, 2016.

**FACT SHEET  
FOR  
STATE OF FLORIDA  
INDUSTRIAL WASTEWATER FACILITY PERMIT**

PERMIT NUMBER: FL0429333-004 (Minor)

FACILITY NAME: South Woods Elementary RO WTP

FACILITY LOCATION: 4700 State Road 206 West, Hastings, FL 32145  
St. Johns County

NAME OF PERMITTEE: St. Johns County School District

PERMIT WRITER: Amul Mehta, Engineer III – Wastewater Permitting

PERMIT REVIEWER: D. Anh Vo, P.E., Wastewater Permitting Coordinator

The Clean Water Act (Federal Water Pollution Control Act Amendments, 1972, and later modifications, 1977, 1981, and 1987) established water quality goals for the navigable surface waters of the United States. One of the mechanisms for achieving the goals of the Clean Water Act is the National Pollutant Discharge Elimination System (Section 402 CWA), which is administered by the Environmental Protection Agency (EPA). The EPA has authorized Florida to administer the NPDES permit program. Chapter 403 of Florida Statutes defines the Florida Department of Environmental Protection's (FDEP) authority and obligations in administering the NPDES program.

The regulations adopted by the state include procedures for issuing permits (Chapter 62-620 FAC), technical criteria for discharges from industrial wastewater treatment facilities (Chapter 62-620, 62-660 FAC), and water quality criteria for surface and ground waters (Chapters 62-302, 62-303, 62-304, 62-650 FAC). These regulations require that a permit be issued before discharge of wastewater to waters of the state is allowed. The regulations also establish the basis for effluent limitations and other requirements which are to be included in the permit. This fact sheet is a companion document to the NPDES permit and explains the nature of the proposed discharge, the Department's decisions on effluent limitations and controls on pollutants discharged to surface waters, and the regulatory and technical basis for those decisions included on the facility's NPDES permit

1. SUMMARY OF APPLICATION

a. Chronology of Application

Application Number:	FL0429333-004-IW5D
Application Submittal Date:	October 13, 2015
Request for Additional Information:	October 29, 2015
Applicant Reply #1 to RAI:	November 18, 2015
Applicant Reply #2 to RAI:	December 15, 2015
Effective Date of Application:	December 17, 2015
Draft Permit to EPA and Applicant:	January 13, 2016
NOI Draft Permit to Applicant and EPA:	February 17, 2016
Publication of NOI Public Notice:	February 29, 2016

b. Type of Facility

The facility is a reverse osmosis (RO) membrane filtration water treatment plant (WTP) serving the South Woods Elementary School. The permitted capacity of the WTP (PWS ID: 2554489) is 38,880 gallon maximum daily flow.

SIC Code: 8211 - Elementary and Secondary Schools

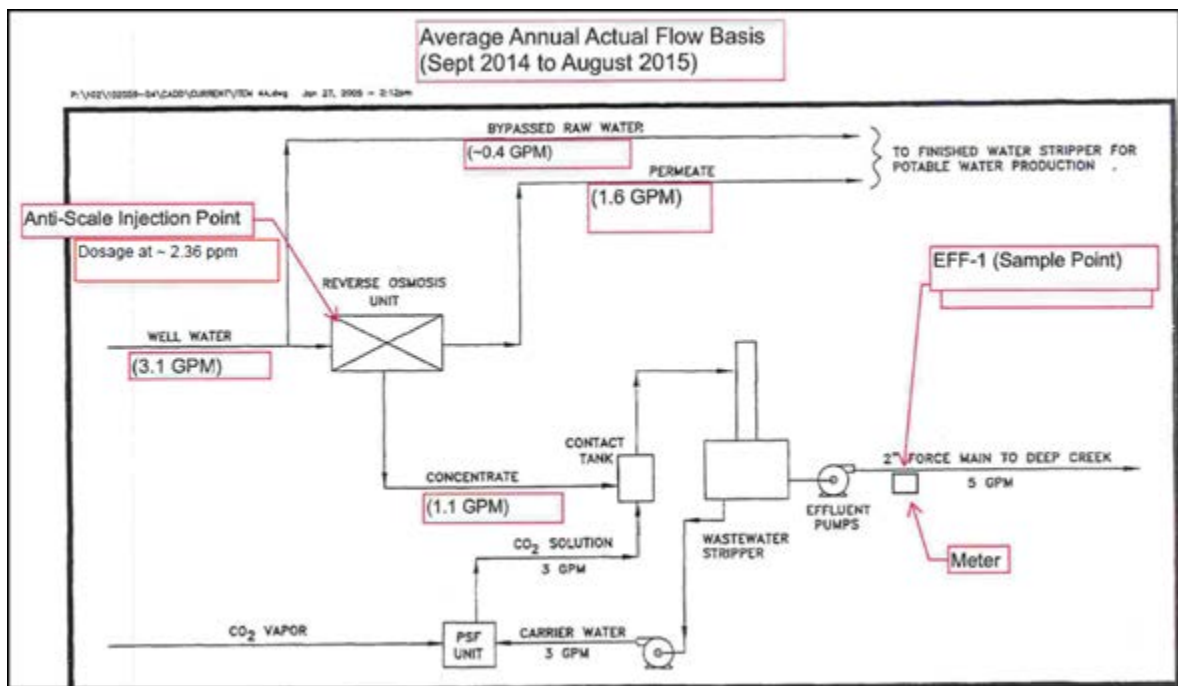
c. Facility Capacity

Existing Permitted Capacity:	0.032	MGD	Daily Maximum Flow
Proposed Increase in Permitted Capacity:	0.000	MGD	Daily Maximum Flow
Proposed Total Permitted Capacity:	0.032	MGD	Daily Maximum Flow

d. Description of Industrial Wastewater Treatment

An existing 0.032 MGD maximum daily flow permitted discharge of demineralization concentrate stream from the reverse osmosis water treatment plant. The demineralization concentrate waste stream is dosed with a carbon dioxide solution in the contact tank to reduce pH of the reject stream to 6.3 S.U. prior to entering a packed-tower air-stripper for sulfide removal and dissolved oxygen addition. Air-stripped demineralization concentrate is pumped through a 2-inch force main for discharge to Deep Creek (Class III Fresh Waters).

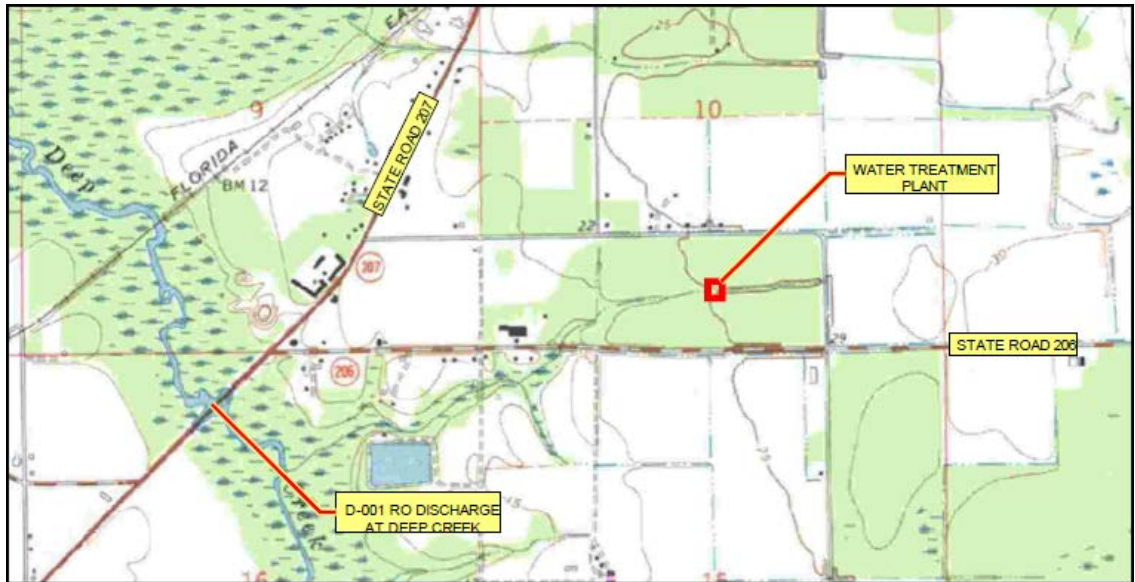
A process flow diagram of current RO WTP system operation and the RO-reject (demineralization concentrate) wastewater treatment process is provided below:



e. Description of Effluent Disposal and WTP (as reported by applicant)

See aerial below for location of effluent disposal and elementary school WTP site(s).



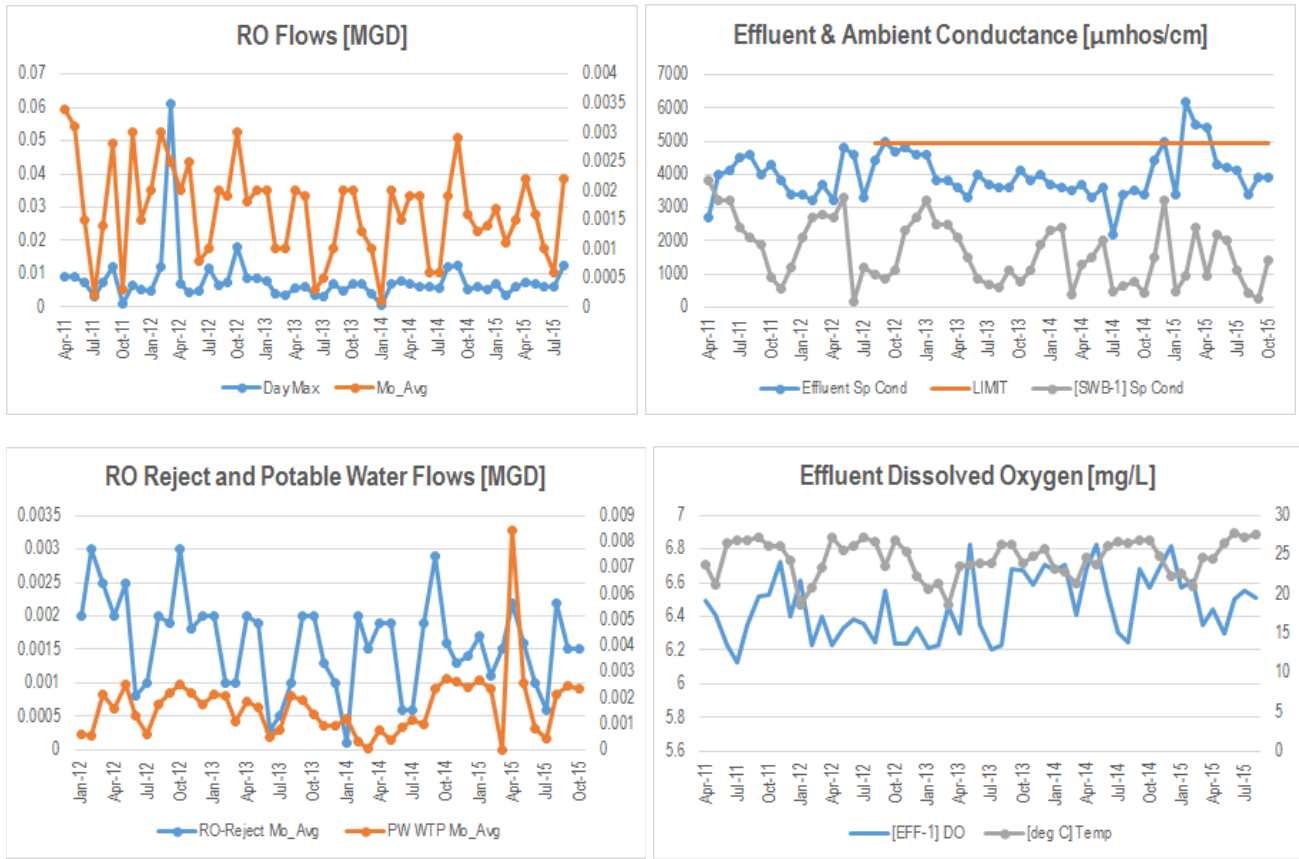


①: Location of School and RO WTP; ②: Location of outfall D-001

Monitoring Group D-001: An existing 0.032 MGD Daily Maximum Flow permitted discharge to Deep Creek, (Class III Fresh Waters, WBID #2549). Outfall D-001 is a 2" single-port polyethelene pipe discharging at a depth of approximately 5 feet below water surface. The point of discharge is located approximately at latitude 29°43' 25" N, longitude 81°29' 6" W.

f. Facility Performance Review – Applicant Reported DMR Data (April 2011 – August 2015).

A total of 5 exceedances of the effluent specific conductance limitation of 4,950  $\mu\text{mhos/cm}$  were reported by the applicant on the DMRs submitted over the 53-month review period. Four of the 5 end-of-pipe effluent conductance exceedances were reported during the December 2014 – April 2015 period. Compliance with the effluent specific conductance limitation of 4,950  $\mu\text{mhos/cm}$  provides reasonable assurance of compliance with the WQS for specific conductance at the boundary of the established 1.7  $\text{m}^2$  mixing zone.



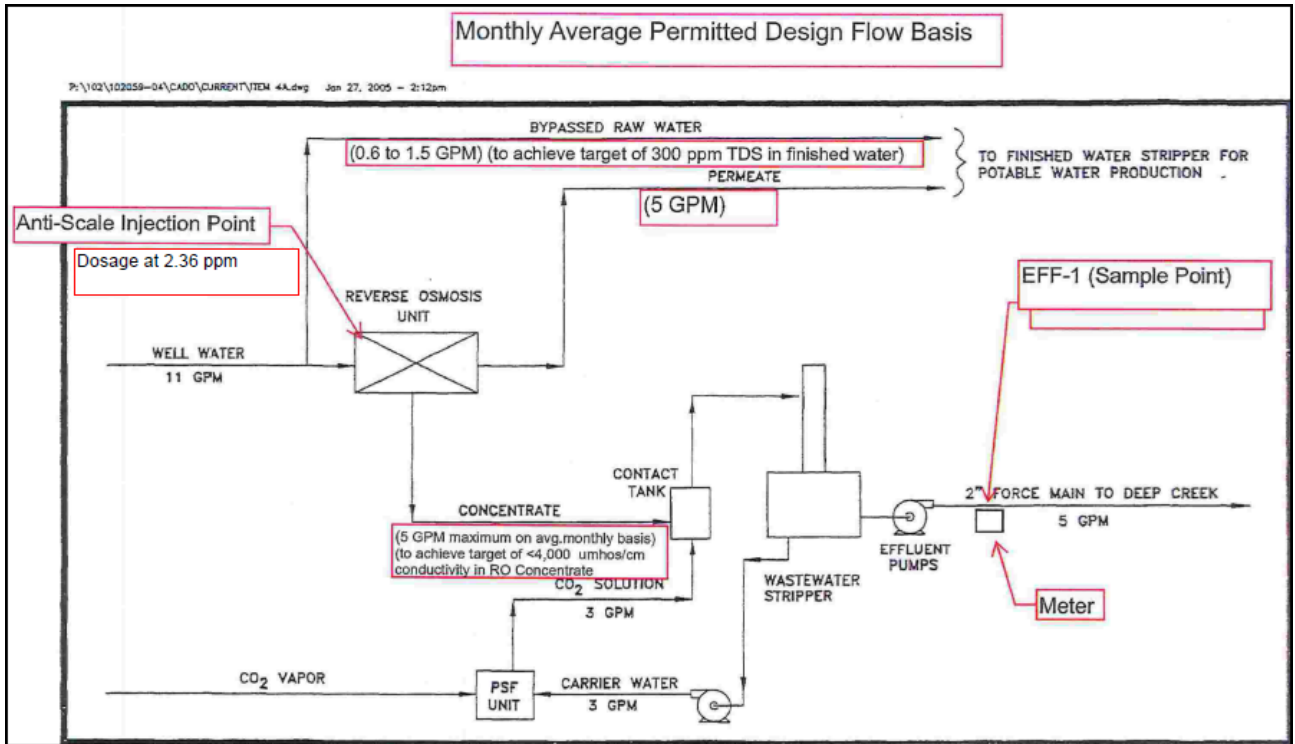
Summary statistics for some of the monitored parameters at effluent sampling point EFF-1 are provided in Table 1 below:

	[MGD]	[MGD]	[EFF-1]	[EFF-1]	[SWB-1]	Effluent	[deg C]	[mg/L]	[mg/L]	[S.U.]	[S.U.]
	Day Max	Mo_Avg	TSS	DO	Sp Cond	Sp Cond	Temp	NH4-N	NH3	pH[min]	pH[max]
<b>Max</b>	0.061	0.0034	42	6.83	3800	6200	27.8	0.661	0.012	8.12	8.12
<b>75th %tile</b>	0.00784	0.002	3.35	6.61	2400	4450	26.5	0.465	0.002875	6.93	6.935
<b>Median</b>	0.0066	0.0017	2.1	6.44	1500	3800	24.8	0.355	0.0017	6.83	6.83
<b>Avg</b>	0.007882	0.001647	4.15	6.46	1666.23	3977.36	24.56	0.3453	0.002497		
<b>Min</b>	0.0007	0.0001	1	6.13	160	2200	18.6	0.0304	0.00027	5.9	6.4
<b>Std Dev</b>	0.008045	0.000806	8.56	0.189	954.07	716.73	2.32	0.1583	0.0027	0.3326	0.2992
<b># Exceed</b>	<b>1</b>	<b>0</b>				<b>5</b>			<b>0</b>	<b>0</b>	<b>0</b>

Based on the applicant's permit application documents, actions taken by the facility in June 2015 to address the recent multiple exceedances of the effluent limitation for specific conductance include:

- (1) Investigation of seasonal variability of conductance levels in the water supply/irrigation wells in the area,
- (2) Review of maintenance activities performed on the WTP's RO membranes,
- (3) Recent implementation of an operational check-sheet to record the conductivity and flow data for the raw water, RO permeate and RO concentrate streams on a weekly basis to achieve a TDS target of 300 mg/L in the finished drinking water and a specific conductance level of 4,000  $\mu$ mhos/cm in the RO concentrate discharge,

- (4) Change in RO WTP system operation to equalize the ratio of RO concentrate to RO permeate by reducing the overall recovery rate of treated water (RO permeate) and increasing the relative percentage of RO demineralization concentrate discharge from previous levels (as illustrated in the flow diagram below):



The facility has not reported an exceedance of the effluent specific conductance limitation since the implementation of the above operational changes.

Summary statistics from applicant reported DMR data for the parameters monitored on a quarterly sampling frequency over the April 2011 – June 2015 period (n=14) are provided in Table 2 below:

	[mg/L] TN	[mg/L] TP	[pCi/L] GrAlpha	Radium 226+228	un-ion H2S
<b>Max</b>	1.55	0.295	20.9	6.7	0.017
<b>75th %tile</b>	0.753	0.048	6.50	4.60	0.011
<b>Median</b>	0.595	0.046	5.3	2.8	0.0062
<b>Avg</b>	0.682	0.057	6.19	3.37	0.008
<b>Min</b>	0.28	0.004	2	0.8	0.0011
<b>Std Dev</b>	0.296	0.071	4.63	1.62	0.005
<b># Exceed</b>			1	0	

The adequacy of the MZ model(s) and assumptions of discharge characteristics and ambient receiving water quality data in establishing the respective mixing zone areas and end-of-pipe limits in meeting water quality standards (WQS) is evidenced by a single reported exceedance of end-of-pipe effluent limitation for gross alpha particle (20.9 pCi/L) over the 2011 – 2015 period.

## 2. SUMMARY OF SURFACE WATER DISCHARGE

- a. The receiving water body (WBID 2549 – Deep Creek) and upstream water body segments for this facility are listed on the 303(d) list as being impaired for the following parameters

Basin / Segment Waterbody	Upstream		Outfall D-001		Downstream	
<b>WBID</b>	<b>2589 (Sixteen Mile Creek, Class 3F)</b>		<b>2549 (Deep Creek, Class 3F)</b>		<b>2213K (St. Johns River above Toco, Class 3F)</b>	
<b>River Length</b>	<b>0.4 miles</b>		<b>7.9 miles</b>		<b>12,224 acres</b>	
<b>Agency</b>	EPA 303(d)*	FDEP 303(d)**	EPA 303(d)*	FDEP 303(d)**	EPA 303(d)*	FDEP 303(d)**
<b>Parameters of Concern</b>	Dissolved Oxygen, Nutrients (Chlorophyll-a)	-	Biochemical Oxygen Demand (BOD), Dissolved Oxygen, Nutrients (Historic Chlorophyll-a)	-	Mercury (based on fish consumption advisory)	Dissolved Oxygen, Mercury (based on fish consumption advisory)

\* EPA 303 (d) List (303(d) Listed Impaired Waters

[http://iaspub.epa.gov/apex/waters/f?p=ASKWATERS:V\\_WO\\_CURRENT\\_LISTS\\_WATER\\_BODY:0:::P4\\_OWNER:ATTAINS](http://iaspub.epa.gov/apex/waters/f?p=ASKWATERS:V_WO_CURRENT_LISTS_WATER_BODY:0:::P4_OWNER:ATTAINS) )

\*\* FDEP 303 (d) List (Group 2 Basins, Cycle 2 – May 19, 2009)

- b. Discussion of Parameters listed on the 303(d) List:

- (1) WBID 2549 – Dissolved Oxygen. The waterbody is impaired for this parameter; impairment is based on the DO criterion and TP is the causative pollutant (no BOD criteria in Florida Water Quality Standards). TP exceeded the IWR threshold of 0.22 mg/L. There is no evidence to support the facility's intermittent discharges to Deep Creek cause or contribute to the impairment. [See Fact Sheet item 4(c) below]
- (2) WBID 2549 – Nutrients. The waterbody is impaired for this parameter. Average annual chlorophyll-a values did exceed the historical minimum of 2.0559 µg/L by more than 50% for at least 2 consecutive years (2003, 2004, 2006). Annual averages: 2002 – 2.7279 µg/L; 2003 – 4.9638 µg/L; 2004 – 4.0213 µg/L; 2005 – 1.7519 µg/L; 2006 – 4.6458 µg/L. Based on TN/TP ratios of 0.975 to 9.392 with a median of 3.0211 (n=99) over the verified period. Nitrogen is the limiting nutrient. There is no evidence to support the facility's intermittent discharges to Deep Creek cause or contribute to the impairment. [See Fact Sheet item 4(a) below]
- (3) WBID 2589 – Nutrients (chlorophyll-a). Annual average chl-a exceeded 20 µg/L in 2002. Nitrogen limiting based on TN/TP median of 9.9 (76 values) during the PP and a median of 6.8 (128 values) during the VP.
- (4) WBID 2213K – Mercury. This waterbody is impaired for this parameter; it is listed based on average fish tissue mercury concentration of 0.47 ppm in 12 Large Mouth Bass, which exceeds the impairment level of 0.3 mg/kg.

- c. FDEP Sampling Inspection. A third-year (FYI3) Sampling Inspection was conducted by the Department on March 9, 2015. The effluent sample collected from the EFF-1 sampling point for this facility on March 9,

2015, was acutely toxic to the *Ceriodaphnia dubia* test organisms but was not acutely toxic to the *Pimephales promelas* test organisms during the 96-hour acute definitive bioassays. The noted toxicity did not exceed the facility's permitted limit of LC50  $\geq$ 20% effluent. Both the effluent AGP and the salinity adjusted AGP results were less than their respective "problem" thresholds for fresh and marine receiving waters, suggesting that nutrient enrichment is not an issue. The effluent specific conductance exceeded the permitted limit for specific conductance. Additional effluent water quality samples collected on March 9, 2015, did not exceed any applicable water quality standards. A complete summary of the FY13 sampling results is provided in the Appendix to the Fact Sheet.

- d. Pollutants in the discharge which are present in significant quantities or which are subject to permit limitations are as follows:

Parameter	Units	Maximum	Average	No. of Samples
Flow	MGD	0.0074	0.0016	-
Carbonaceous Biochemical Demand (CBOD)	mg/L	2.0 U	-	1
Chemical Oxygen Demand (COD)	mg/L	170	-	1
Total Organic Carbon (TOC)	mg/L	2.4	-	1
Solids, Total Suspended	mg/L	4.8	2.4	12
Nitrogen, Total	mg/L	4.1	1.54	4
Phosphorus, Total (as P)	mg/L	0.18	-	1
Nitrogen, Ammonia, Total (as N)	mg/L	0.65	0.45	12
Hydrogen Sulfide, unionized	mg/L	0.017	-	1
Specific Conductance (effluent)	$\mu$ mhos/cm	6,200	4,400	12
pH	s.u.	7.6	6.82 (min)	12
Alpha, Gross Particle Activity	pCi/L	5.0	-	-
Radium 226 + Radium 228, Total	pCi/L	5.1	-	-
Nitrate+Nitrite, Total (as N)	mg/L	3.6	-	1
Nitrogen, Ammonia, Total unionized (as N)	mg/L	0.0020 I		1

The specific conductance limit of  $\leq 2,654 \mu$ mhos/cm at the edge of the mixing zone is based on the Class III freshwater criterion of the background specific conductance plus (+) 50% (specifically, "shall not be increased more than 50% above background or to 1,275  $\mu$ mhos/cm, whichever is greater" [62-302.530(23) F.A.C.]). The calculated end-of-pipe specific conductance level required at the edge of mixing zone ( $\leq 2,654 \mu$ mhos/cm) is 4,950  $\mu$ mhos/cm. The mixing zone for specific conductance is an area with a semi-circular shape originating at the bulkhead at the point of discharge. The size of mixing zone is approximately 12.6 ft<sup>2</sup> or 1.17 m<sup>2</sup> within a diameter of 2 ft or 0.61 m.

### 3. BASIS FOR PERMIT LIMITATIONS AND MONITORING REQUIREMENTS

This facility is authorized to discharge reverse osmosis reject water from Outfall D-001 to Deep Creek based on the following:

Parameter	Units	Max/Min	Limit	Statistical Basis	Rationale
Flow	MGD	Max	0.032	Daily Maximum	40 CFR Section 122.45(d)(1), Section 402(o)(1) of the Water Quality Act of 1987
Flow	MGD	Max	0.0072	Monthly Average	40 CFR Section 122.45(d)(1), Section 402(o)(1) of the Water Quality Act of 1987
Solids, Total Suspended	mg/L	Max	Report	Single Sample	Water Quality Standard from 62-302.530 FAC
Oxygen, Dissolved (DO)	mg/L	Min	5.0	Single Sample	Water Quality Standard from 62-302.530(31) FAC



Parameter	Units	Max/Min	Limit	Statistical Basis	Rationale
pH	s.u.	Max	8.5	Single Sample	Water Quality Standard from 62-302.530(52)(c) FAC
pH	s.u.	Min	6.0	Single Sample	Water Quality Standard from 62-302.530(52)(c) FAC
Temperature (C), Water	Deg C	Max	Report	Single Sample	Used for calculation of un-ionized ammonia
Nitrogen, Ammonia, Total (as N)	mg/L	Max	Report	Single Sample	Used for calculation of un-ionized ammonia
Nitrogen, Ammonia, Total unionized (as N)	mg/L	Max	0.026	Single Sample	Water Quality Standard from 62-302.530(3) FAC
Specific Conductance	µmhos/cm	Max	4,950	Single Sample	62-4.244, FAC
Nitrogen, Total	mg/L	Max	Report	Single Sample	Water Quality Standard from 62-302.530(48) FAC
Phosphorus, Total (as P)	mg/L	Max	Report	Single Sample	Water Quality Standard from 62-302.530(48) FAC
Alpha, Gross Particle Activity	pCi/L	Max	20.0	Single Sample	Water Quality Standard from 62-302.530(58) FAC
Radium 226 + Radium 228, Total	pCi/L	Max	12.5	Single Sample	Water Quality Standard from 62-302.530(58) FAC
Hydrogen sulfide un-ionized	mg/L	Max	Report	Single Sample	FAC Rules 62-620.620(3)(f), 62-620.320(6)
Acute Whole Effluent Toxicity, 96-hr LC50 ( <i>Ceriodaphnia dubia</i> )	percent	Min	20	Single Sample	62-302.200(1), 62-302.500(1)(a)4 & 62-4.241(1)(a) FAC
Acute Whole Effluent Toxicity, 96-hr LC50 ( <i>Cyprinella leedsi</i> )	percent	Min	20	Single Sample	62-302.200(1), 62-302.500(1)(a)4 & 62-4.241(1)(a) FAC

This facility is required to conduct acute toxicity testing for this discharge based on the intermittent, batch nature of the demineralization concentrate (RO reject) from the WTP which discharges only 4 to 5 days per week. Chronic toxicity tests shall not be required for intermittent discharges per Rule 62-620.620(3)(f), FAC. Since the concentrate is discharged to predominantly fresh waters, freshwater test species are specified per Rule 62-620.620(3)(h)2.d., F.A.C, and ion imbalance determination is no longer needed. Pursuant to Rule 62-4.241(5)(a), FAC, a small water-utility business shall meet the acute toxicity limit of 96-hr LC50  $\geq$  20% effluent. The facility is required to conduct Whole Effluent Toxicity testing based on both best professional judgment and the review of the water quality data of the raw water source for the reverse osmosis unit. The monitoring and testing requirement for unionized hydrogen sulfide is based on technical information from the Federal EPA linking Hydrogen Sulfide to toxicity at levels as low as 2.0 µg/L. [FAC Rules 62-620.620(3)(f), 62-620.320(6)]

The facility has provided reasonable assurance that the discharge will not adversely affect the designated use of receiving water. Raw water data, as well as all other available data, have been evaluated in accordance with the Department's reasonable assurance procedures to ensure that no limits other than those included in this permit are needed to maintain Florida water quality standards. The Department does not anticipate adverse impacts on threatened or endangered species as a result of permit issuance.

4. DISCUSSION OF CHANGES TO PERMIT CONDITIONS AND REVIEW OF CHANGES TO CHAPTERS 62-302, 62-304 F.A.C. AND APPLICABILITY TO FACILITY

- a. Implementation of Numeric Nutrient Criteria (NNC) for Streams. To more proactively address impairment of State waters due to nutrients, the Department implemented a detailed, EPA-approved plan for the development of numeric interpretation of the narrative nutrient criteria, as set forth in Rule 62-302.531, F.A.C. Based on information provided in the application, the facility (RO WTP) is not a source of nutrients

in terms of treatment processes or chemicals used, and its discharges are not expected to impact the attainment of NNC in receiving or downstream waters.

The facility is required to conduct quarterly effluent sampling for total nitrogen (TN) and total phosphorus (TP) for monitoring purposes with a “Report” requirement; the average of the 15 quarterly effluent TN and TP values (inclusive of the most recent November 2015 TN value of 4.1 mg/L) relative to the NNC in-stream threshold values for the region are as follows:

	<b>Total Nitrogen</b>	<b>Total Phosphorus</b>
South Woods Elementary School RO WTP (Effluent) 6/2011 – 6/2015	0.682 mg/L [Average, n=14]	0.057 mg/L [Average, n=14]
South Woods Elementary School RO WTP (Effluent) 6/2011 – 11/2015	0.910 mg/L [Average, n=15]	0.065 mg/L [Average, n=15]
<b>In-Stream Nutrient Thresholds for Peninsular Nutrient Watershed Region</b>	<b>1.54 mg/L [Annual Geometric Mean]</b>	<b>0.12 mg/L [Annual Geometric Mean]</b>

As the RO WTP’s average effluent TN and TP levels are an order of magnitude below the respective in-stream NNC thresholds, and given the facility’s limited operation (operating below 25% of maximum daily flow capacity), the intermittent discharge volumes to Deep Creek are not expected to impact the attainment of NNC in receiving or downstream waters. In addition, based on information provided with the application, including analytical results of baseline nutrient levels in the raw well-water relative to the discharge, and the applicant-reported DMR data on nutrient levels, the RO WTP is not a source of nutrients.

<b>Parameter</b>	<b>Units</b>	<b>Raw Water Well #2 Nov. 2015</b>	<b>RO-Reject April 2015</b>	<b>RO-Reject Nov. 2015</b>
Fecal Coliform	#/100mL	1.0 U	-	1.0 U
Carbonaceous Biochemical Demand (CBOD)	mg/L	2.0 U	-	2.0 U
Chemical Oxygen Demand (COD)	mg/L	120	-	170
Total Organic Carbon (TOC)	mg/L	1.2	-	2.4
Solids, Total Suspended	mg/L	1.0 U	3.0	1.0 U
<b>Nitrogen, Total</b>	<b>mg/L</b>	<b>0.29</b>	<b>0.90</b>	<b>4.1</b>
<b>Phosphorus, Total (as P)</b>	<b>mg/L</b>	<b>0.32</b>	<b>0.080 I</b>	<b>0.18</b>
Nitrogen, Ammonia, Total (as N)	mg/L	0.35	0.49	0.46
Nitrate+Nitrite, Total (as N)	mg/L	1.2 U	0.18	3.6 I
Kjeldahl Nitrogen, Total (as N)	mg/L	0.29	0.72	0.52
Specific Conductance (effluent)	µmhos/cm	2,500	5,400	4,300

Information provided with the permit application provides reasonable assurance the facility’s discharge will not preclude attainment of applicable nutrient criteria in direct and downstream receiving waters. Effluent monitoring for total nitrogen and total phosphorus for discharges to Deep Creek from outfall D-001, which was included in the previous permit, is continued on the renewal operating permit to monitor nutrient levels in the facility’s discharge.

- b. State of Florida TMDL for Mercury. A statewide Total Maximum Daily Load (TMDL) for mercury has been established. Pursuant to Rule 62-304.900, F.A.C., industrial wastewater discharges, other than once-through cooling waters at industrial wastewater facilities and those sources covered under subsection 62-304.900(2), F.A.C., that demonstrate quantifiable mercury levels in their effluent (using clean techniques, such as EPA Method 1631E) are required to prepare and implement a mercury minimization plan addressing sources of mercury. As the discharge does not have reasonable potential to contain mercury at quantifiable levels, the facility is not required to develop a mercury minimization plan.

- c. New Water Quality Standard (WQS) for Dissolved Oxygen (DO). The effluent DO concentration limitation has been set to ensure compliance with recent changes to Rules 62-302 and Rule 62-303, F.A.C. Specifically, Rule 62-302.530(30), F.A.C., is replaced and superseded by Rule 62-302.533(1), F.A.C., applicable to treatment facilities discharging to Class III Fresh Waters and Class III Limited Predominantly Fresh Waters. The DO criteria established in Rule 62-302.533, F.A.C., became effective August 1, 2013, and approved by EPA Region 4 on September 9, 2013.

To ensure compliance with the new water quality criteria for Dissolved Oxygen (DO), whereby no more than 10% of the daily average % DO Saturation value in the receiving waters shall be below 38% (applicable to the Peninsula and Everglades bioregions), in order to maintain healthy freshwater aquatic populations and protect the designated use classifications. A map of the bioregions is contained in *SCI 1000: Stream Condition Index Methods* (DEP-SOP-003/11 SCI 1000) (<http://www.flrules.org/Gateway/reference.asp?No=Ref-02959>), which is incorporated by reference in Rule 62-160.800, F.A.C.

The saturation of DO in water is inversely related to both water temperature and salinity/conductance. Warmer temperatures influence DO by decreasing its solubility. Increasing temperatures also increase metabolism by causing an increase in respiration in aquatic organisms, which is a process that requires oxygen. Increased metabolism and production of bacteria and phytoplankton contribute to a higher BOD. Therefore, when the temperature increases, the BOD increases in the environment, and DO availability is reduced. Salinity is another factor that affects DO concentrations...salt reduces oxygen solubility causing lower DO in aquatic systems. Factors influencing DO, such as increasing temperatures and BOD, will be compounded in saltwater as compared to freshwater.<sup>1</sup>

To ensure compliance with the new water quality criteria for Dissolved Oxygen, Rule 62-302.533, F.A.C., whereby the effluent DO levels must be sufficient to ensure that no more than 10% of the daily average % DO saturation value in the receiving waters shall be below 38%, the following analysis based on ambient river sampling data (STORET Station 21FLA20030765) is presented to demonstrate a more stringent limitation to the current effluent DO limitation of 5 mg/L is not warranted.

STORET 21FLA 20030765							
Date	Time	Depth [m]	DO [mg/L]	DO % Sat [%]	Temp [C]	SpCond [umhos/cm]	
1-Mar-11	11:15:00	1.5	2.9	33	20.89	3078	
15-Jun-11	14:05:00	0.6	5.7	72	26.7	4075	
19-Dec-11	10:05:00	0.4	4.08	40.9	15.24	973	
31-Jan-12	11:15:00	1	4.26	42	14.5	2446	
28-Mar-12	8:40:00	2.8	2.3	26.3	21.22	2675	
21-May-12	14:32:00	1.8	2.51	29.2	22.17	3190	
5-Dec-12	12:30:00	1.2	3.78	39.9	17.57	3302	
9-Mar-15	11:15:00	0.3	5.46	54.9	15.47	1397	

<sup>1</sup> 2013 St. Johns River Report, Section 2.2.2. – Factors that Affect DO and BOD



The most protective DO concentration is derived under the worst case scenario using the lowest temperature and lowest specific conductance observed in the ambient river monitoring data. Based on ambient monitoring data, the winter water temperature is approximately 14.5 °C in the vicinity of the discharge (D-001); the corresponding DO concentration at 100% saturation at 14.5 °C (1 atm, 973 µmhos/cm) is approximately 10.17 mg/L<sup>2</sup>. As a result, the minimum DO level to ensure 38% DO saturation in the receiving waterbody is calculated as follows:

$$\text{Minimum DO Concentration} = [0.38 * 10.17 \text{ mg/L}] = 3.86 \text{ mg/L}$$

The critical DO value in the receiving waterbody must be greater than 3.86 mg/L in order to ensure compliance with the daily average DO criteria specified in Rule 62-302.533(1)(a), F.A.C. As tabulated in the Appendix to the Fact Sheet, the facility's effluent discharge characteristics (effluent CBOD, TKN levels) indicate the current 5.0 mg/L effluent DO permit limitation is adequately protective of the receiving water body and more restrictive than the new DO criteria. This is evidenced by the minimum reported effluent DO level of 6.13 mg/L over the April 2011 – August 2015 period, a concentration corresponding to approximately 60% DO saturation in receiving waters under the worst case scenario modeled above.

- d. Analysis of Source Water. Source water quality characterization is necessary for evaluation of demineralization concentrate discharges characteristics and identification of appropriate discharge monitoring parameters. Pursuant to Permit Condition VI.2, at the time of permit renewal, the permittee shall provide acceptable source water characterization at a minimum for the following parameters as part of DEP Form 2DC: carbonaceous oxygen demand (CBOD), chemical oxygen demand (COD), total organic carbon (TOC), total suspended solids (TSS), ammonia (as N), total nitrogen, total phosphorus, fecal coliform, hydrogen sulfide (un-ionized), specific conductance, gross alpha particle, radium 226+228 (combined), sodium, chloride, calcium, sulfate, magnesium and bicarbonate. Applicants should consult with the Northeast District office permitting staff regarding source water data prior to submitting an application. Sampling and monitoring data shall be collected and analyzed in accordance with 40 CFR 136, Rule 62-4.246, F.A.C., and Chapter 62-160, F.A.C.

#### 5. INDUSTRIAL SLUDGE MANAGEMENT REQUIREMENTS

The method of sludge use or disposal by this facility is in a Class I solid waste landfill.

#### 6. GROUND WATER MONITORING REQUIREMENTS

This section is not applicable to this facility.

#### 7. PERMIT SCHEDULES

The following improvement actions shall be completed according to the following schedule. The Best Management Practices (BMP) Plan shall be prepared and implemented in accordance with Part VII of this permit.

Improvement Action	Completion Date
a. Continue implementing the existing BMP Plan	Effective date of permit

#### 8. BEST MANAGEMENT PRACTICES / STORMWATER POLLUTION PREVENTION PLANS

<sup>2</sup> *Solubility of Dissolved Oxygen in Water as a Function of Temperature and Salinity, Appendix D, Table D-1, Wastewater Engineering Treatment and Reuse, Metcalf & Eddy, 4<sup>th</sup> Edition*

As stated in Section VII of the permit, a Best Management Practices (BMP) Plan is required for the facility, pursuant to Rule 62-620.100(m), F.A.C., and 40 CFR Part 122.44(k). The plan provides a facility-specific approach for the minimizing of pollutant discharge from ancillary activities.

9. ADMINISTRATIVE ORDERS (AO) AND CONSENT ORDERS (CO)

This permit is not accompanied by an AO and has not entered into a CO with the Department.

10. REQUESTED VARIANCES OR ALTERNATIVES TO REQUIRED STANDARDS

No variances were requested for this facility.

11. TERM OF THE PERMIT

The term of the permit is for a period of 5-years (2016 – 2021).

12. THE ADMINISTRATIVE RECORD

The administrative record including application, draft permit, fact sheet, public notice (after release), comments received and additional information is available for public inspection during normal business hours at the location specified in item 14. Copies will be provided at a minimal charge per page.

13. PROPOSED SCHEDULE FOR PERMIT ISSUANCE

<b>Process Elements</b>	<b>Completion Date</b>
Effective Date of the Application	December 15, 2015
Draft Permit to Applicant and EPA	January 13, 2016
Begin Public Comment Period	January 13, 2016
End Public Comment Period	February 12, 2016
Notice of Intent to Issue	February 17, 2016
Publication of NOI Public Notice	February 29, 2016
End of 14-day Petition Period	March 13, 2016
Notice of Final Agency Action	March 15, 2016

14. DEP CONTACT

Additional information concerning the permit and proposed schedule for permit issuance may be obtained during normal business hours from:

Amul Mehta  
 FDEP - Northeast District Office  
 8800 Baymeadows Way West, Suite 100  
 Jacksonville, Florida 32256  
 Telephone (904) 256-1700

15. PROCEDURES FOR THE FORMULATION OF FINAL DECISION ON PERMIT ISSUANCE

a. Public Comment Period

The Department of Environmental Protection proposes to issue a wastewater facility permit to this applicant subject to the aforementioned reclaimed water or effluent limitations and conditions. This decision is tentative and open to comment from the public.

Interested persons are invited to submit written comments regarding permit issuance on the draft permit limitations and conditions to the following address:

FDEP – Northeast District Office  
Attn: Jim Maher, P.E., Assistant Director  
8800 Baymeadows Way West, Suite 100  
Jacksonville, Florida 32256

All comments received within 30 days following the date of public notice, pursuant to Rule 62-620.550, F.A.C., will be considered in the formulation of the final decision with regard to permit issuance.

Any interested person may submit written comments on the Department's proposed permitting decision or may submit a written request for a public meeting to the address specified above, in accordance with Rule 62-620.555, F.A.C. The comments or request for a public meeting must contain the information set forth below and must be received in the above named District office of the Department within 30 days of receipt or publication of the public notice. Failure to submit comments or request a public meeting within this time period will constitute a waiver of any right such person may have to submit comments or request a public meeting under Rule 62-620.555, F.A.C.

The comments or request for a public meeting shall contain the following information:

- 1) The commenter's name, address and telephone number, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- 2) A statement of how and when notice of the draft permit was received;
- 3) A description of any changes the commenter proposes for the draft permit;
- 4) A full explanation of the factual and legal reasons for each proposed change to the draft permit; and

A request that a public meeting be scheduled (if applicable) including a statement of the nature of the issues proposed to be raised at the meeting.

b. Public Meeting

The Department will hold a public meeting if there is a significant degree of public interest in the draft permit or if it determines that useful information and data may be obtained thereby. Public notice of such a meeting shall be published by the applicant at least 30 days prior to the meeting.

If a public meeting is scheduled the public comment period is extended until the close of the public meeting. If a public meeting is held any person may submit oral or written statements and data at the meeting on the Department's proposed action.

c. Issuance of the Permit

The Department will make its decision regarding permit issuance after consideration of all written comments, including comments from the United States Environmental Protection Agency on surface water discharge aspects of the draft or a proposed permit; the requirements of Chapter 403, F.S. and appropriate rules; and, if a public meeting is held, after consideration of all comments, statements and data presented at the public meeting. The Department will respond to all significant comments in writing. The Department's response to significant comments will be included in the administrative record of the permit and will be available for public inspection at the above named District office of the Department.

Unless a request for an administrative hearing, or an extension of time to file a petition for an administrative hearing, as indicated in d. below, is granted, the Department will take final agency action by issuing the permit or denying the permit application. If an administrative hearing is convened, final agency action will be based on the outcome of the hearing.

d. Administrative Hearing

A person whose substantial interests are affected by the Department's proposed permitting decision has the opportunity to petition for an administrative proceeding (hearing) to challenge the Department's decision in accordance with Section 120.57, F.S.

An administrative hearing is an evidentiary proceeding in which evidence is presented by testimony and exhibits before an independent hearing officer. The result of an administrative hearing is the issuance of the hearing officer's recommended order to the Department, including the hearing officer's findings of fact, based on the evidence presented at the hearing. The Department will issue a final order, granting or denying the permit, based on the hearing officer's recommended order.

The petition for an administrative hearing must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of publication of notice of agency action or within 14 days of personal receipt of notice of agency action, whichever occurs first. The petitioner is to mail a copy of the petition to the applicant at the time of filing. Failure to file a petition within this time period will constitute a waiver of any right such person may have to request an administrative determination (hearing) under section 120.57, F.S. The petition is to contain the following information:

- 1) The name, address and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- 2) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- 3) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- 4) A statement of the material facts which the petitioner contends warrant reversal or modification of the Department's action or proposed action;
- 5) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- 6) A statement of the relief sought by the petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in the notice of agency action. Persons whose substantial interests will be affected by any decision of the Department on the application have the right to petition to become a party to the proceeding, regardless of their agreement or disagreement with the Department's proposed action indicated in the notice of agency action.

# APPENDIX A – FDEP FYI3 Monitoring Data

**Table 1. Effluent limits, Class III Freshwater Criteria and field parameters**

South Woods Elementary RO WTP	Units	Class III Criteria	Effluent Permit Limits	Effluent Grab 3/9/15
Sample Depth	m	-	-	NA
Temperature	C	-	Report	19.64
pH	SU	6.0 - 8.5	6.0 - 8.5	7.76
Specific Conductance	umhos/cm	≤ 1,275	≤ 4950 s	6698 e
Salinity	ppth	-	-	3.68
Dissolved Oxygen	% saturation	≥ 34	-	81.91
Dissolved Oxygen	mg/L	≥ 5.0	≥ 5.0	7.34
Flow (1/1/14-12/31/14)	MGD	-	≤ 0.0072	0.0013
Total Residual Chlorine	mg/L	≤ 0.01	-	0.0

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.

e -Value exceeds the Class III Water Quality Criteria or permit limits

s - Single sample

NA - Parameters measured in a cup using water from effluent sampling spigot.

**Table 2. Effluent limits, Class III Freshwater Criteria and analytical water chemistry data**

South Woods Elementary RO WTP	Units	Class III Criteria	Effluent Permit Limits	Effluent Grab 3/9/15
Total Phosphorus	mg P/L	-	Report	0.007 l
Total Ammonia	mg N/L	-	Report	0.42
Un-ionized Ammonia (calculated salinity)	mg N/L	≤ 0.02 s	≤ 0.026	< 0.02 c
Nitrate and Nitrite	mg N/L	-	-	0.34
Total Kjeldahl Nitrogen	mg N/L	-	-	0.77
Organic Nitrogen	mg N/L	-	-	0.35 c
Total Nitrogen	mg N/L	-	Report	1.11 c
Total Organic Carbon	mg C/L	-	-	4.0 A
Chlorophyll <i>a</i> - Corrected	ug/L	-	-	0.55 U
Phaeophytin	ug/L	-	-	0.52 l
CBOD, 5 day, N - inhibited	mg/L	-	-	0.68 l
Total Suspended Solids	mg/L	-	Report	2.0 U
Turbidity	NTU	< 29 t	-	0.30
Color (true)	PCU	-	-	4.7 l
Alkalinity	mg CaCO <sub>3</sub> /L	≥ 20	-	240 A
Chloride	mg Cl/L	-	-	1000 A
Fluoride	mg F/L	≤ 10.0	-	1.2
Sulfate	mg SO <sub>4</sub> /L	-	-	2500 A
Sulfide	mg/L	-	-	1.0 UQ
Alpha, Total	pCi/L	≤ 15	≤ 20	38.8 U
Alpha-Counting Error	pCi/L	-	-	23.7
Radium 226	pCi/L	-	-	2.56
Radium 226-Counting Error	pCi/L	-	-	0.32
Radium 228	pCi/L	-	-	0.322 l
Radium 228-Counting Error	pCi/L	-	-	0.160
Radium 226 + 228	pCi/L	≤ 5	≤ 12.5	2.88 c
<b>Toxicity (Acute Definitive, LC50)</b>				
Bioassay - Water flea ( <i>Ceriodaphnia dubia</i> )	%	≥ 100	≥ 20 s	89.1
Bioassay - Fish ( <i>Pimephales promelas</i> )	%	≥ 100	≥ 20 s	100 L

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.

c - Value is calculated

s - Single sample

t - Shall not exceed 29 NTUs above background

A - Value reported is the mean of two or more determinations

**Table 3. Effluent limits, Class III Freshwater Criteria and analytical metals data**

South Woods Elementary RO WTP	Units	Effluent Permit Limits	Effluent Grab 3/9/15 Class III Criteria	Effluent Grab 3/9/15
Hardness	mg/L as CaCO <sub>3</sub>	-	-	3370 c
Aluminum	ug/L	-	-	5.0 U
Arsenic	ug/L	-	≤ 50	0.30 I
Cadmium	ug/L	-	≤ 0.756 b	0.050 U
Calcium	mg/L	-	-	708
Chromium, Total <sup>1</sup>	ug/L	-	≤ 268 b	0.30 U
Copper	ug/L	-	≤ 30.5 b	0.50 U
Iron	ug/L	-	≤ 1,000	30 U
Lead	ug/L	-	≤ 18.6 b	0.20 U
Magnesium	mg/L	-	-	388
Mercury	ug/L	-	0.012	-
Nickel	ug/L	-	≤ 169 b	0.43 I
Potassium	mg/L	-	-	18.7
Selenium	ug/L	-	≤ 5.0	0.20 U
Silver	ug/L	-	≤ 0.07	0.025 U
Sodium	mg/L	-	-	516
Zinc	ug/L	-	≤ 388 b	5.0 U

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.

1 - Class III Freshwater Quality Criterion (62-302.530(19)(a), F.A.C.) is for chromium-III

b -Value is calculated based on hardness, (62-302.530(3))

c - Value is calculated

I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit

U - Material analyzed for but not detected; value reported is the method detection limit

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

**When Completed mail this report to:** Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: St. Johns County School District  
 MAILING ADDRESS: 40 Orange Street  
 St. Augustine, Florida 32084

PERMIT NUMBER: FL0429333-004-IW5D

LIMIT: Final  
 CLASS SIZE: MI  
 MONITORING GROUP NUMBER: D-001  
 MONITORING GROUP DESCRIPTION: Discharge to Deep Creek

REPORT FREQUENCY: **Monthly**  
 PROGRAM: **Industrial**

FACILITY: South Woods Elementary RO WTP  
 LOCATION: 4700 State Road 206 West  
 Hastings, FL 32145

RE-SUBMITTED DMR:   
 NO DISCHARGE FROM SITE:   
 MONITORING PERIOD From: \_\_\_\_\_ To: \_\_\_\_\_

COUNTY: St. Johns  
 OFFICE: Northeast District

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 1 Mon. Site No. FLW-1	Permit Requirement	0.032 (Day.Max.)	0.0072 (Mo.Avg.)	MGD						Continuous	Recording Flow Meter with Totalizer
Oxygen, Dissolved (DO)	Sample Measurement										
PARM Code 00300 1 Mon. Site No. EFF-1	Permit Requirement				5.0 (Min.)			mg/L		Weekly	Grab
pH	Sample Measurement										
PARM Code 00400 1 Mon. Site No. EFF-1	Permit Requirement				6.0 (Min.)	8.5 (Max.)		s.u.		Weekly	Grab
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 1 Mon. Site No. EFF-1	Permit Requirement					Report (Max.)		mg/L		Monthly	Grab
Temperature (C), Water	Sample Measurement										
PARM Code 00010 1 Mon. Site No. EFF-1	Permit Requirement					Report (Max.)		Deg C		Monthly	Grab
Nitrogen, Ammonia, Total (as N)	Sample Measurement										
PARM Code 00610 1 Mon. Site No. EFF-1	Permit Requirement					Report (Max.)		mg/L		Monthly	Grab

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):



**DISCHARGE MONITORING REPORT - PART A (Continued)**

FACILITY: South Woods Elementary RO WTP

MONITORING GROUP NUMBER: D-001

PERMIT NUMBER: FL0429333-004-IW5D

MONITORING PERIOD From: \_\_\_\_\_ To: \_\_\_\_\_

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrogen, Ammonia, Total unionized (as N)	Sample Measurement										
PARM Code 00612 P Mon. Site No. CAL-1	Permit Requirement					0.026 (Max.)	mg/L			Monthly	Calculated
Specific Conductance (effluent)	Sample Measurement										
PARM Code 00095 1 Mon. Site No. EFF-1	Permit Requirement					4,950 (Max.)	µmhos/cm			Monthly	Grab
Specific Conductance (background)	Sample Measurement										
PARM Code 00095 5 Mon. Site No. SWB-1	Permit Requirement					Report (Max.)	µmhos/cm			Monthly	Grab
LC50 STATRE 96HOUR ACUTE Ceriodaphnia dubia (Routine)	Sample Measurement										
PARM Code TAN3B P Mon. Site No. EFF-1	Permit Requirement				20 (Min.)		percent			Once Every 5 Years	Grab
LC50 STATRE 96HOUR ACUTE Ceriodaphnia dubia (Additional)	Sample Measurement										
PARM Code TAN3B Q Mon. Site No. EFF-1	Permit Requirement				20 (Min.)		percent			As needed	As required by the permit
LC50 STATRE 96HOUR ACUTE Ceriodaphnia dubia (Additional)	Sample Measurement										
PARM Code TAN3B R Mon. Site No. EFF-1	Permit Requirement				20 (Min.)		percent			As needed	As required by the permit
LC50 STATRE 96HOUR ACUTE Cyprinella leedsii (Routine)	Sample Measurement										
PARM Code TAN6H P Mon. Site No. EFF-1	Permit Requirement				20 (Min.)		percent			Once Every 5 Years	Grab
LC50 STATRE 96HOUR ACUTE Cyprinella leedsii (Additional)	Sample Measurement										
PARM Code TAN6H Q Mon. Site No. EFF-1	Permit Requirement				20 (Min.)		percent			As needed	As required by the permit
LC50 STATRE 96HOUR ACUTE Cyprinella leedsii (Additional)	Sample Measurement										
PARM Code TAN6H R Mon. Site No. EFF-1	Permit Requirement				20 (Min.)		percent			As needed	As required by the permit

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

**When Completed mail this report to:** Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME:	St. Johns County School District	PERMIT NUMBER:	FL0429333-004-IW5D
MAILING ADDRESS:	40 Orange Street St. Augustine, Florida 32084	LIMIT:	Final
FACILITY:	South Woods Elementary RO WTP	CLASS SIZE:	MI
LOCATION:	4700 State Road 206 W Hastings, FL 32145	MONITORING GROUP NUMBER:	D-001
COUNTY:	St. Johns	MONITORING GROUP DESCRIPTION:	Discharge to Deep Creek
OFFICE:	Northeast District	RE-SUBMITTED DMR:	<input type="checkbox"/>
		NO DISCHARGE FROM SITE:	<input type="checkbox"/>
		MONITORING PERIOD	From: _____ To: _____
		REPORT FREQUENCY:	<b>Quarterly</b>
		PROGRAM:	<b>Industrial</b>

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Hydrogen sulfide un-ionized	Sample Measurement							
PARM Code 51078 1 Mon. Site No. EFF-1	Permit Requirement			Report (Max.)	mg/L		Quarterly	Grab
Nitrogen, Total	Sample Measurement							
PARM Code 00600 1 Mon. Site No. EFF-1	Permit Requirement			Report (Max.)	mg/L		Quarterly	Grab
Phosphorus, Total (as P)	Sample Measurement							
PARM Code 00665 1 Mon. Site No. EFF-1	Permit Requirement			Report (Max.)	mg/L		Quarterly	Grab
Alpha, Gross Particle Activity	Sample Measurement							
PARM Code 80045 1 Mon. Site No. EFF-1	Permit Requirement			20.0 (Max.)	pCi/L		Quarterly	Grab
Radium 226 + Radium 228, Total	Sample Measurement							
PARM Code 11503 1 Mon. Site No. EFF-1	Permit Requirement			12.5 (Max.)	pCi/L		Quarterly	Grab

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

Attachment A  
**INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT**

Read these instructions before completing the DMR. Hard copies and/or electronic copies of the required parts of the DMR were provided with the permit. All required information shall be completed in full and typed or printed in ink. A signed, original DMR shall be mailed to the address printed on the DMR by the 28<sup>th</sup> of the month following the monitoring period. Facilities who submit their DMR(s) electronically through eDMR do not need to submit a hardcopy DMR. The DMR shall not be submitted before the end of the monitoring period.

The DMR consists of three parts--A, B, and D--all of which may or may not be applicable to every facility. Facilities may have one or more Part A's for reporting effluent or reclaimed water data. All domestic wastewater facilities will have a Part B for reporting daily sample results. Part D is used for reporting ground water monitoring well data.

When results are not available, the following codes should be used on parts A and D of the DMR and an explanation provided where appropriate. Note: Codes used on Part B for raw data are different.

CODE	DESCRIPTION/INSTRUCTIONS
ANC	Analysis not conducted.
DRY	Dry Well
FLD	Flood disaster.
IFS	Insufficient flow for sampling.
LS	Lost sample.
MNR	Monitoring not required this period.

CODE	DESCRIPTION/INSTRUCTIONS
NOD	No discharge from/to site.
OPS	Operations were shutdown so no sample could be taken.
OTH	Other. Please enter an explanation of why monitoring data were not available.
SEF	Sampling equipment failure.

When reporting analytical results that fall below a laboratory's reported method detection limits or practical quantification limits, the following instructions should be used, unless indicated otherwise in the permit or on the DMR:

1. Results greater than or equal to the PQL shall be reported as the measured quantity.
2. Results less than the PQL and greater than or equal to the MDL shall be reported as the laboratory's MDL value. These values shall be deemed equal to the MDL when necessary to calculate an average for that parameter and when determining compliance with permit limits.
3. Results less than the MDL shall be reported by entering a less than sign (" $<$ ") followed by the laboratory's MDL value, e.g.  $< 0.001$ . A value of one-half the MDL or one-half the effluent limit, whichever is lower, shall be used for that sample when necessary to calculate an average for that parameter. Values less than the MDL are considered to demonstrate compliance with an effluent limitation.

**PART A -DISCHARGE MONITORING REPORT (DMR)**

Part A of the DMR is comprised of one or more sections, each having its own header information. Facility information is preprinted in the header as well as the monitoring group number, whether the limits and monitoring requirements are interim or final, and the required submittal frequency (e.g. monthly, annually, quarterly, etc.). Submit Part A based on the required reporting frequency in the header and the instructions shown in the permit. The following should be completed by the permittee or authorized representative:

**Resubmitted DMR:** Check this box if this DMR is being re-submitted because there was information missing from or information that needed correction on a previously submitted DMR. The information that is being revised should be clearly noted on the re-submitted DMR (e.g. highlight, circle, etc.)

**No Discharge From Site:** Check this box if no discharge occurs and, as a result, there are no data or codes to be entered for all of the parameters on the DMR for the entire monitoring group number; however, if the monitoring group includes other monitoring locations (e.g., influent sampling), the "NOD" code should be used to individually denote those parameters for which there was no discharge.

**Monitoring Period:** Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

**Sample Measurement:** Before filling in sample measurements in the table, check to see that the data collected correspond to the limit indicated on the DMR (i.e. interim or final) and that the data correspond to the monitoring group number in the header. Enter the data or calculated results for each parameter on this row in the non-shaded area above the limit. Be sure the result being entered corresponds to the appropriate statistical base code (e.g. annual average, monthly average, single sample maximum, etc.) and units. Data qualifier codes are not to be reported on Part A.

**No. Ex.:** Enter the number of sample measurements during the monitoring period that exceeded the permit limit for each parameter in the non-shaded area. If none, enter zero.

**Frequency of Analysis:** The shaded areas in this column contain the minimum number of times the measurement is required to be made according to the permit. Enter the actual number of times the measurement was made in the space above the shaded area.

**Sample Type:** The shaded areas in this column contain the type of sample (e.g. grab, composite, continuous) required by the permit. Enter the actual sample type that was taken in the space above the shaded area.

**Signature:** This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

**Comment and Explanation of Any Violations:** Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation. If more space is needed, reference all attachments in this area.

**PART B - DAILY SAMPLE RESULTS**

## Attachment A

**Monitoring Period:** Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

**Daily Monitoring Results:** Transfer all analytical data from your facility's laboratory or a contract laboratory's data sheets for all day(s) that samples were collected. Record the data in the units indicated. Table 1 in Chapter 62-160, F.A.C., contains a complete list of all the data qualifier codes that your laboratory may use when reporting analytical results. However, when transferring numerical results onto Part B of the DMR, only the following data qualifier codes should be used and an explanation provided where appropriate.

CODE	DESCRIPTION/INSTRUCTIONS
<	The compound was analyzed for but not detected.
A	Value reported is the mean (average) of two or more determinations.
J	Estimated value, value not accurate.
Q	Sample held beyond the actual holding time.
Y	Laboratory analysis was from an unpreserved or improperly preserved sample.

To calculate the monthly average, add each reported value to get a total. For flow, divide this total by the number of days in the month. For all other parameters, divide the total by the number of observations.

**Plant Staffing:** List the name, certificate number, and class of all state certified operators operating the facility during the monitoring period. Use additional sheets as necessary.

**PART D - GROUND WATER MONITORING REPORT**

**Monitoring Period:** Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

**Date Sample Obtained:** Enter the date the sample was taken. Also, check whether or not the well was purged before sampling.

**Time Sample Obtained:** Enter the time the sample was taken.

**Sample Measurement:** Record the results of the analysis. If the result was below the minimum detection limit, indicate that. Data qualifier codes are not to be reported on Part D.

**Detection Limits:** Record the detection limits of the analytical methods used.

**Analysis Method:** Indicate the analytical method used. Record the method number from Chapter 62-160 or Chapter 62-601, F.A.C., or from other sources.

**Sampling Equipment Used:** Indicate the procedure used to collect the sample (e.g. airlift, bucket/bailer, centrifugal pump, etc.)

**Samples Filtered:** Indicate whether the sample obtained was filtered by laboratory (L), filtered in field (F), or unfiltered (N).

**Signature:** This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

**Comments and Explanation:** Use this space to make any comments on or explanations of results that are unexpected. If more space is needed, reference all attachments in this area.

**SPECIAL INSTRUCTIONS FOR LIMITED WET WEATHER DISCHARGES**

**Flow (Limited Wet Weather Discharge):** Enter the measured average flow rate during the period of discharge or divide gallons discharged by duration of discharge (converted into days). Record in million gallons per day (MGD).

**Flow (Upstream):** Enter the average flow rate in the receiving stream upstream from the point of discharge for the period of discharge. The average flow rate can be calculated based on two measurements; one made at the start and one made at the end of the discharge period. Measurements are to be made at the upstream gauging station described in the permit.

**Actual Stream Dilution Ratio:** To calculate the Actual Stream Dilution Ratio, divide the average upstream flow rate by the average discharge flow rate. Enter the Actual Stream Dilution Ratio accurate to the nearest 0.1.

**No. of Days the SDF > Stream Dilution Ratio:** For each day of discharge, compare the minimum Stream Dilution Factor (SDF) from the permit to the calculated Stream Dilution Ratio. On Part B of the DMR, enter an asterisk (\*) if the SDF is greater than the Stream Dilution Ratio on any day of discharge. On Part A of the DMR, add up the days with an "\*" and record the total number of days the Stream Dilution Factor was greater than the Stream Dilution Ratio.

**CBOD<sub>5</sub>:** Enter the average CBOD<sub>5</sub> of the reclaimed water discharged during the period shown in duration of discharge.

**TKN:** Enter the average TKN of the reclaimed water discharged during the period shown in duration of discharge.

**Actual Rainfall:** Enter the actual rainfall for each day on Part B. Enter the actual cumulative rainfall to date for this calendar year and the actual total monthly rainfall on Part A. The cumulative rainfall to date for this calendar year is the total amount of rain, in inches, that has been recorded since January 1 of the current year through the month for which this DMR contains data.

**Rainfall During Average Rainfall Year:** On Part A, enter the total monthly rainfall during the average rainfall year and the cumulative rainfall for the average rainfall year. The cumulative rainfall for the average rainfall year is the amount of rain, in inches, which fell during the average rainfall year from January through the month for which this DMR contains data.

**No. of Days LWWD Activated During Calendar Year:** Enter the cumulative number of days that the limited wet weather discharge was activated since January 1 of the current year.

**Reason for Discharge:** Attach to the DMR a brief explanation of the factors contributing to the need to activate the limited wet weather discharge.



**FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION**

NORTHEAST DISTRICT  
8800 BAYMEADOWS WAY WEST, SUITE 100  
JACKSONVILLE, FLORIDA 32256

RICK SCOTT  
GOVERNOR

CARLOS LOPEZ-CATERA  
LT. GOVERNOR

HERSCHEL T. VINYARD JR.  
SECRETARY

August 13, 2014

In the Matter of an  
Application for Permit by:

Mr. Tim Forson  
Deputy Superintendent for Operations  
St. Johns County School District  
40 Orange Street  
Saint Augustine, Florida 32084

File Number FLA395692-005-DW4P  
St. Johns County  
Southwood Elementary WWTF

**NOTICE OF PERMIT ISSUANCE**

Enclosed is Permit Number FLA395692 to operate the Southwood Elementary Wastewater treatment Facility (WWTF). The WWTF is an existing 0.008 MGD annual average daily flow (AADF) permitted capacity domestic wastewater treatment facility using Modified Ludzack-Ettinger activated sludge process consisting of a 6-foot diameter influent pump station with dual 150-GPM pumps, a static screen with 0.10 inch slots, two 7,000-gallon flow equalization tanks, a splitter box, two 7,000-gallon anoxic tanks, four 7,000-gallon aeration tanks, two 86.5-ft<sup>2</sup> surface area secondary clarifiers, two 7-ft<sup>2</sup> surface area US filters with anthracite and sand media, two 775-gallon chlorine contact chambers, two 40-GPD hypochlorite pumps (one backup), a 30-gallon hypochlorite holding tank, two 5-GPD polymer pumps (one backup), a 30-gallon polymer solution holding tank, a weir box with a 22 ½ degree; V-notch weir, a 8 inch diameter reclaimed water pump station with dual 310-GPM pumps, two 6,700-gallon sludge holding tanks, and a 50-Kw onsite emergency electric generator. Effluent will be high-level disinfection and discharged to an onsite absorption field. Wastewater biosolids are hauled to Rainbow Ranch RMF for treatment and final disposal. The permit is issued under Chapter 403, Florida Statutes.

Monitoring requirements under this permit are effective on the first day of the second month following the effective date of the permit (March 2015). Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements, if any.

The Department's proposed agency action shall become final unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, Florida Statutes, within fourteen days of receipt of notice. The procedures for petitioning for a hearing are set forth below.

Southwood Elementary WWTF  
FLA395692-005  
Page 2 of 5  
August 13, 2014

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received by the Clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000.

Under Rule 62-110.106(4), Florida Administrative Code, a person may request an extension of the time for filing a petition for an administrative hearing. The request must be filed (received by the Clerk) in the Office of General Counsel before the end of the time period for filing a petition for an administrative hearing.

Petitions by the applicant or any of the persons listed below must be filed within fourteen days of receipt of this written notice. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), Florida Statutes, must be filed within fourteen days of publication of the notice or within fourteen days of receipt of the written notice, whichever occurs first. Section 120.60(3), Florida Statutes, however, also allows that any person who has asked the Department in writing for notice of agency action may file a petition within fourteen days of receipt of such notice, regardless of the date of publication.

The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition or request for an extension of time within fourteen days of receipt of notice shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, Florida Statutes. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information, as indicated in Rule 28-106.201, Florida Administrative Code:

- (a) The name and address of each agency affected and each agency's file or identification number, if known;
- (b) The name, address, any e-mail address, any facsimile number, and telephone number of the petitioner, if the petitioner is not represented by an attorney or a qualified representative; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the determination;
- (c) A statement of when and how the petitioner received notice of the Department's decision;

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- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the Department's proposed action;
- (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the Department's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the Department to take with respect to the Department's proposed action.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

In addition to requesting an administrative hearing, any petitioner may elect to pursue mediation. The election may be accomplished by filing with the Department a mediation agreement with all parties to the proceeding (i.e., the applicant, the Department, and any person who has filed a timely and sufficient petition for a hearing). The agreement must contain all the information required by Rule 28-106.404, Florida Administrative Code. The agreement must be received by the Clerk in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, within ten days after the deadline for filing a petition, as set forth above. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement.

As provided in Section 120.573, Florida Statutes, the timely agreement of all parties to mediate will toll the time limitations imposed by Sections 120.569 and 120.57, Florida Statutes, for holding an administrative hearing and issuing a final order. Unless otherwise agreed by the parties, the mediation must be concluded within sixty days of the execution of the agreement. If mediation results in settlement of the administrative dispute, the Department must enter a final order incorporating the agreement of the parties. Persons seeking to protect their substantial interests that would be affected by such a modified final decision must file their petitions within fourteen days of receipt of this notice, or they shall be deemed to have waived their right to a proceeding under Sections 120.569 and 120.57, Florida Statutes. If mediation terminates without settlement of the dispute, the Department shall notify all parties in writing that the administrative hearing processes under Sections 120.569 and 120.57, Florida Statutes, remain available for disposition of the dispute, and the notice will specify the deadlines

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that then will apply for challenging the agency action and electing remedies under those two statutes.

This permit action is final and effective on the date filed with the Clerk of the Department unless a petition (or request for an extension of time) is filed in accordance with the above. Upon the timely filing of a petition (or request for an extension of time), this permit will not be effective until further order of the Department.

Any party to this permit has the right to seek judicial review of the permit action under Section 120.68, Florida Statutes, by the filing of a notice of appeal under Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days from the date when this permit action is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL  
PROTECTION

A handwritten signature in cursive script, appearing to read "Jeff Martin".

Jeff Martin, P.E.  
Wastewater Permitting Chief

JM/lb

Enclosure

c: Chris Mickler, P.E.  
St. Johns County Health Department  
St. Johns County Board of County Commissioners



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**FILING AND ACKNOWLEDGEMENT/CERTIFICATE OF SERVICE**

Filed on this date pursuant to § 120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged. The undersigned hereby certifies that this Notice of Permit Issuance and all copies were sent before the close of business on August 13, 2014 to the listed persons.

*Jinda B. Bratton*

\_\_\_\_\_  
Clerk

August 13, 2014

Date



Attachment B  
**FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION**

NORTHEAST DISTRICT  
8800 BAYMEADOWS WAY WEST, SUITE 100  
JACKSONVILLE, FLORIDA 32256

**RICK SCOTT**  
GOVERNOR

**CARLOS LOPEZ-CATERA**  
LT. GOVERNOR

**HERSCHEL T. VINYARD JR.**  
SECRETARY

**STATE OF FLORIDA  
DOMESTIC WASTEWATER FACILITY PERMIT**

**PERMITTEE:**

St. Johns County School District

**RESPONSIBLE OFFICIAL:**

Mr. Tim Forson  
Deputy Superintendent for Operations  
St. Johns County School District  
40 Orange Street  
Saint Augustine, Florida 32084

**PERMIT NUMBER:** FLA395692

**FILE NUMBER:** FLA395692-005-DW4P

**EFFECTIVE DATE:** January 21, 2015

**EXPIRATION DATE:** January 20, 2020

**FACILITY:**

Southwood Elementary WWTF  
4700 State Road 206  
Hastings, Florida 32145  
St. Johns County  
Latitude: 29°43' 39.0281" N    Longitude: 81°28' .0282" W

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and applicable rules of the Florida Administrative Code (F.A.C.). This permit does not constitute authorization to discharge wastewater other than as expressly stated in this permit. The above named permittee is hereby authorized to operate the facilities in accordance with the documents attached hereto and specifically described as follows:

**WASTEWATER TREATMENT:**

An existing 0.008 MGD annual average daily flow (AADF) permitted capacity WWTF with Modified Ludzack-Ettinger activated sludge process consisting of a 6-foot diameter influent pump station with dual 150-GPM pumps, a static screen with 0.10 inch slots, two 7,000-gallon flow equalization tanks, a splitter box, two 7,000-gallon anoxic tanks, four 7,000-gallon aeration tanks, two 86.5-ft<sup>2</sup> surface area secondary clarifiers, two 7-ft<sup>2</sup> surface area US filters with anthracite and sand media, two 775-gallon chlorine contact chambers, two 40-GPD hypochlorite pumps (one backup), a 30-gallon hypochlorite holding tank, two 5-GPD polymer pumps (one backup), a 30-gallon polymer solution holding tank, a weir box with a 22 ½ degree; V-notch weir, a 8 inch diameter reclaimed water pump station with dual 310-GPM pumps, two 6,700-gallon sludge holding tanks, and a 50-Kw onsite emergency electric generator. Effluent will be high-level disinfection and discharged to an onsite absorption field. Wastewater biosolids are hauled to Rainbow Ranch RMF for treatment and final disposal.

**REUSE OR DISPOSAL:**

**Land Application R-001:** An existing 0.008 MGD annual average daily flow permitted capacity absorption field system, R-001, consists of an above ground absorption field, which is divided into two operation zones, located approximately at latitude 29°43' 39" N, longitude 81°27' 58" W.

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PERMITTEE: St. Johns County School District  
FACILITY: Southwood Elementary WWTF

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**IN ACCORDANCE WITH:** The limitations, monitoring requirements, and other conditions set forth in this cover sheet and Part I through Part IX on pages 1 through 232 of this permit.

PERMITTEE: St. Johns County School District  
 FACILITY: Southwood Elementary WWTF

PERMIT NUMBER: FLA395692  
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## I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

### A. Reuse and Land Application Systems

1. During the period beginning on the effective date and lasting through the expiration date of this permit, the permittee is authorized to direct reclaimed water to Reuse System R-001. Such reclaimed water shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.B.6.:

Parameter	Units	Max/Min	Reclaimed Water Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow	MGD	Max Max Max	0.008 Report Report	Annual Average 3-month Average Monthly Average	5 Days/Week	Meter	EFA-1	See I.A.3
Percent Capacity, (TMADF/Permitted Capacity) x 100	percent	Max	Report	Monthly Total	Monthly	Calculated	CAL-1	
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max Max Max	20.0 30.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample	Monthly	Grab	EFA-1	
Solids, Total Suspended	mg/L	Max	10.0	Single Sample	Monthly	Grab	EFA-1	
Coliform, Fecal	#/100mL	Max Max Max	200 200 800	Monthly Geometric Mean Annual Average Single Sample	Monthly	Grab	EFA-1	See I.A.4
pH	s.u.	Min Max	6.0 8.5	Single Sample Single Sample	5 Days/Week	Grab	EFA-1	
Chlorine, Total Residual (For Disinfection)	mg/L	Min	0.5	Single Sample	5 Days/Week	Grab	EFA-1	See I.A.5
Nitrogen, Nitrate, Total (as N)	mg/L	Max	12.0	Single Sample	Monthly	Grab	EFA-1	
Solids, Total Dissolved	mg/L	Max	Report	Single Sample	Semi-Annual (Twice a year)	Grab	EFA-1	

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2. Reclaimed water samples shall be taken at the monitoring site locations listed in Permit Condition I.A.1. and as described below:

Monitoring Site Number	Description of Monitoring Site
EFA-1	Effluent sample point immediately after disinfection and prior to discharge to the absorption field
CAL-1	Calculated Value

3. A meter shall be utilized to measure flow and calibrated at least once every 12 months. *[62-601.200(17) and .500(6)]*
4. The effluent limitation for the monthly geometric mean for fecal coliform is only applicable if 10 or more values are reported. If fewer than 10 values are reported, the monthly geometric mean shall be calculated and reported on the Discharge Monitoring Report. *[62-600.440(4)(c)]*
5. Total residual chlorine must be maintained for a minimum contact time of 15 minutes based on peak hourly flow. *[62-610.510, 62-600.440(4)(b) and (5)(b)]*

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### B. Other Limitations and Monitoring and Reporting Requirements

1. During the period beginning on the effective date and lasting through the expiration date of this permit, the treatment facility shall be limited and monitored by the permittee as specified below and reported in accordance with condition I.B.6.

Parameter	Units	Max/Min	Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
BOD, Carbonaceous 5 day, 20C (Influent)	mg/L	Max	Report	Single Sample	Monthly	Grab	INF-1	See I.B.3
Solids, Total Suspended (Influent)	mg/L	Max	Report	Single Sample	Monthly	Grab	INF-1	See I.B.3

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2. Samples shall be taken at the monitoring site locations listed in Permit Condition I.B.1. and as described below:

Monitoring Site Number	Description of Monitoring Site
INF-1	Influent sample point prior to any biological, chemical, physical treatment or dilution

3. Influent samples shall be collected so that they do not contain digester supernatant or return activated sludge, or any other plant process recycled waters. *[62-601.500(4)]*
4. The sample collection, analytical test methods and method detection limits (MDLs) applicable to this permit shall be conducted using a sufficiently sensitive method to ensure compliance with applicable water quality standards and effluent limitations and shall be in accordance with Rule 62-4.246, Chapters 62-160 and 62-601, F.A.C., and 40 CFR 136, as appropriate. The list of Department established analytical methods, and corresponding MDLs (method detection limits) and PQLs (practical quantitation limits), which is titled "FAC 62-4 MDL/PQL Table (April 26, 2006)" is available at <http://www.dep.state.fl.us/labs/library/index.htm>. The MDLs and PQLs as described in this list shall constitute the minimum acceptable MDL/PQL values and the Department shall not accept results for which the laboratory's MDLs or PQLs are greater than those described above unless alternate MDLs and/or PQLs have been specifically approved by the Department for this permit. Any method included in the list may be used for reporting as long as it meets the following requirements:
- The laboratory's reported MDL and PQL values for the particular method must be equal or less than the corresponding method values specified in the Department's approved MDL and PQL list;
  - The laboratory reported MDL for the specific parameter is less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Parameters that are listed as "report only" in the permit shall use methods that provide an MDL, which is equal to or less than the applicable water quality criteria stated in 62-302, F.A.C.; and
  - If the MDLs for all methods available in the approved list are above the stated permit limit or applicable water quality criteria for that parameter, then the method with the lowest stated MDL shall be used.

When the analytical results are below method detection or practical quantitation limits, the permittee shall report the actual laboratory MDL and/or PQL values for the analyses that were performed following the instructions on the applicable discharge monitoring report.

Where necessary, the permittee may request approval of alternate methods or for alternative MDLs or PQLs for any approved analytical method. Approval of alternate laboratory MDLs or PQLs are not necessary if the laboratory reported MDLs and PQLs are less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Approval of an analytical method not included in the above-referenced list is not necessary if the analytical method is approved in accordance with 40 CFR 136 or deemed acceptable by the Department. *[62-4.246, 62-160]*

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5. The permittee shall provide safe access points for obtaining representative influent, reclaimed water, and effluent samples which are required by this permit. *[62-601.500(5)]*
6. Monitoring requirements under this permit are effective on the first day of the second month following the effective date of the permit. Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements, if any. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified by the REPORT type (i.e. monthly, quarterly, semiannual, annual, etc.) indicated on the DMR forms attached to this permit. Unless specified otherwise in this permit, monitoring results for each monitoring period shall be submitted in accordance with the associated DMR due dates below. DMRs shall be submitted for each required monitoring period including periods of no discharge.

REPORT Type on DMR	Monitoring Period	Mail or Electronically Submit by
Monthly	first day of month - last day of month	28 <sup>th</sup> day of following month
Quarterly	January 1 - March 31 April 1 - June 30 July 1 - September 30 October 1 - December 31	April 28 July 28 October 28 January 28
Semiannual	January 1 - June 30 July 1 - December 31	July 28 January 28
Annual	January 1 - December 31	January 28

The permittee may submit either paper or electronic DMR forms. If submitting paper DMR forms, the permittee shall make copies of the attached DMR forms, without altering the original format or content unless approved by the Department, and shall mail the completed DMR forms to the Department's Northeast District Office at the address specified in Permit Condition I.B.7. by the twenty-eighth (28th) of the month following the month of operation.

If submitting electronic DMR forms, the permittee shall use the electronic DMR system(s) approved in writing by the Department and shall electronically submit the completed DMR forms to the Department by the twenty-eighth (28th) of the month following the month of operation. Data submitted in electronic format is equivalent to data submitted on signed and certified paper DMR forms.

*[62-620.610(18)][62-601.300(1),(2), and (3)]*

7. Unless specified otherwise in this permit, all reports and other information required by this permit, including 24-hour notifications, shall be submitted to or reported to, as appropriate, the Department's Northeast District Office at the address specified below:



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Florida Department of Environmental Protection  
 Northeast District Office  
 Wastewater Section  
 8800 Baymeadows Way West  
 Suite 100  
 Jacksonville, Florida 32256-7577

Phone Number - (904)256-1700

FAX Number - (904)448-4366

(All FAX copies and e-mails shall be followed by original copies.)

*[62-620.305]*

8. All reports and other information shall be signed in accordance with the requirements of Rule 62-620.305, F.A.C. *[62-620.305]*

## II. BIOSOLIDS MANAGEMENT REQUIREMENTS

1. Biosolids generated by this facility may be transferred to Rainbow Ranch or disposed of in a Class I solid waste landfill. Transferring biosolids to an alternative biosolids treatment facility does not require a permit modification. However, use of an alternative biosolids treatment facility requires submittal of a copy of the agreement pursuant to Rule 62-640.880(1)(c), F.A.C., along with a written notification to the Department at least 30 days before transport of the biosolids. *[62-620.320(6), 62-640.880(1)]*
2. The permittee shall monitor and keep records of the quantities of biosolids generated, transferred to another facility, or landfilled. These records shall be kept for a minimum of five years. *[62-640.650(4)(a)]*
3. Biosolids quantities shall be monitored by the permittee as specified below. Results shall be reported on the permittee's Discharge Monitoring Report in accordance with Condition I.B.6.

Parameter	Units	Max/Min	Biosolids Limitations		Monitoring Requirements		
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number
Biosolids Quantity (Transferred)	dry tons	Max	Report	Monthly Total	Monthly	Calculated	RMP-1
Biosolids Quantity (Landfilled)	dry tons	Max	Report	Monthly Total	Monthly	Calculated	RMP-1

*[62-640.650(5)(a)1]*

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4. Biosolids quantities shall be calculated as listed in Permit Condition II.3 and as described below:

Monitoring Site Number	Description of Monitoring Site Calculations
RMP-1	Biosolids Sampling

5. The treatment, management, transportation, use, land application, or disposal of biosolids shall not cause a violation of the odor prohibition in subsection 62-296.320(2), F.A.C. [62-640.400(6)]
6. Storage of biosolids or other solids at this facility shall be in accordance with the Facility Biosolids Storage Plan. [62-640.300(4)]
7. Biosolids shall not be spilled from or tracked off the treatment facility site by the hauling vehicle. [62-640.400(9)]
8. Disposal of biosolids, septage, and "other solids" in a solid waste disposal facility, or disposal by placement on land for purposes other than soil conditioning or fertilization, such as at a monofill, surface impoundment, waste pile, or dedicated site, shall be in accordance with Chapter 62-701, F.A.C. [62-640.100(6)(b) & (c)]
9. The permittee shall not be held responsible for treatment and management violations that occur after its biosolids have been accepted by a permitted biosolids treatment facility with which the source facility has an agreement in accordance with subsection 62-640.880(1)(c), F.A.C., for further treatment, management, or disposal. [62-640.880(1)(b)]
10. The permittee shall keep hauling records to track the transport of biosolids between the facilities. The hauling records shall contain the following information:

Source Facility	Biosolids Treatment Facility or Treatment Facility
1. Date and time shipped	1. Date and time received
2. Amount of biosolids shipped	2. Amount of biosolids received
3. Degree of treatment (if applicable)	3. Name and ID number of source facility
4. Name and ID Number of treatment facility	4. Signature of hauler
5. Signature of responsible party at source facility	5. Signature of responsible party at treatment facility
6. Signature of hauler and name of hauling firm	

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A copy of the source facility hauling records for each shipment shall be provided upon delivery of the biosolids to the biosolids treatment facility or treatment facility. The treatment facility permittee shall report to the Department within 24 hours of discovery any discrepancy in the quantity of biosolids leaving the source facility and arriving at the biosolids treatment facility or treatment facility.

*[62-640.880(4)]*

11. If the permittee intends to accept biosolids from other facilities, a permit revision is required pursuant to paragraph 62-640.880(2)(d), F.A.C. *[62-640.880(2)(d)]*

### III. GROUND WATER REQUIREMENTS

1. The permittee shall give at least 72-hours notice to the Department's Northeast District Office, prior to the installation of any monitoring wells. *[62-520.600(6)(h)]*
2. Before construction of new ground water monitoring wells, a soil boring shall be made at each new monitoring well location to properly determine monitoring well specifications such as well depth, screen interval, screen slot, and filter pack. *[62-520.600(6)(g)]*
3. Within 30 days after installation of a monitoring well, the permittee shall submit to the Department's Northeast District Office well completion reports and soil boring/lithologic logs on the attached DEP Form(s) 62-520.900(3), Monitoring Well Completion Report. *[62-520.600(6)(j) and .900(3)]*
4. All piezometers and monitoring wells not part of the approved ground water monitoring plan shall be plugged and abandoned in accordance with Rule 62-532.500(5), F.A.C., unless future use is intended. *[62-532.500(5)]*
5. For the Part IV land application system(s), all ground water quality criteria specified in Chapter 62-520, F.A.C., shall be met at the edge of the zone of discharge. The zone of discharge for Land Application Site R-001 shall extend horizontally 100 feet from the application site and vertically to the base of the surficial aquifer. *[62-520.200(27)] [62-520.465]*
6. The ground water minimum criteria specified in Rule 62-520.400 F.A.C., shall be met within the zone of discharge. *[62-520.400 and 62-520.420(4)]*
7. If the concentration for any constituent listed in Permit Condition III.100. in the natural background quality of the ground water is greater than the stated maximum, or in the case of pH is also less than the minimum, the representative background quality shall be the prevailing standard. *[62-520.420(2)]*
8. During the period of operation authorized by this permit, the permittee shall continue to sample ground water at the monitoring wells identified in Permit Condition III.9., below in accordance with this permit and the approved ground water monitoring plan prepared in accordance with Rule 62-520.600, F.A.C. *[62-520.600] [62-610.510]*
9. The following monitoring well shall be sampled for Land Application System R-001.

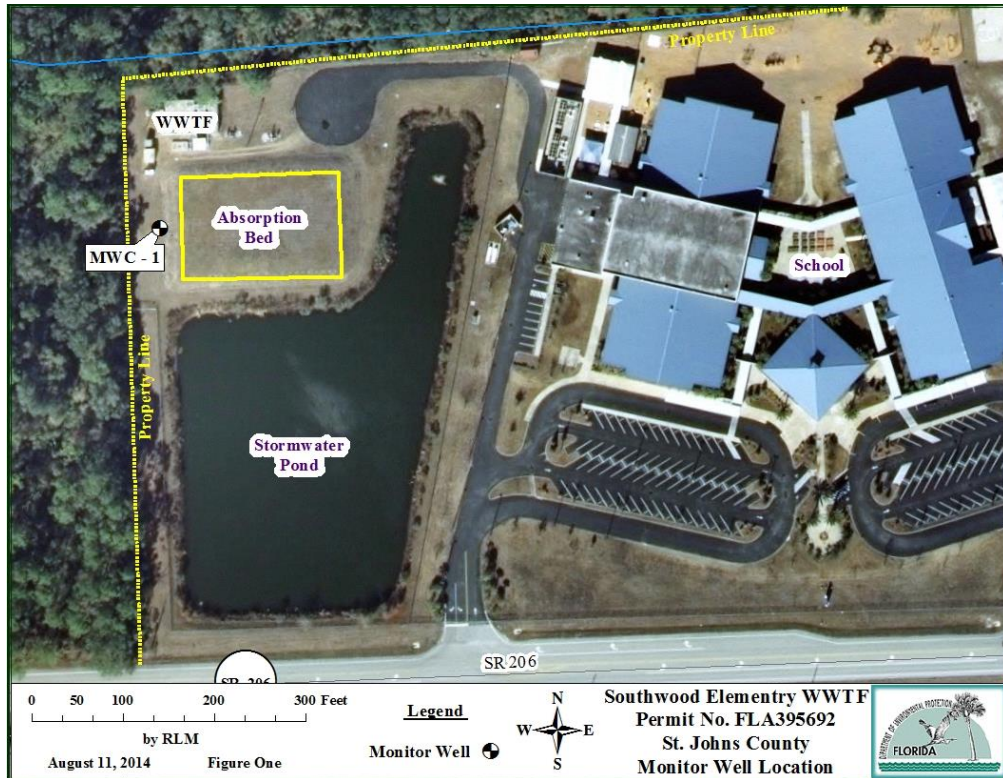
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Monitoring Well ID	Alternate Well Name and/or Description of Monitoring Location	Latitude			Longitude			Depth (Feet)	Aquifer Monitored	New or Existing
		°	'	"	°	'	"			
MWC-1	West side of Absorption Bed System, along west property line.	30	19	40	81	44	20	15	Surficial	Existing

MWC = Compliance

[62-520.600] [62-610.510]



10. The following parameters shall be analyzed for each monitoring well identified in Permit Condition III.9:

Parameter	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Water Level Relative to NGVD	Report	ft	In Situ	Semi-Annually; twice per year
Nitrite plus Nitrate, Total 1 det. (as N)	10	mg/L	Grab	Semi-Annually; twice per year
Solids, Total Dissolved (TDS)	500	mg/L	Grab	Semi-Annually; twice per year
Chloride (as Cl)	250	mg/L	Grab	Semi-Annually; twice per year
Coliform, Fecal	4	#/100mL	Grab	Semi-Annually; twice per year
pH	6.5-8.5	s.u.	In Situ	Semi-Annually; twice per year
Sulfate, Total	250	mg/L	Grab	Semi-Annually; twice per year

[62-520.600(11)(b)] [62-601.300(3), 62-601.700, and Figure 3 of 62-601] [62-601.300(6)] [62-520.310(5)]

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11. Water levels shall be recorded before evacuating each well for sample collection. Elevation references shall include the top of the well casing and land surface at each well site (NAVD allowable) at a precision of plus or minus 0.01 foot. *[62-520.600(11)(c)] [62-610.510(3)(b)]*
12. Ground water monitoring wells shall be purged prior to sampling to obtain representative samples. *[62-160.210] [62-601.700(5)]*
13. Analyses shall be conducted on unfiltered samples, unless filtered samples have been approved by the Department's Northeast District Office as being more representative of ground water conditions. *[62-520.310(5)]*
14. Ground water monitoring test results shall be submitted on Part D of Form 62-620.910(10) in accordance with Permit Condition I.B.6. *[62-520.600(11)(b)] [62-601.300(3), 62.601.700, and Figure 3 of 62-601] [62-620.610(18)]*
15. If any monitoring well becomes inoperable or damaged to the extent that sampling or well integrity may be affected, the permittee shall notify the Department's Northeast District Office within two business days from discovery, and a detailed written report shall follow within ten days after notification to the Department. The written report shall detail what problem has occurred and remedial measures that have been taken to prevent recurrence or request approval for replacement of the monitoring well. All monitoring well design and replacement shall be approved by the Department's Northeast District Office before installation. *[62-520.600(6)(l)]*

#### **IV. ADDITIONAL REUSE AND LAND APPLICATION REQUIREMENTS**

##### **A. Part IV Absorption Field System(s)**

1. Advisory signs shall be posted around the site boundaries to designate the nature of the project area. *[62-610.518]*
2. The permittee may allow public access to the absorption field sites. *[62-610.518]*
3. The absorption field shall be operated to preclude saturated conditions from developing at the ground surface. *[62-610.500(2)]*
4. The maximum annual average loading rate to the Consists of an above ground absorption field, which is divided into two operation zones. shall be limited to 0.59 inches per day (as applied to the entire bottom area of the absorption field trenches or spreading areas). *[62-610.523(3)]*
5. The above ground absorption field, which is divided into two operation zones, normally shall be loaded for 7 days and shall be rested for 7 days. Absorption fields shall be allowed to dry during the resting portion of the cycle. *[62-610.523(4)]*
6. Routine aquatic weed control and regular maintenance of storage pond embankments and access areas are required. *[62-610.414 and 62-610.514]*

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7. Overflows from absorption fields or from emergency discharge facilities on storage ponds shall be reported as abnormal events in accordance with Permit Condition IX.20. [62-610.800(9)]

## **V. OPERATION AND MAINTENANCE REQUIREMENTS**

### **A. Staffing Requirements**

1. During the period of operation authorized by this permit, the wastewater facilities shall be operated under the supervision of a(n) operator(s) certified in accordance with Chapter 62-602, F.A.C. In accordance with Chapter 62-699, F.A.C., this facility is a Category II, Class C facility and, at a minimum, operators with appropriate certification must be on the site as follows:

A Class C or higher operator 1/2 hour/day for 5 days/week and one visit each weekend. The lead/chief operator must be a Class C operator, or higher.

2. An operator meeting the lead/chief operator class for the plant shall be available during all periods of plant operation. "Available" means able to be contacted as needed to initiate the appropriate action in a timely manner. [62-699.311(1)]

### **B. Capacity Analysis Report and Operation and Maintenance Performance Report Requirements**

1. The application to renew this permit shall include an updated capacity analysis report prepared in accordance with Rule 62-600.405, F.A.C. [62-600.405(5)]
2. The application to renew this permit shall include a detailed operation and maintenance performance report prepared in accordance with Rule 62-600.735, F.A.C. [62-600.735(1)]

### **C. Recordkeeping Requirements**

1. The permittee shall maintain the following records and make them available for inspection on the site of the permitted facility.
  - a. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, including, if applicable, a copy of the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;
  - b. Copies of all reports required by the permit for at least three years from the date the report was prepared;
  - c. Records of all data, including reports and documents, used to complete the application for the permit for at least three years from the date the application was filed;
  - d. Monitoring information, including a copy of the laboratory certification showing the laboratory certification number, related to the residuals use and disposal activities for the time period set forth in Chapter 62-640, F.A.C., for at least three years from the date of sampling or measurement;

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- e. A copy of the current permit;
- f. A copy of the current operation and maintenance manual as required by Chapter 62-600, F.A.C.;
- g. A copy of any required record drawings;
- h. Copies of the licenses of the current certified operators;
- i. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date of the logs or schedules. The logs shall, at a minimum, include identification of the plant; the signature and license number of the operator(s) and the signature of the person(s) making any entries; date and time in and out; specific operation and maintenance activities, including any preventive maintenance or repairs made or requested; results of tests performed and samples taken, unless documented on a laboratory sheet; and notation of any notification or reporting completed in accordance with Rule 62-602.650(3), F.A.C. The logs shall be maintained on-site in a location accessible to 24-hour inspection, protected from weather damage, and current to the last operation and maintenance performed; and
- j. Records of biosolids quantities, treatment, monitoring, and hauling for at least five years.

*[62-620.350, 62-602.650, 62-640.650(4)]*

## **VI. SCHEDULES**

- 1. The permittee is not authorized to discharge to waters of the state after the expiration date of this permit, unless:
  - a. The permittee has applied for renewal of this permit at least 180 days before the expiration date of this permit using the appropriate forms listed in Rule 62-620.910, F.A.C., and in the manner established in the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C.; or
  - b. The permittee has made complete the application for renewal of this permit before the permit expiration date.

*[62-620.335(1) - (4)]*

## **VII. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS**

- 1. This facility is not required to have a pretreatment program at this time. *[62-625.500]*

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### VIII. OTHER SPECIFIC CONDITIONS

1. In the event that the treatment facilities or equipment no longer function as intended, are no longer safe in terms of public health and safety, or odor, noise, aerosol drift, or lighting adversely affects neighboring developed areas at the levels prohibited by Rule 62-600.400(2)(a), F.A.C., corrective action (which may include additional maintenance or modifications of the permitted facilities) shall be taken by the permittee. Other corrective action may be required to ensure compliance with rules of the Department. Additionally, the treatment, management, use or land application of residuals shall not cause a violation of the odor prohibition in Rule 62-296.320(2), F.A.C. *[62-600.410(8) and 62-640.400(6)]*
2. The deliberate introduction of stormwater in any amount into collection/transmission systems designed solely for the introduction (and conveyance) of domestic/industrial wastewater; or the deliberate introduction of stormwater into collection/transmission systems designed for the introduction or conveyance of combinations of storm and domestic/industrial wastewater in amounts which may reduce the efficiency of pollutant removal by the treatment plant is prohibited, except as provided by Rule 62-610.472, F.A.C. *[62-604.130(3)]*
3. Collection/transmission system overflows shall be reported to the Department in accordance with Permit Condition IX. 20. *[62-604.550] [62-620.610(20)]*
4. The operating authority of a collection/transmission system and the permittee of a treatment plant are prohibited from accepting connections of wastewater discharges which have not received necessary pretreatment or which contain materials or pollutants (other than normal domestic wastewater constituents):
  - a. Which may cause fire or explosion hazards; or
  - b. Which may cause excessive corrosion or other deterioration of wastewater facilities due to chemical action or pH levels; or
  - c. Which are solid or viscous and obstruct flow or otherwise interfere with wastewater facility operations or treatment; or
  - d. Which result in the wastewater temperature at the introduction of the treatment plant exceeding 40<sup>0</sup>C or otherwise inhibiting treatment; or
  - e. Which result in the presence of toxic gases, vapors, or fumes that may cause worker health and safety problems.

*[62-604.130(5)]*
5. The treatment facility, storage ponds for Part II systems, rapid infiltration basins, and/or infiltration trenches shall be enclosed with a fence or otherwise provided with features to discourage the entry of animals and unauthorized persons. *[62-610.518(1) and 62-600.400(2)(b)]*



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6. Screenings and grit removed from the wastewater facilities shall be collected in suitable containers and hauled to a Department approved Class I landfill or to a landfill approved by the Department for receipt/disposal of screenings and grit. *[62-701.300(1)(a)]*
7. Where required by Chapter 471 or Chapter 492, F.S., applicable portions of reports that must be submitted under this permit shall be signed and sealed by a professional engineer or a professional geologist, as appropriate. *[62-620.310(4)]*
8. The permittee shall provide verbal notice to the Department's Northeast District Office as soon as practical after discovery of a sinkhole or other karst feature within an area for the management or application of wastewater, wastewater residuals (sludges), or reclaimed water. The permittee shall immediately implement measures appropriate to control the entry of contaminants, and shall detail these measures to the Department's Northeast District Office in a written report within 7 days of the sinkhole discovery. *[62-620.320(6)]*
9. The permittee shall provide notice to the Department of the following:
  - a. Any new introduction of pollutants into the facility from an industrial discharger which would be subject to Chapter 403, F.S., and the requirements of Chapter 62-620, F.A.C., if it were directly discharging those pollutants; and
  - b. Any substantial change in the volume or character of pollutants being introduced into that facility by a source which was identified in the permit application and known to be discharging at the time the permit was issued.

Notice shall include information on the quality and quantity of effluent introduced into the facility and any anticipated impact of the change on the quantity or quality of effluent or reclaimed water to be discharged from the facility.

*[62-620.625(2)]*

## **IX. GENERAL CONDITIONS**

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are binding and enforceable pursuant to Chapter 403, Florida Statutes. Any permit noncompliance constitutes a violation of Chapter 403, Florida Statutes, and is grounds for enforcement action, permit termination, permit revocation and reissuance, or permit revision. *[62-620.610(1)]*
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviations from the approved drawings, exhibits, specifications, or conditions of this permit constitutes grounds for revocation and enforcement action by the Department. *[62-620.610(2)]*
3. As provided in subsection 403.087(7), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor authorize any infringement of federal, state, or local laws or regulations. This permit is not a

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waiver of or approval of any other Department permit or authorization that may be required for other aspects of the total project which are not addressed in this permit. *[62-620.610(3)]*

4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title. *[62-620.610(4)]*
5. This permit does not relieve the permittee from liability and penalties for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted source; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. The permittee shall take all reasonable steps to minimize or prevent any discharge, reuse of reclaimed water, or residuals use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. *[62-620.610(5)]*
6. If the permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee shall apply for and obtain a new permit. *[62-620.610(6)]*
7. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control, and related appurtenances, that are installed and used by the permittee to achieve compliance with the conditions of this permit. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to maintain or achieve compliance with the conditions of the permit. *[62-620.610(7)]*
8. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. *[62-620.610(8)]*
9. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, including an authorized representative of the Department and authorized EPA personnel, when applicable, upon presentation of credentials or other documents as may be required by law, and at reasonable times, depending upon the nature of the concern being investigated, to:
  - a. Enter upon the permittee's premises where a regulated facility, system, or activity is located or conducted, or where records shall be kept under the conditions of this permit;
  - b. Have access to and copy any records that shall be kept under the conditions of this permit;

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- c. Inspect the facilities, equipment, practices, or operations regulated or required under this permit; and
- d. Sample or monitor any substances or parameters at any location necessary to assure compliance with this permit or Department rules.

*[62-620.610(9)]*

- 10. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data, and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except as such use is proscribed by Section 403.111, F.S., or Rule 62-620.302, F.A.C. Such evidence shall only be used to the extent that it is consistent with the Florida Rules of Civil Procedure and applicable evidentiary rules. *[62-620.610(10)]*
- 11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. *[62-620.610(11)]*
- 12. Unless specifically stated otherwise in Department rules, the permittee, in accepting this permit, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard. *[62-620.610(12)]*
- 13. The permittee, in accepting this permit, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-4.052, F.A.C. *[62-620.610(13)]*
- 14. This permit is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department. *[62-620.610(14)]*
- 15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility or activity and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. *[62-620.610(15)]*

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16. The permittee shall apply for a revision to the Department permit in accordance with Rules 62-620.300, F.A.C., and the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.325(2), F.A.C., for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins except as provided in Rule 62-620.300, F.A.C. *[62-620.610(16)]*
17. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The permittee shall be responsible for any and all damages which may result from the changes and may be subject to enforcement action by the Department for penalties or revocation of this permit. The notice shall include the following information:
- a. A description of the anticipated noncompliance;
  - b. The period of the anticipated noncompliance, including dates and times; and
  - c. Steps being taken to prevent future occurrence of the noncompliance.
- [62-620.610(17)]*
18. Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246 and Chapters 62-160, 62-601, and 62-610, F.A.C., and 40 CFR 136, as appropriate.
- a. Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10), or as specified elsewhere in the permit.
  - b. If the permittee monitors any contaminant more frequently than required by the permit, using Department approved test procedures, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
  - c. Calculations for all limitations which require averaging of measurements shall use an arithmetic mean unless otherwise specified in this permit.
  - d. Except as specifically provided in Rule 62-160.300, F.A.C., any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health Environmental Laboratory Certification Program (DOH ELCP). Such certification shall be for the matrix, test method and analyte(s) being measured to comply with this permit. For domestic wastewater facilities, testing for parameters listed in Rule 62-160.300(4), F.A.C., shall be conducted under the direction of a certified operator.
  - e. Field activities including on-site tests and sample collection shall follow the applicable standard operating procedures described in DEP-SOP-001/01 adopted by reference in Chapter 62-160, F.A.C.

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- f. Alternate field procedures and laboratory methods may be used where they have been approved in accordance with Rules 62-160.220, and 62-160.330, F.A.C.

*[62-620.610(18)]*

19. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule detailed elsewhere in this permit shall be submitted no later than 14 days following each schedule date.

*[62-620.610(19)]*

20. The permittee shall report to the Department's Northeast District Office any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

- a. The following shall be included as information which must be reported within 24 hours under this condition:

- (1) Any unanticipated bypass which causes any reclaimed water or effluent to exceed any permit limitation or results in an unpermitted discharge,
- (2) Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
- (3) Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
- (4) Any unauthorized discharge to surface or ground waters.

- b. Oral reports as required by this subsection shall be provided as follows:

- (1) For unauthorized releases or spills of treated or untreated wastewater reported pursuant to subparagraph (a)4. that are in excess of 1,000 gallons per incident, or where information indicates that public health or the environment will be endangered, oral reports shall be provided to the STATE WARNING POINT TOLL FREE NUMBER (800) 320-0519, as soon as practical, but no later than 24 hours from the time the permittee becomes aware of the discharge. The permittee, to the extent known, shall provide the following information to the State Warning Point:
  - (a) Name, address, and telephone number of person reporting;
  - (b) Name, address, and telephone number of permittee or responsible person for the discharge;
  - (c) Date and time of the discharge and status of discharge (ongoing or ceased);
  - (d) Characteristics of the wastewater spilled or released (untreated or treated, industrial or domestic wastewater);
  - (e) Estimated amount of the discharge;
  - (f) Location or address of the discharge;
  - (g) Source and cause of the discharge;
  - (h) Whether the discharge was contained on-site, and cleanup actions taken to date;

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- (i) Description of area affected by the discharge, including name of water body affected, if any; and
  - (j) Other persons or agencies contacted.
- (2) Oral reports, not otherwise required to be provided pursuant to subparagraph b.1 above, shall be provided to the Department's Northeast District Office within 24 hours from the time the permittee becomes aware of the circumstances.
- c. If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the environment, the Department's Northeast District Office shall waive the written report.

*[62-620.610(20)]*

21. The permittee shall report all instances of noncompliance not reported under Permit Conditions IX.17., IX.18., or IX.19. of this permit at the time monitoring reports are submitted. This report shall contain the same information required by Permit Condition IX.20. of this permit. *[62-620.610(21)]*

22. Bypass Provisions.

- a. "Bypass" means the intentional diversion of waste streams from any portion of a treatment works.
- b. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless the permittee affirmatively demonstrates that:
  - (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and
  - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
  - (3) The permittee submitted notices as required under Permit Condition IX.22.c. of this permit.
- c. If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Department, if possible at least 10 days before the date of the bypass. The permittee shall submit notice of an unanticipated bypass within 24 hours of learning about the bypass as required in Permit Condition IX.20. of this permit. A notice shall include a description of the bypass and its cause; the period of the bypass, including exact dates and times; if the bypass has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the bypass.
- d. The Department shall approve an anticipated bypass, after considering its adverse effect, if the permittee demonstrates that it will meet the three conditions listed in Permit Condition IX.22.b.(1) through (3) of this permit.

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- e. A permittee may allow any bypass to occur which does not cause reclaimed water or effluent limitations to be exceeded if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Permit Condition IX.22.b. through d. of this permit.

*[62-620.610(22)]*

23. Upset Provisions.

- a. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based effluent limitations because of factors beyond the reasonable control of the permittee.
  - (1) An upset does not include noncompliance caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, careless or improper operation.
  - (2) An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of upset provisions of Rule 62-620.610, F.A.C., are met.
- b. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:
  - (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
  - (2) The permitted facility was at the time being properly operated;
  - (3) The permittee submitted notice of the upset as required in Permit Condition IX.20. of this permit; and
  - (4) The permittee complied with any remedial measures required under Permit Condition IX.5. of this permit.
- c. In any enforcement proceeding, the burden of proof for establishing the occurrence of an upset rests with the permittee.
- d. Before an enforcement proceeding is instituted, no representation made during the Department review of a claim that noncompliance was caused by an upset is final agency action subject to judicial review.

*[62-620.610(23)]*

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Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL  
PROTECTION



Jeff Martin, P.E.  
Wastewater Permitting Chief

PERMIT ISSUANCE DATE:  
August 13, 2014

JM/lb

Attachment



**STATEMENT OF BASIS  
FOR  
STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT**

PERMIT NUMBER: FLA395692-005

FACILITY NAME: Southwood Elementary WWTF

FACILITY LOCATION: S.R. 206, Hastings, FL 32145  
St. Johns County

NAME OF PERMITTEE: St. Johns County School District

PERMIT WRITER: Joseph Emery, P.E.

1. SUMMARY OF APPLICATION

a. Chronology of Application

Application Number: FLA395692-005-DW4P

Application Submittal Date: July 17, 2014

b. Type of Facility

Domestic Wastewater Treatment Plant

Ownership Type: County

SIC Code: 4952

c. Facility Capacity

Existing Permitted Capacity: 0.008 mgd Annual Average Daily Flow

Proposed Increase in Permitted Capacity: 0.00 mgd Annual Average Daily Flow

Proposed Total Permitted Capacity: 0.008 mgd Annual Average Daily Flow

d. Description of Wastewater Treatment

An existing 0.008 MGD annual average daily flow (AADF) permitted capacity WWTF with Modified Ludzack-Ettinger activated sludge process consisting of a 6-foot diameter influent pump station with dual 150-GPM pumps, a static screen with 0.10 inch slots, two 7,000-gallon flow equalization tanks, a splitter box, two 7,000-gallon anoxic tanks, four 7,000-gallon aeration tanks, two 86.5-ft<sup>2</sup> surface area secondary clarifiers, two 7-ft<sup>2</sup> surface area US filters with anthracite and sand media, two 775-gallon chlorine contact chambers, two 40-GPD hypochlorite pumps (one backup), a 30-gallon hypochlorite holding tank, two 5-GPD polymer pumps (one backup), a 30-gallon polymer solution holding tank, a weir box with a 22 ½ degree; V-notch weir, a 8 inch diameter reclaimed water pump station with dual 310-GPM pumps, two 6,700-gallon sludge holding tanks, and a 50-Kw onsite emergency electric

generator. Effluent will be high-level disinfection and discharged to an onsite absorption field. Wastewater residuals are hauled to Rainbow Ranch RMF for treatment and final disposal.

e. Description of Effluent Disposal and Land Application Sites (as reported by applicant)

See attached map(s) for effluent disposal and land application site(s).

2. SUMMARY OF SURFACE WATER DISCHARGE

This facility does not discharge to surface waters.

3. BASIS FOR PERMIT LIMITATIONS AND MONITORING REQUIREMENTS

This facility is authorized to direct reclaimed water to Reuse System R-001, an absorption field system, based on the following:

Parameter	Units	Max/Min	Limit	Statistical Basis	Rationale
Flow	MGD	Max	0.008	Annual Average	62-600.400(3)(b) & 62-610.810(5) FAC
		Max	Report	Monthly Average	62-600.400(3)(b) & 62-610.810(5) FAC
		Max	Report	3-Month Rolling Average	62-600.400(3)(b) & 62-610.810(5) FAC
Percent Capacity, (TMADF/Permitted Capacity) x 100	percent	Max	Report	Monthly Total	62-600.400(3)(b) FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	20.0	Annual Average	62-610.510 & 62-600.740(1)(b)1.a. FAC
		Max	30.0	Monthly Average	62-600.740(1)(b)1.b. FAC
		Max	45.0	Weekly Average	62-600.740(1)(b)1.c. FAC
		Max	60.0	Single Sample	62-600.740(1)(b)1.d. FAC
Solids, Total Suspended	mg/L	Max	10.0	Single Sample	62-610.510(2) FAC
Coliform, Fecal	#/100mL	Max	200	Monthly Geometric Mean	62-600.440(4)(c)2. FAC
		Max	200	Annual Average	62-610.510 & 62-600.440(4)(c)1. FAC
		Max	800	Single Sample	62-600.440(4)(c)4. FAC
pH	s.u.	Min	6.0	Single Sample	62-600.445 FAC
		Max	8.5	Single Sample	62-600.445 FAC
Chlorine, Total Residual (For Disinfection)	mg/L	Min	0.5	Single Sample	62-610.510 & 62-600.440(4)(b) FAC
Nitrogen, Nitrate, Total (as N)	mg/L	Max	12.0	Single Sample	62-610.510(1) FAC
Solids, Total Dissolved (TDS)	mg/L	Max	Report	Single Sample	62-610.510(1) FAC

Other Limitations and Monitoring Requirements:

Parameter	Units	Max/Min	Limit	Statistical Basis	Rationale
BOD, Carbonaceous 5 day, 20C (Influent)	mg/L	Max	Report	Single Sample	62-601.300(1) FAC
Solids, Total Suspended (Influent)	mg/L	Max	Report	Single Sample	62-601.300(1) FAC
Monitoring Frequencies and Sample Types	-	-	-	All Parameters	62-601 FAC & 62-699 FAC and/or BPJ of permit writer
Sampling Locations	-	-	-	All Parameters	62-601, 62-610.412, 62-610.463(1), 62-610.568, 62-610.613 FAC and/or BPJ of permit writer

#### 4. DISCUSSION OF CHANGES TO PERMIT LIMITATIONS

The current wastewater permit for this facility FLA395692-005-DW4P expires on January 20, 2015.

Due to the elevated Total Dissolved Solids (TDS) levels in the compliance well MWC-1, TDS was added to the list of parameters to be monitored on a semi-annual basis from the effluent (R-001) as report only.

#### 5. BIOSOLIDS MANAGEMENT REQUIREMENTS

Biosolids generated by this facility may be transferred to Rainbow Ranch or disposed of in a Class I solid waste landfill.

See the table below for the rationale for the biosolids quantities monitoring requirements.

Parameter	Units	Max/Min	Limit	Statistical Basis	Rationale
Biosolids Quantity (Transferred)	dry tons	Max	Report	Monthly Total	62-640.650(5)(a)1. FAC
Biosolids Quantity (Landfilled)	dry tons	Max	Report	Monthly Total	62-640.650(5)(a)1. FAC
Monitoring Frequency				All Parameters	62-640.650(5)(a) FAC

#### 6. GROUND WATER MONITORING REQUIREMENTS

Ground water monitoring requirements have been established in accordance with Chapters 62-520, 532, 601, 610, and 620, F.A.C.

#### 7. PERMIT SCHEDULES

A schedule is not included in the wastewater permit.

8. INDUSTRIAL PRETREATMENT REQUIREMENTS

At this time, the facility is not required to develop an approved industrial pretreatment program. However, the Department reserves the right to require an approved program if future conditions warrant.

9. ADMINISTRATIVE ORDERS (AO) AND CONSENT ORDERS (CO)

This permit is not accompanied by an AO and has not entered into a CO with the Department.

10. REQUESTED VARIANCES OR ALTERNATIVES TO REQUIRED STANDARDS

No variances were requested for this facility.

11. THE ADMINISTRATIVE RECORD

The administrative record including application, draft permit, fact sheet, public notice (after release), comments received and additional information is available for public inspection during normal business hours at the location specified in item 13. Copies will be provided at a minimal charge per page.

12. PROPOSED SCHEDULE FOR PERMIT ISSUANCE

Notice of Permit Issuance: August 13, 2014

13. DEP CONTACT

Additional information concerning the permit and proposed schedule for permit issuance may be obtained during normal business hours from:

Joseph Emery, P.E.  
Professional Engineer I  
Northeast District Office  
8800 Baymeadows Way West Suite 100  
Jacksonville, FL 32256  
Telephone No.: (904) 256-1619

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

**When Completed mail this report to:** Department of Environmental Protection, 8800 Baymeadows Way West, Suite 100, Jacksonville, FL 32256

PERMITTEE NAME: St. Johns County School District  
 MAILING ADDRESS: 40 Orange Street  
 Saint Augustine, Florida 32084-

PERMIT NUMBER: FLA395692-005-DW4P

FACILITY: Southwood Elementary WWTF  
 LOCATION: S.R. 206  
 Hastings, FL 32145-

LIMIT: Final  
 CLASS SIZE: N/A  
 MONITORING GROUP NUMBER: R-001  
 MONITORING GROUP DESCRIPTION: Absorption Field, with Influent

REPORT FREQUENCY: Monthly  
 PROGRAM: Domestic

COUNTY: St. Johns  
 OFFICE: Northeast District

RE-SUBMITTED DMR:   
 NO DISCHARGE FROM SITE:   
 MONITORING PERIOD From: \_\_\_\_\_ To: \_\_\_\_\_

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 Y Mon. Site No. EFA-1	Permit Requirement		0.008 (An.Avg.)	MGD						5 Days/Week	Meter
Flow	Sample Measurement										
PARM Code 50050 A Mon. Site No. EFA-1	Permit Requirement	Report (Mo.Avg.)	Report (3Mo.Avg.)	MGD						5 Days/Week	Meter
Percent Capacity, (TMADF/Permitted Capacity) x 100	Sample Measurement										
PARM Code 00180 P Mon. Site No. CAL-1	Permit Requirement					Report (Mo.Total)	percent			Monthly	Calculated
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 Y Mon. Site No. EFA-1	Permit Requirement					20.0 (An.Avg.)	mg/L			Monthly	Grab
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 A Mon. Site No. EFA-1	Permit Requirement				60.0 (Max.)	45.0 (Wk.Avg.)	30.0 (Mo.Avg.)	mg/L		Monthly	Grab
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 A Mon. Site No. EFA-1	Permit Requirement						10.0 (Max.)	mg/L		Monthly	Grab

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

**DISCHARGE MONITORING REPORT - PART A (Continued)**

FACILITY: Southwood Elementary WWTF

MONITORING GROUP NUMBER: R-001

PERMIT NUMBER: FLA395692-005-DW4P

MONITORING PERIOD From: \_\_\_\_\_ To: \_\_\_\_\_

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Coliform, Fecal	Sample Measurement									
PARM Code 74055 Y Mon. Site No. EFA-1	Permit Requirement				200 (An.Avg.)		#/100mL		Monthly	Grab
Coliform, Fecal	Sample Measurement									
PARM Code 74055 A Mon. Site No. EFA-1	Permit Requirement				200 (Mo.Geo.Mn.)	800 (Max.)	#/100mL		Monthly	Grab
pH	Sample Measurement									
PARM Code 00400 A Mon. Site No. EFA-1	Permit Requirement				6.0 (Min.)	8.5 (Max.)	s.u.		5 Days/Week	Grab
Chlorine, Total Residual (For Disinfection)	Sample Measurement									
PARM Code 50060 A Mon. Site No. EFA-1	Permit Requirement				0.5 (Min.)		mg/L		5 Days/Week	Grab
Nitrogen, Nitrate, Total (as N)	Sample Measurement									
PARM Code 00620 A Mon. Site No. EFA-1	Permit Requirement					12.0 (Max.)	mg/L		Monthly	Grab
BOD, Carbonaceous 5 day, 20C (Influent)	Sample Measurement									
PARM Code 80082 G Mon. Site No. INF-1	Permit Requirement					Report (Max.)	mg/L		Monthly	Grab
Solids, Total Suspended (Influent)	Sample Measurement									
PARM Code 00530 G Mon. Site No. INF-1	Permit Requirement					Report (Max.)	mg/L		Monthly	Grab

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

**When Completed mail this report to:** Department of Environmental Protection, 8800 Baymeadows Way West, Suite 100, Jacksonville, FL 32256

PERMITTEE NAME: St. Johns County School District  
 MAILING ADDRESS: 40 Orange Street  
 Saint Augustine, Florida 32084-

PERMIT NUMBER: FLA395692-005-DW4P

FACILITY: Southwood Elementary WWTF  
 LOCATION: S.R. 206  
 Hastings, FL 32145-

LIMIT: Final  
 CLASS SIZE: N/A  
 MONITORING GROUP NUMBER: R-001  
 MONITORING GROUP DESCRIPTION: Absorption Field

REPORT FREQUENCY: Semi-annually  
 PROGRAM: Domestic

COUNTY: St. Johns  
 OFFICE: Northeast District

RE-SUBMITTED DMR:   
 NO DISCHARGE FROM SITE:   
 MONITORING PERIOD From: \_\_\_\_\_ To: \_\_\_\_\_

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Dissolved (TDS)	Sample Measurement										
PARM Code 70295 A Mon. Site No. EFA-1	Permit Requirement					Report (Max.)	mg/L			Semi-Annually; twice per year	Grab

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

**DEPARTMENT OF ENVIRONMENTAL PROTECTION ACTION DISCHARGE MONITORING REPORT - PART A**

**When Completed mail this report to:** Department of Environmental Protection, 8800 Baymeadows Way West, Suite 100, Jacksonville, FL 32256

PERMITTEE NAME: St. Johns County School District  
 MAILING ADDRESS: 40 Orange Street  
 Saint Augustine, Florida 32084-

PERMIT NUMBER: FLA395692-005-DW4P

LIMIT: Final  
 CLASS SIZE: N/A  
 MONITORING GROUP NUMBER: RMP-Q  
 MONITORING GROUP DESCRIPTION: Biosolids Quantity

REPORT FREQUENCY: Monthly  
 PROGRAM: Domestic

FACILITY: Southwood Elementary WWTF  
 LOCATION: S.R. 206  
 Hastings, FL 32145-

COUNTY: St. Johns  
 OFFICE: Northeast District

RE-SUBMITTED DMR:   
 NO DISCHARGE FROM SITE:   
 MONITORING PERIOD From: \_\_\_\_\_ To: \_\_\_\_\_

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Biosolids Quantity (Transferred)	Sample Measurement										
PARM Code B0007 + Mon. Site No. RMP-1	Permit Requirement		Report (Mo.Total)	dry tons						Monthly	Calculated
Biosolids Quantity (Landfilled)	Sample Measurement										
PARM Code B0008 + Mon. Site No. RMP-1	Permit Requirement		Report (Mo.Total)	dry tons						Monthly	Calculated

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):



**DAILY SAMPLE RESULTS - PART B**

Permit Number:  
Monitoring Period

FLA395692-005-DW4P  
From: \_\_\_\_\_ To: \_\_\_\_\_

Facility: Southwood Elementary WWTF

	BOD, Carbonaceous 5 day, 20C mg/L	Chlorine, Total Residual (For Disinfection) mg/L	Coliform, Fecal #/100mL	Flow MGD	Nitrogen, Nitrate, Total (as N) mg/L	Solids, Total Suspended mg/L	pH s.u.	BOD, Carbonaceous 5 day, 20C (Influent) mg/L	Solids, Total Suspended (Influent) mg/L		
Code	80082	50060	74055	50050	00620	00530	00400	80082	00530		
Mon. Site	EFA-1	EFA-1	EFA-1	EFA-1	EFA-1	EFA-1	EFA-1	INF-1	INF-1		
1											
2											
3											
4											
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28											
29											
30											
31											
Total											
Mo. Avg.											

PLANT STAFFING:

Day Shift Operator      Class: \_\_\_\_\_ Certificate No: \_\_\_\_\_ Name: \_\_\_\_\_

Evening Shift Operator      Class: \_\_\_\_\_ Certificate No: \_\_\_\_\_ Name: \_\_\_\_\_

Night Shift Operator      Class: \_\_\_\_\_ Certificate No: \_\_\_\_\_ Name: \_\_\_\_\_

Lead Operator      Class: \_\_\_\_\_ Certificate No: \_\_\_\_\_ Name: \_\_\_\_\_

# GROUNDWATER MONITORING REPORT - PART D

Facility Name: Southwood Elementary WWTF  
 Permit Number: FLA395692-005-DW4P  
 County: St. Johns

Monitoring Well ID: MWC-1  
 Well Type: Compliance  
 Description: West side of Absorption Bed System.

Report Frequency: Semi-annually  
 Program: Domestic

Office: Northeast District

Re-submitted DMR:

Monitoring Period From: \_\_\_\_\_ To: \_\_\_\_\_

Date Sample Obtained: \_\_\_\_\_

Time Sample Obtained: \_\_\_\_\_

Was the well purged before sampling? \_\_\_ Yes \_\_\_ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Semi-annually				
Nitrite plus Nitrate, Total 1 det. (as N)	00630		10	mg/L	Grab	Semi-annually				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Semi-annually				
Chloride (as Cl)	00940		250	mg/L	Grab	Semi-annually				
Coliform, Fecal	74055		4	#/100mL	Grab	Semi-annually				
pH	00400		6.5-8.5	s.u.	In Situ	Semi-annually				
Sulfate, Total	00945		250	mg/L	Grab	Semi-annually				

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

## INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT

Read these instructions before completing the DMR. Hard copies and/or electronic copies of the required parts of the DMR were provided with the permit. All required information shall be completed in full and typed or printed in ink. A signed, original DMR shall be mailed to the address printed on the DMR by the 28<sup>th</sup> of the month following the monitoring period. Facilities who submit their DMR(s) electronically through eDMR do not need to submit a hardcopy DMR. The DMR shall not be submitted before the end of the monitoring period.

The DMR consists of three parts--A, B, and D--all of which may or may not be applicable to every facility. Facilities may have one or more Part A's for reporting effluent or reclaimed water data. All domestic wastewater facilities will have a Part B for reporting daily sample results. Part D is used for reporting ground water monitoring well data.

When results are not available, the following codes should be used on parts A and D of the DMR and an explanation provided where appropriate. Note: Codes used on Part B for raw data are different.

CODE	DESCRIPTION/INSTRUCTIONS
ANC	Analysis not conducted.
DRY	Dry Well
FLD	Flood disaster.
IFS	Insufficient flow for sampling.
LS	Lost sample.
MNR	Monitoring not required this period.

CODE	DESCRIPTION/INSTRUCTIONS
NOD	No discharge from/to site.
OPS	Operations were shutdown so no sample could be taken.
OTH	Other. Please enter an explanation of why monitoring data were not available.
SEF	Sampling equipment failure.

When reporting analytical results that fall below a laboratory's reported method detection limits or practical quantification limits, the following instructions should be used, unless indicated otherwise in the permit or on the DMR:

1. Results greater than or equal to the PQL shall be reported as the measured quantity.
2. Results less than the PQL and greater than or equal to the MDL shall be reported as the laboratory's MDL value. These values shall be deemed equal to the MDL when necessary to calculate an average for that parameter and when determining compliance with permit limits.
3. Results less than the MDL shall be reported by entering a less than sign (" $<$ ") followed by the laboratory's MDL value, e.g.  $<0.001$ . A value of one-half the MDL or one-half the effluent limit, whichever is lower, shall be used for that sample when necessary to calculate an average for that parameter. Values less than the MDL are considered to demonstrate compliance with an effluent limitation.

### PART A -DISCHARGE MONITORING REPORT (DMR)

Part A of the DMR is comprised of one or more sections, each having its own header information. Facility information is preprinted in the header as well as the monitoring group number, whether the limits and monitoring requirements are interim or final, and the required submittal frequency (e.g. monthly, annually, quarterly, etc.). Submit Part A based on the required reporting frequency in the header and the instructions shown in the permit. The following should be completed by the permittee or authorized representative:

**Resubmitted DMR:** Check this box if this DMR is being re-submitted because there was information missing from or information that needed correction on a previously submitted DMR. The information that is being revised should be clearly noted on the re-submitted DMR (e.g. highlight, circle, etc.)

**No Discharge From Site:** Check this box if no discharge occurs and, as a result, there are no data or codes to be entered for all of the parameters on the DMR for the entire monitoring group number; however, if the monitoring group includes other monitoring locations (e.g., influent sampling), the "NOD" code should be used to individually denote those parameters for which there was no discharge.

**Monitoring Period:** Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

**Sample Measurement:** Before filling in sample measurements in the table, check to see that the data collected correspond to the limit indicated on the DMR (i.e. interim or final) and that the data correspond to the monitoring group number in the header. Enter the data or calculated results for each parameter on this row in the non-shaded area above the limit. Be sure the result being entered corresponds to the appropriate statistical base code (e.g. annual average, monthly average, single sample maximum, etc.) and units. Data qualifier codes are not to be reported on Part A.

**No. Ex.:** Enter the number of sample measurements during the monitoring period that exceeded the permit limit for each parameter in the non-shaded area. If none, enter zero.

**Frequency of Analysis:** The shaded areas in this column contain the minimum number of times the measurement is required to be made according to the permit. Enter the actual number of times the measurement was made in the space above the shaded area.

**Sample Type:** The shaded areas in this column contain the type of sample (e.g. grab, composite, continuous) required by the permit. Enter the actual sample type that was taken in the space above the shaded area.

**Signature:** This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

**Comment and Explanation of Any Violations:** Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation. If more space is needed, reference all attachments in this area.

**PART B - DAILY SAMPLE RESULTS**

## Attachment B

**Monitoring Period:** Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

**Daily Monitoring Results:** Transfer all analytical data from your facility's laboratory or a contract laboratory's data sheets for all day(s) that samples were collected. Record the data in the units indicated. Table 1 in Chapter 62-160, F.A.C., contains a complete list of all the data qualifier codes that your laboratory may use when reporting analytical results. However, when transferring numerical results onto Part B of the DMR, only the following data qualifier codes should be used and an explanation provided where appropriate.

CODE	DESCRIPTION/INSTRUCTIONS
<	The compound was analyzed for but not detected.
A	Value reported is the mean (average) of two or more determinations.
J	Estimated value, value not accurate.
Q	Sample held beyond the actual holding time.
Y	Laboratory analysis was from an unpreserved or improperly preserved sample.

To calculate the monthly average, add each reported value to get a total. For flow, divide this total by the number of days in the month. For all other parameters, divide the total by the number of observations.

**Plant Staffing:** List the name, certificate number, and class of all state certified operators operating the facility during the monitoring period. Use additional sheets as necessary.

**PART D - GROUND WATER MONITORING REPORT**

**Monitoring Period:** Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

**Date Sample Obtained:** Enter the date the sample was taken. Also, check whether or not the well was purged before sampling.

**Time Sample Obtained:** Enter the time the sample was taken.

**Sample Measurement:** Record the results of the analysis. If the result was below the minimum detection limit, indicate that. Data qualifier codes are not to be reported on Part D.

**Detection Limits:** Record the detection limits of the analytical methods used.

**Analysis Method:** Indicate the analytical method used. Record the method number from Chapter 62-160 or Chapter 62-601, F.A.C., or from other sources.

**Sampling Equipment Used:** Indicate the procedure used to collect the sample (e.g. airlift, bucket/bailer, centrifugal pump, etc.)

**Samples Filtered:** Indicate whether the sample obtained was filtered by laboratory (L), filtered in field (F), or unfiltered (N).

**Signature:** This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

**Comments and Explanation:** Use this space to make any comments on or explanations of results that are unexpected. If more space is needed, reference all attachments in this area.

**SPECIAL INSTRUCTIONS FOR LIMITED WET WEATHER DISCHARGES**

**Flow (Limited Wet Weather Discharge):** Enter the measured average flow rate during the period of discharge or divide gallons discharged by duration of discharge (converted into days). Record in million gallons per day (MGD).

**Flow (Upstream):** Enter the average flow rate in the receiving stream upstream from the point of discharge for the period of discharge. The average flow rate can be calculated based on two measurements; one made at the start and one made at the end of the discharge period. Measurements are to be made at the upstream gauging station described in the permit.

**Actual Stream Dilution Ratio:** To calculate the Actual Stream Dilution Ratio, divide the average upstream flow rate by the average discharge flow rate. Enter the Actual Stream Dilution Ratio accurate to the nearest 0.1.

**No. of Days the SDF > Stream Dilution Ratio:** For each day of discharge, compare the minimum Stream Dilution Factor (SDF) from the permit to the calculated Stream Dilution Ratio. On Part B of the DMR, enter an asterisk (\*) if the SDF is greater than the Stream Dilution Ratio on any day of discharge. On Part A of the DMR, add up the days with an "\*" and record the total number of days the Stream Dilution Factor was greater than the Stream Dilution Ratio.

**CBOD<sub>5</sub>:** Enter the average CBOD<sub>5</sub> of the reclaimed water discharged during the period shown in duration of discharge.

**TKN:** Enter the average TKN of the reclaimed water discharged during the period shown in duration of discharge.

**Actual Rainfall:** Enter the actual rainfall for each day on Part B. Enter the actual cumulative rainfall to date for this calendar year and the actual total monthly rainfall on Part A. The cumulative rainfall to date for this calendar year is the total amount of rain, in inches, that has been recorded since January 1 of the current year through the month for which this DMR contains data.

**Rainfall During Average Rainfall Year:** On Part A, enter the total monthly rainfall during the average rainfall year and the cumulative rainfall for the average rainfall year. The cumulative rainfall for the average rainfall year is the amount of rain, in inches, which fell during the average rainfall year from January through the month for which this DMR contains data.

**No. of Days LWWD Activated During Calendar Year:** Enter the cumulative number of days that the limited wet weather discharge was activated since January 1 of the current year.

**Reason for Discharge:** Attach to the DMR a brief explanation of the factors contributing to the need to activate the limited wet weather discharge.