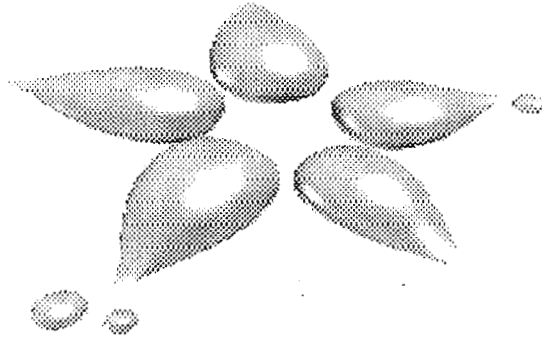


ORIGINAL



# United Water

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Before the

Florida Public Service Commission

Docket No. 980214-WS

Application for a General Rate Increase

H - 7 Schedule

Containing

25-30.440

Additional Engineering Information

Required of Class A & B

Water and Sewer Utilities

DOCUMENT NUMBER-DATE

05512 MAY 18 88

FPSC-RECORDS/REPORTING

Book 1 of 3



Lawton Chiles  
Governor

Florida Department of  
Environmental Protection

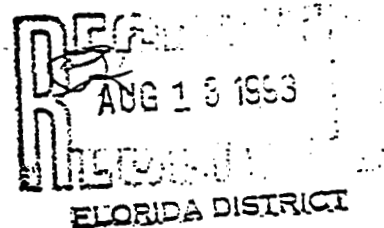
Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7577

Virginia B. Wetherell  
Secretary

G. W. C.

NOTICE OF PERMIT ISSUANCE

August 5, 1993



CERTIFIED MAIL - RETURN RECEIPT

Philip Heil, Vice President  
Jacksonville Suburban Utilities Corporation  
P.O. Box 8004  
Jacksonville, Florida 32239

Subject: Holly Oaks Wastewater Facility (WWF): Application for Operation Permit  
Duval County - Domestic Waste

Dear Mr. Heil:

Enclosed is Operation Permit No. D016-229843, for the subject wastewater facility, issued pursuant to Section 403.087, Florida Statutes (FS).

The Permittee is reminded of the necessity to comply with the pertinent regulations of any other State agency, as well as any County, Municipal, and Federal regulations applicable to the project. These regulations may include, but are not limited to, those of the Federal Emergency Management Agency in implementing flood control measures. This permit should not be construed to imply compliance with the regulations of other agencies.

Your special attention is called to the following Specific Conditions of the attached permit which are listed below:

11. Comply with WWF monitoring requirements and effluent limitations.
12. Comply with limitations for effluent ultimate oxygen demand.
13. Comply with requirements for operator licensing and staffing.
14. The Department may require Jacksonville Suburban Utilities Corporation (JSUC) to do a water quality based effluent limitation analysis of Cowhead Creek.
15. Domestic wastewater residuals shall be sampled and tested at least once every 90 days.
16. The Agricultural Use Plan shall be updated at least once every 365 days.
17. Effluent shall be sampled and tested for the listed parameters at least once every 30 days.
18. Pond water shall be sampled and tested for toxicity.

19. Implement a reclaimed water reuse program.
20. Conduct water quality monitoring for Cowhead Creek, the polishing pond and Mill Cove.
21. The Department reserves the right to require JSUC to construct ground water monitoring wells.
22. Submit a permit application no later than April 30, ~~1988~~.

1998

A person whose substantial interests are affected by this Permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, F.S. The petition 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 receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the permit holder's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by 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 this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Florida Administrative Code (FAC) Rule 28-5.207.

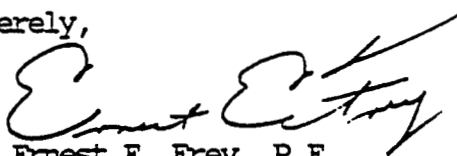
This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to FAC Rule 17-103.070. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

Any party to this Order (Permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in this Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; 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 this Notice is filed with the Clerk of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; 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 the Final Order is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

Sincerely,



Ernest E. Frey, P.E.  
Director of District Management

Copies furnished to:

*CJH*

Jacksonville Water Quality Division  
Mr. Richard Drew, DEP  
Ms. Julie Gissendanner, DEP  
Mr. Peter McGarry, U.S.EPA

CERTIFICATE OF SERVICE

*JF* This is to certify that this NOTICE OF PERMIT ISSUANCE and all copies were mailed before the close of business on August 9, 1993 to the listed persons.

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to 120.52(9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

*Judy H. Thomson*  
(Clerk)

*8/9/93*  
(Date)



# Florida Department of Environmental Protection

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7577

Virginia B. Wetherell  
Secretary

**PERMITTEE:**

Philip Heil, Vice President  
Jacksonville Suburban Utilities Corp.  
P.O. Box 8004  
Jacksonville, Florida 32239

I.D. NUMBER: 3116POO901  
PERMIT/CERT NUMBER: D016-229843  
DATE OF ISSUE: August 5, 1993  
EXPIRATION DATE: June 30, 1998  
COUNTY: Duval  
LAT/LONG: 30°21'30"N/81°31'20"W  
SECTION/TOWNSHIP/RANGE:  
PROJECT: Holly Oaks Wastewater  
Facility (WWF)

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-4, 17-7, 17-301, 17-302, 17-600, 17-601, 17-602, 17-610, 17-640 and 17-650. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

The Department permits the operation of a 1.0 MGD conventional activated sludge facility with influent screening and chlorination, discharging to a 1.75 acre [surface area] polishing pond and thence into Cowhead Creek; the polishing pond is used to provide effluent dechlorination; domestic wastewater residuals are aerobically digested and disposed of by land application; this facility serves the Holly Oaks Wastewater Facility Certificated Area of Service.

Holly Oaks Wastewater Facility is located at 10797 Fort Caroline Road, Jacksonville, Duval County, Florida.

Operation Permit No. D016-229843 is issued in accordance with the application received April 16, 1993 and completed by additional information received May 13, 1993.

PERMITTEE:  
Philip Heil  
Holly Oaks  
WWF

I.D. NUMBER: 3116POO901  
PERMIT NUMBER: D016-229843  
DATE OF ISSUE: August 5, 1993  
EXPIRATION DATE: June 30, 1998

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861 Florida Statutes. The permittee is hereby placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
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.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore 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.
6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

PERMITTEE:  
Philip Heil  
Holly Oaks  
WWF

I.D. NUMBER: 3116POO901  
PERMIT NUMBER: DO16-229843  
DATE OF ISSUE: August 5, 1993  
EXPIRATION DATE: June 30, 1998

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
  - a. Have access to and copy any records that must be kept under the conditions of the permit;
  - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
  - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with, or will be unable to comply with, any condition or limitation specified in this permit, the permittee shall immediately notify and provide the Department with the following information:
  - a. A description of and cause of noncompliance; and
  - b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.
9. 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 arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
10. The permittee 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 Florida Administrative Code Rule 17-302.500, shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.

PERMITTEE:  
Philip Heil  
Holly Oaks  
WWF

I.D. NUMBER: 3116POO901  
PERMIT NUMBER: DO16-229843  
DATE OF ISSUE: August 5, 1993  
EXPIRATION DATE: June 30, 1998

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-730.300, as applicable. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department.
12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
13. This permit also constitutes:
  - (a) Determination of Best Available Control Technology (BACT)
  - (b) Determination of Prevention of Significant Deterioration (PSD)
  - (c) Certification of Compliance with State Water Quality Standards (Section 401, FL 92-500)
  - (d) Compliance with New Source Performance Standards
14. The permittee shall comply with the following:
  - a. Upon request, the permittee shall furnish all records and plans required under Department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the Department, during the course of any unresolved enforcement action.
  - b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by Department rule.
  - c. Records of monitoring information shall include:
    - the date, exact place, and time of sampling or measurements;
    - the person responsible for performing the sampling or measurements;
    - the date(s) analyses were performed;
    - the person responsible for performing the analyses;
    - the results of such analyses.
15. When requested by the Department, the permittee shall, within a reasonable period of time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be submitted or corrected promptly.



PERMITTEE:  
Philip Heil  
Holly Oaks  
WWF

I.D. NUMBER: 3116PO0901  
PERMIT NUMBER: D016-229843  
DATE OF ISSUE: August 5, 1993  
EXPIRATION DATE: June 30, 1998

SPECIFIC CONDITIONS:

1. During the period of operation allowed by this permit, the permittee shall furnish one copy of the monthly operating report (MOR) on the operation of the subject wastewater facility. Such report shall also contain information on the daily quantities of domestic wastewater residuals generated at the source, type and degree of treatment and the site of ultimate disposal. Reports using Department of Environmental Regulation (DER) or Department of Environmental Protection (DEP) Form 17-601.900(1) shall be submitted on a monthly basis and must be received by the Department no later than the twenty eighth (28th) day of the month following the month of operation. The test site identification number for the subject facility is 3116X12395 and will be entered under Part II, Item (10) of the MOR. For the purposes of this permit, the Department shall mean (1) the State of Florida Department of Environmental Protection (DEP), 7825 Baymeadows Way, Suite B-200, Jacksonville, Florida 32256-7577 and (2) the City of Jacksonville Regulatory and Environmental Services Department (RESD) Water Quality Division (WQD), 421 West Church Street, Suite 412, Jacksonville, Florida 32202-4111.
2. Domestic wastewater residuals or other solid waste shall not be discharged into waters either directly or indirectly and the same shall be disposed of in a manner approved by DEP.
3. The effluent from this source shall be adequately chlorinated at all times so as to provide a basic level of disinfection as required by Florida Administrative Code (FAC) Rule 17-600.440(4).
4. The personnel in charge of the operation, supervision or maintenance of the treatment facilities shall meet the requirements of FAC Chapter 17-602. Sampling and monitoring of this facility will be in accordance with FAC Chapter 17-601.
5. The discharge authorized this permit shall be consistent at all times with the water quality standards set forth in FAC Chapters 17-301 and 17-302.
6. No additional connection shall be made to this facility without prior approval of the Department.
7. The permit holder shall also comply with county, municipal, federal or other state environmental regulations.
8. An Operation and Maintenance Manual for this facility shall be available at the facility for use by operation and maintenance personnel and for inspection by the Department in accordance with FAC Rule 17-600.720(2).
9. A copy of these permit conditions shall be forwarded by the Permittee to the lead operator and/or the utility company who is charged to maintain and operate this facility, if other than the owner, so as to comply with General Condition No. 12 above.
10. Domestic wastewater residuals shall be disposed of in accordance with FAC Chapter 17-640. All domestic wastewater residuals applied to the land shall be treated as required by FAC Rule 17-640.600. Domestic wastewater residuals shall be disposed of in accordance with FAC Rule 17-640.700(3) or FAC Rule 17-640.700(4).

PERMITTEE:  
Philip Heil  
Holly Oaks  
-F

I.D. NUMBER: 3116PO0901  
PERMIT/CERTIFICATION: DO16-229843  
DATE OF ISSUE: August 5, 1993  
EXPIRATION DATE: June 30, 1998

SPECIFIC CONDITIONS:

11. The monitoring requirements and effluent limitations for this WWF are as follows:

PARAMETER	EFFLUENT LIMIT	MINIMUM FREQUENCY	SAMPLE TYPE	SAMPLE LOCATION
FLOW	1.0 MGD(b)	Continuous	(c)	Effluent
CBOD <sub>5</sub>	(a)	Weekly	Composite (e)	Influent & Effluent (d)
TSS	(a)	Weekly	Composite (e)	Influent & Effluent (d)
TKN	(a)	Weekly	Composite (e)	Effluent (d)
pH Units	6.0 to 8.5	Continuous	(f)	Effluent (d)
Chlorine Residual	Min. 0.5 mg/l(h) Max. 0.01 mg/l(1)	Continuous Daily, 7/Week	(f) Grab	Effluent (d) Effluent
Fecal(i) Coliform	Avg. ≤200/100 ml Max. 800/100 ml	Weekly	Grab (g)	Effluent (d)

.) Effluent Limits, Maximum (mg/l)

	Annual average	Monthly average	Weekly average	One time grab max.
CBOD <sub>5</sub> (j)	6.0	7.5	9.0	12.0
TSS (k)	20	30	45	60
TKN (j)	2.0	2.5	3.0	4.0

- (b) Annual average daily flow shall not exceed value shown.
- (c) A recording flow meter and a totalizer shall be used to measure flow rate at the weir located on the discharge side of the chlorine contact chamber.
- (d) Effluent shall be sampled after chlorination and prior to discharge into the polishing pond.
- (e) A sixteen (16)-hour, flow proportioned composite sample is required.
- (f) Effluent total residual chlorine (TRC) content (following chlorination) and pH shall be measured on a continuous basis. However, hourly measurements taken during the period of required operator attendance may be substituted for continuous measurement.
- (g) Grab samples for fecal coliform will be collected during periods of minimal wastewater facility pollutant removal efficiencies, or maximum organic loading in the effluent.
- (h) Effluent TRC content (following chlorination) shall not fall below 0.5 mg/l, in accordance with the disinfection requirements of FAC Rule 17-600.440(4)(b).
- (i) Fecal coliform values shall comply with FAC Rule 17-600.440(4)(c).
- (j) Maximum allowable monthly averages, weekly averages and one (1)-time grab samples for carbonaceous five (5)-day biochemical oxygen demand (CBOD<sub>5</sub>) and total Kjeldahl nitrogen (TKN) are calculated in accordance with FAC Rule 17-600.740(1)(b)2.
- (k) Effluent limits for total suspended solids (TSS) are assigned in accordance with FAC Rules 17-600.420(1) and 17-600.740(1)(b)1.

PERMITTEE:  
Philip Heil  
Holly Oaks  
WWF

I.D. NUMBER: 3116PO0901  
PERMIT/CERT NUMBER: DO16-229843  
DATE OF ISSUE: August 5, 1993  
EXPIRATION DATE: June 30, 1998

SPECIFIC CONDITIONS:

- (1) In accordance with FAC Rule 17-302.530(19), effluent TRC content shall not exceed 0.01 mg/l at the point of discharge from the larger polishing pond into the smaller polishing pond. Effluent shall be sampled for TRC content no less than once per day, no less than seven (7) days per week. A single grab sample is acceptable.
12. The wasteload allocation for this source is 148 lbs/day Ultimate Oxygen Demand (UOD) as a maximum, thirty (30)-day average limit. For the purposes of determining compliance with the regulations of the Department, UOD shall be calculated as follows:

Where:

$$UOD = CUOD + NUOD$$

$$CUOD = (11.93)(Q)(CBOD_5)$$

= Carbonaceous UOD

$$NUOD = (38.11)(Q)(TKN)$$

= Nitrogenous UOD

The Permittee shall report the calculated UOD, CUOD and NUOD on the monthly operating reports.

13. This WWF shall be staffed by a State-licensed Class C (or higher) operator for no less than seven (7) days per week and for no less than eight (8) hours per day. The lead/chief operator must be a State-licensed Class B (or higher) operator. The Department will permit eight (8) hour per day operator attendance (instead of the sixteen (16) hour per day attendance requirement specified in FAC Rule 17-699.310(3)(b) for a Category II, Class B Treatment Process, currently utilized by the subject WWF) for a trial period of one (1) year from the permit date of issue. This trial period for reduced operator daily staffing hours is granted because Jacksonville Suburban Utilities Corporation (JSUC) has provided the Department with reasonable assurance that its Supervisory Control and Data Acquisition (SCADA) System complies with the requirements of FAC Rule 17-602.375(3). Throughout the trial period, JSUC shall properly maintain the SCADA System to ensure continuous, reliable operations. Following completion of the trial period, the Department will review the WWF effluent data and notify JSUC (in writing) regarding whether operator attendance may remain at eight (8) hours per day.

The Department reserves the right to require JSUC to resume sixteen (16)-hour per day operator attendance [as specified in FAC Rule 17-699.310(3)(b)] prior to completion of the one (1) year trial period or any time thereafter if this WWF does not maintain compliance with the effluent limits in Permit Specific Condition No. 11.

PERMITTEE:  
Philip Heil  
Holly Oaks  
WWF

I.D. 1 3ER: 3116POO901  
PERMIT/CERT NUMBER: D016-229843  
DATE OF ISSUE: August 5, 1993  
EXPIRATION DATE: June 30, 1998

SPECIFIC CONDITIONS:

14. In accordance with FAC Rule 17-650.500(5), the Department reserves the right to modify this Permit by requiring JSUC to conduct a Level I or Level II Water Quality Based Effluent Limitation (WQBEL) analysis of Cowhead Creek. Permit modification shall include a reasonable period of time for JSUC to petition for administrative relief and submit a plan of study for Department approval. If a WQBEL is developed for this source which requires the annual effluent limits to be revised, the Permittee shall be notified in writing by the Department. After notification, the Permittee shall be allowed (a) 90 days to bring the wastewater facility into compliance with the revised effluent limits or (b) 60 days to submit an application for (1) a construction permit which will bring the facility into compliance within 180 days of construction permit issue date or (2) a temporary operation permit with a compliance schedule or (3) administrative relief pursuant to FAC Rules 17-4.23 and 17-4.244. Department studies do not relieve the applicant of specific responsibilities in rule or elsewhere in this permit.
15. The domestic wastewater residuals from the subject WWF shall be sampled and tested after final treatment but prior to utilization or disposal in accordance with the requirements of FAC Rule 17-640.700. Domestic wastewater residuals shall be sampled and tested at least once during any rolling ninety (90)-day period for the following parameters:

Total Nitrogen	- %	dry weight
Total Phosphorus	- %	dry weight
Total Potassium	- %	dry weight
Total Solids	- %	dry weight
Cadmium mg/kg		dry weight
Copper mg/kg		dry weight
Lead mg/kg		dry weight
Nickel mg/kg		dry weight
Zinc mg/kg		dry weight
pH		standard units

No later than sixty (60) days following the completion of all sampling and testing, a copy of the test analyses shall be submitted to WQD. The tests analyses shall be submitted on the stationery of the testing laboratory and contain the signature(s) of the person(s) performing the tests.

PERMITTEE:  
Philip Heil  
Holly Oaks  
WWF

I.D. NUMBER: 3116PO0901  
PERMIT/CERT NUMBER: D016-229843  
DATE OF ISSUE: August 5, 1993  
EXPIRATION DATE: June 30, 1998

SPECIFIC CONDITIONS:

16. The Agricultural Use plan shall be updated at least once every 365 days as required by FAC Rule 17-640.500(1)(f). The updated Agricultural Use Plan shall be submitted (to WQD and DEP) using DER or DEP Form 17-640.900(1) and shall be accompanied by the following information:
- A summary of the total domestic wastewater residuals, nitrogen and heavy metals applied on an annual basis.
  - The cumulative heavy metals applied by all other wastewater facilities that utilize the same portion of the land application site (as the subject WWF) for disposal of domestic wastewater residuals.
  - The pH of the residuals/soils mixture for the land application site.
  - The above-specified information shall be current to within forty five (45) days of its date of submittal.

Pursuant to FAC Rule 17-640.700(3)(p), records of application areas and application rates of domestic wastewater residuals must be maintained by the Permittee and must be available for inspection upon request by DEP or WQD. Records shall be kept on DER or DEP Form 17-640.900(3)[or by an approved method which provides equivalent detail] and shall include information specified in FAC Rule 17-640.700(3)(p).

The Department reserves the right to prohibit land application of domestic wastewater residuals if an updated agricultural use plan and/or a quarterly test analysis report do not provide reasonable assurance of compliance with FAC Chapter 17-640.

17. Effluent discharged by the subject WWF shall be sampled and tested for the following:
- Organic nitrogen.
  - Nitrite nitrogen ( $\text{NO}_2\text{-N}$ ) and nitrate nitrogen ( $\text{NO}_3\text{-N}$ ).
  - Total ammonia ( $\text{NH}_3\text{-N}$  and  $\text{NH}_4^+\text{-N}$ ).
  - Total nitrogen (TN).
  - Total phosphorus (TP).
  - Orthophosphorus.

PERMITTEE:  
Philip Heil  
Holly Oaks  
WWF

I.D. NUMBER: 3116PO0901  
PERMIT/CEPT NUMBER: D016-229843  
DATE OF ISSUE: August 5, 1993  
EXPIRATION DATE: June 30, 1998

SPECIFIC CONDITIONS:

Sixteen (16)-hour, flow-proportioned composite samples shall be taken; sampling and testing (1) shall be conducted at least once during any rolling thirty (30)-day period and (2) shall continue until further notice is received from the Department. Test results (showing parameters and corresponding concentrations in mg/l) shall be submitted to the Department with the monthly operating report corresponding to month in which the samples were taken. Samples shall be taken following chlorination and prior to discharge to the polishing pond.

18. In accordance with FAC Rule 17-4.244(3), the Permittee shall conduct the series of tests described below to evaluate the toxicity of the effluent by sampling the water in the larger polishing pond at the point of its discharge into the smaller polishing pond. All test species, procedures and quality assurance criteria used shall be in accordance with Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, 4th Edition, Environmental Protection Agency (EPA)/600/4-90/027, Weber, 1991, or the most current edition. A standard reference toxicant quality assurance test shall be conducted concurrently with each species used in the toxicity tests and the results submitted with the MOR. Alternatively, if monthly quality assurance (QA)/quality control (QC) reference toxicant tests are conducted, these results must be submitted with the MOR.
  - a. The Permittee shall conduct 96-hour static acute screening toxicity tests using the Ceriodaphnia dubia (water flea) and the Notropis leedsii (bannerfin shiner). All tests will be conducted on four separate grab samples collected at evenly spaced (6-hour) intervals over a 24-hour period and used in four separate tests for each species in order to account for variations in effluent and pond water quality.
  - b. If control mortality exceeds 10% for either species in any tests, the test(s) for that species (including the control) shall be repeated. A test will be considered valid only if control mortality does not exceed 10% for either species. If, in any separate grab sample test, 100% mortality occurs prior to the end of the test, and control mortality is less than 10% at that time, that test (including the control) shall be terminated with the conclusion that the sample demonstrates unacceptable acute toxicity.
  - c. The toxicity tests specified above shall be conducted using a control (0% pond water) and one test concentration of 100% pond water. These tests are referred to as "routine tests" and shall be conducted once every two (2) months beginning no later than 30 days following permit date of issuance until 6 consecutive valid bi-monthly tests have been passed, and once every six (6) months thereafter for the duration of the permit, unless notified otherwise by the Department.

PERMITTEE:  
Philip Heil  
Holly Oaks  
WWF

I.D. N ER: 3116PO0901  
PERMIT/CERT NUMBER: DO16-229843  
DATE OF ISSUE: August 5, 1993  
EXPIRATION DATE: June 30, 1998

SPECIFIC CONDITIONS:

- d. Results from "routine tests" shall be reported according to EPA/600/4-90/027, Section 12 Report Preparation, 4th edition, Weber, 1991 (or the most current edition), and shall be submitted (to DEP and WQD) as an attachment to the monthly operating report.
- e. If unacceptable acute toxicity (greater than 20% lethality in a sample of 100% pond water to either tests species in any of the tests within the specified time) is found in a "routine test", the Permittee shall conduct follow-up definitive tests using four (4) new grab samples collected at six (6) hour intervals over a 24-hour period to generate the data necessary (in an initial set of follow-up tests) to calculate the concentrations lethal to 50% of test organisms (LC<sub>50</sub> values) with 95% confidence limits. If unacceptable acute toxicity is found in a follow up test, additional definitive testing will be performed at three (3) subsequent weekly intervals, with grab samples collected at the time of day and day of the week which exhibited the highest toxicity (lowest LC<sub>50</sub> value) in the first set of follow-up definitive testes. The follow-up tests shall be 96-hour acute, static-renewal, definitive toxicity tests, and shall be conducted on both test species, using a control (0% pond water) and test concentrations chosen so that at least two (2) concentrations are above and two (2) are below the LC<sub>50</sub> value found in the initial follow-up definitive test. For these tests, solution renewal shall be at 48 hours after test initiation with the remainder of the original samples which has been held at 4°C. The sample collection requirements and test acceptability criteria specified in sections "a" and "b" above must be met for the test to be considered valid. The follow-up tests shall begin within two weeks of the end of failed "routine test".
- f. Results from the definitive tests, required due to unacceptable acute toxicity in the "routine tests", shall be submitted (to DEP and WQD) in a single report prepared according to EPA/600/4-90/027, Section 12, Report Preparation, 4th Edition, Weber, 1991 (or the most current edition), within 45 days of completion of the valid definitive test. Upon review of the definitive toxicity test results, test concentrations may be modified by the Department to improve statistical confidence of the analyses. In this case, the Permittee shall be notified and will have 30 days to comply with such changes.
- g. Should any valid definitive test indicate the characteristic of toxicity, the Permittee shall prepare a plan of study to identify the cause(s) or source(s) of toxicity of the effluent and evaluate feasible methodologies to reduce or eliminate the toxicity. The plan may include a chemical analysis of the effluent including priority pollutants (metals, volatile and nonvolatile organics) and nonpriority pollutant peaks (including organonitrogen-phosphorus pesticides) along with total and unionized ammonia, nitrate and nitrite nitrogen, total Kjeldahl nitrogen and total and orthophosphorus.

PERMITTEE:  
Philip Heil  
Holly Oaks  
WWF

I.D. NUMBER: 3116PO0901  
PERMIT/CERT NUMBER: D016-229843  
DATE OF ISSUE: August 5, 1993  
EXPIRATION DATE: June 30, 1998

SPECIFIC CONDITIONS:

- h. The Permittee shall submit the plan of study to DEP and WQD for review and comments within 60 days of determination of acute toxicity by the valid definitive test (outlined in section "e" above). The Permittee shall implement the agreed upon plan of study within 30 days of receipt of written Department approval. A detailed final report shall be submitted (to DEP and WQD) upon completion of the plan of study including conclusions and recommendations regarding the toxicity of the effluent and measures to reduce or eliminate it.
19. JSUC shall plan, design, construct and implement a reclaimed water reuse system for this WWF, in accordance with the following schedule:
- a. No later than sixty (60) days following permit date of issue, JSUC shall submit a letter to the St. Johns River Water Management District (SJRWMD) requesting that it provide written notice to potential acceptors of the availability of reclaimed water (within the WWF Certificated Area of Service).
- b. No later than thirty (30) days following submittal of the letter [referenced in Note (a)] to SJRWMD, JSUC shall provide written notification to all potential acceptors of reclaimed water.
- Negotiations among all concerned parties shall begin no later than thirty (30) days following JSUC's mailing of written notifications.
- c. If negotiations result in JSUC securing an agreement with one or more acceptors of reclaimed water, JSUC shall comply with the following schedule:
- (1) JSUC shall submit a written request to the Florida Public Service Commission (PSC) for a limited proceeding to establish rates to cover the costs of reclaimed water reuse program.
  - (2) Immediately following approval by PSC, JSUC shall begin designing the reclaimed water reuse system and no later than 120 days following commencement of the reclaimed water reuse system design, JSUC shall submit a construction application in accordance with the Department's Administrative Procedures. The application shall include State and local processing fees and all necessary documents, drawings and reports.



PERMITTEE:  
Philip Heil  
Holly Oaks  
WWF

I.D. NUMBER: 3116PO0901  
PERMIT/CERT NUMBER: D016-229843  
DATE OF ISSUE: August 5, 1993  
EXPIRATION DATE: June 30, 1998

SPECIFIC CONDITIONS:

- d. In the event a contract cannot be negotiated, JSUC shall provide a written explanation of the reasons to DEP and WQD. The Department will make the final decision whether JSUC meets the reuse consideration requirements. JSUC shall provide DEP and WQD with written notification regarding (1) the beginning and completion of each phase of the schedule outlined in Permit Specific Condition No. 19 and (2) any delays in implementing the schedule.

The Department will not hold JSUC accountable for any delays in implementing a reclaimed water reuse program caused by other parties or events that are beyond the control of JSUC.

20. No later than sixty (60) days following permit date of issue, JSUC shall commence water quality monitoring of Cowhead Creek, the polishing pond and Mill Cove. Water samples shall be taken at the following sites:
  - a. Cowhead Creek at the intersection with Fort Caroline Road.
  - b. In the larger polishing pond, at its point of discharge into the smaller pond (which discharges into Cowhead Creek).
  - c. In Mill Cove, within 200 feet of the confluence with Cowhead Creek.

Water samples shall be taken at all sites on the same day, at approximately mid-pond/mid-stream depth and tested for the following: CBOD<sub>5</sub>, TKN, TN, TP, pH, dissolved oxygen and temperature.

Water quality tests shall be performed at a laboratory that utilize a quality assurance/quality control program. Test results (in mg/l) shall be submitted to WQD on the stationery of the testing laboratory no later than sixty (60) days following the sampling date. Test data submittals shall also include the direction of stream flow at the time the samples were taken, as well as weather and rainfall information. Water quality monitoring shall continue no less than once every ninety (90) days following the first sampling/testing episode until further notice is given by the Department.

21. The Department reserves the right to modify this operation permit by requiring JSUC to submit an application to construct ground water monitoring wells around the polishing pond if it is deemed necessary to provide reasonable assurance that the discharge from the subject WWF does not negatively impact ground water quality.

PERMITTEE:  
Philip Heil  
Holly Oaks  
WWF

I.D. NUMBER: 3116POO901  
PERMIT/CERT NUMBER: DO16-229843  
DATE OF ISSUE: August 5, 1993  
EXPIRATION DATE: June 30, 1998

SPECIFIC CONDITIONS:

22. No later than April 30, 1998, the Permittee shall submit an application for an operation permit or a temporary operation permit (for the subject WWF). The application shall be submitted in accordance with the Administrative Procedures of the Department and shall include (1) State and local processing fees and (2) all necessary supplementary documents, plans, studies and reports.

FILING AND ACKNOWLEDGEMENT  
FILED on this date, pursuant to §120.52 Florida  
Statutes, with the designated Department Clerk,  
receipt of which is hereby acknowledged  
Judy A. Brown 8/9/93  
Clerk Date

CJH  
CITY OF JACKSONVILLE  
DEPARTMENT OF REGULATORY  
AND ENVIRONMENTAL SERVICES  
WATER QUALITY DIVISION

John K. Flowe  
John K. Flowe, P.E.  
Division Chief

Issued this 5th day of August 1993

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Ernest E. Frey  
Ernest E. Frey, P.E.  
Director of District Management



# Department of Environmental Protection

*cc: Hines  
Hall  
Lang  
Scott  
Todd  
John  
9/2*

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

CERTIFIED MAIL -- RETURN RECEIPT

August 29, 1997

In the Matter of an Application  
for Permit by:

Munipalli Sambamurthi  
Vice President-Manager  
United Water Florida  
1400 Millcoe Road  
Jacksonville, Florida 32225

DEP File No. 274746  
Duval County  
Holly Oaks WWTF

*file*

## NOTICE OF PERMIT ISSUANCE

Enclosed is Permit Number FL0023621 to operate an existing 1.0 mgd annual average daily flow (AADF) permitted capacity conventional activated sludge WWTF with ultraviolet disinfection prior to discharge to Cowhead Creek to Mill Cove (St. Johns River). The permit is issued under section 403 of the Florida Statutes.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative hearing in accordance with sections 120.569 and 120.57 of the Florida Statutes, or all parties may reach a written agreement on mediation as an alternative remedy under section 120.573 before the deadline for filing a petition. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for petitioning for a hearing are set forth below, followed by the procedures for pursuing mediation.

The petition must contain the information set forth below and must be filed (received) in the Department's Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any other person must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. A petitioner must 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 a request for mediation, as discussed below) within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes, or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-5.207 of the Florida Administrative Code.

A petition must contain the following information:

- (a) The name, address, and telephone number of each petitioner; the Department's permit identification number and the county in which the subject matter or activity is located;

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

Notice of Permit Issuance

August 29, 1997

page 2

- (b) a statement of how and when each petitioner received notice of the Department's action;
- (c) a statement of how each petitioner's substantial interests are affected by the department's action;
- (d) a statement of the material facts disputed by the petitioner, if any;
- (e) a statement of facts that the petitioner contends warrant reversal or modification of the Department's action;
- (f) a statement of which rules or statutes the petitioner contends require reversal or modification of the Department's action; and
- (g) and a statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take.

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 of intent. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Any person may elect to pursue mediation by reaching a mediation agreement with all parties to the proceeding (which includes the Department and any person who has filed a timely and sufficient petition for a hearing) and by showing how the substantial interests of each mediating party are affected by the Department's action or proposed action. The agreement must be filed in (received by) the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, by the same deadline as set forth above for the filing of a petition.

The agreement to mediate must include the following:

- (a) the names, addresses, and telephone numbers of any persons who may attend the mediation;
- (b) the name, address, and telephone number of the mediator selected by the parties, or a provision for selecting a mediator within a specified time;
- (c) the agreed allocation of the costs and fees associated with the mediation;
- (d) the agreement of the parties on the confidentiality of discussions and documents introduced during mediation;
- (e) the date, time, and place of the first mediation session, or a deadline for holding the first session, if no mediator has yet been chosen;
- (f) the name of each party's representative who shall have authority to settle or recommend settlement;
- (g) either an explanation of how the substantial interests of each mediating party will be affected by the action or proposed action addressed in this action or a statement clearly identifying the petition for hearing that each party has already filed, and incorporating it by reference; and
- (h) the signatures of all parties or their authorized representatives.

As provided in section 120.573 of the Florida Statutes, the timely agreement of all parties to mediate will toll the time limitations imposed by section 120.569 and 120.57 for requesting and holding an administrative hearing. 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 whose substantial interests will be affected by such a modified final decision of the Department have a right to petition for a hearing only in accordance with the requirements for such petitions set forth above, and must therefore file their petitions within fourteen days of receipt of this notice. If mediation terminates without settlement of the dispute, the Department shall notify all parties in writing that the administrative hearing processes under

section 120.569 and 120.57 remain available for disposition of the dispute, and the notice will specify the deadlines that then will apply for challenging the agency action and electing remedies under those two statutes.

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

Any party to the order has the right to seek judicial review of the order under section 120.68 of the Florida Statutes, by the filing of a notice of appeal under rule 9.110 of the 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 the final order is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

JPW  
DB

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



Jerry M. Owen, P.E.  
Water Facilities Administrator

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were mailed by certified mail before the close of business on August 29, 1997 to the listed persons.

Copies furnished to:

- Jan Mandrup-Poulsen, DEP - Tallahassee
- RESD, AWQD
- Marshall Hyatt, EPA Region IV

FILING AND ACKNOWLEDGEMENT  
FILED on this date, pursuant to §120.52, Florida  
Statutes, with the designated Department Clerk,  
of which is hereby acknowledged.  
Lois Ann Smith 8/29/97  
Clerk



# Department of Environmental Protection

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

## STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT

### PERMITTEE:

United Water Florida  
1400 Millcoe Road  
Jacksonville, FL 32225

PERMIT NUMBER	FL0023621
ISSUANCE DATE	August 29, 1997
EXPIRATION DATE	August 28, 2002
FACILITY LD. NO	FL0023621 (3116P00901)
APPLICATION NO.	274746

### RESPONSIBLE AUTHORITY:

Mr. Munipalli Sambamurthi, Vice President-Manager

### FACILITY:

Holly Oaks WWTF  
10797 Fort Caroline Road  
Duval County  
Jacksonville, FL 32225  
Latitude: 30° 21' 30" N Longitude: 81° 30' 20" W

This permit is issued under the provisions of Chapter 403, Florida Statutes, and applicable rules of the Florida Administrative Code and constitutes authorization to discharge to waters of the state under the National Pollutant Discharge Elimination System. The above named permittee is hereby authorized to construct and operate the facilities shown on the application and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

### TREATMENT FACILITIES:

To operate an existing 1.0 MGD annual average daily flow (AADF) permitted capacity conventional activated sludge WWTF consisting of influent screening, comminution, a 42,045 cubic foot aeration basin, a 16,980 cubic foot secondary clarifier that is 10 feet deep, and ultraviolet disinfection. The disinfected effluent flows to a 1.75 acre on-site pond prior to discharge. Wastewater treatment plant residuals are stabilized by aerobic digestion, thickened and temporarily stored on site prior to hauling to a land application site.

### EFFLUENT DISPOSAL:

**Surface Water Discharge:** An existing 1.0 MGD annual average daily flow (AADF) permitted discharge from outfall D001 to Cowhead Creek to Mill Cove (St. Johns River - Class III Waters). The Cowhead Creek outfall is located approximately at latitude 30° 21' 22" N, longitude 81° 31' 23" W.

**IN ACCORDANCE WITH:** The limitations, monitoring requirements and other conditions as set forth in Pages 1 through 19 of this permit.

PERMITTEE: United Water Florida  
 FACILITY: Holly Oaks WWTF  
 10797 Fort Caroline Road  
 (904) 721-4600

PERMIT NUMBER : FL0023621  
 ISSUE DATE : August 29, 1997  
 EXPIRATION DATE: August 28, 2002  
 APPLICATION NO. : 274746

**I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

**A. Surface Water Discharges -- Final Limits**

1. During the period beginning on the issue date and lasting through the expiration date of this permit, the permittee is authorized to discharge effluent from Outfall D001 to Cowhead Creek to Mill Cove (St. Johns River -- Class III Waters). Such discharge shall be limited and monitored by the permittee as specified below:

Parameter	Units	Max/Min	Effluent Limitations				Monitoring Requirements			
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow	mgd	Maximum	1.0				Continuous	Recording flow meter and totalizer	EFF-1	See Cond. I.A.4
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	6.0	7.5	9.0	12.0	Weekly	16-hour flow proportioned composite	EFF-1	
Total Suspended Solids	mg/L	Maximum	20.0	30.0	45.0	60.0	Weekly	16-hour flow proportioned composite	EFF-1	
Percent Removal, Total Suspended Solids	percent	Minimum		85.0			Weekly	Calculation	EFF-1	
Ammonia, Total as N	mg/L as N	Maximum	2.0	2.5	3.0	4.0	Weekly	16-hour flow proportioned composite	EFF-1	
Organic Nitrogen, Total as N	mg/L as N	Report					Weekly	16-hour flow proportioned composite	EFF-1	
Fecal Coliform Bacteria	See Permit Condition I.A.5. and I.A.7.						Weekly	Grab	EFF-1	
pH	std. units	Range				6.5 - 8.5	Continuous	On line pH meter or hourly grab sample	EFF-1	See Cond. I.A.3
NO <sub>2</sub> +NO <sub>3</sub> , as N	mg/L as N	Report					Quarterly	16-hour flow proportioned composite	EFF-1	
Nitrogen, Total as N	mg/L as N	Report					Quarterly	16-hour flow proportioned composite	EFF-1	
Phosphorus, Total as P	mg/L as P	Report					Quarterly	16-hour flow proportioned composite	EFF-1	
Phosphate, Ortho as PO <sub>4</sub>	mg/L as PO <sub>4</sub>	Report					Quarterly	16-hour flow proportioned composite	EFF-1	
Stream Monitoring	See Permit Condition I.B.4.									
Whole Effluent Toxicity	See Permit Conditions I.C.1. - I.C.3.									

PERMITTEE: United Water Florida  
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 10797 Fort Caroline Road  
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PERMIT NUMBER : FL0023621  
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2. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.A.1. and as described below:

Monitoring Location Site Number	Description of Monitoring Location
EFF-1	Final Effluent, after ultraviolet disinfection

3. Hourly measurement of pH during the period of required operator attendance may be substituted for continuous measurement. The pH values shall not deviate outside the required range more than one percent of the time (7 hours and 26 minutes) in any calendar month and no individual excursion shall exceed 60 minutes. An excursion is defined as an unintentional and temporary incident in which the pH value of the discharge wastewater exceeds the range set forth in this permit. [Chapter 62-601, Figure 2, Footnotes 1 and 2, 5-31-93 and 40 CFR 401.17]
4. Recording flow meters and totalizers shall be utilized to measure flow and calibrated at least annually. [62-601.200(17) and .500(6), 5-31-93]
5. The arithmetic mean of the monthly fecal coliform values collected during an annual period shall not exceed 200 per 100 mL of effluent sample. The geometric mean of the fecal coliform values for a minimum of 10 samples of effluent each collected on a separate day during a period of 30 consecutive days (monthly), shall not exceed 200 per 100 mL of sample. When more than 10 samples are taken, no more than 10 percent of the samples collected during a period of 30 consecutive days shall exceed 400 fecal coliform values per 100 mL of sample. Any one sample shall not exceed 800 fecal coliform values per 100 mL of sample. [62-600.440(4)(c), 6-8-93]
6. Florida water quality criteria and standards shall not be violated as a result of the discharge. [62-320(9), 11-29-94][62-302.510(5), 2-27-95]
7. If the permittee cannot demonstrate compliance with the fecal coliform limits listed in this permit, then the permittee shall apply to the Department for a revision to the permit and shall install an appropriate effluent filtration system.

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

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the treatment facility shall be monitored by the permittee as specified below:

Parameter	Units	Max/Min	Monitoring Requirements			Notes
			Monitoring Frequency	Sample Type	Monitoring Location Site Number	
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Report	Weekly	16-hour flow proportioned composite	INF-1	See Cond.IB.3
Total Suspended Solids	mg/L	Report	Weekly	16-hour flow proportioned composite	INF-1	See Cond.IB.3

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



PERMITTEE: United Water Florida  
FACILITY: Holly Oaks WWTF  
10797 Fort Caroline Road  
(904) 721-4600

PERMIT NUMBER : FL0023621  
ISSUE DATE : August 29, 1997  
EXPIRATION DATE: August 28, 2002  
APPLICATION NO. : 274746

Monitoring Location Site Number	Description of Monitoring Location
INF-1	Influent prior to biological treatment.

- 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), 5-31-93]
- The Permittee shall initiate regular monitoring of the segment of Mill Cove near the outlet of Cowhead Creek for maintaining data on the impact of the discharge to the water quality of the surface water body. Monitoring shall be on a quarterly basis and shall coincide with the quarterly nutrient monitoring of the facility effluent discharge. The monitoring sites are described as follows:
  - Approximately 50 feet northwest of the confluence of Cowhead Creek and Mill Cove
  - Approximately 300 feet southwest of the confluence of Cowhead Creek and Mill Cove and 50 feet from the shore
  - Approximately 300 feet northeast of the confluence of Cowhead Creek and Mill Cove and 50 feet from the shore

The parameters to be measured shall include the following:

DO, pH, temperature, conductivity, salinity, Secchi Disk depth, CBOD<sub>5</sub>, NH<sub>3</sub>-N, TKN, NO<sub>2</sub>-N + NO<sub>3</sub>-N, TP, Ortho-Phosphorus, Chlorophyll A, alkalinity, color, chloride

Samples shall be taken during a period of time beginning approximately two hours before low tide and ending approximately two hours past low tide. Metered parameters (DO, pH, temperature, conductivity, salinity) shall be sampled at the surface, mid-depth and at the bottom. Grab samples at mid depth for the other parameters is adequate. The results of in-stream monitoring shall be submitted to the Northeast District Office. [62-4.240(3)(c), 4-30-95]

- 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), 5-31-93]
- During the period of operation authorized by this permit, the permittee shall complete and submit to the Department on a monthly basis a Discharge Monitoring Report (DMR), Form 62-620.910(10), as attached to this permit. The permittee shall make copies of the attached DMR form(s) and shall submit the completed DMR form(s) 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 Facilities Regulation Section, Mail Station 3551  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

During the period that wastewater flows are diverted to the Arlington East WWTF, the permittee shall submit monthly DMR forms to the above address which clearly state "No Discharge".

[62-620.610(18), 11-29-94][62-601.300(1), (2), and (3), 5-31-93]

PERMITTEE: United Water Florida  
FACILITY: Holly Oaks WWTF  
10797 Fort Caroline Road  
(904) 721-4600

PERMIT NUMBER : FL0023621  
ISSUE DATE : August 29, 1997  
EXPIRATION DATE: August 28, 2002  
APPLICATION NO. : 274746

7. Unless specified otherwise in this permit, all reports and notifications 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  
7825 Baymeadows Way, Suite 200B  
Jacksonville, Florida 32256-7590

Phone Number - (904) 448-4330  
FAX Number - (904) 448-4366

All FAX copies shall be followed by original copies.

8. The approved analytical methods and corresponding required MDL (method detection limit) and PQL (practical quantification limit) for parameters monitored at outfall D001 are (note: if multiple methods are approved for a given parameter, they are all listed with corresponding MDLs/PQLs separated by a "/" if different):

PARAMETER	ANALYTICAL METHOD	MDL (units)	PQL (units)
CBOD <sub>5</sub>	405.1	0.2 (mg/L)	1.0 (mg/L)
TSS	160.2	4.0 (mg/L)	4.0 (mg/L)
Total Ammonia as N	350.1 or 350.3	20.0 / 50.0 (µg/L)	40.0 / 100.0 (µg/L)
pH	150.1	0.1 (s.u.)	0.1 (s.u.)
Fecal Coliform	600/8-78-017	1 (no/100 mL)	2 (no/100 mL)

The MDLs and PQLs listed above shall constitute the minimum reporting levels for the life of the permit. The Department shall not accept results for which the laboratory's MDLs or PQLs are greater than those listed above. Unless otherwise specified, sample results shall be reported as follows:

- results greater than or equal to the PQL shall be reported as the measured quantity.
- results less than the PQL and greater than or equal to the MDL shall be reported as the PQL value followed by the lab code "m" and the value of the MDL in parentheses. 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.
- results less than the MDL shall be reported as the MDL followed by the lab code "u". A value of one half the MDL or 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 limit or monitoring requirement.

[62-4.246, 6-13-96]

#### C. Whole Effluent Toxicity Testing Program

- The routine acute toxicity screen test and the chronic toxicity screen monitoring test are to be run simultaneously. The acute results are to be derived from the chronic survival test at 96 hours for the routine series of tests. If acute and/or chronic toxicity is indicated in any routine screen test, then the

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*TODD* → sampling protocol for the specific additional chronic (3.B.) or additional acute (3.C.) test shall be followed. If the series of chronic monitoring toxicity tests indicate no toxicity in six consecutive tests, then the facility may discontinue the chronic monitoring toxicity tests and shall conduct acute toxicity tests for the duration of the permit. Acute toxicity testing shall be conducted in accordance with Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms, EPA/600/4-90/027F (4th Edition), on a sample of 100% final effluent and a control (0% effluent). Mortalities of greater than 20% in a sample of 100% effluent shall initiate the series of acute definitive toxicity tests as defined in 3.C. below.

2. Mortalities of 50% or greater in a sample of 100% effluent in any test of 96 hours duration or less or a calculated LC50 of less than 100% effluent in any additional acute definitive test of 96 hours duration or less, will constitute a violation of these permit conditions and Rule 62-302.200(1), Rule 62-302.500(1)(d), and Rule 62-4.244(3)(a), F.A.C.
3. The permittee shall initiate the series of tests described below 60 days from the permit issue date to evaluate whole effluent toxicity of the discharge from outfall D001. All test species, procedures and quality assurance criteria used shall be in accordance with Short-term methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms, EPA/600/4-91/003, or the most current edition. The control water and the effluent used will be adjusted to an appropriate salinity using artificial sea salts as described in EPA/600/4-90/027F, Section 8, or the most current edition. A standard reference toxicant quality assurance chronic toxicity test shall be conducted concurrently with each species used in the toxicity tests and these results submitted with the bioassay report or if monthly QA/QC reference toxicant tests are conducted, these results must be submitted with the bioassay report. Any deviation from the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use.

#### A. CHRONIC TOXICITY MONITORING TEST REQUIREMENTS

- i) The permittee shall conduct a mysid shrimp, Mysidopsis bahia, Survival, Growth and Fecundity Test (Method 1007), and an inland silverside, Menidia beryllina, Larval Survival and Growth Test (Method 1006). These tests shall be conducted using a control (0% effluent) and one test concentration of 100% effluent. All test results shall be statistically analyzed according to the Appendix in EPA/600/4-91/003, or the most current edition.
- ii) For each set of tests conducted, a 24-hour composite sample of final effluent shall be collected and used per the sampling schedule discussed in EPA/600/4-91/003, Section 8. Two additional composite samples shall be collected on Day 3 (48 hours) and Day 5 (96 hours) of the test, according to the protocol, and used as daily renewal solutions.
- iii) If control mortality exceeds 20% for either species in any test, the test(s) for that species (including the control) shall be repeated. A test will be considered valid only if control mortality does not exceed 20% for either species. If, in any test, 100% mortality occurs prior to the end of the test, and control mortality is less than 20% at that time, that test (including the control) shall be terminated with the conclusion that the sample demonstrates unacceptable chronic toxicity. Additionally, tests must meet the acceptability criteria as defined in EPA/600/4-91/003, Sections 14.12 and 13.12, respectively.
- iv) The chronic toxicity monitoring tests specified above shall be conducted once every two months. These tests are referred to as "routine chronic" tests. Upon the completion of six consecutive valid routine tests which demonstrate that no chronic toxicity has been

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identified, the permittee may discontinue the chronic toxicity monitoring requirements. If unacceptable chronic toxicity is demonstrated after completion of six consecutive valid routine tests, the Department will reopen the permit to establish a chronic toxicity limit.

- v) The acute toxicity testing requirement, results derived from the chronic screen tests at 96 hours, shall be conducted once every two months until six consecutive valid routine tests, that do not indicate unacceptable acute toxicity, are completed. The facility may then apply to the Department for a change in scheduling frequency for toxicity monitoring. These tests are referred to as "routine acute" tests.
- vi) All results shall be recorded and submitted on the Discharge Monitoring Report (DMR) in the following manner:
  - a) Chronic tests:
    - 1) For the chronic test results, if the NOEC of a test species is less than 100% effluent, "<100%" should be entered on the DMR for that species. If the NOEC of a test species is greater than or equal to 100% effluent, ">100%" should be entered.
    - 2) Results from chronic tests shall be reported according to EPA/600/4-91/003, Section 10, Report Preparation (or the most current edition).
  - b) Acute tests:
    - 1) For the acute test results, if greater than or equal to 50% mortality occurs in either species in the chronic screen test at 96 hours, "<100%" shall be entered on the DMR for that species. If less than 50% mortality occurs in the chronic screen test at 96 hours, ">100%" shall be entered.
    - 2) Results from "routine" tests shall be reported according to EPA/600/4-90/027F, Section 12, Report Preparation (or the most current edition).
- vii) Results from all toxicity tests are to be submitted within 30 days to the following address:

Florida Department of Environmental Protection  
Northeast District Office  
Attn.: Toxicity Coordinator  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256.

#### B. CHRONIC TOXICITY ADDITIONAL TESTING REQUIREMENTS

- i) If chronic toxicity (NOEC <100% effluent) is found in a "routine" test, the permittee shall conduct three additional tests on any species indicating chronic toxicity.
- ii) Each additional test shall be conducted using a control (0% effluent) and a minimum of five dilutions: 100%, 50%, 25%, 12.5% and 6.25% effluent and a control (0% effluent). The dilution series may be modified in the second and third test to more accurately identify the toxicity, such that at least two dilutions above (not to exceed 100% effluent) and two dilutions below the target toxicity, and a control (0% effluent) are run.

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- iii) For each additional test, the sample collection requirements and the test acceptability criteria specified in '3.A.ii) & iii)' above must be met for the test to be considered valid. The first test shall begin within one week of the end of the "routine" tests, and shall be conducted weekly thereafter until three additional, valid tests are completed. The additional tests will be used to determine if the toxicity found in the "routine" test is still present.
- iv) Results from additional tests, required due to indication of chronic toxicity in the "routine" tests, shall be submitted in a single report prepared according to EPA/600/4-91/003, Section 10, or the most current edition and submitted within 30 days of completion of the additional, valid test. If chronic toxicity is indicated in any additional chronic tests, the permittee shall meet with the Department within 30 days of the report submittal to identify corrective actions necessary to remedy the observed chronic toxicity.

#### C. ACUTE TOXICITY ADDITIONAL TESTING REQUIREMENTS

- i) If unacceptable acute toxicity (greater than 20% mortality in any sample of 100% effluent in the routine chronic screen test at 96 hours or less) is determined in a routine test, the permittee shall conduct a minimum of three (3) valid additional 96 hour acute static renewal definitive tests on each species indicating toxicity.
- ii) All test species, procedures and quality assurance criteria used shall be in accordance with Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms, EPA/600/4-90/027F (4th edition), or the most current edition. The control water and the effluent used will be adjusted to an appropriate salinity using artificial sea salts as described in EPA/600/4-90/027F, Section 8, or the most current edition. A standard reference toxicant (SRT) quality assurance (QA) acute toxicity test shall be conducted concurrently or no greater than 30 days before the date of the routine test, with each species used in the toxicity tests. The results of all QA toxicity tests shall be submitted with the discharge monitoring report (DMR). Alternatively, if monthly QA/QC reference toxicant tests are conducted, these results must be submitted with the DMR. Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use.
- iii) The first test shall begin within 7 days of the failed routine test and be conducted weekly thereafter until three valid additional tests are complete. All additional acute definitive tests shall be conducted on four separate grab samples collected at evenly spaced 6 hour intervals over a 24 hour period and used in four separate tests in order to catch any peaks of toxicity and to account for daily variations in effluent quality. Results of the four tests are not to be combined or averaged, but are to be reported separately. All acute additional definitive tests shall be conducted with a control (0% effluent) and effluent concentrations of 6.25%, 12.5%, 25%, 50%, and 100%. For all tests conducted, a final effluent sample must be used. The dilution series may be modified in the second and third tests to more accurately identify the toxicity, such that at least two dilutions above and two dilutions below the target toxicity and a control (0% effluent) are run. The additional tests will be used to determine if the toxicity found in the routine test is still present.
- iv) If control mortality exceeds 10% for either species in any 96 hour test, the test(s) for that species (including the control) shall be repeated. A test will be considered valid only if control mortality does not exceed 10% for either species.
- v) Results for each additional test will include the determination of LC50 values with 95% confidence limits. Results from the additional tests, required due to unacceptable acute

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toxicity in the "routine" tests, shall be submitted in a single report prepared according to EPA/600/4-90/027F, Section 12, Report Preparation (or the most current edition) and submitted within thirty (30) days of completion of the valid additional tests. If the additional tests demonstrate the presence of unacceptable toxicity, the permittee will meet with the Department within 30 days of the report submittal to identify corrective actions necessary to remedy the unacceptable toxicity.

[Rules 62-302.530(62) and 620.620(3)(a), FAC]

## II. RESIDUALS MANAGEMENT REQUIREMENTS

### A. Basic Management Requirements

1. The method of residuals use or disposal by this facility is land application.
2. The wastewater treatment facility permittee shall be responsible for proper handling, use, and disposal of its residuals and will be held responsible for any disposal violations that occur unless the permittee can demonstrate that the treatment facility to which the residuals are transported has legally agreed in writing to accept responsibility for proper treatment and disposal. [62-640.300(3), 3-1-91]
3. Land application of residuals shall be in accordance with the conditions of this permit and the requirements of Chapter 62-640, F.A.C. [62-640, 3-1-91]
4. The domestic wastewater residuals for this facility are classified as Class B.
5. The permittee shall sample and analyze the residuals at least once every 3 months. All samples shall be representative and shall be taken after final treatment of the residuals but before use or disposal. Sampling and analysis shall be in accordance with the U.S. Environmental Protection Agency publication - POTW Sludge Sampling and Analysis Guidance Document, 1989. The following parameters shall be sampled and analyzed:

Parameter	Maximum Concentration	Maximum Cumulative Loading
Total Nitrogen	(Report only) % dry weight	Not applicable
Total Phosphorus	(Report only) % dry weight	Not applicable
Total Potassium	(Report only) % dry weight	Not applicable
Cadmium	100 mg/kg dry weight	4.4 pounds /acre*
Copper	3000 mg/kg dry weight	125 pounds/acre
Lead	1500 mg/kg dry weight	500 pounds/acre
Nickel	500 mg/kg dry weight	125 pounds/acre
Zinc	10,000 mg/kg dry weight	250 pounds/acre
pH	(Report only) standard units	Not applicable
Total Solids	(Report only) %	Not applicable

\* The annual application rate for cadmium shall not exceed 0.5 pounds/acre/year.

6. Florida water quality criteria and standards shall not be violated as a result of land application of residuals. [62-640.700(3)(c), 3-1-91]

### B. Agricultural Sites

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1. Class B residuals shall not be used on unrestricted access areas. [62-640.600(6)(b), 3-1-91]
2. Class B residuals application shall be in accordance with the Agricultural Use Plan approved by the Department for this facility. [62-640.300(1), 3-1-91]
3. Root crops, and fruits and vegetables which touch the soil and which are to be consumed raw shall not be grown on the application site for 18 months after the last application of Class B residuals. [62-640.600(6)(c), 3-1-91]
4. Fruits and vegetables which do not touch the soil and which are to be consumed raw shall not be harvested from the application site for 30 days following the last application of Class B residuals. Orchard tree crops, which do not come in contact with the residuals due to the application method, are exempted. This exemption does not apply to orchard tree crops which have fallen to the ground before harvesting. [62-640.600(6)(d), 3-1-91]
5. Pasture vegetation on the application site shall not be cut or used for grazing by livestock for 30 days following the last application of Class B residuals. [62-640.600(6)(e), 3-1-91]
6. The public shall be restricted from the application area for 12 months after the last application of Class B residuals. [62-640.600(6)(f), 3-1-91]
7. The wastewater treatment facility permittee shall apply for a minor permit revision on DEP Form 62-620.910(9) for new, modified, or expanded residuals land application sites. The facility's permit shall be revised to include the new or revised Agricultural Use Plan(s) prior to application of residuals to the new, modified, or expanded sites. The current Agricultural Use Plan identifies residuals land spreading on the following sites:

Site Name	Application Area (acres)	Site Location	
		City	County
Maguire Timber	50	St. Augustine	St. Johns
Higgenbotham	263	Jacksonville	Duval
Kennedy	150	Jacksonville	Duval
Cope Farm	134.4	Jacksonville	Duval

Temporary storage of residuals prior to land application at the Cope Farm site shall occur at the Duval Septic Tank Company, Inc. site located at 5340 Soutel Drive, Jacksonville, Duval County, Florida in accordance with the operation protocol received by the Department on February 13, 1996. Each storage tank shall be numbered and a separate log maintained for each tank. The duration of storage in any one tank shall not exceed one month. Records shall be maintained at the Duval Septic Tank Company site for on-site storage and made available for Department review upon request. A minimum of three years of records shall be maintained. The grounds surrounding the storage tanks shall also be maintained to allow for proper inspection by the Department. [62-620.330, 11-29-94; 62-640.700(3)(o), 3-1-91]

8. Annual residuals application rates shall not exceed the agronomic rates based on the nitrogen requirements of the site vegetation in accordance with the approved Agricultural Use Plan. [62-640.700(3)(d), 3-1-91]
9. Residuals shall be applied with techniques and equipment to assure uniform application over the site. [62-640.700(3)(n), 3-1-91]

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10. The pH of the domestic wastewater residuals soil mixture shall be 6.5 or greater at the time domestic wastewater residuals are applied. At a minimum, testing shall be done annually. [62-640.700(3)(h), 3-1-91]
11. The permittee shall maintain records of application areas and application rates on DEP Form 62-640.900(3) and shall have these records available for inspection upon request by the Department or the appropriate Local Environmental Program. These records shall include:
  - a. Date of application of the residuals,
  - b. Location of the residuals application site,
  - c. Amount of residuals applied or delivered,
  - d. Identification of specific areas of the site where residuals were applied and acreage of that area,
  - e. Method of incorporation of residuals (if any),
  - f. Water table level at time of application, and
  - g. Concentration of nitrogen and heavy metals in the residuals, percent solids, and date of last analysis.

The permittee shall provide: annual updates to the Agricultural Use Plan(s) to reflect any changes in domestic wastewater residuals characteristics or agricultural practices; summaries of the total residuals, nitrogen, and heavy metals applied on an annual basis; and annual summaries of the cumulative metals applied. Updates to the Agricultural Use Plan(s) and annual summaries, including copies of applicable analytical laboratory reports for the wastewater residuals analysis for that period, shall be submitted to the Department's Northeast District Office by February 15th of each year. [62-640.700(3)(e) and (p), 3-1-91]

### III. GROUND WATER MONITORING REQUIREMENTS

Section Three is not applicable to this facility

### IV. ADDITIONAL REUSE AND LAND APPLICATION REQUIREMENTS

Section Four is not applicable to this facility

### V. OPERATION AND MAINTENANCE REQUIREMENTS

#### 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 61E12-41, F.A.C. In accordance with Chapter 62-699, F.A.C., this facility is a Category I, Class B facility and, at a minimum, operators with appropriate certification must be on the site as follows:

A Class C or higher operator 8 hours/day for 7 days/week. The lead operator must be a Class B operator, or higher. The 8 hours/day attendance period is reduced from 16 hours/day because the on-site Supervisory Control and Data Acquisition (SCADA) system complies with the requirements of 62-699.311(3), FAC.

[62-699, 5-20-94] [62-620.630(3), 11-29-94][62-699.310, 5-20-92]



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2. The lead operator shall be on duty for one full shift each duty day. A certified operator shall be on-site and in charge of each required shift and for periods of required staffing time when the lead operator is not on-site. A certified operator shall be on call during periods the plant is unattended. [62-699.311(10), (5), and (1), 5-20-92]

#### Capacity Analysis Report and Operation and Maintenance Performance Report Requirements

3. An updated capacity analysis report shall be submitted to the Department annually by July 1 of each year. The updated capacity analysis report shall be prepared in accordance with Rule 62-600.405, F.A.C. [62-600.405(5), 6-8-93]
4. 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), 6-8-93]

#### Recordkeeping Requirements

5. The permittee shall maintain the following records and make them available for inspection At the plant site and at the permittee office.
  - a. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation and 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;
  - 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 the facility record drawings;
  - h. Copies of the licenses of the current certified operators; and
  - 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 certification 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; tests performed and samples taken; and major repairs made. 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.

[62-620.350, 11-29-94][61E12-41.010(1)(e), 11-02-93]

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## VI. COMPLIANCE SCHEDULES AND SELF-IMPOSED IMPROVEMENT SCHEDULES

The proposed plant improvements will not follow a compliance schedule or self-imposed improvement schedule.

## VII. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

Section Seven is not applicable to this facility

## VIII. OTHER SPECIFIC CONDITIONS

1. If the permittee wishes to continue operation of this wastewater facility after the expiration date of this permit, the permittee shall submit an application for renewal, using Department Forms 62-620.910(1) and (2), no later than one-hundred and eighty days (180) prior to the expiration date of this permit. [62-620.410(5), 11-26-94]
2. The facilities shall comply with any conditions that the Secretary of the Army (United States Army Corps of Engineers) considers necessary to ensure that navigation and anchorage will not be substantially impaired. [62-620.620(1)(q), 11-29-94]
3. 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. [62-600.410(8), 6-8-93]
4. The permittee shall not knowingly allow or cause 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. [62-604.130(3), 5-31-93]
5. Collection/transmission system overflows shall be reported to the Department in accordance with Permit Condition IX. 20. [62-604.550, 5-31-93] [62-620.610(20), 11-29-94]
6. 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 treatment plant discharges having temperatures above 40° C.

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[62-604.130(4), 5-31-93]

7. The treatment facility shall be enclosed with a fence or otherwise provided with features to discourage the entry of animals and unauthorized persons. [62-600.400(2)(b), 6-8-93]
8. 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. [62-7.540, 12-10-85]
9. The permittee shall provide adequate 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.

Adequate 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), 11-29-94]

10. In accordance with Jacksonville Environmental Protection Board (EPB) Rule 3.409C.2., the Master Plan for Regional Sewerage Development for the Holly Oaks Certified Area of Service shall be updated no less than once every two years. The Master Plan shall be submitted to the following address:

Jacksonville Regulatory and Environmental Services Department (RES D)  
Air and Water Quality Division (AWQD)  
421 West Church Street, Suite 422  
Jacksonville, Florida 32202-4111

#### 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), 11-29-94]
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), 11-29-94]
3. As provided in Subsection 403.087(5), 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), 11-29-94]

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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), 11-29-94]
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), 11-29-94]
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), 11-29-94]
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), 11-29-94]
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), 11-29-94]
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), 11-29-94]
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, Florida Statutes, or Rule 62-620.302, Florida Administrative Code. 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), 11-29-94]

PERMITTEE: United Water Florida  
FACILITY: Holly Oaks WWTF  
10797 Fort Caroline Road  
(904) 721-4600

PERMIT NUMBER : FL0023621  
ISSUE DATE : August 29, 1997  
EXPIRATION DATE: August 28, 2002  
APPLICATION NO. : 274746

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), 11-29-94]*
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), 11-29-94]*
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), 11-29-94]*
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), 11-29-94]*
15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. *[62-620.610(15), 11-29-94]*
16. The permittee shall apply for a revision to the Department permit in accordance with Rules 62-620.300, 62-620.420 or 62-620.450, F.A.C., as applicable, at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.300 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), 11-29-94]*
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), 11-29-94]*
18. Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246, Chapters 62-160 and 62-501, F.A.C., and 40 CFR 136, as appropriate.

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- 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).
- 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. Any laboratory test required by this permit for domestic wastewater facilities shall be performed by a laboratory that has been certified by the Department of Health and Rehabilitative Services (DHRS) under Chapter 10D41, F.A.C., to perform the test. On-site tests for dissolved oxygen, pH, and total chlorine residual shall be performed by a laboratory certified to test for those parameters or under the direction of an operator certified under Chapter 61E12-41, F.A.C.
- e. Under Chapter 62-160, F.A.C., sample collection shall be performed by following the protocols outlined in "DER Standard Operating Procedures for Laboratory Operations and Sample Collection Activities" (DER-QA-001/92). Alternatively, sample collection may be performed by an organization who has an approved Comprehensive Quality Assurance Plan (CompQAP) on file with the Department. The CompQAP shall be approved for collection of samples from the required matrices and for the required tests.

[62-620.610(18), 11-29-94]

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), 11-29-94]
20. The permittee shall report to the Department 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.

PERMITTEE: United Water Florida  
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- b. 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 shall waive the written report.

[62-620.610(20), 11-29-94]

- 21. The permittee shall report all instances of noncompliance not reported under Permit Conditions IX. 18. and 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), 11-29-94]

22. Bypass Provisions.

- a. 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. b. of this permit.
- b. 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.
- c. 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. a. 1. through 3. of this permit.
- d. 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. a. through c. of this permit.

[62-620.610(22), 11-29-94]

23. Upset Provisions

- a. 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;

PERMITTEE: United Water Florida  
FACILITY: Holly Oaks WWTF  
10797 Fort Caroline Road  
(904) 721-4600

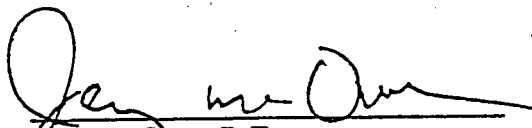
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3. The permittee submitted notice of the upset as required in Permit Condition IX. 20. of this permit; and
  4. The permittee complied with any remedial measures required under Permit Condition IX. 5. of this permit.
- b. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.
- c. 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), 11-29-94]

Executed in Jacksonville, Florida.

*OPW*  
*D*  
STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
Jerry M. Owen, P. E.  
Water Facilities Administrator

DATE: 8/29/97

FILING AND ACKNOWLEDGEMENT  
Filed on this date, pursuant to §120.52, Florida  
Statutes, with the designated Department Clerk,  
recognition of which is hereby acknowledged.  
*Ronald Smith*  
Clerk



**FACT SHEET  
FOR  
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DOMESTIC WASTEWATER FACILITY PERMIT**

Permit Number: FL0023621

Application Date: July 25, 1995

Additional Information: August 27, 1995 and October 30, 1995

Permit Writer: Jon Dinges

Public Notice Date: July 18, 1997

1. SYNOPSIS OF APPLICATION

a. Name and Address of Applicant

Munipalli Sambamurthi, Vice President-Manager  
United Water Florida  
1400 Millcoe Road  
Jacksonville, Florida 32225

For:

Holly Oaks WWTF  
10797 Fort Caroline Road  
Jacksonville, Florida 32225

b. Type of Facility

Domestic Wastewater Treatment Plant  
Privately-owned treatment works  
Standard Industrial Classification Code: 4952

c. Facility Capacity

Existing Design Capacity:	1.00 MGD AADF
Proposed Increase in Design Capacity:	0.00 MGD AADF
Proposed Total Design Capacity:	1.00 MGD AADF

d. Description of Facilities

To operate an existing 1.0 MGD annual average daily flow (AADF) permitted capacity conventional activated sludge WWTF consisting of influent screening, comminution, a 42,045 cubic foot aeration basin, a 16,980 cubic foot secondary clarifier that is 10 feet deep, and ultraviolet disinfection. The disinfected effluent flows to a 1.75 acre on-site pond prior to discharge. Wastewater treatment plant residuals are stabilized by aerobic digestion, thickened and temporarily stored on site prior to hauling to a land application site.

e. Applicant's Effluent Disposal and Reuse Location(s)

Surface Water Discharge:

Receiving Waters:

Outfall D001:  
 Cowhead Creek to Mill Cove (St. Johns River, Class III Waters)  
 Latitude: 30° 21' 22" N  
 Longitude: 81° 31' 23" W

See Attachment 1 for a map showing the location of the receiving waters and discharge location.

f. Description of Effluent Discharges (as reported by applicant)

Outfall Serial Number D001:  
 Annual Average Daily Flow (MGD): 0.64  
 pH Range (Standard Units): 6.8 to 7.5

Pollutants which are present in significant quantities or which are subject to effluent or reclaimed water limitations are as follows:

Parameters	Reported Data		
	Annual Avg.	Lowest Monthly Avg.	Highest Monthly Avg.
CBOD <sub>5</sub> , mg/L	4	2	7
TSS, mg/L	8	4	20
TKN, mg/L	1.76	0.98	3.29
Fecal Coliform, #/100 ml	—	—	58
TRC (for dechlorination), mg/L	0.01	0.01	0.01

2. PROPOSED FINAL EFFLUENT LIMITATIONS

Outfall Serial Number D001:

Parameters	Effluent or Reclaimed Water Limitations				
	Maximum/Minimum	Annual Average	Monthly Average	Weekly Average	Single Sample
Flow, MGD	Maximum	1.00			
CBOD <sub>5</sub> , mg/L	Maximum	6.0	7.5	9.0	12
TSS, mg/L	Maximum	20.0	30.0	45.0	60
Percent Removal, TSS	Minimum		85		
Total Ammonia, mg/L	Maximum	2.0	2.5	3.0	4.0
Fecal Coliform, #/100 ml	Maximum	200			800
pH, std. units	Range	6.0 to 8.5			
Whole Effluent Toxicity		See item 3 below			

3. DISCUSSION OF WHOLE EFFLUENT TOXICITY TESTING REQUIREMENTS:

The Department is requiring that marine species be used in the whole effluent toxicity testing because the receiving stream is tidally influenced immediately downstream of the point of discharge. Depending on the tide stage, the

influence of marine waters on the receiving stream varies from approximately 50 feet downstream of the point of discharge to several feet upstream of the point of discharge. Using marine species for toxicity testing will give a better representation of the impacts on the receiving waters.

The whole effluent toxicity requirement is being revised from a freshwater chronic limit to marine waters acute limit. This does not raise backsliding concerns as a result of significant changes that have taken place at the facility and new information regarding the change in applicable species. The changes include the following:

- a) The discharge point has been reclassified from freshwater to marine necessitating the use of different test species.
- b) Twenty-six months of toxicity testing has established that there is no chronic toxicity to freshwater organisms from the facility discharge, thus no reasonable potential for toxicity exists.
- c) If it becomes necessary to establish a chronic whole effluent toxicity limit, the permittee may request a mixing zone as allowed under 62-4.244 FAC. If a mixing zone is granted, the Department will consider the available dilution in the receiving stream.
- d) There is no marine toxicity data, which is necessary in order to conduct a reasonable potential analysis.
- e) The chlorination system, a possible source of effluent toxicity, has been replaced with an ultraviolet disinfection system.

As the permit must be modified to reflect the correct use designation, and a final decision regarding the need for a chronic limitation has not been reached, the change in toxicity testing requirements does not constitute backsliding under federal rules.

4. BASIS FOR EFFLUENT AND RECLAIMED WATER LIMITS AND MONITORING REQUIREMENTS (INCLUDING INFLUENT MONITORING REQUIREMENTS)

See the table below for the rationale for the Parts I.A, B, & C provisions.

Outfall D001:

Parameter		Basis for Limit/Monitoring Requirement
Flow	Annual ADF	62-600.400(3)(b) FAC
CBOD <sub>5</sub>	Annual Average	62-600.430(1) & .740(1)(b)2.a. FAC
	Monthly Average	62-600.430(1) & .740(1)(b)2.b. FAC
	Weekly Average	62-600.430(1) & .740(1)(b)2.c. FAC
	Single Sample Max.	62-600.430(1) & .740(1)(b)2.d. FAC
TSS	Annual Average	62-600.420(1)(a) & .740(1)(b)1.a. FAC
	Monthly Average	62-600.740(1)(b)1.b. FAC
	Weekly Average	62-600.740(1)(b)1.c. FAC
	Single Sample Max.	62-600.740(1)(b)1.d. FAC
TSS, Percent Removal	Monthly Average Min.	40 CFR 133.102(b)(3)
Total Ammonia	Annual Average	62-600.430(1) & .740(1)(b)2.a. FAC
	Monthly Average	62-600.430(1) & .740(1)(b)2.b. FAC
	Weekly Average	62-600.430(1) & .740(1)(b)2.c. FAC
	Single Sample Max.	62-600.430(1) & .740(1)(b)2.d. FAC
Fecal Coliform	Annual Average	62-600.440(4)(c)1. FAC
	Monthly Geo. Mean	62-600.440(4)(c)2. FAC
	Monthly Percentile	62-600.440(4)(c)3. FAC

	Single Sample Max.	62-600.440(4)(c)4. FAC
pH	Minimum and Maximum	62-302.530 FAC
Acute Whole Effluent Toxicity	Single Sample Max.	62-4.244(3)(a) FAC
Chronic Whole Effluent Toxicity	Single Sample Max.	62-302.530(62) and 620.620(3)(a) FAC
Nutrients	Report	62-302.530(48)(a) & (b) FAC
Monitoring Frequency and Sample Type	All Parameters	62-601 FAC & 62-699 FAC and/or BPJ of permit writer
Sampling Location	All Parameters	62-601 FAC and/or BPJ of permit writer

The following were used as the basis of the permit limitations/conditions:

A. FAC refers to various portions of the Florida Administrative Code.

The effective dates of FAC Rule Chapters cited in the table are as follows:

<u>Chapter</u>	<u>Effective Date</u>
62-4	02-02-94
62-302	02-27-95
62-600	06-08-93
62-601	05-31-93
62-620	11-29-94
62-699	05-20-92

B. CFR refers to various portions of the Code of Federal Regulations, Title 40

C. BPJ refers to Best Professional Judgment

Other Limitations and Monitoring Requirements:

Parameter		Basis for Limit/Monitoring Requirement
CBOD <sub>5</sub> (Influent)	Monitor & Report	62-601.300(1) FAC
TSS (Influent)	Monitor & Report	62-601.300(1) FAC

The following were used as the basis of the permit conditions:

A. FAC refers to various portions of the Florida Administrative Code

The effective dates of FAC Rule Chapters cited in the table are as follows:

Chapter	Effective Date
62-600	06-08-93
62-601	05-31-93

Notes on effluent limitations and monitoring requirements:

- a. An ultimate oxygen demand (UOD) limit of 150 lb/day has been established for the Holly Oaks discharge. The UOD limit is not included in the permit because if the facility does not exceed the annual average flow, ammonia, and CBOD<sub>5</sub> limits, the UOD limit will not be exceeded. The ammonia and CBOD<sub>5</sub> limits were calculated based on the UOD limit.
- b. Percent removal requirements for CBOD<sub>5</sub> were not included because they apply only to technology based effluent limitations (TBELs). The CBOD<sub>5</sub> limit is based on a water quality based effluent limitation (WQBEL). See Rules 62-600.420 and 62-600.430 FAC.

5. RESIDUALS MANAGEMENT

Class of residuals stabilization to be provided: Class B

Proposed method of residuals use or disposal: Land application

The current Agricultural Use Plan for this facility identifies residuals land application on the following sites:

Site Name	Application Area (acres)	Site Location	
		City	County
Maguire Timber	50	St. Augustine	St. Johns
Higgenbotham	263	Jacksonville	Duval
Kennedy	150	Jacksonville	Duval
Cope Farm	134.4	Jacksonville	Duval

See the table below for the rationale for the Part II.A. residuals limits and monitoring requirements.

Parameter		Basis for Limit/Monitoring Requirement
Total Nitrogen, % dry weight	Report	62-640.700(1)(b) FAC
Total Phosphorus, % dry weight	Report	62-640.700(1)(b) FAC
Total Potassium, % dry weight	Report	62-640.700(1)(b) FAC
Cadmium, mg/kg dry weight	Maximum	62-640.700(2) FAC
Copper, mg/kg dry weight	Maximum	62-640.700(2) FAC

Lead, mg/kg dry weight	Maximum	62-640.700(2) FAC
Nickel, mg/kg dry weight	Maximum	62-640.700(2) FAC
Zinc, mg/kg dry weight	Maximum	62-640.700(2) FAC
pH, std. units	Report	62-640.700(1)(b) FAC
Total Solids, %	Report	62-640.700(1)(b) FAC
Nitrogen, lb/ac/yr.	Maximum	62-640.700(3)(d) FAC
Cadmium, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Copper, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Lead, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Nickel, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Zinc, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Monitoring Frequency	All Parameters	62-640.700(1)(a) FAC

The following was used as the basis of the permit limitations/conditions:

A. FAC refers to various portions of the Florida Administrative Code

The effective date of the FAC Rule Chapter cited in the table is as follows:

Chapter	Effective Date
62-640	03-01-91

6. INDUSTRIAL PRETREATMENT REQUIREMENTS

There are no industrial pretreatment requirements for this facility.

7. REQUESTED VARIANCES OR ALTERNATIVES TO REQUIRED STANDARDS

There were no requests for variances or alternatives to the required standards.

8. SELF-IMPOSED IMPROVEMENT SCHEDULE AND EFFECTIVE DATE OF PROPOSED EFFLUENT LIMITATIONS:

The proposed plant improvements will not follow a compliance schedule or self-imposed improvement schedule.

9. DISCUSSION OF PREVIOUS PERMIT EFFLUENT LIMITATIONS

The previous state wastewater facility permit (DO16-229843) contained the following effluent limits:

Parameters	Effluent or Reclaimed Water Limitations				
	Maximum/Minimum	Annual Average	Monthly Average	Weekly Average	Single Sample
Flow, MGD	Maximum	1.00			
CBOD <sub>5</sub> , mg/L	Maximum	6.0	7.5	9.0	12
TSS, mg/L	Maximum	20	30	45	60

TKN, mg/L	Maximum	2.0	2.5	3.0	4.0
Fecal Coliform, #/100 ml	Maximum	< 200			< 800
TRC (for disinfection), mg/L	Minimum				0.05
TRC (for dechlorination), mg/L	Maximum				0.01
pH, std. units	Range	6.0 to 8.5			
Whole Effluent Toxicity	See discussion below.				

Whole effluent toxicity testing requirements in permit DO16-229843 were 96-hour acute static tests conducted on grab samples of 0% and 100% final dechlorinated effluent. The test organisms were Ceriodaphnia dubia and Notropis leedsii.

10. NEW OR EXPANDED DISCHARGES TO SURFACE WATERS: ANTIDEGRADATION REQUIREMENTS

There are no new or expanded discharges to surface waters in the permit.

11. EFFECTS OF SURFACE WATER DISCHARGE ON THREATENED OR ENDANGERED SPECIES

The Department does not anticipate adverse impacts on any threatened or endangered species as a result of permit renewal.

12. DEP CONTACT

Additional information concerning the permit may be obtained during normal business hours from:

Florida Department of Environmental Protection  
 Northeast District Office  
 7825 Baymeadows Way, Suite B200  
 Jacksonville, Florida 32256-7577

Phone Number - (904) 448-4330  
 FAX Number - (904) 448-4366

13. 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 12.

14. SCHEDULE FOR PERMIT ISSUANCE

Draft permit to Applicant and EPA .....June 13, 1997  
 Public Comment Period .....Beginning/Ending: July 18, 1997 / August 18, 1997  
 Notice of Agency Action .....August 29, 1997  
 Final Department Action..... August 29, 1997

15. ADMINISTRATIVE HEARING

A person whose substantial interests are affected by the Department's 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 the 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.



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

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

PERMITTEE NAME: United Water Florida  
 MAILING ADDRESS: 1400 Millcoe Road  
 Jacksonville, FL 32225

PERMIT NUMBER: FL0023621  
 MONITORING PERIOD: From:  To:   
 LIMIT: FINAL  
 CLASS SIZE: Major  
 FACILITY ID: FL0023621  
 GMS ID NO.: 3116P00901  
 DISCHARGE POINT NUMBER: D001  
 PLANT SIZE/TREATMENT TYPE: IIB

REPORT: Monthly  
 GROUP: Domestic  
 WAFR SITE NO.: 9100  
 GMS TEST SITE NO.: 3116X12395

FACILITY: Holly Oaks WWTF  
 LOCATION: 10797 Fort Caroline Road  
 Jacksonville, FL 32225  
 COUNTY: Duval

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	Sample Measurement							
STORET No. 50050 Mon. Site No. EFF-1	Y Permit Requirement	1.0 (Ann. Avg.)	MGD				Continuous	Meter / Totalizer
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	Sample Measurement							
STORET No. 50050 Mon. Site No. EFF-1	1 Permit Requirement	REPORT (Mo. Avg.)	MGD				Continuous	Meter / Totalizer
Fecal Coliform Bacteria	Sample Measurement							
STORET No. 31616 Mon. Site No. EFF-1	Y Permit Requirement			200 (Ann. Avg.)	#/100ml		Weekly	Grab
Fecal Coliform Bacteria	Sample Measurement							
STORET No. 31616 Mon. Site No. EFF-1	1 Permit Requirement			Report (Mo. Geo. Mean)	600 (Max.)	#/100ml	Weekly	Grab
Ammonia, Total as N	Sample Measurement							
STORET No. 00610 Mon. Site No. EFF-1	Y Permit Requirement			2.0 (Ann. Avg.)	mg/L as N		Weekly	16-hour FPC
Ammonia, Total as N	Sample Measurement							
STORET No. 00610 Mon. Site No. EFF-1	1 Permit Requirement			2.5 (Mo. Avg.)	4.0 (Max.)	mg/L as N	Weekly	16-hour FPC

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (YY/MM/DD)

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

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

FACILITY NAME: Holly Oaks WWTF

PERMIT NUMBER: FL0023621

DISCHARGE POINT NUMBER: D001

WAFR SITE No.: 9100

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
TSS	Sample Measurement							
STORET No. 00530 Mon. Site No. EFF-1	Y Permit Requirement			20 (An. Avg.)	mg/L		Weekly	16-hour PPC
TSS	Sample Measurement							
STORET No. 00530 Mon. Site No. EFF-1	I Permit Requirement			30 (Mo. Avg.)	mg/L		Weekly	16-hour PPC
CBOD5	Sample Measurement							
STORET No. 80082 Mon. Site No. EFF-1	Y Permit Requirement			6.0 (An. Avg.)	mg/L		Weekly	16-hour PPC
CBOD5	Sample Measurement							
STORET No. 80082 Mon. Site No. EFF-1	I Permit Requirement			7.5 (Mo. Avg.)	mg/L		Weekly	16-hour PPC
pH	Sample Measurement							
STORET No. 00400 Mon. Site No. EFF-1	I Permit Requirement			6.0 (Min.)	8.5 (Max.)	S.U.	Continuous	On line pH meter or hourly grab
TSS	Sample Measurement							
STORET No. 00530 Mon. Site No. INF-1	G Permit Requirement			Report (Mo. Avg.)	mg/L		Weekly	16-hour PPC
CBOD5	Sample Measurement							
STORET No. 80082 Mon. Site No. INF-1	G Permit Requirement			Report (Mo. Avg.)	mg/L		Weekly	16-hour PPC
Organic Nitrogen, as N	Sample Measurement							
STORET No. 00605 Mon. Site No. EFF-1	I Permit Requirement			Report (Mo. Avg.)	mg/L		Weekly	16-hour PPC

G = Influent, I = Effluent, Y = Annual Average

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

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

ERMITTEE NAME: United Water Florida  
 MAILING ADDRESS: 1400 Millcoe Road  
 Jacksonville, FL 32225

PERMIT NUMBER: FL0023621  
 MONITORING PERIOD : From: [ ] To: [ ]  
 LIMIT: Final  
 CLASS SIZE: Major  
 FACILITY ID: FL0023621  
 GMS ID NO.: 3116P00901  
 DISCHARGE POINT NUMBER: D001  
 PLANT SIZE/TREATMENT TYPE: IIB

To: [ ]  
 REPORT: Quarterly  
 GROUP: Domestic  
 WAFR SITE NO.: 9100  
 GMS TEST SITE NO.: 3116X12395

FACILITY: Holly Oaks WWTF  
 LOCATION: 10797 Fort Caroline Road  
 Jacksonville, FL 32225  
 COUNTY: Duval

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Phosphate, Ortho as PO4	Sample Measurement							
STORET No. 00660 Mon. Site No. EFF-1	Permit Requirement			Report (Max.)	mg/L as P		Quarterly	16-hour FPC
Phosphorus, Total as P	Sample Measurement							
STORET No. 00665 Mon. Site No. EFF-1	Permit Requirement			Report (Max.)	mg/L as P		Quarterly	16-hour FPC
Nitrogen, Total as N	Sample Measurement							
STORET No. 00600 Mon. Site No. EFF-1	Permit Requirement			Report (Max.)	mg/L as N		Quarterly	16-hour FPC
NO2+NO3, Total 1 DET. as N	Sample Measurement							
STORET No. 00630 Mon. Site No. EFF-1	Permit Requirement			Report (Max.)	mg/L as N		Quarterly	16-hour FPC
	Sample Measurement							
	Permit Requirement							
	Sample Measurement							
	Permit Requirement							

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (YY/MM/DD)

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

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

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

PERMITTEE NAME: United Water Florida  
 MAILING ADDRESS: 1400 Millcoe Road  
 Jacksonville, FL 32225

PERMIT NUMBER: FL0023621  
 MONITORING PERIOD: From:  To:   
 LIMIT: FINAL  
 CLASS SIZE: Major  
 FACILITY ID: FL0023621  
 GMS ID NO.: 3116P00901  
 DISCHARGE POINT NUMBER: D001  
 PLANT SIZE/TREATMENT TYPE: IIB

REPORT: Toxicity  
 GROUP: Domestic  
 WAFR SITE NO.: 9100  
 GMS TEST SITE NO.: 3116X12395

FACILITY: Holly Oaks WWTF  
 LOCATION: 10797 Fort Caroline Road  
 Jacksonville, FL 32225  
 COUNTY: Duval

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
NOEC Surv., Growth, Fecundity Test Mysidopsis bahia -- Routine	Sample Measurement							
STORET No. TBP3E P Mon. Site No. EFF-1	Permit Requirement			100 (Min.)	percent		Bi-monthly	24 hour composite
NOEC Surv., Growth, Fecundity Test Mysidopsis bahia -- Additional	Sample Measurement							
STORET No. TBP3E Q Mon. Site No. EFF-1	Permit Requirement			100 (Min.)	percent		as needed	24 hour composite
NOEC Surv., Growth, Fecundity Test Mysidopsis bahia -- Additional	Sample Measurement							
STORET No. TBP3E R Mon. Site No. EFF-1	Permit Requirement			100 (Min.)	percent		as needed	24 hour composite
NOEC Surv., Growth, Fecundity Test Mysidopsis bahia -- Additional	Sample Measurement							
STORET No. TBP3E S Mon. Site No. EFF-1	Permit Requirement			100 (Min.)	percent		as needed	24 hour composite
NOEC Larv. Surv. and Growth Test Menidia beryllina -- Routine	Sample Measurement							
STORET No. TBP6B P Mon. Site No. EFF-1	Permit Requirement			100 (Min.)	percent		Bi-monthly	24 hour composite
NOEC Larv. Surv. and Growth Test Menidia beryllina -- Additional	Sample Measurement							
STORET No. TBP6B Q Mon. Site No. EFF-1	Permit Requirement			100 (Min.)	percent		as needed	24 hour composite
NOEC Larv. Surv. and Growth Test Menidia beryllina -- Additional	Sample Measurement							
STORET No. TBP6B R Mon. Site No. EFF-1	Permit Requirement			100 (Min.)	percent		as needed	24 hour composite
NOEC Larv. Surv. and Growth Test Menidia beryllina -- Additional	Sample Measurement							
STORET No. TBP6B S Mon. Site No. EFF-1	Permit Requirement			100 (Min.)	percent		as needed	24 hour composite

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (YY/MM/DD)

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

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

FACILITY NAME: Holly Oaks WWTF

PERMIT NUMBER: FL0023621

DISCHARGE POINT NUMBER: D001

WAFR SITE No.: 9100

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
LC50 96 HOUR STAT. RENEWAL Mysidopsis bahia -- Routine	Sample Measurement							
STORET No. TAN3E P Mon. Site No. EFF-1	Permit Requirement			100 (Min.)	percent		Bi-monthly	calculated
LC50 96 HOUR STAT. RENEWAL Mysidopsis bahia -- Additional	Sample Measurement							
STORET No. TAN3E Q Mon. Site No. EFF-1	Permit Requirement			100 (Min.)	percent		as needed	24 hour composite
LC50 96 HOUR STAT. RENEWAL Mysidopsis bahia -- Additional	Sample Measurement							
STORET No. TAN3E R Mon. Site No. EFF-1	Permit Requirement			100 (Min.)	percent		as needed	24 hour composite
LC50 96 HOUR STAT. RENEWAL Mysidopsis bahia -- Additional	Sample Measurement							
STORET No. TAN3E S Mon. Site No. EFF-1	Permit Requirement			100 (Min.)	percent		as needed	24 hour composite
LC50 96 HOUR STAT. RENEWAL Menidia beryllina -- Routine	Sample Measurement							
STORET No. TAN6B P Mon. Site No. EFF-1	Permit Requirement			100 (Min.)	percent		Bi-monthly	calculated
LC50 96 HOUR STAT. RENEWAL Menidia beryllina -- Additional	Sample Measurement							
STORET No. TAN6B Q Mon. Site No. EFF-1	Permit Requirement			100 (Min.)	percent		as needed	24 hour composite
LC50 96 HOUR STAT. RENEWAL Menidia beryllina -- Additional	Sample Measurement							
STORET No. TAN6B R Mon. Site No. EFF-1	Permit Requirement			100 (Min.)	percent		as needed	24 hour composite
LC50 96 HOUR STAT. RENEWAL Menidia beryllina -- Additional	Sample Measurement							
STORET No. TAN6B S Mon. Site No. EFF-1	Permit Requirement			100 (Min.)	percent		as needed	24 hour composite

If more tests are required, attach additional pages.

**DAILY SAMPLE RESULTS - PART B**

Facility ID: FL0023621

Month/Year:

Days of the Months	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30/31
Flow (MGD)																														
CBOD5 Influent (mg/l)																														
TSS Influent (mg/l)																														
CBOD5 Effluent (mg/l)																														
TSS Effluent (mg/l)																														
pH Effluent (s.u.)																														
TKN Effluent (mg/l)																														
NH3 - N Effluent (mg/l)																														
Organic N Effluent (mg/l)																														
Nitrate Effluent (mg/l)																														
Ortho-P Effluent (mg/l)																														
Total P Effluent (mg/l)																														
Fecal Coliform (#/100ml)																														

**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: _____

Type of Effluent Disposal or Reclaimed Water Reuse: \_\_\_\_\_  
 Limited Wed Weather Discharge Activated: Yes \_\_\_ No \_\_\_ Not Applicable \_\_\_ If yes, cumulative days of wet weather discharge: \_\_\_\_\_  
 \*Attach additional sheets necessary to list all certified operators necessary for required operations.



# Department of Environmental Protection

CRIFFIS  
MURLEY  
FRINT

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

## NOTICE OF PERMIT REVISION

CERTIFIED MAIL - RETURN RECEIPT

January 14, 1998

**RECEIVED**

JAN 22 1998

United Water Florida, Inc.  
Mr. Munipalli Sambamurthi  
1400 Milcoe Road  
Jacksonville, FL 32225

Duval County -- Domestic Wastewater  
Jacksonville Heights WWTP

**UNITED WATER FLORIDA**

Enclosed is a revision to Permit Number FL0023671 to operate a 2.50 MGD activated sludge wastewater treatment plant with effluent disposal to a ditch that flows into Fishing Creek issued under section(s) 403.087 of the Florida Statutes.

The revision includes a modification of the Discharge Monitoring Report (DMR) and certain pages of the permit. The modified DMR will replace the form issued with the permit on November 9, 1993. The pages of the permit are being modified to reflect changes in Department computer codes. There are no changes to effluent limits or monitoring requirements. Attached are the modified DMR and corrected pages of the permit. All other portions of the permit remain in effect and are fully enforceable.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative hearing in accordance with sections 120.569 and 120.57 of the Florida Statutes.

The petition must contain the information set forth below and must be filed (received) in the Department's Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any other person must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. A petitioner must 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 within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes, or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-5.207 of the Florida Administrative Code.

A petition must contain the following information:

- (a) The name, address, and telephone number of each petitioner, the Department's permit identification number and the county in which the subject matter or activity is located;
- (b) a statement of how and when each petitioner received notice of the Department's action;
- (c) a statement of how each petitioner's substantial interests are affected by the department's action;
- (d) a statement of the material facts disputed by the petitioner, if any;

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

Mr. Munipalli Sambamurthi  
Jacksonville Heights WWTP  
Page 2

- (e) a statement of facts that the petitioner contends warrant reversal or modification of the Department's action;
- (f) a statement of which rules or statutes the petitioner contends require reversal or modification of the Department's action; and
- (g) and a statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take.

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 of intent. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

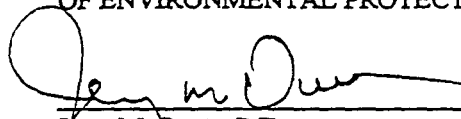
Mediation under section 120.573 of the Florida Statutes is not available for this proceeding.

This action is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above. Upon the timely filing of a petition this order will not be effective until further order of the Department.

Any party to the order has the right to seek judicial review of the order under section 120.68 of the Florida Statutes, by the filing of a notice of appeal under rule 9.110 of the 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 the final order is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

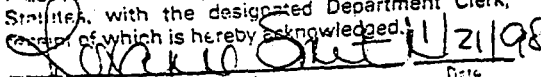
  
Jerry M. Owen, P.E.  
Water Facilities Administrator

JMO/RJZ *by JAS*

cc: Elsa Potts, FDEP, Tallahassee  
Bruce Boler, FDEP, Tallahassee

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT REVISION and all copies were mailed by certified mail before the close of business on January 21, 1998 to the listed persons.

FILING AND ACKNOWLEDGEMENT  
FILED on this date, pursuant to S120.52, Florida  
Statutes, with the designated Department Clerk,  
of which is hereby acknowledged.  
  
Clerk Date



Permittee:  
 United Water Florida, Inc.  
 Jacksonville Heights WWTF

Permit Number: FL0023071  
 Issuance Date: November 9, 1993  
 Expiration Date: April 1, 1998  
 Revision Date: January 12, 1996

**I. Effluent Limitations and Monitoring Requirements**

**A. Final Surface Water Discharge Limits**

1. During the period beginning on the issuance date and lasting through expiration date of this permit, the permittee is authorized to discharge effluent from Outfall D001 to the unnamed ditch to Fishing Creek. Such discharge shall be limited and monitored by the permittee as specified below:  
 [62-600, 6-8-93] [62-601, 5-31-93] [62-650, 11-27-89] [62-302, 8-8-94] [62-610.860, 4-2-90]

Parameter	Units	Max/Min	Effluent Limitations				Monitoring Requirements				Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number		
Flow	mgd	Maximum	2.5	-	-	-	Continuous	Meter or Instrument	EFF-1	See I.A.4.	
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	8	8	12	16	Weekly	8-hour flow-composite	EFF-1		
Total Suspended Solids	mg/L	Maximum	20	30	45	60	Weekly	8-hour flow-composite	EFF-1		
Fecal Coliform Bacteria	See Permit Condition I. A.5.						Weekly	Grab	EFF-1	See I. A.12.	
pH	std. units	Range	-	-	-	6.0 to 8.5	Continuous	Grab	EFF-1	See I.A.3.	
Total Ammonia, as N	mg/L	Maximum	1.6	2.0	2.4	3.2	Weekly	8-hour flow-composite	EFF-1	See I.A.10	
Temperature	°C	Range	-	Report	-	Report	Weekly	Meter or Instrument	EFF-1	See I.A.10	
Dissolved Oxygen	mg/l	Minimum	-	-	-	6.0	Daily, 7/week	Meter or Instrument	EFF-1		
Whole Effluent Toxicity	See Permit Condition I. A.6.										
Nutrient Monitoring	See Permit Condition I.A.9										
Stream Monitoring	See Permit Condition I.A.11										

Permittee:  
 United Water Florida, Inc.  
 Jacksonville Heights WWTF

Permit Number: FL0023671  
 Issuance Date: November 9, 1993  
 Expiration Date: April 1, 1998  
 Revision Date: January 12, 1996

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

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the treatment facility shall be limited and monitored by the permittee as specified below:  
 [17-601.300(1), 5-31-93]

Parameter	Units	Max/Min	Limitations				Monitoring Requirements			Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	-	-	-	-	-	Weekly	8-hour composite	INF-1	See I.B.3
Total Suspended Solids	mg/L	-	-	-	-	-	Weekly	8-hour composite	INF-1	See I.B.3

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

Monitoring Location Site Number	Description of Monitoring Location
INF-1	Influent pumping station. Influent sampling shall be conducted such that the effects of filter backwash dilution are minimized.

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), 5-31-93]
4. All flow measuring device(s) shall be calibrated at least annually. [62-601.500(6) and 62-601.200(17), 5-31-93]
5. Parameters which must be monitored as a result of a surface water discharge shall be analyzed using a sufficiently sensitive method in accordance with 40 CFR Part 136. [62-620.610(18), 11-29-94]
6. 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), 5-31-93]

DISCHARGE MONITORING REPORT - PART A (Continued)

Parameter	Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Fecal Coliform Bacteria	Sample						
STORET No. 11615	Ferri		200	(Ann. Avg.)		Weekly	Grab
Mon. Site No. EFF-1	Measurement						
Fecal Coliform Bacteria	Sample						
STORET No. 11613	Ferri		800	(Max.)		Weekly	Grab
Mon. Site No. EFF-1	Measurement						
Dissolved Oxygen	Sample						
STORET No. 00300	Ferri		6.0	(Min.)		Daily, 7/week	Grab
Mon. Site No. EFF-1	Measurement						
Temperature of Effluent	Sample						
STORET No. 00010	Ferri			Report		Daily, 7/week	Grab
Mon. Site No. EFF-1	Measurement						
AMMONIA, TOTAL AS N	Sample						
STORET No. 00610	Ferri		1.6	(Ann. Avg.)		Weekly	8-hour FPG
Mon. Site No. EFF-1	Measurement						
AMMONIA, TOTAL AS N	Sample						
STORET No. 00610	Ferri		2.0	(Max.)		Weekly	8-hour FPG
Mon. Site No. EFF-1	Measurement						
CBOD5 - Influent	Sample						
STORET No. 80072	Ferri			Report		Weekly	8-hour FPG
Mon. Site No. INF-1	Measurement						
TSS - Influent	Sample						
STORET No. 00530	Ferri			Report		Weekly	8-hour FPG
Mon. Site No. INF-1	Measurement						

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

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

PERMITTEE NAME: United Water Florida, Inc.  
 MAILING ADDRESS: Mr. Muniapalli Sambamurthi, Vice President, Manager  
 1400 Millcoe Road  
 Jacksonville, Florida 32225

FACILITY: Jacksonville Heights WWTF  
 LOCATION: 5937 Tampico Road  
 Jacksonville, FL 32244  
 COUNTY: Duval

PERMIT NUMBER: FL0023671  
 MONITORING PERIOD From: \_\_\_\_\_  
 LIMIT: Final  
 CLASS SIZE: Major

FACILITY ID: FL0023671  
 GMS ID NO.: 3116P01970  
 DISCHARGE POINT NUMBER: D001  
 PLANT SIZE/TREATMENT TYPE: IIB

To: \_\_\_\_\_  
 REPORT: Quarterly  
 GROUP: Domestic  
 WAFR SITE NO.: 9182  
 GMS TEST SITE NO.: 3116X14060

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
NITROGEN, TOTAL AS N	Sample Measurement							
STORET No. D0600 1 Mon. Site No. EFF-1	Permit Measurement			Report (Max)	mg/L		Once/quarter	8-hour FPC
ORGANIC NITROGEN, TOTAL AS N	Sample Measurement							
STORET No. D0603 1 Mon. Site No. EFF-1	Permit Measurement			Report (Max)	mg/L		Once/quarter	8-hour FPC
NITROGEN, NITRITE+NITRATE AS N	Sample Measurement							
STORET No. D0610 1 Mon. Site No. EFF-1	Permit Measurement			Report (Max)	mg/L		Once/quarter	8-hour FPC
UNIONIZED AMMONIA, TOTAL AS N	Sample Measurement							
STORET No. D0619 1 Mon. Site No. EFF-1	Permit Measurement			Report (Max)	mg/L		Once/quarter	Calculated
PHOSPHOROUS, TOTAL AS P	Sample Measurement							
STORET No. D0665 1 Mon. Site No. EFF-1	Permit Measurement			Report (Max)	mg/L		Once/quarter	8-hour FPC
PHOSPHOROUS, ORTHO- AS P	Sample Measurement							
STORET No. 70507 1 Mon. Site No. EFF-1	Permit Measurement			Report (Max)	mg/L		Once/quarter	8-hour FPC

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (YY/MM/DD)

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

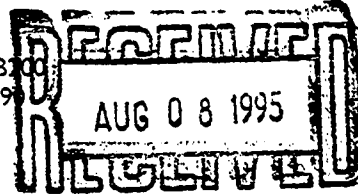


2

# Department of Environmental Protection

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B100  
Jacksonville, Florida 32256-7590



Virginia B. Wetherell  
Secretary

## NOTICE OF PERMIT REVISION UNITED WATER FLORIDA

CERTIFIED MAIL  
August 3, 1995

In the Matter of an Application  
for Permit by:

DEP File No. 274397

Mr. Phillip Heil, Vice President  
Jacksonville Suburban Utilities Corporation  
644 Cesery Boulevard, Suite 108  
Jacksonville, FL 32211

Dear Mr. Heil:

Duval County- Domestic Waste  
Jacksonville Heights WWTP

Enclosed is a revision to Permit Number DO16-222480 to modify approved residuals land application sites issued pursuant to Section(s) 403.087, Florida Statutes. All other portions of this permit remain in effect and are fully enforceable.

Specific Conditions 10, 14, and 15 are hereby modified, to reflect the addition of agricultural sites to be used for land application of residuals from the plant, as follows:

10. The basic residuals management requirements and the agricultural site requirements for this facility are as follows:

*Basic Management Requirements*

- a. The method of residuals use or disposal by this facility is land application.
- b. Land application of residuals shall be in accordance with the conditions of this permit and the requirements of Chapter 62-640, F.A.C. [62-640, 3-1-91]
- c. The domestic wastewater residuals for this facility are classified as stabilization Class B.

- d.. The wastewater treatment facility permittee shall be responsible for proper handling, use, and disposal of its residuals and will be held responsible for any disposal violations that occur unless the permittee can demonstrate that it has delivered residuals that meet the chemical criteria and appropriate stabilization requirements of this permit and that the disposer (e.g. hauler, contractor, or disposal/land application site owner) has legally agreed in writing to accept responsibility for proper disposal. [62-640.300(3), 3-1-91]
- e. The permittee shall sample and analyze the residuals at least once every three months. All samples shall be representative and shall be taken after final treatment of the residuals but before use or disposal. Sampling and analysis shall be in accordance with the U.S. Environmental Protection Agency publication - POTW Sludge Sampling and Analysis Guidance Document, 1989. The following parameters shall be sampled and analyzed:

Parameter	Maximum Concentration	Maximum Cumulative Loading
Total Nitrogen	(Report only) % dry weight	Not applicable
Total Phosphorus	(Report only) % dry weight	Not applicable
Total Potassium	(Report only) % dry weight	Not applicable
Cadmium	100 mg/kg dry weight	4.4 pounds /acre
Copper	3000 mg/kg dry weight	125 pounds/acre
Lead	1500 mg/kg dry weight	500 pounds/acre
Nickel	500 mg/kg dry weight	125 pounds/acre
Zinc	10,000 mg/kg dry weight	250 pounds/acre
pH	(Report only) standard units	Not applicable
Total Solids	(Report only) %	Not applicable

A copy of the analyses shall be submitted with the discharge monitoring report.

No later than sixty (60) days following the completion of all sampling and testing, a copy of the test analyses shall be submitted to WQD. The test analyses shall be submitted on the stationery of the testing laboratory and contain the signature(s) of the person(s) performing tests.

[62-640.700(1)(a), (b), (e), and (f); (2); 3(e); and (4)(f) and 62-640.500(1)(d), 3-1-91]

- f. Florida water quality criteria and standards shall not be violated as a result of land application of residuals. [62-640.700(3)(c), 3-1-91]

*Agricultural Sites*

- a. Class B residuals shall not be used on unrestricted access areas. [62-640.600(6)(b), 3-1-91]
- b. Class B residuals application shall be in accordance with the Agricultural Use Plan approved by the Department for this facility. [62-640.300(1), 3-1-91]
- c. Root crops, and fruits and vegetables which touch the soil and which are to be consumed raw shall not be grown on the application site for 18 months after the last application of Class B residuals. [62-640.600(6)(c), 3-1-91]
- d. Fruits and vegetables which do not touch the soil and which are to be consumed raw shall not be harvested from the application site for 30 days following the last application of Class B residuals. Orchard tree crops, which do not come in contact with the residuals due to the application method, are exempted. This exemption does not apply to orchard tree crops which have fallen to the ground before harvesting. [62-640.600(6)(d), 3-1-91]
- e. Pasture vegetation on the application site shall not be cut or used for grazing by livestock for 30 days following the last application of Class B residuals. [62-640.600(6)(e), 3-1-91]
- f. The public shall be restricted from the application area for 12 months after the last application of Class B residuals. [62-640.600(6)(f), 3-1-91]
- g. The wastewater treatment facility permittee shall notify the Department's Northeast District Office by letter of any modifications or expansions of the approved residuals land application sites. The notice shall be submitted prior to such expansion or modification. Expansions include additional site locations for the permittee's residuals. The letter shall include a site location map and shall state how the modified or expanded residuals land application site will be operated in accordance with all requirements of Chapter 62-640, F.A.C. New or revised Agricultural Use Plans shall be submitted to the Department's Northeast District with the annual updates required by Rule 62-640.500(1)(f), F.A.C. In accordance with the current Agricultural Use Plans, the department allows residuals landspreading on 50 acres of the Maguire Timber site located in St. Johns County, Florida, 263 acres of the Higgenbotham site located in Duval County, Florida, and/or 150 acres of the Kennedy site located in Duval County, Florida . [62-640.300(2), 3-1-91]
- h. Annual residuals application rates shall not exceed the agronomic rates based on the nitrogen requirements of the site vegetation in accordance with the approved Agricultural Use Plan. [62-640.700(3)(d), 3-1-91]
- i. Residuals shall be applied with techniques and equipment to assure uniform application over the site. [62-640.700(3)(n), 3-1-91]

- j. The pH of the domestic wastewater residuals soil mixture shall be 6.5 or greater at the time domestic wastewater residuals are applied. At a minimum, testing shall be done annually. [62-640.700(3)(h), 3-1-91]
  - k. All setbacks distances must be adhered to and must be identifiable to the applier and/or inspector. [62-640.700(3)]
14. The agricultural use plans identifying the Maguire (as per agricultural use plan received April 12, 1995), Higgenbotham (as per agricultural use plan received July 18, 1995), and Kennedy (as per agricultural use plan received July 18, 1995) sites are hereby incorporated as a part of this permit. Updates to the Agricultural Use Plan and annual summaries, including copies of the wastewater residuals analysis for that period, shall be submitted, using DER -or- DEP Form 62-640.900(1), to the Department's Northeast District Office and WQD by July 1 of each year. The permittee shall provide annual updates to the Agricultural Use Plans; including the following:
- a. A summary of the total domestic wastewater residuals, nitrogen, and heavy metals applied on an annual basis for each specific area of application within the total application area.
  - b. The heavy metals and nitrogen application rates and the cumulative totals applied by all other wastewater facilities that utilize the same portion of the land application site (as the subject WWTP) for disposal of domestic wastewater residuals for each specific area of application within the total application area.
  - c. The pH of the residuals/soils mixture for the land application site.
  - d. The above specified information shall be current to within forty-five (45) days of the date of submittal.
15. The permittee shall maintain records of application areas and application rates on DEP Form 62-640.900(3) and shall have these records available for inspection upon request by the Department or the appropriate Local Environmental Program (WQD). These records shall include:
- a. Date of application of the residuals,
  - b. Location of the residuals application site,
  - c. Amount of residuals applied or delivered,
  - d. Identification of specific areas of the site where residuals were applied and acreage of that area,
  - e. Method of incorporation of residuals (if any),
  - f. Water table level at time of application, and
  - g. Concentration of nitrogen and heavy metals in the residuals, percent solids, and date of last analysis.

The permittee shall provide annual updates to the Agricultural Use Plan as required by Specific Permit Condition 15. Land application sites which have high water tables (not allowing for two feet of unsaturated soil depth) must monitor and record the water table depth prior to each application of domestic wastewater residuals.



The Department reserves the right to prohibit land application of domestic wastewater residuals if a test analysis (as required by Permit Specific Condition No. 14), an updated agricultural use plan, or an inspection of the land application site do not provide reasonable assurance of compliance with Chapter 62-640, FAC.

*[62-640.700(3)(e) and (p), 3-1-91]*

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition 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 receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes. The Petition shall contain the following information:

- (a) 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;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by 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 this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed

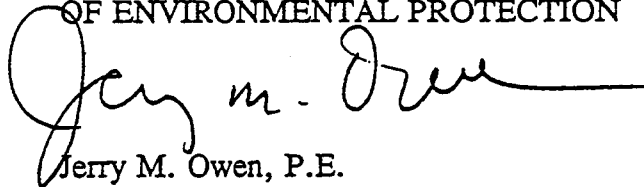
(received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 62-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; 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 the Final Order is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



Jerry M. Owen, P.E.  
Water Facilities Administrator

*DJB*  
JMO:DJB/DB/mkw

cc: Stephen Manis, P.E. (Jax Suburban)  
Tom Griffis (Jax Suburban) ✓  
Erick Olsen (Sludge Management)

JAXHEIGH.REV

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to S120.52, Florida  
Statutes, with the designated Department Clerk,  
receipt of which is hereby acknowledged.

*M. K. [Signature]* 8/7/95  
Clerk Date

- SAM  
- STEVEN #4  
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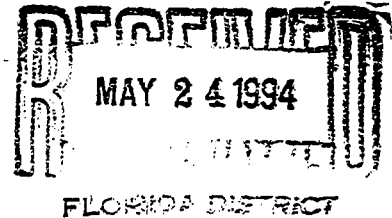
# Florida Department of Environmental Protection



Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7577

Virginia B. Wetherell  
Secretary



## NOTICE OF PERMIT MODIFICATION

May 17, 1994

Philip Heil, Vice President  
Jacksonville Suburban Utilities Corporation  
P.O. Box 8004  
Jacksonville, Florida 32239

**Subject: Jacksonville Heights Wastewater Facility: Modification Of Operation Permit  
No. D016-222480**

Dear Mr. Heil:

Operation Permit No. D016-222480 is hereby modified in accordance with the application received February 25, 1994 (and assigned Department File No. 246676). The following permit modifications are made:

1. Specific Condition No. 16 is modified to reflect the current effluent toxicity testing requirements of National Pollutant Discharge Elimination System (NPDES) Permit No. FL0023671.
2. Specific Condition No. 18 is modified by eliminating weekly water quality monitoring requirements.

The Department is authorized by Florida Administrative Code (FAC) Rule 17-4.080 to modify the subject permit. All permit conditions are in effect and fully enforceable. Your copy of the modified Operation Permit No. D016-222480 is enclosed with this Notice of Permit Modification.

A person whose substantial interests are affected by this Permit Modification may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes (F.S.). The petition 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 the receipt of this permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information:

- (a) 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;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are effected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by 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 final action may be different from the position taken by it in this Permit Modification. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirement specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to FAC Rule 28-5.207.

This Permit Modification is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to FAC Rule 17-103.070. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

Any party to this Order (Permit Modification) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in this Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; 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 this Notice is filed with the Clerk of the Department.

When the Order (Permit Modification) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, F.S., by the filling of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; 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 the Final Order is filed with the Clerk of the Department.

Executed on this 17th day of May, 1994 in Jacksonville, Florida.

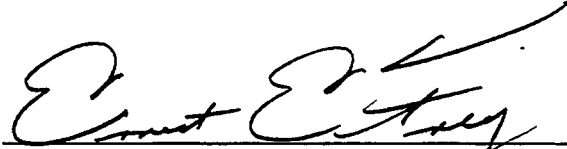
CITY OF JACKSONVILLE  
DEPARTMENT OF REGULATORY AND ENVIRONMENTAL SERVICES  
WATER QUALITY DIVISION  
421 W. Church Street, Suite 412  
Jacksonville, Florida 32202-4111  
(904) 630-3461

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
7825 Baymeadows Way, Suite B-200  
Jacksonville, Florida 32257-7577  
4904) 448-4300



John K. Flowe, P.E.  
Division Chief

CJH



Ernest E. Frey, P.E.  
Director of District Management

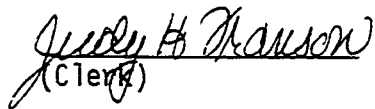
JM

Copy furnished to: City of Jacksonville Water Quality Division (WQD)

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT MODIFICATION and all copies were mailed before the close of business on May 23, 1994 to the listed persons.

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to Section 120.52(9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

  
(Clerk)

5/23/94  
(Date)



Lawton Chiles  
Governor

# Florida Department of Environmental Protection

Northeast District

7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7577

Virginia B. Wetherell  
Secretary

**PERMITTEE:**

Philip Heil, Vice President  
Jacksonville Suburban Utilities  
Corporation  
Post Office Box 8004  
Jacksonville, FL 32239

I.D. Number: 3116P01970  
Permt/Cert Number: D016-222480  
Date of Issue: November 9, 1993  
Expiration Date: April 1, 1998  
County: Duval  
Lat/Long: 30°14'15"N/81°45'05"W  
Section/Township/Range: 13/3S/25E  
Project: Jacksonville Heights  
Wastewater Facility (WWF)  
Modified: May 17, 1994

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-4, 17-7, 17-301, 17-302, 17-600, 17-601, 17-602, 17-610, 17-640 and 17-650. The above named permittee is hereby authorized to perform the work or operation the facility shown on the application and approved drawing(s), plans and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

The Department permits the operation of a 2.5 MGD conventional wastewater facility consisting of two (2) 1.25 MGD Sanitaire Units operated in parallel; influent flows through a common vortex grit remover prior to being split between the two (2) Sanitaire Units; following separate clarification, effluent flows into a common microstraining system (utilizing three (3) filter units), followed by chlorination, sulfur dioxide (SO<sub>2</sub>) dechlorination and discharge into a channel that flows into Fishing Creek; a portion of the chlorinated effluent is reused by recycling back into the gas chlorination system; domestic wastewater residuals are aerobically digested on site and disposed by land application; this facility serves the Jacksonville Heights Wastewater Facility Certificated Area of Service.

Jacksonville Heights Wastewater Facility is located at 5957 Tampico Road, Jacksonville, Duval County, Florida.

Operation Permit No. D016-222480 (1) was issued in accordance with the application received November 30, 1992 and completed by additional information received periodically through April 1, 1993 and (2) is modified (with respect to Specific Conditions Numbers 16 and 18) in accordance with the application received February 25, 1994 (and assigned Department File Number 246676).

DER Form 17-1.201(5) Effective November 30, 1982 Page 1 of 14

PERMITTEE:  
Philip Heil  
Jacksonville Heights WWF

I.D. Number: 3116P01970  
Permit Number: D016-222480  
Date of Issue: November 9, 1993  
Expiration Date: April 1, 1998  
Modified: May 17, 1994

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "permit conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsection 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize and injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
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 provided herein 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.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore 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.
6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by the Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

PERMITTEE:  
Philip Heil  
Jacksonville Heights WWF

I.D. Number: 3116P01970  
Permit Number: D016-222480  
Date of Issue: November 9, 1993  
Expiration Date: April 1, 1998  
Modified: May 17, 1994

GENERAL CONDITIONS:

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted to:
- (a) Having access to and copying any records that must be kept under the conditions of the permit;
  - (b) Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
  - (c) Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with, or will be unable to comply with, any condition or limitation specified in this permit, the permittee shall immediately notify and provide the Department with the following information:
- a. A description of and cause of non-compliance; and
  - b. The period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement or for revocation of this permit.
9. 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 arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
10. The permittee 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 Florida Administrative Code Rule 17-302.500, shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.



PERMITTEE:  
Philip Heil  
Jacksonville Heights WWF

I.D. Number: 3116P01970  
Permit Number: D016-222480  
Date of Issue: November 9, 1993  
Expiration Date: April 1, 1998  
Modified: May 17, 1994

GENERAL CONDITIONS:

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-300.300, as applicable. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department.
12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
13. This permit also constitutes:
  - (a) Determination of Best Available Control Technology (BACT)
  - (b) Determination of Prevention of Significant Deterioration (PSD)
  - (c) Certification of Compliance with State Water Quality Standard (Section 401, PL 92-500)
  - (d) Compliance with New Source Performance Standards
14. The permittee shall comply with the following:
  - a. Upon request, the permittee shall furnish all records and plans required under Department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the Department, during the course of any unresolved enforcement action.
  - b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by the Department rule.
  - c. Records of monitoring information shall include:
    - the date, exact place, and time of sampling or measurement;
    - the person responsible for performing the sampling or measurement;
    - the date(s) analyses were performed;
    - the person responsible for performing the analyses;
    - the analytical techniques or methods used; and
    - the results of such analyses.
15. When requested by the Department, the permittee shall, within a reasonable period of time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be submitted or corrected promptly.

PERMITTEE:  
Philip Heil  
Jacksonville Heights WWF

I.D. NUMBER: J116PO1970  
PERMIT NUMBER: DO16-222480  
DATE OF ISSUE: November 9, 1993  
EXPIRATION DATE: April 1, 1998  
MODIFIED: May 17, 1994

SPECIFIC CONDITIONS:

1. During the period of operation allowed by this permit, the permittee shall furnish one copy of the monthly operating report (MOR) on the operation of the subject wastewater facility. Such report shall also contain information on the daily quantities of domestic wastewater residuals generated at the source, type and degree of treatment and the site of ultimate disposal. Reports using Department of Regulation (DER) or Department of Environmental Protection (DEP) Form 17-601.900(1) shall be submitted on a monthly basis and must be received by the Department no later than the twenty eighth (28th) day of the month following the month of operation. The test site identification number for the subject facility is 3116X14060 and will be entered under Part II, Item (10) of the MOR. For the purposes of this permit, the Department shall mean (1) the State of Florida Department of Environmental Regulation (DER), 7825 Baymeadows Way, Suite B-200, Jacksonville, Florida 32256-7577 and (2) the City of Jacksonville Regulatory and Environmental Services Department (RESD) Water Quality Division (WQD), 421 West Church Street, Suite 412, Jacksonville, Florida 32202-4111.
2. Domestic wastewater residuals or other solid waste shall not be discharged into waters either directly or indirectly and the same shall be disposed of in a manner approved by DEP.
3. The effluent from this source shall be adequately chlorinated at all times so as to provide a basic level of disinfection as required by Florida Administrative Code (FAC) Rule 17-600.440(4).
4. The personnel in charge of the operation, supervision or maintenance of the treatment facilities shall meet the requirements of FAC Chapter 17-602. Sampling and monitoring of this facility will be in accordance with FAC Chapter 17-601.
5. The discharge authorized by this permit shall be consistent at all times with the water quality standards set forth in FAC Chapters 17-301 and 17-302.
6. No additional connection shall be made to this facility without prior approval of the Department.
7. The permit holder shall also comply with county, municipal, federal or other state environmental regulations.
8. An Operation and Maintenance Manual for this facility shall be available at the facility for use by operation and maintenance personnel and for inspection by the Department in accordance with FAC Rule 17-600.720(2).
9. A copy of these permit conditions shall be forwarded by the Permittee to the lead operator and/or the utility company who is charged to maintain and operate this facility, if other than the owner, so as to comply with General Condition No. 12 above.
10. Domestic wastewater residuals shall be disposed of in accordance with FAC Chapter 17-640. All domestic wastewater residuals applied to the land shall be treated as required by FAC Rule 17-640.600. Domestic wastewater residuals shall be disposed of in accordance with FAC Rule 17-640.700(3) or FAC Rule 17-640.700(4).

PERMITTEE:  
Philip Heil  
Jacksonville Heights  
WWF

I.D. NUMBER: 3116P01970  
PERMIT/CERTIFICATION: DO16-222480  
DATE OF ISSUE: November 9, 1993  
EXPIRATION DATE: April 1, 1998  
MODIFIED: May 17, 1994

SPECIFIC CONDITIONS:

1. The monitoring requirements and effluent limitations for this WWF are as follows:

PARAMETER	EFFLUENT LIMIT	MINIMUM FREQUENCY	SAMPLE TYPE	SAMPLE LOCATION
FLOW	2.5 MGD(b)	Continuous	(c)	Effluent
CBOD <sub>5</sub>	(a)	Weekly	Composite (f)	Influent & Effluent (d)
TSS	(a)	Weekly	Composite (f)	Influent & Effluent (d)
NH <sub>3</sub> +NH <sub>4</sub> <sup>+</sup> (l)	(a)	Weekly	Composite (f)	Effluent (d)
pH Units	6.0 to 8.5	Continuous	(g)	Effluent (d)
Temperature	Not Applicable	Weekly (m)	Grab (h)	Effluent (d)
Chlorine Residual	Min. 0.5 mg/l(i) Max. 0.01 mg/l(j)	Continuous Daily, 7/Week	(g) Grab (h)	Effluent (e) Effluent (d)
Dissolved Oxygen	Min 6.0 mg/l(k)	Daily, 7/Week	Grab (h)	Effluent (d)
Fecal(m) Coliform	Avg. ≤200/100 ml Max. 800/100 ml	Weekly	Grab (h)	Effluent (d)

Effluent Limits, Maximum (mg/l)

	Annual average	Monthly average	Weekly average	One time grab max.
CBOD <sub>5</sub>	8	10	12	16
TSS	20	30	45	60
NH <sub>3</sub> +NH <sub>4</sub> <sup>+</sup>	1.6	2.0	2.4	3.2
NH <sub>3</sub> (n)	0.02	0.02	0.02	0.02

- (b) Annual average daily flow shall not exceed value shown.
- (c) Effluent flow rate is measured at the chlorine contact chamber weir. A recording flow meter and totalizer must be used.
- (d) Effluent shall be sampled for these parameters following dechlorination and prior to discharge to surface waters.
- (e) Effluent shall be sampled for total residual chlorine (TRC) content at the point of (or following) discharge from the chlorine contact chamber and prior to dechlorination.
- (f) A sixteen (16)-hour, flow proportioned composite sample is required.
- (g) Effluent TRC content (following chlorination) and pH shall be measured on a continuous basis. However, hourly measurements during the period of required operator attendance may be substituted for continuous measurement.
- (h) Grab samples for measuring effluent TRC content (following dechlorination), pH, temperature and dissolved oxygen (DO) will be collected during periods of minimal wastewater facility pollutant removal efficiencies, or maximum organic loading in the effluent. Effluent DO content shall be measured by laboratory test method at least once every week. On all other days, DO content may be determined by a field test kit or a probe.

PERMITTEE:  
Philip Heil  
Jacksonville Heights  
WWF

I.D. NUMBER: 3116PO1970  
PERMIT/CERT NUMBER: DO16-222480  
DATE OF ISSUE: Novmeber 9, 1993  
EXPIRATION DATE: April 1, 1998  
MODIFIED: May 17, 1994

SPECIFIC CONDITIONS:

- (i) Effluent TRC content (following chlorination) shall not fall below 0.5 mg/l, in accordance with disinfection requirements of FAC Rule 17-600.440(4)(b).
  - (j) Effluent TRC content (following dechlorination) shall not exceed 0.01 mg/l at the point of discharge, in accordance with FAC Rules 17-302.530(19) and 17-600.440(2). Effluent chlorination requirements and dechlorination requirements shall be met independently.
  - (k) Effluent DO content shall not fall below 6.0 mg/l.
  - (l) For the purposes of this Permit,  $\text{NH}_3 + \text{NH}_4^+$  shall mean total ammonia,  $[(\text{NH}_3\text{-N}) + (\text{NH}_4^+\text{-N})]$ .
  - (m) Effluent shall be tested for temperature on the same day it is sampled for total ammonia. Effluent temperature shall be reported in degrees centigrade ( $^{\circ}\text{C}$ ).
  - (n) For the purposes of this Permit,  $\text{NH}_3$  shall mean unionized ammonia,  $\text{NH}_3\text{-N}$ . The effluent unionized ammonia content shall be determined from standard reference tables (using total ammonia content, pH, and temperature) and shall be reported on a weekly basis on the MORs. The maximum limitation of 0.02 mg/l for effluent unionized ammonia is derived from FAC Rule 17-302.530(3) and shall be met independently of effluent limitations for total ammonia and pH.
12. Jacksonville Heights WWF shall be staffed by a State-licensed Class C (or higher) operator for no less than seven (7) days per week and for no less than eight (8) hours per day. The lead/chief operator must be a State-licensed Class B (or higher) operator. The Department will permit eight (8) hour per day operator attendance (instead of the sixteen (16) hour per day attendance requirement specified in FAC Rule 17-699.310(3)(b) for a Category II, Class B Treatment Process, currently utilized by Jacksonville Heights WWF) for a trial period of one (1) year from the permit date of issue. This trial period for reduced operator daily staffing hours is granted because Jacksonville Suburban Utilities Corporation (JSUC) has provided the Department with reasonable assurance that its Supervisory Control and Data Acquisition (SCADA) System complies with the requirements of FAC Rule 17-602.375(3). Throughout the trial period, JSUC shall properly maintain the SCADA System to ensure continuous, reliable operations. Following completion of the trial period, the Department will review the WWF effluent data and notify JSUC (in writing) regarding whether operator attendance may remain at eight (8) hours per day.

PERMITTEE:  
Philip Heil  
Jacksonville Heights  
WWF

I.D. NUMBER: 3116PO1970  
PERMIT/CERT NUMBER: DO16-222480  
DATE OF ISSUE: November 9, 1993  
EXPIRATION DATE: April 1, 1998  
MODIFIED: May 17, 1994

SPECIFIC CONDITIONS:

- The Department reserves the right to require JSUC to resume sixteen (16)-hour per day operator attendance [as specified in FAC Rule 17-699.310(3)(b)] prior to completion of the one (1) year trial period or any time thereafter if the Jacksonville Heights WWF does not maintain compliance with the effluent limits in Permit Specific Condition No. 11.
13. In accordance with FAC Rule 17-650.500(5), the Department reserves the right to modify Operation Permit No. DO16-222480 by requiring JSUC to conduct a Level II Water Quality Effluent Limitation (WQBEL) analysis of Fishing Creek. Permit modification shall include a reasonable period of time for JSUC to petition for administrative relief and submit a plan of study for Department approval. If a WQBEL is developed for this source which requires the annual effluent limits to be revised, the Permittee shall be notified in writing by the Department. After notification, the Permittee shall be allowed (a) 90 days to bring the wastewater facility into compliance with the revised effluent limits or (b) 60 days to submit an application for (1) a construction permit which will bring the facility into compliance within 180 days of construction permit issue date or (2) a temporary operation permit with a compliance schedule or (3) administrative relief pursuant to FAC Rules 17-4.23 and 17-4.244. Department studies do not relieve the applicant of specific responsibilities in rule or elsewhere in this permit.
14. The domestic wastewater residuals from the subject WWF shall be sampled and tested after final treatment but prior to utilization or disposal in accordance with the requirements of FAC Rule 17-640.700. Domestic wastewater residuals shall be sampled and tested at least once during any rolling ninety (90)-day period for the following parameters:
- |                   |       |            |
|-------------------|-------|------------|
| Total Nitrogen    | - %   | dry weight |
| Total Phosphorus  | - %   | dry weight |
| Total Potassium   | - %   | dry weight |
| Total Solids      | - %   | dry weight |
| Cadmium           | mg/kg | dry weight |
| Copper            | mg/kg | dry weight |
| Lead              | mg/kg | dry weight |
| Nickel            | mg/kg | dry weight |
| Zinc              | mg/kg | dry weight |
| pH standard units |       |            |

No later than sixty (60) days following the completion of all sampling and testing, a copy of the test analyses shall be submitted to WQD. The tests analyses shall be submitted on the stationery of the testing laboratory and contain the signature(s) of the person(s) performing the tests.

PERMITTEE:  
Philip Heil  
Jacksonville Heights WWF

I.D. Number: 3116P01970  
Permit Number: D016-222480  
Date of Issue: November 9, 1993  
Expiration Date: April 1, 1998  
Modified: May 17, 1994

**SPECIFIC CONDITIONS:**

15. The Agricultural Use Plan shall be updated at least once every 365 days as required by FAC Rule 17-640.500(1)(f). The updated Agricultural Use Plan shall be submitted (to WQD and DEP) using DER or DEP Form 17-640.900(1) and shall be accompanied by the following information:
- A summary of the total domestic wastewater residuals, nitrogen and heavy metals applied on an annual basis.
  - The cumulative heavy metals applied by all other wastewater facilities that utilize the same portion of the land applicate site (as the subject WWF) for disposal of domestic wastewater residuals.
  - The pH of the residuals/soils mixture for the land application site.
  - The above-specified information shall be current to within forty five (45) days of its date of submittal.

Pursuant to FAC Rule 17-640.700(3), records of application areas and application rates of domestic wastewater residuals must be maintained by the Permittee and must be available for inspection upon request by DEP or WQD. Records shall be kept on DER or DEP Form 17-640.900(3)[or by an approved method which provides equivalent detail] and shall include information specified in FAC Rule 17-640.700(3)(p).

16. In accordance with FAC Rules 17-302.500(1)(d) and 17-302.530(62), the Permittee shall conduct the series of tests described below to evaluate whole effluent chronic toxicity of the discharge from the WWF. All test species, procedures and quality assurance criteria used shall be in accordance with Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, Second Edition, Environmental Protection Agency (EPA)/600/4-89/001, Weber, 1989, or the most current edition. A standard reference toxicant quality assurance test shall be conducted concurrently with each species used in the toxicity tests and the results submitted with the MOR. Alternatively, if monthly quality assurance (QA)/quality control (QC) reference toxicant tests are conducted, these results shall be submitted with the MOR.

PERMITTEE:  
Philip Heil  
Jacksonville Heights WWF

I.D. Number: 3116P01970  
Permit Number: D016-222480  
Date of Issue: November 9, 1993  
Expiration Date: April 1, 1998  
Modified: May 17, 1994

SPECIFIC CONDITIONS:

- a. The Permittee shall conduct a seven-day static renewal Larval Survival And Growth Test using Pimephales promelas (fathead minnow) and a seven-day static renewal exposure Survival And Reproduction Test using Ceriodaphnia dubia (water flea), in accordance with EPA/600/4-89/001 Sections 10 and 12 Test Method, respectively. Tests shall be conducted using a control concentration (0% effluent) and one test concentration consisting of 100% effluent (equivalent to the Receiving Water Concentration (RWC) of the effluent in the receiving water at critical conditions). The dilution/control water shall be a moderately hard water as described in EPA/600/4-89/001 Section 7. Unacceptable chronic toxicity will be demonstrated if either test results in a no observable effect concentration (NOEC) that is less than 100% effluent. All toxicity test results shall be statistically analyzed according to EPA/600/4-89/001 Appendix H Toxicity Screening Test.
- b. Each set of toxicity tests shall be conducted using a minimum of three different 24-hour composite samples of final effluent that shall be collected and utilized in accordance with the schedule in EPA/600/4-89/001, Section 8.1.4.2 Sampling Recommendations. All test solutions shall be renewed daily. A test shall be repeated if its results do not meet the acceptability requirements of EPA/600/4-89/001 Section 12, Paragraph 12.10 (for Ceriodaphnia dubia) or Section 10, Paragraph 11.11 (for Pimephales promelas).
- c. If 100% mortality occurs in the RWC test concentration prior to the end of the test and control test mortality is acceptable at that time, that test (including the control) shall be terminated with the conclusion that the sample demonstrates unacceptable chronic toxicity.
- d. The tests specified above shall be conducted once every two months until six consecutive valid bimonthly tests have been passed, and once every six months thereafter for the duration of this permit, unless notified otherwise by the Department. The Department will count any valid seven-day toxicity tests that were conducted in accordance with Part IV of National Pollutant Discharge Elimination System (NPDES) Permit No. FL0023671 (and prior to modification of this Permit Specific Condition) toward the required total of six consecutive valid tests.
- e. Results from routine tests shall be reported according to EPA/600/4-89/001, Section 9 Report Preparation and shall be submitted (to DEP and WQD) as an attachment to the MOR. If the NOEC for a test species is less than 100% effluent, the notation "<100%" shall be entered for that species. If the NOEC for a test species is greater than or equal to 100% effluent, the notation ">100%" shall be entered for that species.

PERMITTEE:  
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Jacksonville Heights WWF

I.D. Number: 3116P01970  
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Modified: May 17, 1994

**SPECIFIC CONDITIONS:**

- f. If unacceptable chronic toxicity (an NOEC less than 100% effluent in either test) is found in a routine test, two follow-up definitive chronic toxicity tests shall be conducted on the species that indicated unacceptable chronic toxicity. For each follow-up definitive test, the sample collection requirements and test acceptability criteria in Sections "a" and "b" must be met for the test to be considered valid. The first follow-up definitive test shall begin within two weeks following the termination of the failed routine test; the second follow-up definitive test shall begin within two weeks following commencement of the first follow-up test. If either or both of the follow-up tests are invalid, additional tests shall be conducted once every two weeks until two valid tests are completed. The additional tests will be used to determine if the toxicity found in the routine test is still present. All follow-up definitive tests and additional tests shall be conducted on a control sample (that is 0% effluent) and the following effluent concentrations: 100%, 50%, 25%, 12.5%, 6.25%.
- g. Results from the definitive tests, required due to unacceptable chronic toxicity in the routine tests, shall be submitted (to DEP and WQD) in a single report prepared according to EPA/600/4-89/001 Section 9, Report Preparation within 45 days of completion of the valid definitive test. Upon review of the definitive toxicity test results, test concentrations may be modified by the Department to improve statistical confidence of the analyses. In this case, the Permittee shall be notified and will have 30 days to comply with such changes.
- h. Should any valid definitive test indicate the characteristic of toxicity, the Permittee shall prepare a plan of study to identify the cause(s) or source(s) of toxicity of the effluent and evaluate feasible methodologies to reduce or eliminate the toxicity. The plan may include a chemical analysis of the effluent including priority pollutants (metals, volatile and nonvolatile organics) and nonpriority pollutant peaks (including organonitrogen-phosphorus pesticides) along with total and unionized ammonia, nitrate and nitrite nitrogen, total Kjeldahl nitrogen and total and orthophosphorus.
- i. The Permittee shall submit the plan of study to DEP and WQD for review and comments within 60 days of determination of acute toxicity by the valid definitive test (outlined in section "f" above). The Permittee shall implement the agreed upon plan of study within 30 days of receipt of written Department approval. A detailed final report shall be submitted (to DEP and WQD) upon completion of the plan of study including conclusions and recommendations regarding the toxicity of the effluent and measures to reduce or eliminate it.



PERMITTEE:  
Philip Heil  
Jacksonville Heights WWF

I.D. NUMBER: 3116P01970  
PERMIT/CERT NUMBER: D016-222480  
DATE OF ISSUE: November 9, 1993  
EXPIRATION DATE: April 1, 1998  
MODIFIED: May 17, 1994

**SPECIFIC CONDITIONS:**

17. No later than thirty (30) days following permit date of issuance, effluent discharged by the subject facility shall be sampled and tested for the following:
- Organic nitrogen.
  - Nitrite nitrogen (NO<sub>2</sub>-N) and nitrate nitrogen (NO<sub>3</sub>-N).
  - Total Kjeldahl nitrogen (TKN).
  - Total nitrogen (TN).
  - Total phosphorus (TP).
  - Orthophosphorus.

Sixteen (16)-hour, flow-proportioned composite samples shall be taken; sampling and testing shall continue at least once every thirty (30) days until further notice is received from the Department. Test results (showing parameters and corresponding concentrations in mg/l) shall be submitted to the Department with the monthly operating report corresponding to the month in which the samples were taken. Samples shall be taken following dechlorination and prior to discharge to the Fishing Creek.

18. No later than sixty 60 days following permit date of issuance, the Permittee shall conduct water quality (WQ) monitoring of Fishing Creek. Water samples shall be taken at the following sites indicated on the attached map (Permit Page No. 14 of 14):
- Approximately fifty (50) meters upstream of the point of discharge into Fishing Creek.
  - Approximately 0.25 mile downstream of the point of discharge into Fishing Creek.
  - Fishing Creek at intersection with Wesconnett Boulevard.

Water samples shall be taken at all sites on the same day, at approximately mid-stream depth and tested for the following: carbonaceous five (5)-day biochemical oxygen demand (CBOD<sub>5</sub>), total ammonia, TKN, TP, TN, pH, DO and temperature. Water quality tests shall be performed at a laboratory that utilizes a quality assurance/quality control program. Test results shall be submitted to WQD on the stationery of the testing laboratory no later than sixty (60) days following the sampling date. Test data submittals shall also include the direction of stream flow at the time the samples were taken, as well as weather and rainfall information. Water quality monitoring shall be conducted no less than once every ninety (90) days. The laboratory used shall meet both the DHRS certification and the Department's quality assurance/quality control program requirements. Reference Chapter 17-160 FAC.

PERMITTEE:  
Philip Heil  
Jacksonville Heights WWF

I.D. NUMBER: 3116P01970  
PERMIT/CERT NUMBER: D016-222480  
DATE OF ISSUE: November 9, 1993  
EXPIRATION DATE: April 1, 1998  
MODIFIED: May 17, 1994


SPECIFIC CONDITIONS:


19. No later than February 1, 1998, the Permittee shall submit an application for an operation permit or a temporary operation permit (for the subject WWF). The application shall be submitted in accordance with the Administrative Procedures of the Department and shall include (1) State and local processing fees and (2) all necessary supplementary documents, plans, studies and reports.

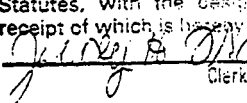
Issued this 9th day of November 1993  
Modified this 17th day of May 1994

CITY OF JACKSONVILLE  
DEPARTMENT OF REGULATORY  
AND ENVIRONMENTAL SERVICES  
WATER QUALITY DIVISION

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

  
\_\_\_\_\_  
John K. Flowe, P.E.  
Division Chief

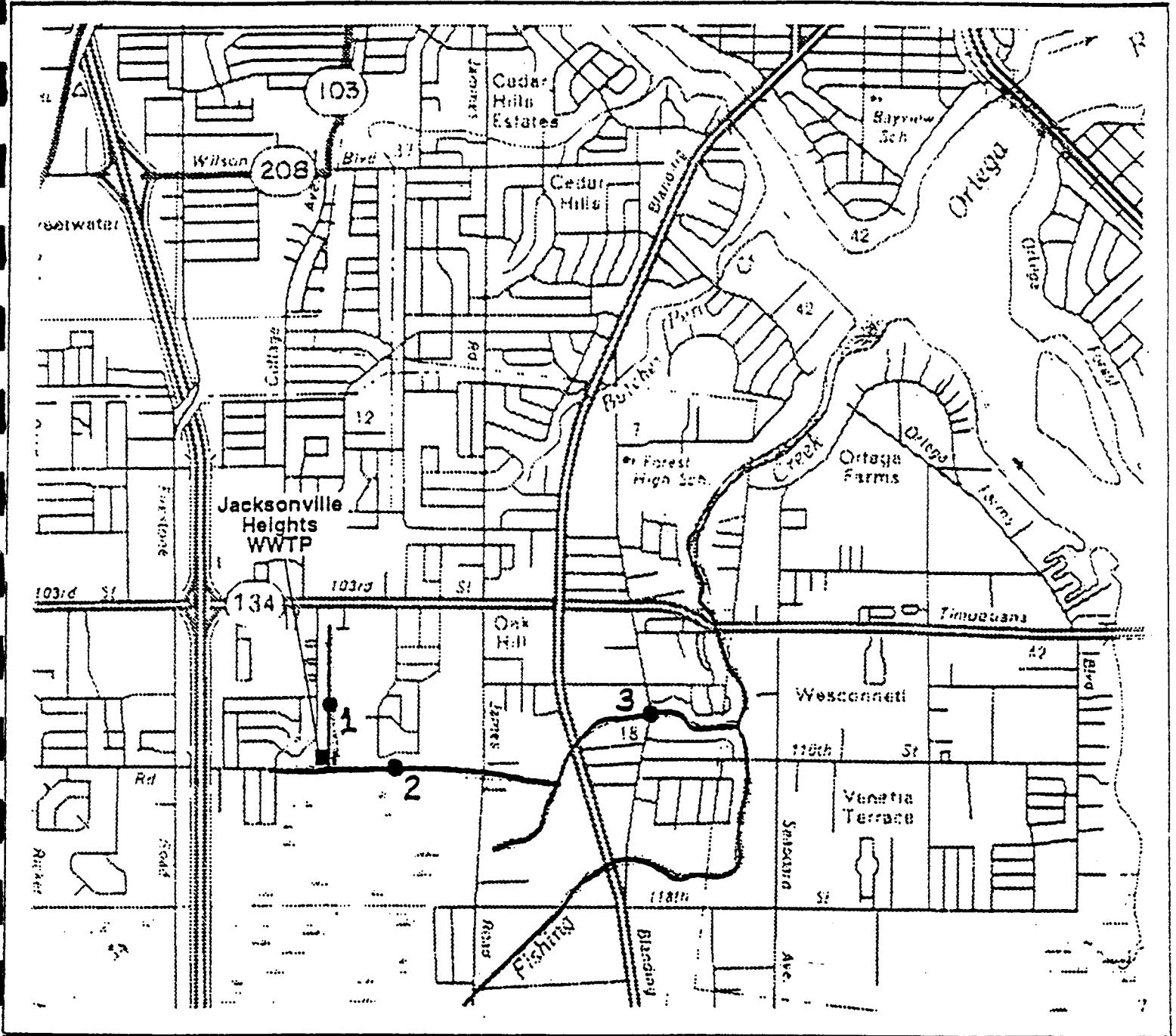
  
\_\_\_\_\_  
Ernest E. Frey, P.E.  
Director of District Management

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to § 3120.52, Florida  
Statutes, with the designated Department Clerk,  
receipt of which is hereby acknowledged.  
 Clerk Date 5/22/94

PERMITTEE:

Philip Heil  
Jacksonville Heights WWF

I.D. NUMBER: 3116P01970  
PERMIT/CERT NUMBER: D016-222480  
DATE OF ISSUE: November 9, 1993  
EXPIRATION DATE: April 1, 1998  
MODIFIED: May 17, 1994



Surface Water Sampling Locations



Lawton Chiles  
Governor

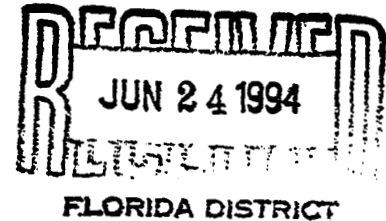
# Florida Department of Environmental Protection

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7577

Virginia B. Wetherell  
Secretary

## NOTICE OF PERMIT ISSUANCE

June 16, 1994



### CERTIFIED MAIL - RETURN RECEIPT

Philip Heil, Vice President  
Jacksonville Suburban Utilities Corporation  
1400 Millcoe Road  
Jacksonville, Florida 32225

**Subject: Jacksonville Heights Wastewater Facility (WWF): Application for  
Construction Permit  
Duval County - Domestic Waste**

Dear Mr. Heil:

Enclosed is Construction Permit No. DC16-248943, for the subject wastewater facility, issued pursuant to Section 403.087, Florida Statutes (FS).

The Permittee is reminded of the necessity to comply with the pertinent regulations of any other State agency, as well as any County, Municipal, and Federal regulations applicable to the project. These regulations may include, but are not limited to, those of the Federal Emergency Management Agency in implementing flood control measures. This permit should not be construed to imply compliance with the regulations of other agencies.

Your special attention is called to the following Specific Conditions of the attached permit which are listed below:

3. The sand filter shall be properly maintained.
4. Sand filter backwash water shall only be recycle to the wastewater facility influent stream.
5. The microstrainer unit shall be disposed of in a manner that safeguards the public health and safety.
6. Submit a Notification That A Domestic Wastewater Facility Will Be Placed Into Operation following completion of project construction.

A person whose substantial interests are affected by this Permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, F.S. The petition 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 receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the permit holder's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by 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 this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in this Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule Florida Administrative Code (FAC) Rule 28-5.207.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to FAC Rule 17-103.070. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

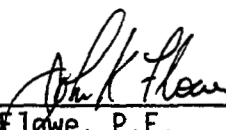
Any party to this Order (Permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in this Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; 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 this Notice is filed with the Clerk of the Department.


When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; 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 the Final Order is filed with the Clerk of the Department.

Executed on this 16th day of June, 1994 in Jacksonville, Florida.

CITY OF JACKSONVILLE  
DEPARTMENT OF REGULATORY AND ENVIRONMENTAL SERVICES  
WATER QUALITY DIVISION  
421 W. Church Street, Suite 412  
Jacksonville, Florida 32202-4111  
(904) 630-3461

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
7825 Baymeadows Way, Suite B-200  
Jacksonville, Florida 32256-7577  
(904) 448-4300

  
John K. Flowe, P.E.  
Division Chief

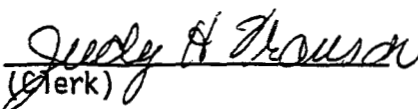
*BPW*  
  
Ernest E. Frey, P.E.  
Director of District Management

Copies furnished to:  
*CJH*  
Jacksonville Water Quality Division

*gm*  
CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT ISSUANCE and all copies were mailed before the close of business on June 23, 1994 to the listed persons.

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to Section 120.52(9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

  
(Clerk) 6/23/94  
(Date)



Lawton Chiles  
Governor

# Florida Department of Environmental Protection

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7577

Virginia B. Wetherell  
Secretary

**PERMITTEE:**

Philip Heil, Vice President  
Jacksonville Suburban Utilities Corporation  
1400 Millcoe Road  
Jacksonville, Florida 32225

I.D. NUMBER: 3116P01970  
PERMIT/CERT NUMBER: DC16-248943  
DATE OF ISSUE: June 16, 1994  
EXPIRATION DATE: December 31, 1998  
COUNTY: Duval  
LAT/LONG: 30°14'15"N/81°45'05"W  
SECTION/TOWNSHIP/RANGE: 13/3S/25E  
PROJECT: Jacksonville Heights  
Wastewater Facility (WWF)

This permit is issued under the provisions of Chapter 403, Florida Statutes and Florida Administrative Code Rule(s) 17-4, 17-7, 17-301, 17-302, 17-600, 17-601, 17-602, 17-610, 17-640 and 17-650. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

The Department permits the modification of the Jacksonville Heights Wastewater Facility by the construction, installation and operation of a granular media gravity flow effluent sand filter that will replace the existing effluent microstrainer unit. Effluent from the secondary clarifiers will be discharged into the sand filter. Filtered effluent will be discharged into the chlorine contact chambers. The sand filter will be backwashed periodically. Backwash water will be recycled to the wastewater facility influent stream and thence into the aeration basins.

The subject wastewater facility is located at 5957 Tampico Road, Jacksonville, Duval County, Florida.

This permit is issued in accordance with the application received April 11, 1994 and completed by additional information received May 13, 1994.

PERMITTEE:  
Philip Heil  
Jacksonville Heights WWF

I.D. NUMBER: 3116P01970  
PERMIT NUMBER: DC16-248943  
DATE OF ISSUE: June 16, 1994  
EXPIRATION DATE: December 31, 1998

**GENERAL CONDITIONS:**

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.141, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and shown in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it constitute any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other Department permit that may be required for other portions of the total project which are not addressed in the permit.
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.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by construction or operation of this permitted source, nor does it allow the permittee to pollute in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall at all times properly operate and maintain the facility and system for treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.



PERMITTEE:  
Philip Heil  
Jacksonville Heights WWF

I.D. NUMBER: 3116P01970  
PERMIT NUMBER: DC16-248943  
DATE OF ISSUE: June 16, 1994  
EXPIRATION DATE: December 31, 1998

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
- a. Have access to and copy any records that must be kept under the conditions of the permit;
  - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
  - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with, or will be unable to comply with, any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information:
- a. A description of and cause of noncompliance; and
  - b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.
9. 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 arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
10. The permittee 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 Florida Administrative Code Rule 17-302.500, shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.

PERMITTEE:  
Philip Heil  
Jacksonville Heights  
WWF

I.D. NUMBER: 3116P01970  
PERMIT NUMBER: DC16-248943  
DATE OF ISSUE: June 16, 1994  
EXPIRATION DATE: December 31, 1998

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-730.300, as applicable. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department.
12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
13. This permit also constitutes:
  - (a) Determination of Best Available Control Technology (BACT)
  - (b) Determination of Prevention of Significant Deterioration (PSD)
  - (c) Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)
  - (d) Compliance with New Source Performance Standards
14. The permittee shall comply with the following:
  - a. Upon request, the permittee shall furnish all records and plans required under Department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the Department, during the course of any unresolved enforcement action.
  - b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by Department rule.
  - c. Records of monitoring information shall include:
    - the date, exact place, and time of sampling or measurements;
    - the person responsible for performing the sampling or measurements;
    - the date(s) analyses were performed;
    - the person responsible for performing the analyses;
    - the analytical techniques or methods used;
    - the results of such analyses.
15. When requested by the Department, the permittee shall, within a reasonable period of time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be submitted or corrected promptly.

PERMITTEE:  
Philip Heil  
Jacksonville Heights WWF

I.D. NUMBER: 3116P015.0  
PERMIT NUMBER: DC16-248943  
DATE OF ISSUE: June 16, 1994  
EXPIRATION DATE: December 31, 1998

**SPECIFIC CONDITIONS:**

1. For the purposes of this permit, the Department shall mean (1) the State of Florida Department of Environmental Protection (DEP), 7825 Baymeadows Way, Suite B-200, Jacksonville, Florida 32256-7577 and (2) the City of Jacksonville Regulatory and Environmental Services Department (RESD) Water Quality Division (WQD), 421 West Church Street, Suite 412, Jacksonville, Florida 32202-4111.
2. The permit holder shall also comply with county, municipal, federal or other state environmental regulations.
3. The sand filter shall be backwashed, cleaned and maintained as necessary to ensure proper operation throughout its entire service life.
4. Sand filter backwash water shall only be recycled to the wastewater facility.
5. Following its removal from service, the microstrainer unit shall be disposed of in a manner that safeguards the public health and safety, in accordance with FAC Rule 17-600.410(7).
6. No later than thirty (30) days following completion of all project construction, the Permittee shall submit (to WQD) a Notification That A Domestic Wastewater Facility Will be Placed Into Operation, using Department Form 17-600.910(3).

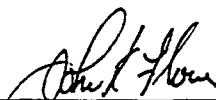
CJH

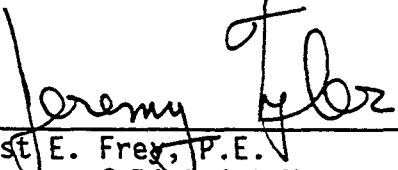
CITY OF JACKSONVILLE  
DEPARTMENT OF REGULATORY  
AND ENVIRONMENTAL SERVICES  
WATER QUALITY DIVISION

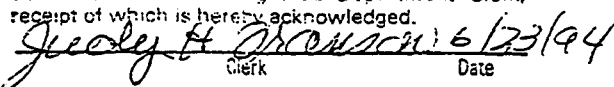
Issued this 16th day of June 1994

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

EPW

  
\_\_\_\_\_  
John K. Elowe, P.E.  
Division Chief

  
\_\_\_\_\_  
Ernest E. Frey, P.E.  
Director of District Management

FILING AND ACKNOWLEDGEMENT  
FILED, on this date pursuant to S120.52 Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.  
  
\_\_\_\_\_  
Clerk Date 6/23/94

File

**JACKSONVILLE SUBURBAN UTILITIES CORPORATION**  
A SUBSIDIARY OF GENERAL WATERWORKS CORPORATION

1400 MILLCOE ROAD, P.O. BOX 8004, JACKSONVILLE, FLORIDA 32239,(904) 725-2865

January 11, 1994

VIA CERTIFIED MAIL

Mrs. Malinda Mallard  
FL/NC Unit, Enforcement Section  
Water Permits & Enforcement Branch  
Water Management Division  
U. S. Environmental Protection Agency  
Region IV  
345 Courtland Street, N.E.  
Atlanta, Georgia 30365

RE: NPDES No. FL0023671  
Jacksonville Heights WWTF

Dear Mrs. Mallard:

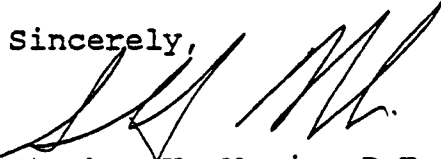
On December 15, 1994 a power outage occurred at the referenced facility due to an electrical accident on-site while a contractor was installing a new circuit breaker in the main feed panel. This upset was reported to EPA in our Sewer Discharge/Overflow report (copy attached). The power was out at the facility for six and one half hours from 1625 hours to 2300 hours. The aeration equipment, activated sludge return and filtration equipment was out of service for that period. The chlorination and dechlorination equipment was operated using the auxiliary potable water feed during the upset. After the power was restored, aeration and filtration equipment was placed back in service.

As a follow-up to our initial notification, this letter is to report an exceedence of a permit limit for toxicity. The upset occurred during the compliance sampling for whole effluent toxicity. Our laboratory performing the Whole Effluent Toxicity testing has reported to us that the test failed. The final report will be submitted with our routine DMR's.

Mrs. Malinda Mallard  
January 11, 1994  
Page 2

Should you have any questions, please call me at (904) 721-4610.

Sincerely,



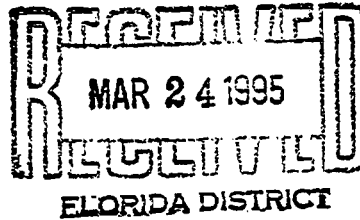
Stephen V. Manis, P.E.  
Area Engineer

SM/ss

Attachment

cc: FDEP, Northeast District Office  
RESD  
J. A. Dysard, II.  
Philip Heil  
J. L. Ade, Esquire  
Dr. Mitchell Griffin, CH2M Hill

DEPARTMENT OF REGULATORY &  
ENVIRONMENTAL SERVICES  
Water Quality Division



March 10, 1995

Stephen V. Manis, P.E.  
Jacksonville Suburban Utilities Corporation  
1400 Millcoe Road  
Jacksonville, Florida 32225

**Subject: Jacksonville Heights Wastewater Facility (WWF): Notification That A Domestic Wastewater Facility Will Be Placed Into Operation For Construction Permit No. DC16-248973**

Dear Mr. Manis:

The subject Notification That A Domestic Wastewater Facility Will Be Placed Into Operation (for the project permitted by Construction Permit No. DC16-248973) is accepted for service by Jacksonville Water Quality Division (WQD) and the Florida Department of Environmental Protection (DEP). Certification of acceptance by WQD is on Page 2 of 3 of the Notification form. The constructed project may be placed into operation in accordance with the requirements of Construction Permit No. DC16-248943.

Acceptance for service by WQD and DEP does not relieve the engineer of record, the permittee and WWF owner of responsibility for ensuring that compliance with all Federal, State and local regulations (including, but not limited to, the requirements of Construction Permit No. DC16-248943) is maintained.

If you need additional information, we may be contacted at (904) 630-3461.

Very truly yours,

A handwritten signature in cursive script that reads "Charles Hubsch".

Charles Hubsch, E.I.  
Associate Engineer

CJH/sdd

cc: Mr. David Bolam, P.E., DEP

abey142



421 West Church Street - Suite 412  
Jacksonville, Florida 32202-4111

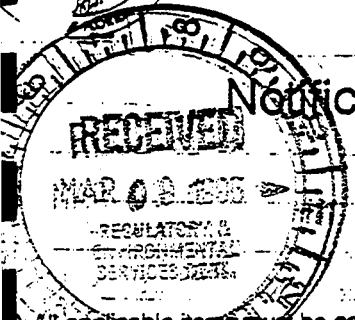
Area Code 904/630-3666



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form #	17-600.910(3)
Notification that a Domestic Wastewater Facility Form To	Will Be Placed Into Operation
Effective Date	July 1, 1991
DER Application No.	(Filed in by DER)



## Notification that a Domestic Wastewater Facility Will Be Placed Into Operation

### Part I - Instructions

- All applicable items must be completed in full in order to avoid delay in processing of this form. Where attached sheets (or other technical documentation) are utilized in lieu of the blank space provided, indicate appropriate cross-references in the space and provide copies to the Department in accordance with (3) below. Note that if part(s) of this application do not apply, those part(s) of the form need not be executed.
- All information is to be typed or printed in ink.
- Four (4) copies of this application (with supporting information) shall be submitted to the appropriate district office or approved local program.
- Attach an 8 1/2" x 11" copy of a USGS map showing site locations. Be sure to include the map name and date on the USGS map provided.
- Submission of this form is required by Rule 17-600.725, F.A.C., before placing a wastewater facility into operation under a construction permit for any purpose, other than testing for leaks and equipment operation.
- Where requested on this form, enter location in both latitude/longitude and section/township/range formats.
- Dates are to be entered in MM/DD/YR format.
- In Part II/Question (3), if the treatment plant is the same as the project/facility described in Question (2), enter "Same."

### Part II - General Information

(1) Applicant/Responsible Authority: Name PHILIP HEIL, VICE PRESIDENT, JACKSONVILLE SUBURBAN UTILITIES CORP  
 Address 1400 MILLCOE ROAD  
 City JACKSONVILLE State FLORIDA Zip 32225  
 Telephone Number ( 904 ) 721-4600

(2) Project/Facility Name: JACKSONVILLE HEIGHTS WWTF  
 Street 5957 TAMPICO RD.  
 City JACKSONVILLE Zip 32244 County DUVAL  
 Latitude 30° 14' 15" N Longitude 81° 45' 05" W Section 13 Township 3S Range 25E  
 Telephone Number ( 904 ) 721-4648

The facility's DER identification number (also known as the GMS identification number) \_\_\_\_\_

(3) Treatment Plant Name "SAME INFORMATION AS ABOVE IN ITEM 2)  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ Zip \_\_\_\_\_ County \_\_\_\_\_  
 Latitude \_\_\_\_\_° \_\_\_\_\_' \_\_\_\_\_" N Longitude \_\_\_\_\_° \_\_\_\_\_' \_\_\_\_\_" W Section \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_  
 Telephone Number ( \_\_\_\_\_ ) \_\_\_\_\_

The facility's DER identification number (also known as the GMS identification number) 3116P01970

(4) Construction Permit Number: DC16-248943 PHILIP HEIL, VICE PRESIDENT

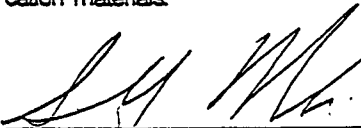
(5) Indicate EPA-NPDES permit, effective date and expiration date:  
 Permit No. FL: 0023671 Issue Date 9 / 21 / 93 Expiration Date 9 / 30 / 98

(6) Start of construction (date): 04 / 25 / 94

DER Form #	17-600.910(3)
Form Title	Notification that a Domestic Wastewater Facility Will Be Placed into Operation
Effective Date	July 1, 1991
DER Application No.	(Filed in by DER)

Professional Engineer Registered in Florida (where required by Chapter 471, F.S.) as to Wastewater Treatment, Reuse and Disposal System.

I certify that the facilities listed above have been completed to the point where the facilities are functionally complete. I further certify that construction on these facilities has proceeded substantially in accordance with the construction permit and the approved preliminary design report and application materials, or that deviations noted below will not prevent the system from functioning in compliance with the requirements of Chapter 17-600, F.A.C., when properly operated and maintained. These determinations have been based upon on-site observation of construction, scheduled and conducted by me or by a project representative under my direct supervision, for the purpose of determining if the work proceeded in compliance with the construction permit and the approved preliminary design report and application materials.

  
 \_\_\_\_\_  
 Signature of Engineer

(Affix Seal)

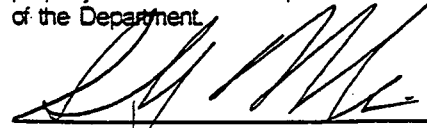
STEPHEN V. MANIS, P.E. 43342  
 Name (Please type) Florida Registration No.  
 JACKSONVILLE SUBURBAN UTILITIES CORPORATION  
 \_\_\_\_\_  
 Company Name  
 1400 MILLCOE RD., JACKSONVILLE, FL 32225  
 \_\_\_\_\_  
 Company Address  
 \_\_\_\_\_  
 Date: 3/6/95 Telephone No. (904) 721-4610

Substantial deviations from the construction permit and the approved preliminary design report and application materials (attach additional sheets if necessary):

N/A  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Professional Engineer Registered in Florida (where required by Chapter 471, F.S.) as to Operation and Maintenance Manual.

I certify that the draft operation and maintenance manual for these wastewater facilities has been prepared or examined by me or by individual(s) under my direct supervision and that there is reasonable assurance, in my professional judgment, that the facilities, when properly maintained and operated in accordance with this manual, will comply with all applicable statutes of the State of Florida and rules of the Department.

  
 \_\_\_\_\_  
 Signature of Engineer

(Affix Seal)

STEPHEN V. MANIS, P.E. 43342  
 Name (Please type) Florida Registration No.  
 JACKSONVILLE SUBURBAN UTILITIES CORPORATION  
 \_\_\_\_\_  
 Company Name  
 1400 MILLCOE RD., JACKSONVILLE, FL 32225  
 \_\_\_\_\_  
 Company Address  
 \_\_\_\_\_  
 Date: 3/6/95 Telephone No. (904) 721-4610

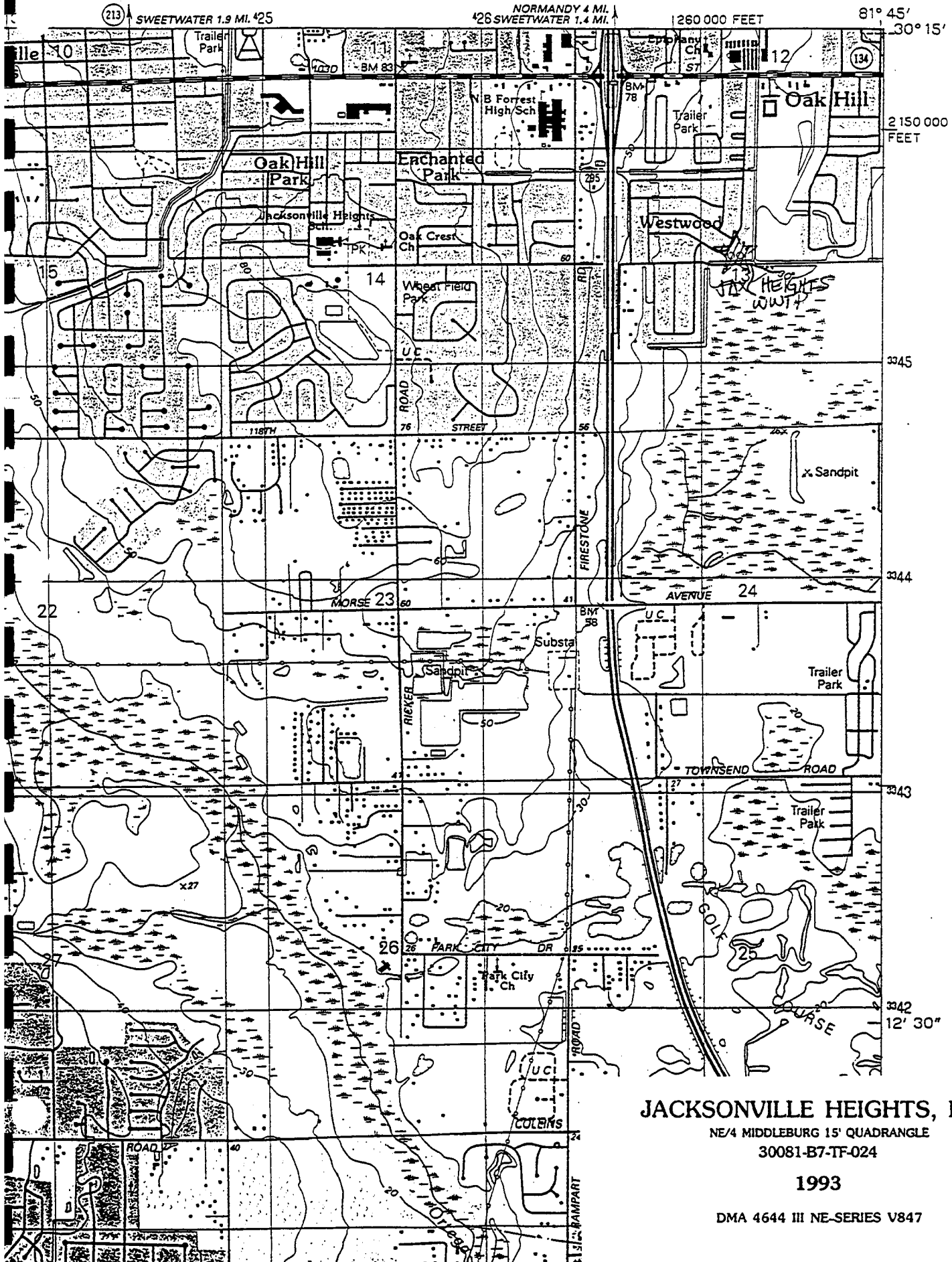


JACKSONVILLE HEIGH. QUADRANGLE  
FLORIDA

7.5 MINUTE SERIES (TOPOGRAPHIC)

NE/4 MIDDLEBURG 15' QUADRANGLE

4844 I SW  
(JACKSONVILLE)



JACKSONVILLE HEIGHTS, FLA.

NE/4 MIDDLEBURG 15' QUADRANGLE

30081-B7-TF-024

1993

DMA 4644 III NE-SERIES V847

United Water



*File*

*Gumes*  
*AS*

**United Water Florida**  
1400 Millcoe Road  
PO Box 8004  
Jacksonville, FL 32239-8004  
telephone 904 721 4600  
facsimile 904 721 4680

October 20, 1995

Mr. Jon Dinges  
Engineer, Domestic Waste  
Wastewater Section  
Florida Department of Environmental Protection  
Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Re: Duval County - Domestic Waste  
Jacksonville Heights WWTF

Dear Mr. Dinges:

In response your letter of August 31, 1995, received September 13, 1995 concerning several minor deficiencies noted in the routine inspection conducted July 18, 1995 by Department personnel we submit the following:

Records & Reports

1. An arithmetic mean will be used to compute the average monthly fecal coliform data.
2. The correct permit number will be shown on subsequent MORs.

Flow Measurement

The circular chart recorder has been repaired.

Should you have any question or require additional information please contact me at 721-4610.

Sincerely,

Stephen Manis, P.E.  
Senior Project Engineer

SVM/

cc: Mr. Philip Heil  
Mr. M. Sambamurthi ✓  
Mr. Richard Hensch  
Mr. Tom Griffis



# Department of Environmental Protection

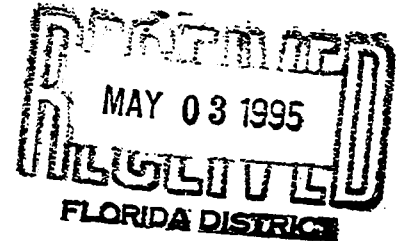
Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

May 1, 1995

Mr. Stephen V. Manis, P.E.  
Jacksonville Suburban Utilities Corporation  
1400 Millcoe Road  
Jacksonville, Florida 32225



Dear Mr. Manis:

Duval County - Domestic Waste  
Jacksonville Heights WWF  
Acknowledgement of Document Received

We acknowledge receipt of your letter of March 10, 1995 and the attached Notification that a Domestic Wastewater Facility will be placed into Operation [DEP Form 62-600.910(3)] dated March 7, 1995. This concerns the construction of a Sand filter, and notification that it will be placed in operation.

The project was constructed under Construction Permit DC16-248943, issued on June 16, 1994.

Sincerely,

Frank Watkins, Jr. P.E.

FW:FW/<sup>ct</sup>klm

cc; RESD



# Department of Environmental Protection

cc: *Wetzel*  
*Physician and dis'curr*  
cc: *Don Hoven 11/21*

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

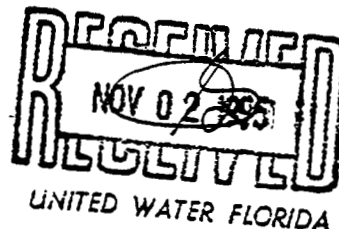
*File*

Virginia B. Wetherell  
Secretary

CERTIFIED - RETURN RECEIPT

October 25, 1995

Mr. Philip Heil, Vice President  
United Water Florida  
1400 Millcoe Road  
Jacksonville, Florida 32225



Dear Heil:

Duval County - Domestic Waste  
Jacksonville Heights WWTF - FL0023671

This is in reference to your application for substantial revision of the wastewater permit for the above referenced project. The Department has prepared the enclosed notice of draft permit, draft permit, discharge monitoring report and fact sheet for your review.

Please provide comments regarding the draft documents to this office as soon as possible and no later than thirty (30) days from receipt of this letter. If you do not have any comments, please proceed with publication of the attached Public Notice of Draft Permit.

A decision schedule is provided below outlining the process elements and listing the tentative dates of completion of each element.

Process Elements	Projected Date of Completion
Effective Date of the Application:	August 25, 1995
Preliminary Permit to Applicant and EPA for Review:	October 25, 1995
Begin/End Public Comment Period:	October 30, / November 29, 1995
Proposed permit to EPA (if necessary)	December 1, 1995
Notice of Agency Action:	December 15, 1995
Final Department Action:	December 15, 1995

If you have any questions, please contact David Bolam of this office.

Sincerely,  
*Frank Watkins*  
Frank Watkins, Jr., P.E.

*Bib*  
BFW:DJB/mkw  
Attachments

cc: Mitchell Griffin, PhD., P.E. ←  
Roger Pfaff (U.S. EPA)

*11/21/95*  
*MITT TO request*  
*AN EXTENSION of RESPONSE*  
*Time for meeting to*  
*JAN 3, 1996. JOHN*  
*HAN HAS SOME "HOW*  
*KEEPING COMMENTS" to*  
*make.*

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

CERTIFIED MAIL

In the Matter of an Application  
for Permit by:

DEP File No. 264313

Mr. Philip Heil, Vice President  
United Water Florida  
1400 Millcoe Road  
Jacksonville, Florida 32225

Dear Heil:

Duval County - Domestic Waste  
Jacksonville Heights WWTF - FL0023671

NOTICE OF DRAFT PERMIT

The Department of Environmental Protection gives notice of its preparation of a draft permit revision for permit FL0023671 (copy of conditions attached) for the operation of the subject wastewater treatment facility as detailed in the application specified above, for the reasons stated below. The applicant United Water Florida, applied on March 15, 1995 to the Department of Environmental Protection for a permit to construct and operate a 2.5 MGD design annual average daily flow Ultra-violet disinfection system that will replace the existing 2.5 MGD chlorination type disinfection system combined with dechlorination and post aeration with the final treated and disinfected effluent discharged to a stormwater drainage ditch that flows to Fishing Creek (Class III waters).

The Department has permitting jurisdiction under Chapters 62-4, 62-302, 62-600, 62-601, 62-620, 62-650, 62-699 of the Florida Administrative Code (F.A.C.). The project is not exempt from permitting procedures. The Department has determined that a Facility permit revision is required for the proposed operation.

Pursuant to Section 403.815, Florida Statutes and DEP Rule 62-620.550(2), F.A.C., you (the applicant) are required to publish at your own expense the enclosed Notice of Draft Permit and Administrative Order to request public comment. The notice shall be published one time only within 30 days in the legal ad section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. Where there is more than one newspaper of general circulation in

the county, the newspaper used must be one with significant circulation in the area that may be affected by the permit. If you are uncertain that a newspaper meets these requirements, please contact the Department at the address or telephone number listed below. The applicant shall provide proof of publication to the Department, at Department of Environmental Protection Northeast District Office, 7825 Baymeadows Way, Suite B200, Jacksonville, Florida 32256-7590 within fourteen days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit.

The Department intends to issue the permit with the attached conditions unless as a result of public comment appropriate changes are made.

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 David J. Bolam, P.E., Domestic Wastewater Permitting Supervisor, Department of Environmental Protection Northeast District Office, 7825 Baymeadows Way, Suite B200, Jacksonville, Florida 32256-7590, Telephone No.: (904) 448-4330 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 Northeast District Office. Comments from the permit applicant and the persons listed below must be received within 30 days of receipt of this intent. Comments submitted by other persons must be received within 30 days of publication of the public notice or within 30 days of their receipt of this intent, whichever first occurs. Failure to submit comments or request a public meeting within this time period shall 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:

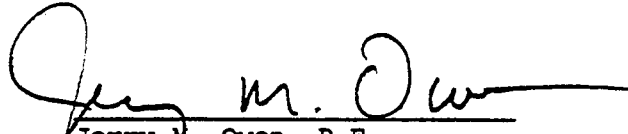
- (a) The commenter's name, address, and telephone number, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when notice of the Department's action or proposed action was received;
- (c) A statement of the facts the Department should consider in making the final decision;
- (d) A statement of which rules or statutes require reversal or modification of the Department's action or proposed action; and
- (e) 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.

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 on the Department's proposed action at the public meeting. As a result of significant public comment the Department's final action may be different from the position taken by it in this intent.

Executed in Jacksonville, Florida.

26

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
Jerry M. Owen, P.E.  
Water Facilities Administrator

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF DRAFT PERMIT and all copies were mailed by certified mail before the close of business on October 3/8 1995 to the listed persons.

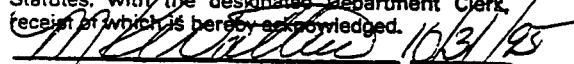
Copies furnished to:

Office of General Counsel  
Mitchell Griffin, PhD., P.E.  
John K. Flowe, P.E. (RESD)  
Elsa Potts, P.E. (DEP)  
Roger Pfaff (U.S. EPA)

Office of Environmental Services  
FL Game and Freshwater Fish Commission  
620 South Meridian Street  
Tallahassee, Florida 32399

FILING AND ACKNOWLEDGEMENT

FILED, on this date, pursuant to §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

  
Clerk Date

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
NOTICE OF DRAFT PERMIT

The Department of Environmental Protection gives notice of its preparation of a draft permit revision for permit FL0023671 for Mr. Philip Heil, Vice President, United Water Florida, 1400 Millcoe Road, Jacksonville, Florida 32225 for the Jacksonville Heights WWTF; to construct and operate a 2.5 MGD design annual average daily flow Ultra-violet disinfection system that will replace the existing 2.5 MGD chlorination type disinfection system combined with dechlorination and post aeration with the final treated and disinfected effluent discharged to a stormwater drainage ditch that flows to Fishing Creek (Class III waters).

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 David J. Bolam, P.E., Domestic Wastewater Permitting Supervisor, Department of Environmental Protection Northeast District Office, 7825 Baymeadows Way, Suite B200, Jacksonville, Florida 32256-7590, Telephone No.: (904) 448-4330 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 Northeast District Office within 30 days of publication of this notice. Failure to submit comments or request a public meeting within this time period shall 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:

- (a) 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;
- (b) A statement of how and when notice of the Department's action or proposed action was received;
- (c) A statement of the facts the Department should consider in making the final decision;
- (d) A statement of which rules or statutes require reversal or modification of the Department's action or proposed action; and
- (e) 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.

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. As a result of significant public comment the Department's final action may be different from the position taken by it in this intent.

The permit application file and supporting data are available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at Department of Environmental Protection Northeast District Office, 7825 Baymeadows Way, Suite B200, Jacksonville, Florida 32256-7590, Telephone No.: (904) 448-4330.





# Department of Environmental Protection

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

## STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT

**PERMITTEE:**  
United Water Florida  
1400 Millcoe Road  
Jacksonville, Florida 32225

**PERMIT NUMBER:** FL0023671  
**ISSUANCE DATE:** Draft  
**EXPIRATION DATE:** April 1, 1990  
**FACILITY I.D.:** FL0023671(311-970)

**RESPONSIBLE AUTHORITY:**

Philip Heil, Vice President

**FACILITY:**

Jacksonville Heights WWTF  
5957 Tampico Road  
Jacksonville, Florida 32244

Latitude: 30° 14' 15" N Longitude: 81° 45' 05" W

This permit is issued under the provisions of Chapter 403, Florida Statutes, and applicable rules of the Florida Administrative Code and constitutes authorization to discharge to waters of the state under the National Pollutant Discharge Elimination System. The above named permittee is hereby authorized to construct and/or operate the facilities shown on the application and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

**TREATMENT FACILITIES:**

*DESIGN CAP -  
PERMITTED CAP.*

To operate a 2.50 MGD AADF conventional activated sludge wastewater treatment plant with vortex grit removal, dual 1.25 MGD AADF Sanitaire activated sludge unit processes operated in parallel, secondary clarification, tertiary sand filtration (traveling bridge type) with the final disinfected and dechlorinated effluent discharged to a stormwater drainage ditch that flows to Fishing Creek (Class III waters). Wastewater treatment plant residuals are stabilized by aerobic digestion prior to hauling to a land application site.

Proposed improvements to the facility include the construction of a 2.5 MGD AADF U-V disinfection system to replace the existing disinfection and dechlorination systems. The existing chlorine contact chamber will be decommissioned.

**PERMITTEE:**  
United Water Florida, Inc.  
Philip Heil, Vice President  
Jacksonville Heights WWTP

**PERMIT NUMBER:** FL0023671  
**ISSUANCE DATE:** Draft  
**EXPIRATION DATE:** April 1, 1998  
**FACILITY LD. :** FL00236671(3116P01970)

**EFFLUENT DISPOSAL:**

**Surface Water Discharge:** An existing 2.50 MGD AADF permitted discharge to the stormwater drainage ditch leading to Fishing Creek (Class III) through outfall # 01; a 12-inch diameter outfall located along the eastern portion of the wastewater treatment plant property.

**IN ACCORDANCE WITH:** The application received on July 17, 1995, and additional information submitted through August 25, 1995 and limitations, monitoring requirements and other conditions set forth in the pages 1 through 22 of this permit.

**DRAFT**

**I. Effluent Limitations and Monitoring Requirements**

**A. Interim Surface Water Discharge Limits**

- During the period beginning on the issuance date and lasting through the completion and placing into service of the proposed U-V disinfection system or the expiration date of this permit whichever occurs first, the permittee is authorized to discharge effluent from Outfall D001 to the unnamed ditch to Fishing Creek. Such discharge shall be limited and monitored by the permittee as specified below:  
 [62-600, 6-8-93] [62-601, 5-31-93] [62-650, 11-27-89] [62-302, 1-5-93] [62-610.860, 4-2-90]

Parameter	Units	Max/Min	Effluent Limitations				Monitoring Requirements			Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	
Flow	mgd	Maximum	2.50	-	-	-	Continuous	Meter or Instrument	D001	See I.A.4.
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	8	8	12	16	Weekly	8-hour flow-composite	D001	
Total Suspended Solids	mg/L	Maximum	20	30 20	45	60	Weekly	8-hour flow-composite	D001	
Fecal Coliform Bacteria	See Permit Condition I. A.5.						Weekly	Grab	D001	
pH	std. units	Range	-	-	-	6.0 to 8.5	Continuous	Grab	D001	See I.A.3.
Total Residual Chlorine (For Disinfection)	mg/L	Minimum	-	-	-	0.5	Continuous	Meter or Instrument	I002	See I.A.3., 6., and 9.
Total Residual Chlorine (For Dechlorination)	mg/L	Maximum	-	-	-	0.01	Weekly	Grab	D001	See I.A.
Total Ammonia, as N	mg/l	Maximum	1.6	2.0	2.4	3.2	Weekly	8-hour flow-composite	D001	See I.A.11
Unionized Ammonia, as N	mg/L	Maximum	-	-	-	0.02	Weekly	Calculated	D001	See I.B.11
Temperature	°C	Range	-	Report	-	Report	Weekly	Meter or Instrument	D001	See I.B.11
Dissolved Oxygen	mg/l	Minimum	-	-	-	6.0	Daily, 7/week	Meter or Instrument	D001	
Whole Effluent Toxicity	See Permit Condition I. A.7.									
Nutrient Monitoring	See Permit Condition I.A.10									
Stream Monitoring	See Permit Condition I.A.12									

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OK Just until the system is properly operating.

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

Monitoring Location Site Number	Description of Monitoring Location
D001	After final treatment immediately prior to discharge to stormwater drainage ditch.
I002	After disinfection but prior to dechlorination.

3. Hourly measurement during the period of required operator attendance may be substituted for continuous measurement for pH and TRC. [Chapter 62-601, Figure 2, Footnotes 1 and 2, 5-31-93]
4. A recording flowmeter and totalizer shall be utilized to measure flow. [62-601.200(17) and .500(6), 5-31-93]
5. The arithmetic mean of the monthly fecal coliform values collected during an annual period shall not exceed 200 per 100 mL of effluent sample. The geometric mean of the fecal coliform values for a minimum of 10 samples of effluent collected on a separate day during a period of 30 consecutive days (monthly), shall not exceed 20 per 100 mL of sample. No more than 10 percent of the samples collected during a period of 30 consecutive days shall exceed 100 fecal coliform values per 100 mL of sample. Any one sample shall not exceed 800 fecal coliform values per 100 mL of sample. [62-600.440(4)(c), 6-8-93]
6. A minimum of 0.5 mg/L total residual chlorine must be maintained for a minimum contact time of 15 minutes based on peak hourly flow. [62-600.440(4)(b), 6-8-93]
7. The Permittee shall initiate the series of tests described below beginning in January 1994 to evaluate chronic whole effluent toxicity of the discharge from outfall D001. All test species, procedures and quality assurance criteria used shall be in accordance with Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, EPA/600/4-89/001, or the most current edition. A standard reference toxicant quality assurance test shall be conducted concurrently with each species used in the toxicity tests and the results submitted with the discharge monitoring report (DMR). Alternatively, if monthly QA/QC reference toxicant tests are conducted, these results must be submitted with the DMR.
- a. The Permittee shall conduct a daphnid (Ceriodaphnia dubia) Survival and Reproduction Test and a Fathead Minnow (Pimephales promelas) Larval Survival and Growth Test. These tests shall be conducted using a control (0% effluent) and one test concentration consisting of 100% effluent (equivalent to the Receiving Water Concentration (RWC) of the effluent in the receiving water at critical conditions). The control water and effluent used will be a moderately hard water as described in EPA/600/4-89/001, Section 7 (or most current edition). Unacceptable chronic toxicity will be demonstrated if either test results in a no observable effect concentration (NOEC) less than 100% effluent. All tests results shall be statistically analyzed according to Appendix H, EPA/600/4-89/001, or the most current edition.
- b. For each set of tests conducted, a minimum of three different 24-hour composite samples of final effluent shall be collected and used per the sampling schedule of Section 8.1.4.2, EPA/600/4-89/001 (or the most current edition). All test solution shall be renewed daily. If test results do not meet the acceptability criteria of either Section 12, paragraph 12.10 or Section 10, paragraph 11.11, EPA/600/4-89/001 (or the most current edition), that test shall be repeated. A chronic test will be considered valid only if the acceptability criteria referenced above are met.
- c. If 100% mortality occurs in the RWC test concentration prior to the end of the test and control mortality is acceptable at that time, that test (including the control) shall be terminated with the conclusion that the sample demonstrates unacceptable chronic toxicity.
- d. The toxicity tests specified above shall be conducted once every two months until 6 valid bimonthly tests have been completed, and once every 6 months thereafter for the duration of the permit, unless notified otherwise by the Department. These tests are referred to as "routine" tests.

e. Results from "routine" tests shall be reported according to EPA/600/4-89/001, Section 9, Report Preparation (or the most current edition), and shall be submitted as an attachment to the discharge monitoring report. The results shall be entered on the DMR in the following manner:

1. For the chronic test results, if the NOEC of a test species is less than 100% effluent, '<100%' shall be entered on the DMR for that species. If the NOEC of a test species is greater than or equal to 100% effluent, '>100%' shall be entered.

f. If any such routine screening tests indicate that unacceptable toxicity (a NOEC less than 100 % effluent in either test) is found in any sample of effluent, the Permittee shall conduct two additional chronic toxicity tests on the specie(s) indicating unacceptable chronic toxicity. For each additional test, the same collection requirements and test acceptability criteria specified under a. and b. above must be met for the test to be considered valid. The first test shall begin within two weeks of the end of the "routine" tests, and the second shall be conducted two weeks later. If either or both of these tests are invalid, additional test(s) are to be conducted every two weeks until two valid tests are completed (e.g., if the first test is valid and the second is invalid, the Permittee shall continue to conduct tests until one or more test is valid). The additional tests shall be used to determine if the toxicity found in the "routine" test is still present.

1. For "routine" tests with unacceptable chronic toxicity, the permittee shall conduct additional daphnid (Ceriodaphnia dubia) Survival and Reproduction and/or fathead minnow (Pimephales promelas) Survival and Growth multi-concentration tests, as appropriate. The tests will be conducted on a control, 100% effluent, and the following % effluent concentrations: 6.25%, 12.5%, 25.0%, and 50.0%.

g. Results from the additional definitive tests, required due to unacceptable acute toxicity in the "routine" tests, shall be submitted in a single report prepared according to EPA/600/4-89/001, Section 9, Report Preparation (or the most current edition) and submitted within 45 days of completion of the third additional, valid definitive test. Upon review of the definitive toxicity test results, test concentrations may be modified by the Department to improve the statistical confidence of the analyses. In this case, the Permittee shall be notified and will have 30 days to comply with such changes.

h. For all tests conducted, a final effluent sample must be used.

[Rule 62-302.500(1)(d), FAC]

8. Florida water quality criteria and standards shall not be violated as a result of the discharge. [Chapter 62-600.500, 6-8-93]
9. Field Testing, sample collection and preservation, laboratory testing, including quality control procedures, and all record keeping shall comply with Chapter 62-160, FAC. Compliance of reported results shall be in accordance with Rule 62-4.246, FAC. Each effluent parameter has an applicable method detection limit (MDL) and a practical quantitative limit (PQL) as follows:

ANALYTE	RECOMMENDED MDL	TARGET PQL	EPA METHOD
Dissolved Oxygen	100.0	500.0	360.1 or 360.2
Total chlorine residual	10.0 200.0	10.0 200.0	330.1 or 330.5

Units are microgram per liter  
Equivalent methods are subject to approval by the Department  
[62-4.246 FAC, 4-30-95]

10. No later than sixty (60) days following permit date of issuance, effluent discharged by the subject facility shall be sampled and tested for the following:

Permittee: ·  
United Water Florida, Inc.  
Jacksonville Heights WWTF

Permit Number: 0023671  
Issuance Date: AFT  
Expiration Date: April 1, 1998

- a. Nitrite nitrogen (NO<sub>2</sub>-N) and nitrate nitrogen (NO<sub>3</sub>-N).
- b. Organic nitrogen.
- c. Total nitrogen.
- d. Orthophosphorus.
- e. Total phosphorus.

An 8-hour flow proportioned composite sample shall be taken at least once every ninety days until further notice is received from the Department. Test results (showing parameters and corresponding concentrations in mg/L) shall be submitted to the Department with the discharge monitoring reports corresponding to the month in which the samples were taken. [62-302.530(48) FAC, 8-8-94]

11. The effluent unionized ammonia content shall be determined from standard procedures (using total ammonia, pH, and temperature) and reported on the Discharge Monitoring Report. The water temperature shall also be recorded and reported in degrees centigrade (°C). [62-302.530(3) FAC, 8-8-94]
12. The Permittee shall continue regular monitoring of the channel in Fishing Creek near the confluence of the stormwater drainage ditch outfall for maintaining data on the impact of the discharge to the water quality of the surface water body. Monitoring shall be on a quarterly basis and shall coincide with the quarterly nutrient monitoring of the facility effluent discharge. The monitoring sites are described as follows:

- #1 approximately 50 meters upstream of the confluence, mid point of creek
- #2 approximately 0.25 miles downstream of the confluence, mid point of creek
- #3 Fishing creek at intersection with Wesconnett Boulevard, mid point of creek

The parameters to be measured shall include the following:

DO, pH, temperature, conductivity, salinity, Secchi Disk, CBOD<sub>5</sub>, NH<sub>3</sub>-N, TKN, TP, tide stage, alkalinity,

Metered parameters (DO, pH, temperature, conductivity, salinity) shall be sampled at the surface, mid-depth and at the bottom. Grab samples at mid depth for the other parameters is adequate. The results of the benthic monitoring shall be submitted to the Northeast District Office. [62-4.240(3)(c), 4-30-95]

**B. Final Surface Water Discharge Limits**

- During the period beginning upon the completion and placing into service of the proposed U-V disinfection system and lasting through expiration date of this permit, the permittee is authorized to discharge effluent from Outfall D001 to the unnamed ditch to Fishing Creek. Such discharge shall be limited and monitored by the permittee as specified below:  
 [62-600, 6-8-93] [62-601, 5-31-93] [62-650, 11-27-89] [62-302, 8-8-94] [62-610.860, 4-2-90]

Parameter	Units	Max/Min	Effluent Limitations				Monitoring Requirements			
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow	mgd	Maximum	2.5	-	-	-	Continuous	Meter or Instrument	D001	See I.B.4.
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	8	8	12	16	Weekly	8-hour flow-composite	D001	
Total Suspended Solids	mg/L	Maximum	20	30 20	45	60	Weekly	8-hour flow-composite	D001	
Fecal Coliform Bacteria	See Permit Condition I. B.5.						Weekly	Grab	D001	See I. B. 12.
pH	std. units	Range	-	-	-	6.0 to 8.5	Continuous	Grab	D001	See I.B.3.
Total Ammonia, as N	mg/L	Maximum	1.6	2.0	2.4	3.2	Weekly	8-hour flow-composite	D001	
Unionized Ammonia, as N	mg/L	Maximum	-	-	-	0.02	Weekly	Calculated	D001	See I.B.10
Temperature	°C	Range	-	Report	-	Report	Weekly	Meter or Instrument	D001	See I.B.11
Dissolved Oxygen	mg/l	Minimum	-	-	-	6.0	Daily, 7/week	Meter or Instrument	D001	
Whole Effluent Toxicity	See Permit Condition I. B.6.									
Nutrient Monitoring	See Permit Condition I.B.9									
Stream Monitoring	See Permit Condition I.B.11									

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Permittee:  
United Water Florida, Inc.  
Jacksonville Heights WWTF

Permit Number: FL0023671  
Issuance Date: DRAFT  
Expiration Date: April 1, 1998

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

Monitoring Location Site Number	Description of Monitoring Location
D001	After final treatment immediately prior to discharge to the stormwater drainage ditch.

3. Hourly measurement during the period of required operator attendance may be substituted for continuous measurement for pH. [Chapter 62-601, Figure 2, Footnote 1, 5-31-93]
4. A recording flowmeter and totalizer shall be utilized to measure flow. [62-601.200(17), 62-601.200(6), 5-31-93]
5. The arithmetic mean of the monthly fecal coliform values collected during an annual period shall not exceed 200 per 100 mL of effluent sample. The geometric mean of the fecal coliform values for a minimum of 10 samples of effluent each collected on a separate day during a period of 30 consecutive days (monthly) shall not exceed 200 per 100 mL of sample. No more than 10 percent of the samples collected during a period of 30 consecutive days shall exceed 400 fecal coliform values per 100 mL of sample. Any one sample shall not exceed 300 fecal coliform values per 100 mL of sample. [62-600.440(4)(c), 6-8-93]
6. The Permittee shall initiate the series of tests described below beginning in January 1994 to evaluate chronic whole effluent toxicity of the discharge from outfall D. The test species, procedures and quality assurance criteria used shall be in accordance with Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, EPA/600/4-89/001, or the most current edition. A standard reference toxicant quality assurance test shall be conducted concurrently with each species used in the toxicity tests and the results submitted with the discharge monitoring report (DMR). Alternatively, if monthly QA/QC reference toxicant tests are conducted, these results must be submitted with the DMR.
- a. The Permittee shall conduct a daphnid (*Ceriodaphnia dubia*) Survival and Reproduction Test and a Fathead Minnow (*Pimephales promelas*) Larval Survival and Growth Test. These tests shall be conducted using a control (0% effluent) and one test concentration consisting of 100% effluent (equivalent to the Receiving Water Concentration (RWC) of the effluent in the receiving water at critical conditions). The control water and effluent used will be a moderately hard water as described in EPA/600/4-89/001, Section 7 (or most current edition). Unacceptable chronic toxicity will be demonstrated if either test results in a no observable effect concentration (NOEC) less than 100% effluent. All test results shall be statistically analyzed according to Appendix H, EPA/600/4-89/001, or the most current edition.
- b. For each set of tests conducted, a minimum of three different 24-hour composite samples of final effluent shall be collected and used per the sampling schedule of Section 8.1.4.2, EPA/600/4-89/001 (or the most current edition). All test solution shall be renewed daily. If test results do not meet the acceptability criteria of either Section 12, paragraph 12.10 or Section 10, paragraph 11.11, EPA/600/4-89/001 (or the most current edition), that test shall be repeated. A chronic test will be considered valid only if the acceptability criteria referenced above are met.
- c. If 100% mortality occurs in the RWC test concentration prior to the end of the test and control mortality is acceptable at that time, that test (including the control) shall be terminated with the conclusion that the sample demonstrates unacceptable chronic toxicity.
- d. The toxicity tests specified above shall be conducted once every two months until 6 valid bimonthly tests have been completed, and once every 6 months thereafter for the duration of the permit, unless notified otherwise by the Department. These tests are referred to as "routine" tests.

Toxicity



Permittee:  
United Water Florida, Inc.  
Jacksonville Heights WWTF

Permit Number: FL0023671  
Issuance Date: DRAFT  
Expiration Date: April 1, 1998

e. Results from "routine" tests shall be reported according to EPA/600/4-89/001, Section 9, Report Preparation (or the most current edition), and shall be submitted as an attachment to the discharge monitoring report. The results shall be entered on the DMR in the following manner:

1. For the chronic test results, if the NOEC of a test species is less than 100% effluent, '<100%' shall be entered on the DMR for that species. If the NOEC of a test species is greater than or equal to 100% effluent, '>100%' shall be entered.

f. If any such routine screening tests indicate that unacceptable toxicity (a NOEC less than 100 % effluent in either test) is found in any sample of effluent, the Permittee shall conduct two additional chronic toxicity tests on the specie(s) indicating unacceptable chronic toxicity. For each additional test, the sample collection requirements and test acceptability criteria specified under a. and b. above must be met for the tests to be considered valid. The first test shall begin within two weeks of the end of the "routine" tests, and the second test shall be conducted two weeks later. If either or both of these tests are valid, additional test(s) are to be conducted every two weeks until two valid tests are completed (e.g., if the first test is valid and the second test is not, the permittee shall continue to conduct tests until one or more test is valid). The additional tests will be used to determine if the toxicity found in the "routine" tests is still present.

1. For "routine" tests with unacceptable chronic toxicity, the permittee shall conduct additional daphnid (*Ceriodaphnia dubia*) Survival and Growth multi-concentration tests and fathead minnow (*Pimephales promelas*) Survival and Growth multi-concentration tests, as appropriate. The tests will be conducted on a control, 100% effluent, and the following effluent concentrations: 6.25%, 12.5%, 25.0%, and 50.0%.

g. Results from the additional definitive tests, required due to unacceptable acute toxicity in the "routine" tests, shall be submitted in a single report prepared according to EPA/600/4-89/001, Section 9, Report Preparation (or the most current edition) and submitted within 45 days of completion of the third additional, valid definitive test. Upon review of the definitive toxicity test results, test concentrations may be modified by the Department to improve the statistical confidence of the analyses. In this case, the Permittee shall be notified and will have 30 days to comply with such changes.

h. For all tests conducted, a final effluent sample must be used.

[Rule 62-302.500(1)(d), FAC]

7. Florida water quality criteria and standards shall not be violated as a result of the discharge. [62-600.500, 6-8-93]
8. Field Testing, sample collection and preservation, laboratory testing, including quality control procedures, and all record keeping shall comply with Chapter 62-160, FAC. Compliance of reported results shall be in accordance with Rule 62-4.246, FAC. Each effluent parameter has an applicable method detection limit (MDL) and a practical quantitative limit (PQL) as follows:

ANALYTE	RECOMMENDED MDL	TARGET PQL	EPA METHOD
Dissolved Oxygen	100.0	500.0	360.1 or 360.2

Units are microgram per liter  
Equivalent methods are subject to approval by the Department  
[62-4.246 FAC, 4-30-95]

9. No later than sixty (60) days following permit date of issuance, effluent discharged by the subject facility shall be sampled and tested for the following:

Permittee:  
United Water Florida, Inc.  
Jacksonville Heights WWTF

Permit Number: FL0023671  
Issuance Date: DRAFT  
Expiration Date: April 1, 1998

- a. Nitrite nitrogen (NO<sub>2</sub>-N) and nitrate nitrogen (NO<sub>3</sub>-N).
- b. Organic nitrogen.
- c. Total nitrogen.
- d. Orthophosphorus.
- e. Total phosphorus.

An 8-hour flow proportioned composite sample shall be taken at least once every ninety (90) days until further notice is received from the Department. Test results (showing parameters and corresponding concentrations in mg/L) shall be submitted to the Department with the discharge monitoring report corresponding to the month in which the samples were taken. [62-302.530(48), 8-8-94]

10. The effluent unionized ammonia content shall be determined from standard ammonia samples ( using total ammonia, pH, and temperature) and reported on the Discharge Monitoring Report. The effluent temperature shall also be recorded and reported in degrees centigrade (°C). [62-302.530(49) FAC, 8-8-94]
11. The Permittee shall continue regular monitoring of the segment of Fishing Creek near the confluence of the stormwater drainage ditch outfall for maintaining data on the impact of the discharge to the water quality of the surface water body. Monitoring shall be on a quarterly basis and shall coincide with the quarterly nutrient monitoring of the facility effluent discharge. The monitoring sites are described as follows:  

#1	approximately 50 meters upstream of the confluence, mid point of creek
#2	approximately 0.25 miles downstream of the confluence, mid point of creek
#3	Fishing creek at intersection with Wesconnett Boulevard, mid point of creek

The parameters to be measured shall include the following:

DO, pH, temperature, conductivity, salinity, Secchi Disk, CBOD<sub>5</sub>, NH<sub>3</sub>-N, TKN, TP, tide stage, alkalinity,

Metered parameters (DO, pH, temperature, conductivity, salinity) shall be sampled at the surface, mid-depth and at the bottom. Grab samples at mid depth for the other parameters is adequate. The results of the benthic monitoring shall be submitted to the Northeast District Office. [62-4.240(3)(c), 4-30-95]

12. This facility utilizes an ultraviolet disinfection system . This UV system shall be monitored on a daily basis and the intensity and unit operation shall be verified. The operation and maintenance shall be performed on a regular basis in accordance with the manufacturer recommended factor of safety. Routine cleaning and bulb replacement practices shall be maintained. [ 62-600.440(4)(b), 6-8-93]

Permittee:  
 United Water Florida, Inc.  
 Jacksonville Heights WWTF

Permit Number: FL0023671  
 Issuance Date: DRAFT  
 Expiration Date: April 1, 1998

**C. Other Limitations and Monitoring and Reporting Requirements**

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the treatment facility shall be limited and monitored by the permittee as specified below:

*[17-601.300(1), 5-31-93]*

Parameter	Units	Max/Min	Limitations				Monitoring Requirements				Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number		
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	-	-	-	-	-	Weekly	8-hour composite	I001	See I.C.3	
Total Suspended Solids	mg/L	-	-	-	-	-	Weekly	8-hour composite	I001	See I.C.3	

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

Monitoring Location Site Number	Description of Monitoring Location
I001	Following preliminary treatment (i.e. screen) at influent structure

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(1), 5-31-93]
4. All flow measuring device(s) shall be calibrated at least annually. [62-601.500(6) and 62-601.200(17), 5-31-93]
5. Parameters which must be monitored as a result of a surface water discharge shall be analyzed using a sufficiently sensitive method in accordance with 40 CFR Part 136. [62-620.610(18), 11-29-94]
6. 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), 5-31-93]
7. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department on a monthly basis a Discharge Monitoring Report (DMR), Form 62-620.910(10), for each outfall, discharge point, and reuse system specified in Item(s) I.A. and I.B. above. The DMR shall include the test results for the parameters required to be sampled on the attached DMR form. The DMR shall be submitted 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 Facilities Regulation Section, Mail Station 3551  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

[62-620.610(18), 11-29-94][62-601.300(1), (2), and (3), 5-31-93]

8. Unless specified otherwise in this permit, all reports and notifications 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  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7577

Phone Number - (904) 448-4330  
FAX Number - (904) 448-4366

## II. Residuals Management Requirements

### Basic Management Requirements

1. The method of residuals use or disposal by this facility is land application.
2. Land application of residuals shall be in accordance with the conditions of this permit and the requirements of Chapter 62-640, F.A.C. [62-640, 3-1-91]

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3. The domestic wastewater residuals for this facility are classified as stabilization Class B.
4. The wastewater treatment facility permittee shall be responsible for proper handling, use, and disposal of its residuals and will be held responsible for any disposal violations that occur unless the permittee can demonstrate that it has delivered residuals that meet the chemical criteria and appropriate stabilization requirements of this permit and that the disposer (e.g. hauler, contractor, or disposal/land application site owner) has legally agreed in writing to accept responsibility for proper disposal. [62-640.300(3), 3-1-91]
5. The permittee shall sample and analyze the residuals at least once every month. All samples shall be representative and shall be taken after final treatment of the residuals but before use or disposal. Sampling and analysis shall be in accordance with the U.S. Environmental Protection Agency publication - POTW Sludge Sampling and Analysis Guidance Document, 1987. The following parameters shall be sampled and analyzed:

Parameter	Maximum Concentration	Maximum Cumulative Loading
Total Nitrogen	(Report only) % dry weight	Not applicable
Total Phosphorus	(Report only) % dry weight	Not applicable
Total Potassium	(Report only) % dry weight	Not applicable
Cadmium	100 mg/kg dry weight	4.4 pounds /acre
Copper	3000 mg/kg dry weight	125 pounds/acre
Lead	1500 mg/kg dry weight	500 pounds/acre
Nickel	500 mg/kg dry weight	125 pounds/acre
Zinc	10,000 mg/kg dry weight	250 pounds/acre
pH	(Report only) standard units	Not applicable
Total Solids	(Report only) %	Not applicable

A copy of the analyses shall be submitted with the discharge monitoring report.

[62-640.700(1)(a), (b), (e), and (f); (2); 3(e); and (4)(f) and 62-640.500(1)(d), 3-1-91]

6. Florida water quality criteria and standards shall not be violated as a result of land application of residuals. [62-640.700(3)(c), 3-1-91]

**Agricultural Sites**

7. Class B residuals shall not be used on unrestricted access areas. [62-640.600(6)(b), 3-1-91]

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8. Class B residuals application shall be in accordance with the Agricultural Use Plan approved by the Department for this facility. [62-640.300(1), 3-1-91]
9. Root crops, and fruits and vegetables which touch the soil and which are to be consumed raw shall not be grown on the application site for 18 months after the last application of Class B residuals. [62-640.600(6)(c), 3-1-91]
10. Fruits and vegetables which do not touch the soil and which are to be consumed raw shall not be harvested from the application site for 30 days following the last application of Class B residuals. Orchard tree crops, which do not come in contact with the residuals due to the application method, are exempted. This exemption does not apply to orchard tree crops which have fallen to the ground before harvesting. [62-640.600(6)(d), 3-1-91]
11. Pasture vegetation on the application site shall not be cut or used for grazing by livestock for 30 days following the last application of Class B residuals. [62-640.600(6)(e), 3-1-91]
12. The public shall be restricted from the application area for 18 months after the last application of Class B residuals. [62-640.600(6)(f), 3-1-91]
13. The wastewater treatment facility permittee shall apply for a minor permit revision on DEP Form 62-620.910(9) for new, modified, or expanded residuals application sites. The facility's permit shall be revised to include the new or revised Agricultural Use Plan(s) prior to application of residuals to the new, modified, or expanded sites. The current Agricultural Use Plan identifies residuals landspreading on the following sites:

Site Name	Application Area (acres)	Site Location	
		City	County
Maguire Timber	50	St. Augustine	St. Johns
Higgenbotham	263	Jacksonville	Duval
Kennedy	150	Jacksonville	Duval

[62-620.330, 11-29-94]

14. Annual residuals application rates shall not exceed the agronomic rates based on the nitrogen requirements of the site vegetation in accordance with the approved Agricultural Use Plan. [62-640.700(3)(d), 3-1-91]
15. Residuals shall be applied with techniques and equipment to assure uniform application over the site. [62-640.700(3)(n), 3-1-91]
16. The pH of the domestic wastewater residuals soil mixture shall be 6.5 or greater at the time domestic wastewater residuals are applied. At a minimum, testing shall be done annually. [62-640.700(3)(h), 3-1-91]
17. The agricultural use plans identifying the Maguire (as per agricultural use plan received April 12, 1995), Higgenbotham (as per agricultural use plan received July 18, 1995), and Kennedy (as per agricultural use plan received July 18, 1995) sites are hereby incorporated as a part of this permit. The permittee shall provide annual updates to the Agricultural Use Plans; including the following:
  - a. A summary of the total domestic wastewater residuals, nitrogen, and heavy metals applied on an annual basis for each specific area of application within the total application area.

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- b. The heavy metals and nitrogen application rates and the cumulative totals applied by all other wastewater facilities that utilize the same portion of the land application site (as the subject WWTP) for disposal of domestic wastewater residuals for each specific area of application within the total application area.
  - c. The pH of the residuals/soils mixture for the land application site.
  - d. The above specified information shall be current to within forty-five (45) days of the date of submittal.
18. The permittee shall maintain records of application areas and application rates on DEP Form 62-640.900(3) and shall have these records available for inspection upon request of the Department or the appropriate Local Environmental Program (WQD). These records shall include:
- a. Date of application of the residuals,
  - b. Location of the residuals application site,
  - c. Amount of residuals applied or deleted,
  - d. Identification of specific areas of the site where residuals were applied and acreage of that area,
  - e. Method of incorporation of residuals,
  - f. Water table level at time of application, and
  - g. Concentration of nitrogen and heavy metals in the residuals, percent solids, and date of last analysis.

The Department reserves the right to prohibit land application of domestic wastewater residuals if a test analysis, an updated agricultural use plan, or an inspection of the land application site do not provide reasonable assurance of compliance with Chapter 62-640, FAC.

*[62-640.700(3)(e) and (p), 3-1-91]*

### III. Groundwater Monitoring Requirements - Not Applicable

### IV. Additional Reuse and Land Application Requirements - Not Applicable

### V. Operation and Maintenance Requirements

#### 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 61E12-41, F.A.C. In accordance with Chapter 62-699, F.A.C., this facility is a Category I, Class B facility and, at a minimum, operators with appropriate certification must be on the site as follows:

A Class C or higher operator 8 hours/day for 7 days/week. The lead operator must be a Class B operator, or higher.

The 8 hours/day attendance period is reduced from 16 hours/day because the on-site Supervisory Control and Data Acquisition (SCADA) system complies with the requirements of 62-699.311(3), FAC.

*[62-699, 5-20-94] [62-620.630(3), 11-29-94][62-699.310, 5-20-92]*

2. The lead operator shall be on duty for one full shift each duty day. A certified operator shall be on-site and in charge of each required shift and for periods of required staffing time when the lead operator is not on-site. A certified operator shall be on call during periods the plant is unattended. *[62-699.311(10), (5), and (1), 5-20-92]*

#### Capacity Analysis Report and Operation and Maintenance Performance Report Requirements

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3. An updated capacity analysis report shall be submitted to the Department annually by July 1st of each year. The updated capacity analysis report shall be prepared in accordance with Rule 62-600.405, F.A.C. [62-600.405(5), 6-8-93]
4. 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), 6-8-93]

**Recordkeeping Requirements**

5. 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 calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation and 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;
  - 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 the facility record drawings;
  - h. Copies of the licenses of the current certified operators; and
  - 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 certification 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; tests performed and samples taken; and major repairs made. 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.

[62-620.350,11-29-94][61E12-41.010(1)(e), 11-02-93]

**VI. Compliance Schedules and Self-imposed Improvement Schedules**

1. The following construction schedule for the construction of the proposed 2.5 MGD U-V disinfection system shall be followed, unless notification of a schedule revision is provided to the Department:

Implementation Step	Scheduled Completion Date
Place the proposed U-V disinfection system into operation.	February 1996

[62-620.450(3)(a), 11-29-94]

**VII. Industrial Pretreatment Program Requirements - Not Applicable**



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### VIII Other Specific Conditions

1. Prior to placing the proposed 2.5 MGD U-V disinfection system into operation for any purpose other than testing for leaks and equipment operation, the permittee shall complete and submit to the Department DEP Form 62-620.910(12), Notification of Completion of Construction for Domestic Wastewater Facilities. [62-620.630(2), 11-29-94]
2. Within six months after a facility is placed in operation, the permittee shall provide written certification to the Department on Form 62-620.910(13) that record drawings pursuant to Chapter 62-600, F.A.C., and that an operation and maintenance manual pursuant to Chapters 62-600 and 62-610, F.A.C., as applicable, are available at the location specified on the form. [62-620.630(7), 11-29-94]
3. If the permittee wishes to continue operation of this wastewater facility after the expiration date of this permit, the permittee shall submit an application for renewal, using Department Forms 62-620.910(1) and (2), no later than one-hundred and eighty days (180) prior to the expiration date of this permit. [62-620.410(5), 11-26-94]
4. The facilities shall comply with any conditions that the Secretary of the Army (United States Army Corps of Engineers) considers necessary to ensure that navigation and access will not be substantially impaired. [62-620.620(1)(g), 11-29-94]
5. 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 light adversely affects neighboring developed areas at the levels prohibited by Rule 62-600.400(2)(a), the permittee shall take corrective action (which may include additional maintenance or modifications of the permitted facilities) as required by the Department. Other corrective action may be required to ensure compliance with rules of the Department. [62-600.410(8), 6-8-93]
6. 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. [62-604.130(3), 5-31-93]
7. Collection/transmission system overflows shall be reported to the Department in accordance with Permit Condition IX. 20. [62-604.550, 5-31-93] [62-620.610(20), 11-29-94]
8. The acceptance, by the operating authority of a collection/transmission system or by the permittee of a treatment plant, of 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 treatment plant discharges having temperatures above 40°Cis prohibited.  
[62-604.130(4), 5-31-93]

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9. The treatment facility shall be enclosed with a fence or otherwise provided with features to discourage the entry of animals and unauthorized persons. [62-600.400(2)(b), 6-8-93]
10. 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. [62-7.540, 12-10-85]
11. The permittee shall provide adequate notice to the Department of the following:
  - a. Any new introduction of pollutants into the facility from an industrial discharge which would be subject to Chapter 403, F.S., and the requirements of Chapter 62-620 F.A.C. for the direct or indirect discharging of 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 which was discharging at the time the permit was issued.

Adequate notice shall include information on the 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), 11-29-94]

#### 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), 11-29-94]
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), 11-29-94]
3. As provided in Subsection 403.087(6), 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), 11-29-94]
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), 11-29-94]
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), 11-29-94]
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), 11-29-94]

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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), 11-29-94]
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 unannounced changes or anticipated noncompliance does not stay any permit condition. [62-620.610(8), 11-29-94]
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, where 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), 11-29-94]
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, Florida Statutes, or Rule 62-620.302, Florida Administrative Code. 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), 11-29-94]
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), 11-29-94]
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), 11-29-94]
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), 11-29-94]
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), 11-29-94]

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15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. [62-620.610(15), 11-29-94]
16. The permittee shall apply for a revision to the Department permit in accordance with Rule 62-620.300, 62-620.420 or 62-620.450, F.A.C., as applicable, at least 90 days before construction of a planned substantial modifications to the permitted facility is to commence or with Rule 62-620.300 for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins, as provided in Rule 62-620.300, F.A.C. [62-620.610(16), 11-29-94]
17. The permittee shall give advance notice to the Department of any changes to 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), 11-29-94]
18. Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246, Chapters 62-160 and 62-601, 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).
  - 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. Any laboratory test required by this permit for domestic wastewater facilities shall be performed by a laboratory that has been certified by the Department of Health and Rehabilitative Services (DHRS) under Chapter 10D41, F.A.C., to perform the test. On-site tests for dissolved oxygen, pH, and total chlorine residual shall be performed by a laboratory certified to test for those parameters or under the direction of an operator certified under Chapter 61E12-41, F.A.C.
  - e. Under Chapter 62-160, F.A.C., sample collection shall be performed by following the protocols outlined in "DER Standard Operating Procedures for Laboratory Operations and Sample Collection Activities" (DER-QA-001/92). Alternatively, sample collection may be performed by an organization who has an approved Comprehensive Quality Assurance Plan (CompQAP) on file with the Department. The CompQAP shall be approved for collection of samples from the required matrices and for the required tests.
- [62-620.610(18), 11-29-94]
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), 11-29-94]

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20. The permittee shall report to the Department 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 upon 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 pollutant specifically listed in the permit for such notice, and
  4. Any unauthorized discharge to surface or ground
- b. 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 shall waive the written report.

[62-620.610(20), 11-29-94]

21. The permittee shall report all instances of noncompliance not reported under Permit Conditions IX. 18. and 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), 11-29-94]

22. Bypass Provisions.

- a. 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. b. of this permit.
- b. 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.
- c. 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. a. 1. through 3. of this permit.

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- d. 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. a. through c. of this permit.

[62-620.610(22), 11-29-94]

23. Upset Provisions

- a. 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.
- b. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.
- c. 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), 11-29-94]

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

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Jerry M. Owen, P.E.  
Water Facilities Administrator

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT TRANSFER and all copies were mailed by certified mail before the close of business on \_\_\_\_\_, 1995 to the listed persons.

**FACT SHEET  
FOR  
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DOMESTIC WASTEWATER FACILITY PERMIT**

Permit Number: FL0023671

Application Date: July 17, 1995

Application Complete: August 25, 1995

Permit Writer: David J. Bolam, P.E.

Public Notice Date: \_\_\_\_\_

1. SYNOPSIS OF APPLICATION

a. Name and Address of Applicant

Philip Heil, Vice President  
United Water Florida  
1400 Millcoe Road  
Jacksonville, Florida 32225

For:

Jacksonville Heights WWTF  
5957 Tampico Road  
Jacksonville, Florida 32244

b. Type of Facility

Domestic Wastewater Treatment Plant  
Privately-owned treatment works  
Standard Industrial Classification Code: 4952

c. Facility Capacity

Existing Design Capacity:	2.50 MGD AADF
Proposed Increase in Design Capacity:	0.00 MGD AADF
Proposed Total Design Capacity:	2.50 MGD AADF

Existing Permitted Capacity:	2.50 MGD AADF
Proposed Increase in Permitted Capacity:	0.00 MGD AADF
Proposed Total Permitted Capacity:	2.50 MGD AADF

d. Description of Facilities

To operate a 2.50 MGD AADF conventional activated sludge-wastewater treatment plant with vortex grit removal, dual 1.25 MGD AADF Sanitaire activated sludge unit processes operated in parallel, secondary clarification, tertiary sand filtration (traveling bridge type) with the final disinfected and dechlorinated effluent discharged to a stormwater drainage ditch that flows to Fishing Creek (Class III waters). Wastewater treatment plant residuals are stabilized by aerobic digestion prior to hauling to a land application site.

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Proposed improvements to the facility include the construction of a 2.5 MGD AADF U-V disinfection system to replace the existing chlorine disinfection and dechlorination systems. The existing chlorine contact chamber will be decommissioned.

e. Applicant's Effluent Disposal and Reuse Location(s)

Surface Water Discharge: An existing 2.50 MGD AADF permitted discharge to the stormwater drainage ditch leading to Fishing Creek (Clermont) through outfall D001; a 12-inch diameter outfall located along the eastern portion of the wastewater treatment plant property.

Latitude: 30° 14' 15" N Longitude: 82° 45' 05" W

See Attachment 1 for a map showing the location of the receiving waters and discharge location.

f. Description of Effluent Discharge (as reported by applicant)

Outfall Serial Number D001:

Annual Average Daily Flow (MGD): 2.5

pH Range (Standard Units): 6.0 to 8.5

Pollutants which are present in significant quantities or which are subject to effluent or reclaimed water limitations are as follows:

Parameters	Reported Data		
	Annual Avg.	Lowest Monthly Avg.	Highest Monthly Avg.
CBOD <sub>5</sub> , mg/L	8	--	10
TSS, mg/L	20	--	30
Ammonia, mg/L as N	1.6	--	2.0
Dissolved Oxygen, mg/L	6.0	--	
Fecal Coliform, #/100 ml	--	--	800
TRC (for dechlorination), mg/L	--	--	0.01



2. PROPOSED EFFLUENT LIMITATIONS

Outfall Serial Number D001:

Parameters	Effluent or Reclaimed Water Limitations				
	Maximum/ Minimum	Annual Average	Monthly Average	Weekly Average	Single Sample
Flow, MGD (Interim)	Maximum	2.5			
CBOD <sub>5</sub> , mg/L	Maximum	8	8	22	16
TSS, mg/L	Maximum	20	20	15	60
Fecal Coliform, #/100 ml	Maximum	<200	-	-	<800
TRC (for disinfection), mg/L	Minimum	--	-	-	0.5
TRC (for dechlorination), mg/L	Maximum	--	-	-	0.01
pH, std. units	Range	6.0 to 8.5			
Total Ammonia as N, mg/L	Maximum	1.0		2.4	3.2
Unionized Ammonia, mg/L	Maximum			--	0.02
Dissolved Oxygen, mg/L	Minimum		--	--	6.0
Whole Effluent Toxicity	See discussion below				

The Permittee shall conduct a daphnid (*Ceriodaphnia dubia*) Survival and Reproduction Test and a Fathead Minnow (*Pimephales promelas*) Larval Survival and Growth Test. These tests shall be conducted using a control (0% effluent) and one test concentration consisting of 100% effluent (equivalent to the Receiving Water Concentration (RWC) of the effluent in the receiving water at critical conditions). The control water and effluent used will be a moderately hard water as described in EPA/600/4-89/001, Section 7 (or most current edition). Unacceptable chronic toxicity will be demonstrated if either test results in a no observable effect concentration (NOEC) less than 100% effluent.

3. BASIS FOR EFFLUENT AND RECLAIMED WATER LIMITS AND MONITORING REQUIREMENTS (INCLUDING INFLUENT MONITORING REQUIREMENTS)

See the table below for the rationale for the Parts I.A & B provisions.

Outfall D001:

Parameter		Basis for Limit/Monitoring Requirement
Flow	Annual ADF	62-600.400(3)(b) FAC
CBOD <sub>5</sub>	Annual Average	62-650
	Monthly Average	62-650
	Weekly Average	62-650
	Single Sample Max.	62-650
TSS	Annual Average	62-600.420(1)(a) & 62-600(1)(b) 1.a. FAC
	Monthly Average	Former NPDES permit
	Weekly Average	62-600.740(1) REUSE FAC
	Single Sample Max.	62-600.440(3) T.E. FAC
Total Ammonia as N	Annual Average	62-650
	Monthly Average	62-650
	Weekly Average	62-650
	Single Sample Max.	62-650
Fecal Coliform	Annual Average	62-600.440(4)(c)1. FAC
	Monthly Geo. Mean	62-600.440(4)(c)2. FAC
	Monthly Percentile	62-600.440(4)(c)3. FAC
	Single Sample Max.	62-600.440(4)(c)4. FAC
pH	Minimum and Maximum	62-302.530 FAC
TRC (for disinfection)	Minimum	62-600.440(4)(b) FAC
TRC (for dechlorination)	Single Sample Max.	62-600.440(2) FAC & 62-302.530(19) FAC
Chronic Whole Effluent Toxicity	Single Sample Max.	62-302.530(62), FAC
Unionized Ammonia	Maximum	62-302.530(3) FAC
Dissolved Oxygen	Minimum	62-302.530(31) FAC
Nutrients	Report	62-302.530(48)(a) & (b) FAC
Monitoring Frequency and Sample Type	All Parameters	62-601 FAC & 62-699 FAC and/or BPJ of permit writer
Sampling Location	All Parameters	62-601 FAC and/or BPJ of permit writer

The following were used as the basis of the permit limitations/conditions:

A. FAC refers to various portions of the Florida Administrative Code.

The effective dates of FAC Rule Chapters cited in the table are as follows:

<u>Chapter</u>	<u>Effective Date</u>
62-4	02-02-94
62-302	02-27-95
62-600	06-08-93
62-601	05-31-93
62-620	11-29-94
62-650	11-27-89
62-699	05-20-92

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B. CFR refers to various portions of the Code of Federal Regulations, Title 40.

C. BPJ refers to Best Professional Judgment

Following completion and acceptance by the Department of the proposed U-V disinfection system, the effluent limitations and monitoring requirements for total residual chlorine are no longer effective.

Other Limitations and Monitoring Requirements:

Parameter		Basis for Limit/Monitoring Requirement
CBOD <sub>5</sub>	Monitor & Report	62-601.300(1) FAC
TSS	Monitor & Report	62-601.300(1) FAC

The following were used as the basis of the permit conditions:

A. FAC refers to various portions of the Florida Administrative Code

The effective dates of FAC Rule Chapters cited in the table are as follows:

<u>Chapter</u>	<u>Effective Date</u>
62-600	06-08-93
62-601	05-31-93

4. RESIDUALS MANAGEMENT

Class of residuals stabilization to be provided: Class B

Proposed method of residuals use or disposal: Land application

The current Agricultural Use Plan for this facility identifies residuals land application on the following sites:

Site Name	Application Area (Acres)	Site Location	
		City	County
Higgenbottom	263	Jacksonville	Duval
Eliot Kennedy	150	Jacksonville	Duval
Maguire Timber	50	St. Augustine	St. Johns

See the table below for the rationale for the Part II.A. residuals limits and monitoring requirements.

Parameter		Limit/Monitoring Requirement
Total Nitrogen, % dry weight	Report	62-640.700(1)(b) FAC
Total Phosphorus, % dry weight	Report	62-640.700(1)(b) FAC
Total Potassium, % dry weight	Report	62-640.700(1)(b) FAC
Cadmium, mg/kg dry weight	Maximum	62-640.700(2) FAC
Copper, mg/kg dry weight	Maximum	62-640.700(2) FAC
Lead, mg/kg dry weight	Maximum	62-640.700(2) FAC
Nickel, mg/kg dry weight	Maximum	62-640.700(2) FAC
Zinc, mg/kg dry weight	Maximum	62-640.700(2) FAC
pH, std. units	Report	62-640.700(1)(b) FAC
Total Solids, %	Report	62-640.700(1)(b) FAC
Nitrogen, lb/ac/yr	Maximum	62-640.700(3)(d) FAC
Cadmium, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Copper, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Lead, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Nickel, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Zinc, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Monitoring Frequency	All Parameters	62-640.700(1)(a) FAC

The following was used as the basis of the permit limitations/conditions:

A. FAC refers to various portions of the Florida Administrative Code

The effective date of the FAC Rule Chapter cited in the table is as follows:

<u>Chapter</u>	<u>Effective Date</u>
62-640	03-01-91

5. INDUSTRIAL PRETREATMENT REQUIREMENTS

There are no industrial pretreatment requirements for this facility.

6. REQUESTED VARIANCES OR ALTERNATIVES TO PERMIT STANDARDS

The 8 hours/day attendance period is reduced from 20 hours/day because the on-site Supervisory Control and Data Acquisition (SCADA) system complies with the requirements of 62-699.311(3), FAC.

7. COMPLIANCE SCHEDULE AND EFFECTIVE DATE OF PROPOSED EFFLUENT OR RECLAIMED WATER LIMITATIONS

The schedule completion of the proposed U-V disinfection system is January 1996. The Department has allotted an additional month to complete the construction and to place the facility into operation.

8. DISCUSSION OF PREVIOUS PERMIT EFFLUENT OR RECLAIMED WATER LIMITATIONS

The current wastewater facility permit ( DO16-222480) expires on April 1, 1998 and contains the following effluent or reclaimed water limits:

Parameters	Effluent or Reclaimed Water Limitations				
	Maximum/Minimum	Annual Average	Monthly Average	Weekly Average	Single Sample
Flow, MGD	Maximum	2.50	--	--	--
CBOD <sub>5</sub> , mg/L	Maximum	8	10	12	16
TSS, mg/L	Maximum	20	30	45	60
Fecal Coliform, #/100 ml	Maximum	<200	--	--	<800
Ammonia as N, mg/L	Maximum	1.6	2.0	2.4	3.2
TRC (for disinfection), mg/L	Minimum	--	--	--	0.05
TRC (for dechlorination), mg/L	Maximum	--	--	--	0.01
pH, std. units	Range	6.0 to 8.5			
Whole Effluent Toxicity	See discussion below.				

Chronic whole effluent toxicity testing requirements in permit DO16-222480 is the same as the NPDES permit.

9. NEW OR EXPANDED DISCHARGES TO SURFACE WATERS; ANTIDegradation REQUIREMENTS

None

10. EFFECTS OF SURFACE WATER DISCHARGE ON THREATENED OR ENDANGERED SPECIES

The Department does not anticipate adverse impacts on any threatened or endangered species as a result of permit renewal

11. DEP CONTACT

Additional information concerning the permit may be obtained during normal business hours from:

Florida Department of Environmental Protection  
Northeast District Office  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7577

Phone Number - (904) 448-4330  
EPA Number - (904) 448-4366

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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 11.

13. PROPOSED SCHEDULE FOR PERMIT ISSUANCE

Draft permit to Applicant and EPA .....November 1, 1995  
Proposed Public Comment Period ..... Beginning: December 1, 1995  
Ending: December 31, 1995  
Proposed permit to EPA (if necessary).....January 15, 1995  
Notice of Agency Action ..... January 15, 1995  
Final Department Action.....January 15, 1995

14. 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:

Florida Department of Environmental Protection  
Northeast District Office  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7577

Phone Number - (904) 448-4330  
FAX Number - (904) 448-4366

All comments received within 30 days following the date of publication, 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
- (5) 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 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 a 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;



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

**WHEN COMPLETED MAIL THIS REPORT TO:** Wastewater Facilities Regulation Section, Mail Station 3551,  
Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400

**PERMITTEE NAME:** United Water Florida, Inc.  
**MAILING ADDRESS:** United Water Florida, Inc.  
1400 Millcoe Road  
Jacksonville, Florida 32225  
**FACILITY:** Jacksonville Heights WWTF  
**LOCATION:** 5957 Tampico Road  
Jacksonville, Florida 32244

**PERMIT NUMBER:** FL0023671  
**MONITORING PERIOD--From:**  
**LIMIT:**  
**CLASS SIZE:** Major  
**FACILITY ID:** FL0023671(3116P01970)  
**DISCHARGE POINT NUMBER:** D001  
**PLANT SIZE/TREATMENT TYPE:** B/2

**To:**  
**GROUP:** Domestic

**Please read instructions before completing this form.**

Parameter		Quantity or Loading			Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum			
Flow (Annual Average) 50053	Sample Measurement									
	Permit Requirement	2.50		MGD					Continuous	Meter or Instrument
CBOD5(Annual Average) 80082	Sample Measurement									
	Permit Requirement					8		mg/L	Weekly	8-hour flow Composite
CBOD5(30 day Average) 80082	Sample Measurement									
	Permit Requirement					8	16	mg/L	Weekly	8-hour flow Composite
Total Suspended Solids (Annual Average) 00530	Sample Measurement									
	Permit Requirement					20		mg/L	Weekly	8-hour flow Composite
Total Suspended Solids (30 day Average) 00530	Sample Measurement									
	Permit Requirement					20	60	mg/L	Weekly	8-hour flow Composite
CBOD5 Influent 80082	Sample Measurement									
	Permit Requirement					Report		mg/L	Weekly	8-hour flow Composite
Total Suspended Solids Influent 00530	Sample Measurement									
	Permit Requirement					Report		mg/L	Weekly	8-hour flow Composite

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

<b>NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT (Type or Print)</b>	<b>SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT</b>	<b>TELEPHONE NO.</b> ( )	<b>DATE (YY/MM/DD)</b>

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



**INSTRUCTIONS FOR MONITORING REPORT**

**PART A - Discharge Monitoring Report**

One report shall be completed and submitted for each discharge point, outfall, or testing site listed in the permit. Use additional sheets if necessary. Mail to Department of Environmental Protection at the address shown on the first page of report.

**Permittee Name/Address:** Complete the name as shown on the face of the permit. Complete the mailing address. Place a note beside the mailing address if the address has changed within the past month.

**Facility/Location:** Complete the name of the facility and the address or location of the facility.

**Permit Number:** This is the number of the permit issued to the permittee which contains the monitoring requirements in this report.

**Monitoring Period:** This is the period that the data on this report represents.

**Limit:** This is blank if the data represents interim limits on a facility under construction. If the data represents final limits achieved after construction, the word FINAL will be here.

**Class Size/Group:** The facility classification is either major or minor and the group is either industrial or domestic.

**Facility ID:** This is the identification number of the facility which was assigned by the Department at the time the facility was constructed.

**Discharge Point Number:** This is the number in the permit assigned to the outfall, discharge point, or test site from which this data was collected. Complete one of these reports for each outfall or discharge point from your facility.

**Plant size/Treatment type:** If this facility is a domestic wastewater treatment facility, enter a one digit and one letter code to indicate the type of treatment and the plant size. First record the number from the chart below which represents the type of treatment provided by the facility. Then record the letter that indicates the permitted capacity (plant size) as shown on the chart below.

	Type of Treatment	Plant Size (mgd)			
		A	B	C	D
1	Activated Sludge, Attached Growth, or Combined Treatment systems that include nutrient removal processes (Nitrification alone is not considered nutrient removal.)	≥3.0	≥0.5 but <3.0	≥0.002 but <0.5	...
2	Activated Sludge or Combined Treatment systems that do not include removal processes	≥5.0	≥1.0 but <5.0	≥0.002 but <1.0	...
3	Activated Sludge operated in the extended aeration mode and oxidation ditches	≥8.0	≥2.0 but <8.0	≥0.025 but <2.0	≥0.002 but <0.025
4	Attached Growth Treatment systems (trickling filters or RBCs) that do not include nutrient removal processes	≥10.0	≥3.0 but <10.0	≥0.025 but <3.0	≥0.002 but <0.025

**Parameter:** This is the variable or substance which must be monitored.

**Sample Measurement:** The data which was collected and analyzed.

**Permit Requirement:** The limit from the permit for that parameter and measurement.

**Quantity or Loading:** The amount or mass of the parameter discharged during the reporting period in Average quantity discharged during the reporting period after adding each day of discharge, Maximum quantity discharged on the day with the highest amount, and the Unit of measurement (lbs, g, tons, etc.)

**Quality or Concentration:** The concentration of the parameter discharged during the reporting period in Minimum concentration during the reporting period, Average of all the measurements for the parameter during the reporting period, Maximum or highest concentration discharged during the reporting period, and the Unit of measurement (mg/L, ug/L, etc.)

**No. Ex.:** The number of sample measurements during the sampling period that exceeded the maximum (minimum or 7-day average, as appropriate) permit requirement for each parameter. If none, enter zero.

**Frequency of Analysis:** The number of times the measurement is required to be made by the permit and the number of times the measurement was made.

**Sample Type:** The type of sample (grab, composite, continuous) required to be taken by the permit and the type that was taken.

**Certificate, 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. Date when the report is signed.

**Comment and Explanation:** Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation.

**PART B - DAILY SAMPLE RESULTS**

Complete one sheet for each outfall, discharge point, or test site where daily sampling is required by the permit. Record the results of daily monitoring for the parameters required to be sampled daily by your permit. Record the data in the units indicated. If there are no fecal coliforms detected, enter ND in the row labeled "fecal coliform." Use the blank rows as needed.

List the name, certificate number, and class of all state certified operators. Use additional sheets as necessary.

**PART B - DAILY SAMPLE RESULTS contd.**

Enter the type of effluent disposal or reclaimed water reuse (surface water discharge, ocean outfall, slow rate land application-public access, slow rate land application-restricted public access, rapid rate land application, absorption field, underground injection).

**Facility ID:** This is the identification number assigned by the Department for the facility.

**Month/Year:** This is the period during which the data on this report was collected and analyzed.

**Rainfall Information:** Rainfall gauging station requires entry of the name and location of the station. Source of Climatological (normal rainfall) data is the source of the information required for Cumulative rainfall for the average rainfall year which is the amount of rain, in inches, which falls during an average rainfall year from January through the month for which this part contains data. 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 Part contains data.

**Date:** Enter the date on which the discharge occurred.

**Duration of Discharge:** Enter the number of hours, to the nearest 0.1 of an hour (0.1 = 6 min.) during each day of discharge that reclaimed water was actually discharged to surface waters.

**Gallons Discharged:** Enter the quantity in millions of gallons of reclaimed water discharged during the period shown in Duration of Discharge. Show the units as millions of gallons (mg), accurate to the nearest 0.01.

**Average Discharge Flow Rate:** Divide Gallons Discharged by Duration of Discharge. Record in million gallons per day (MGD).

**Average Upstream Flow Rate:** Enter the average flow rate in the receiving stream upstream from the point of discharge for the period shown in Duration 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.

**Stream Dilution Factor:** Enter the stream dilution ratio accurate to the nearest 0.1. To calculate the factor, divide the Average Upstream Flow Rate by the Average Discharge Flow Rate.

**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.

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

**ADDITIONAL SHEET 1 A (To be used if more space is needed)**

PERMITTEE NAME: United Water Florida, Inc.  
 MAILING ADDRESS: United Water Florida, Inc.  
 1400 Millcoe Road  
 Jacksonville, Florida 32225  
 FACILITY: Jacksonville Heights WWTF  
 LOCATION: 5957 Tampico Road  
 Jacksonville, Florida 32244

PERMIT NUMBER: FL0023671  
 MONITORING PERIOD--From:  
 LIMIT:  
 CLASS SIZE: Major  
 FACILITY ID: FL0023671(3116P01970)  
 DISCHARGE POINT NUMBER: D001  
 PLANT SIZE/TREATMENT TYPE: B/2

To:  
 GROUP: Domestic

Please read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION			No.	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum			
Fecal Coliform Bacteria (Annual Average) 31616	Sample Measurement									
	Permit Requirement					200	800	No/100 mL		Weekly
pH 00400	Sample Measurement									
	Permit Requirement				6.0		8.5	Std. Units		Continuous
Total Residual Chlorine (For Disinfection) 50060	Sample Measurement									
	Permit Requirement				0.5			mg/L		Continuous
Total Residual Chlorine (For Dechlorination) 50060	Sample Measurement									
	Permit Requirement						0.01	mg/L		Daily, 7/week
Total Ammonia, as N (Annual Average) 00610	Sample Measurement									
	Permit Requirement					1.6		mg/L		Weekly
Total Ammonia, as N (30 day Average) 00610	Sample Measurement									
	Permit Requirement					2.0	3.2	mg/L		Weekly
Dissolved Oxygen 00300	Sample Measurement									
	Permit Requirement				6.0			mg/L		Daily, 7/week

**ADDITIONAL SHEET 1 B (To be used if more space is needed)**

PERMITTEE NAME: United Water Florida, Inc.  
 MAILING ADDRESS: United Water Florida, Inc.  
 1400 Millcoe Road  
 Jacksonville, Florida 32225  
 FACILITY: Jacksonville Heights WWTF  
 LOCATION: 5957 Tampico Road  
 Jacksonville, Florida 32244

PERMIT NUMBER: FL0023671  
 MONITORING PERIOD--From:  
 LIMIT:  
 CLASS SIZE: Major  
 FACILITY ID: FL0023671(3116P01970)  
 DISCHARGE POINT NUMBER: D001  
 PLANT SIZE/TREATMENT TYPE: B/2

To:  
 GROUP: Domestic

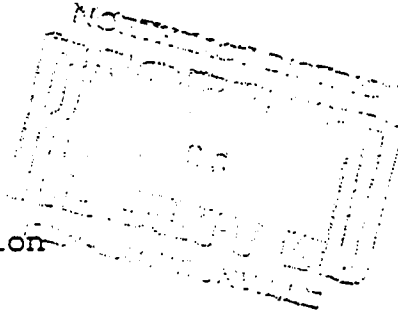
Please read instructions before completing this form.

Parameter		Quantity or Loading			Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum			
Total Nitrogen 00600	Sample Measurement									
	Permit Requirement						Report	mg/L		Quarterly
Nitrate-Nitrite Nitrogen 00630	Sample Measurement									
	Permit Requirement						Report	mg/L		Quarterly
Unionized Ammonia 00619	Sample Measurement									
	Permit Requirement						0.02	mg/L		Weekly
Temperature (Degrees C) 00010	Sample Measurement									
	Permit Requirement				Report	Report	Report	mg/L		Daily
Organic Nitrogen 000605	Sample Measurement									
	Permit Requirement						Report	mg/L		Quarterly
Total Phosphorous 000665	Sample Measurement									
	Permit Requirement						Report	mg/L		Quarterly
Ortho Phosphorous 70507	Sample Measurement									
	Permit Requirement						Report	mg/L		Quarterly
Ceriodaphnia dubia (water flea) TBP3B	Sample Measurement									
	Permit Requirement						100% Effluent	NOEC		Every six months
Pimephales promelas (fathead minnow) TBP6C	Sample Measurement									
	Permit Requirement						100% Effluent	NOEC		Every six months



December 22, 1995

Mr. Jerry M. Owen, P.E.  
Water Facilities Administration  
State of Florida  
Department of Environmental Protection  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590



**Re: Request for Permit Modification  
United Water Florida  
Jacksonville Heights Sewage Treatment Plant**

Dear Mr. Owen:

Thank you for meeting with us on December 13, 1995, to discuss United Water Florida's ("UWF") request for a permit modification regarding the chronic whole effluent toxicity ("WET") limitation in its permit. As we summarized at the meeting, UWF has four major concern regarding the current chronic WET limitation in its permit:

- (1) The species selected (Ceriodaphnia dubia) is an inappropriate indicator species for a discharge to a dredged and channelized stormwater ditch. (See attached information regarding a similar case in Walnut Grove, California where the state agency declared that the stormwater ditch receiving the effluent had no reasonable aquatic life uses):
- (2) EPA ignored DEP's rules and information jointly developed by DEP and UWF in posing a chronic WET limitation. EPA's action was inconsistent with the findings and conclusions of the state that acute WET limits were adequately protective:
- (3) EPA does not have a demonstratable TIE procedure for chronic toxicity at or near the NOEC level which prevents UWF from assuring compliance with the chronic limit; and
- (4) To the extent the City has identified the source of toxicity, it is a federally authorized pesticide which UWF cannot control and is unable to treat.

Page 2.

We are pleased that our meeting resulted in your concurrence that UWF should not be subject to further enforcement action, including further TIE requirements, for episodic and uncontrollable toxicity. We also appreciate the DEP's acknowledgement that diazinon has been identified as a problem in other areas and one which UWF is generally unable to control short of BMPs such as an educational program.

Under these circumstances, the permit should be amended to avoid placing UWF in further jeopardy of federal enforcement. Regarding resolution of the permit issue, we believe that federal guidance provides ample flexibility to modify the WET limitations as UWF has requested. EPA has clarified in its July 7, 1994 New Whole Effluent Toxicity (WET) Policy for NPDES Permits that "where setting a numeric effluent limit is infeasible, best management practices" should be applied instead. An example of an infeasible limit is a "discharge {that has} ... pollutant concentrations that fluctuate wildly with storm events." (See Memorandum to Water Management Division Directors, Region I-X, from Michael B. Cook, Director, Office of Wastewater Enforcement Compliance and Robert H. Wayland, III, Director, Office of Wetlands, Oceans and Watersheds regarding "Clarifications regarding Certain Aspects of EPS's Surface Water Toxics Control Regulations" p.2 (August 14, 1992). EPA further clarified that federal policy "does not address what is acute or chronic WET ... States may interpret narrative water quality criteria for toxicity in state implementation procedures" (1994 Policy at 6). EPA does not interpret the definition of whole effluent toxicity as imposing any substantive water quality standard for what constitutes an acceptable level of whole effluent toxicity. Therefore, where it is difficult to document water quality impacts and imposition of a limit is infeasible because of the random and episodic nature of the pollutant (such as the case here with diazinon), the state has the authority to require instead BUP implementation. Such a permit provision is acceptable as achieving compliance with applicable WET limitations.

As we agreed at the meeting, UWF will analyze its data to determine if there is a correlation with wet-weather events, unless DER feels that there is another alternative at this time. If there is a correlation, UWF will request a mixing zone such as is appropriate. We will also provide you with UWF's final TIE results as quickly as possible. We hope that DEP will remain open to other approaches that may be appropriate for addressing our problem as outlined at our meeting.



Page 3.

Thank you again for meeting with us. We will be in touch with you soon regarding our correlation results.

Sincerely,



Gordon E. Grimes, P.E.  
Senior Project Engineer

JMO/GEG/m

cc: Mitchell L. Griffin  
Jan Mandrup-Poulsen  
Jeff S. Martin  
Ciannat Howett  
John C. Hall

enclosure

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL VALLEY REGION**

9443 Router Road, Suite A  
Sacramento, CA 95827-3098  
PHONE: (916) 255-3000  
FAX: (916) 255-3015

*Received 12/11/95*



8 December 1995

Ms. Mary S. James  
County of Sacramento  
Department of Public Works  
8521 Laguna Station Road  
Elk Grove, CA 95758

**NOTICE****TENTATIVE WASTE DISCHARGE REQUIREMENTS  
FOR****WALNUT GROVE SEWER MAINTENANCE DISTRICT  
WALNUT GROVE WASTEWATER TREATMENT PLANT  
SACRAMENTO COUNTY****TO ALL CONCERNED PERSONS AND AGENCIES:**

Any comments or recommendations you may have concerning the enclosed tentative order should be submitted to this office by 16 January 1996 in order for us to give them full consideration prior to the meeting of the Regional Board.

If you have any questions, please call Joseph J. Henao at (916) 255-3028.

*Kenneth D. Landau*

KENNETH D. LANDAU  
Senior Engineer

JJH:njs

Enclosures - Tentative Order, Standard Provisions

cc: U.S. Environmental Protection Agency, M-5, San Francisco  
U.S. Army Corps of Engineers, Sacramento  
U.S. Fish & Wildlife Service, Sacramento  
Mrs. Betsy Jennings, State Water Resources Control Board, Sacramento  
Mr. Stan Martinson, State Water Resources Control Board, Sacramento  
Office of Historic Preservation, Sacramento  
Office of Drinking Water, Department of Health Services, Sacramento  
Environmental Mgmt. Branch, Department of Health Services, Sacramento  
Department of Fish and Game, Region II, Rancho Cordova  
Sacramento County Health Department, Sacramento  
Sacramento County Planning, Sacramento

SACRAMENTO COUNTY SANITATION DISTRICT NO. 1  
WALNUT GROVE WASTEWATER TREATMENT PLANT  
SACRAMENTO COUNTY

deleted

7. The beneficial uses of the unnamed agricultural drains are agricultural supply, and preservation and enhancement of non-aquatic wildlife resources. ~~deleted esthetic enjoyment and groundwater recharge~~
8. The beneficial uses of Snodgrass Slough and the Mokelumne and San Joaquin Rivers downstream of the discharge are municipal and domestic, industrial, and agricultural supply water contact and non-contact recreation; esthetic enjoyment; navigation; fresh water replenishment, and preservation and enhancement of fish, wildlife and other aquatic resources. ~~deleted "groundwater recharge"~~
9. The beneficial uses of the underlying ground water are domestic, industrial, and agricultural supply.
10. Effluent limitations, and toxic and pretreatment effluent standards established pursuant to Sections 208(b), 301, 302, 304, and 307 of the Clean Water Act (CWA) and amendments thereto are applicable to the discharge.
11. The discharge is presently governed by Waste Discharge Requirements Order No. 90-138, adopted by the Board on 25 May 1990.
12. The action to adopt an NPDES permit is exempt from the provisions of Chapter 3 of the California Environmental Quality Act (CEQA) (Public Resources Code Section 21100, et seq.), in accordance with Section 13389 of the California Water Code.
13. The Board has notified the Discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for this discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
14. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.
15. This Order shall serve as an NPDES permit pursuant to Section 402 of the CWA, and amendments thereto, and shall take effect upon the date of hearing, provided EPA has no objections.
16. Wastewater stabilization ponds are used as the principal treatment process at the Walnut Grove Wastewater Treatment Plant (WWTP). In accordance with 40 CFR Part 133, the Walnut Grove WWTP has been deemed to be a facility eligible for treatment equivalent to secondary treatment. Effluent quality requirements for the facility have been established and are described in 40 CFR 133.105.

IT IS HEREBY ORDERED that Order No. 90-138 is rescinded and the Sacramento County Sanitation District No. 1, its agents, successors and assigns, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, and the provisions of the Clean Water Act and regulations and guidelines adopted thereunder, shall comply with the following:

## INFORMATION SHEET

SACRAMENTO COUNTY SANITATION DISTRICT NO. 1  
WALNUT GROVE WASTEWATER TREATMENT PLANT  
SACRAMENTO COUNTY

*Corrected*  
The Walnut Grove Wastewater Treatment Plant is operated by the Sacramento County Public Works Agency Water Quality Division. The plant consists of one primary pond, two secondary ponds, a hypochlorite system with pH adjustment, a chlorine contact ditch and three percolation/evaporation ponds with a total area of 15 acres. Wastewater is seasonally discharged to an unnamed agricultural drainage ditch which flows about 2000 feet and is then pumped into Snodgrass Slough. No aquatic resources have been identified in the ditch, so the ditch is not being protected as an aquatic habitat. Construction and operation of dechlorination system to prevent chlorine from entering the ditch is expensive and is judged to not be needed because of the minimal habitat value of this ditch. Chlorine in the effluent at the treatment plant discharge is allowed to dissipate naturally in the ditch prior to pumping to Snodgrass Slough. The Discharger operates an effluent pH adjustment system to lower effluent pH when algae photosynthesis and/or hypochlorite addition would raise the effluent pH above effluent limits. Because of the low habitat value of the effluent discharge ditch, it is judged that increased mineralization of the effluent from acid addition is a greater problem than allowing a higher pH in the discharged effluent, so the maximum allowable effluent pH in the discharge to the ditch has been increased from 8.5 to 10.0. Water pumped from the ditch to Snodgrass Slough must still not exceed 8.5. The increased allowable effluent pH will also decrease treatment costs by reducing the amount of muriatic acid used by the Discharger. The current 30 day average effluent flow discharged is 0.18 mgd; the design monthly average flow is 0.5 mgd and the design peak flow is 0.86 mgd. Between 16 May and 31 October, discharge to the ditch is prohibited, and the effluent is either stored in the ponds, or reclaimed by local farmers for crop irrigation on district property.

*Revised as requested*  
The current practice for sludge disposal from the Walnut Grove plant consists of removing sludge from the bottoms of the treatment ponds and trucking it to the Sacramento Regional Wastewater Treatment Plant (SRWTP) where it is disposed of with sludge from the SRWTP.

### Water Quality Objectives:

Staff has reviewed the past self-monitoring data and discharge characterization submitted by the Discharger. The discharge has not caused an exceedence of any water quality objective, and as long as there is no material change in the discharge, none should occur during the span of this permit.

The Sacramento County Public Works Agency Water Quality Division on behalf of the Walnut Grove Sewer Maintenance District conducted sampling for the NPDES Effluent and Receiving Water Quality Assessment (ERWQA). Test results indicate that the discharge from this facility does not contain parameters which violate water quality objectives or causes an exceedence with established limits.



✓ cc: R.A. Hensch.

# Department of Environmental Protection

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

CERTIFIED - RETURN RECEIPT

March 13, 1997

Mr. M. Sambumurthi, P.E., Vice President  
United Water Florida  
1400 Millcoe Road  
Jacksonville, Florida 32225

RECEIVED

MAR 21 1997

UNITED WATER FLORIDA

Dear Sambumurthi:

Duval County - Domestic Waste  
- Jacksonville Heights WWTF - FL0023671

This is in reference to your application for permit revision of the wastewater permit for the above referenced project. The Department has revised the enclosed draft notice of permit revision, Consent Order and discharge monitoring report pursuant to comments received from EPA, your staff and consultants.

If you are in agreement with the enclosed documents, please proceed with execution of the Consent Order and return to this office within 30 days from receipt of this letter.

If you have any questions, please contact David Bolam of this office.

Sincerely,

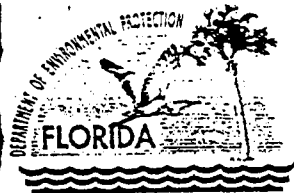
Frank Watkins, Jr., P.E.

Bb  
BFW:DJB/rms  
Attachments

cc: Gordon Grimes, P.E., UWF  
Mitchell Griffin, P.E., PhD.  
John Hall  
Marshall Hyatt, EPA  
Elsa Potts, P.E., DEP

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to §120.52, Florida  
Statutes, with the designated Department Clerk,  
receipt of which is hereby acknowledged.

*[Handwritten signature]* 3/18/97  
Clerk Date



# Department of Environmental Protection

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

## NOTICE OF PERMIT REVISION

CERTIFIED MAIL - RETURN RECEIPT

DRAFT

In the Matter of an Application  
for Permit by:

DEP File No. 283456

Mr. M. Sambumurthi, Vice President-Manager  
United Water Florida  
1400 Millcoe Road  
Jacksonville, Florida 32225

Dear Heil:

Duval County - Domestic Waste  
Jacksonville Heights WWTF - FL0023671

This Notice serves as a revision to Specific Condition I.A.6 of Permit Number FL0023671 issued pursuant to Section(s) 403.087, Florida Statutes. This Notice also serves to incorporate by reference, Consent Order 96-1965 to address the chronic whole effluent toxicity testing requirements. Specific Condition I.A.6 has been revised as described herein. All other portions of this permit remain in effect and are fully enforceable.

### I. A. Effluent Limitations and Monitoring Requirements

I.A.6.a. The effluent shall not be chronically toxic to, or produce adverse physiological or behavioral responses in aquatic animals. An effluent No Observable Effect Concentration (NOEC) of 33% effluent or less in any Chronic Toxicity test will constitute a violation of Rule 62-302.530(62) of the Florida Administrative Code (FAC) and the terms of this permit. The testing must conform with Permit Condition I.A.6.b. of this permit. [ 62-302.530(62), (FAC) 4-12-95]

I.A.6.b. The Permittee shall evaluate chronic whole effluent toxicity of the discharge from outfall D001. All test species, procedures and quality assurance criteria used shall be in accordance with Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, EPA/600/4-91/002, or the most current edition. A standard reference toxicant quality assurance test shall be conducted concurrently, or no greater than 30 days prior to the test date of the chronic toxicity test, with each species used in the toxicity tests and the results submitted with the discharge monitoring report (DMR).

### Routine Tests

1. The Permittee shall conduct a daphnid (Ceriodaphnia dubia) Survival and Reproduction Test and a Fathead Minnow (Pimephales promelas) Larval Survival and Growth Test. These tests shall be conducted using a control (0% effluent) , one test concentration consisting of 33% effluent. The control water and effluent used will be a moderately hard water as described in EPA/600/4-91/002, Section 8 (or most current edition). All tests results shall be statistically analyzed according to Appendix H, EPA/600/4-91/002, or the most current edition. These tests are considered "routine tests" and shall be conducted once every six months.
2. For each set of tests conducted, a minimum of three different 24-hour composite samples of final effluent shall be collected and used per the sampling schedule of Section 8.3.2, EPA/600/4-91/002 (or the most current edition). All test solution shall be renewed daily. If test results do not meet the acceptability criteria of either Section 13, paragraph 13.11 or Section 11, paragraph 11.11, EPA/600/4-91/002 (or the most current edition), that test shall be repeated. A chronic test will be considered valid only if the acceptability criteria referenced above are met.
3. If a No Observable Effect Concentration (NOEC) less than or equal to 33% effluent occurs in the test concentration prior to the end of the test and control effects are acceptable at that time, that test (including the control) shall be terminated with the conclusion that the sample demonstrates chronic toxicity.
4. Results from "routine" tests shall be reported according to EPA/600/4-91/002, Section 10, Report Preparation (or the most current edition), and shall be submitted as an attachment to the discharge monitoring report. The results shall be entered on the DMR in the following manner:
  - a. For the chronic test results, if the NOEC of a test species is less than or equal to 33% effluent, '<33%' shall be entered on the DMR for that species. If the NOEC of a test species is greater than 33% effluent, '>33%' shall be entered.
  - b. Results from "routine" tests shall be reported according to EPA/600/4-91/002, Section 10, Report Preparation (or the most current edition), and shall be submitted to:

FL Department of Environmental Protection  
Northeast District  
7825 Baymeadows Way Suite B-200  
Jacksonville, Florida 32256  
Attn: Toxicity Coordinator

### Additional Testing

5. If any such routine screening tests indicate chronic toxicity (a NOEC less than or equal to 33 % effluent in either test), the Permittee shall conduct three additional definitive chronic toxicity tests on the specie(s) indicating chronic toxicity as described in a. below. For each additional test, the sample collection requirements and test acceptability criteria specified under 1. and 2. above must be met for the tests to be considered valid. The first test shall begin within one week of the end of the "routine" tests, and the second test shall be conducted one week later and the third test, one week later. If any of these tests are invalid, additional test(s) are to be conducted each week thereafter until three valid tests are

completed. The additional tests will be used to determine if the toxicity found in the "routine" test is still present.

- a. For "routine" tests with chronic toxicity, the permittee shall conduct additional definitive daphnid (Ceriodaphnia dubia) Survival and Reproduction and/or fathead minnow (Pimephales promelas) Larval Survival and Growth tests, as appropriate. The tests will be conducted on a control, 33% effluent, and the following effluent concentrations: 6.25%, 12.5%, 25.0%, and 50.0%.

6. Results from the additional definitive tests, required due to chronic toxicity in the "routine" tests, shall be submitted in a single report prepared according to EPA/600/4-91/002, Section 10, Report Preparation (or the most current edition), and submitted within 45 days of completion of the third additional, valid definitive test. Upon review of the definitive toxicity test results, test concentrations may be modified by the Department to improve the statistical confidence of the analyses. In this case, the Permittee shall be notified and will have 30 days to comply with such changes. If the additional tests demonstrate chronic toxicity, the permittee will meet with the Department within 30 days of the report submittal to identify corrective actions necessary to remedy the toxicity.

7. For all tests conducted, a final effluent sample must be used.

*[Rule 62-302.530(62), FAC, 4-12-95]*

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative hearing in accordance with sections 120.569 and 120.57 of the Florida Statutes, or all parties may reach a written agreement on mediation as an alternative remedy under section 120.573 before the deadline for filing a petition. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for petitioning for a hearing are set forth below, followed by the procedures for pursuing mediation.

The petition must contain the information set forth below and must be filed (received) in the Department's Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any other person must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. A petitioner must 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 a request for mediation, as discussed below) within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes, or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-5.207 of the Florida Administrative Code.



A petition must contain the following information:

- (a) The name, address, and telephone number of each petitioner; the Department's permit identification number and the county in which the subject matter or activity is located;
- (b) a statement of how and when each petitioner received notice of the Department's action;
- (c) a statement of how each petitioner's substantial interests are affected by the department's action;
- (d) a statement of the material facts disputed by the petitioner, if any;
- (e) a statement of facts that the petitioner contends warrant reversal or modification of the Department's action;
- (f) a statement of which rules or statutes the petitioner contends require reversal or modification of the Department's action; and
- (g) and a statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take.

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 of intent. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Any person may elect to pursue mediation by reaching a mediation agreement with all parties to the proceeding (which includes the Department and any person who has filed a timely and sufficient petition for a hearing) and by showing how the substantial interests of each mediating party are affected by the Department's action or proposed action. The agreement must be filed in (received by) the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, by the same deadline as set forth above for the filing of a petition.

The agreement to mediate must include the following:

- (a) the names, addresses, and telephone numbers of any persons who may attend the mediation;
- (b) the name, address, and telephone number of the mediator selected by the parties, or a provision for selecting a mediator within a specified time;
- (c) the agreed allocation of the costs and fees associated with the mediation;
- (d) the agreement of the parties on the confidentiality of discussions and documents introduced during mediation;
- (e) the date, time, and place of the first mediation session, or a deadline for holding the first session, if no mediator has yet been chosen;
- (f) the name of each party's representative who shall have authority to settle or recommend settlement;
- (g) either an explanation of how the substantial interests of each mediating party will be affected by the action or proposed action addressed in this action or a statement clearly identifying the petition

for hearing that each party has already filed, and incorporating it by reference; and

(h) the signatures of all parties or their authorized representatives.

As provided in section 120.573 of the Florida Statutes, the timely agreement of all parties to mediate will toll the time limitations imposed by section 120.569 and 120.57 for requesting and holding an administrative hearing. 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 whose substantial interests will be affected by such a modified final decision of the Department have a right to petition for a hearing only in accordance with the requirements for such petitions set forth above, and must therefore file their petitions within fourteen days of receipt of this notice. If mediation terminates without settlement of the dispute, the Department shall notify all parties in writing that the administrative hearing processes under section 120.569 and 120.57 remain available for disposition of the dispute, and the notice will specify the deadlines that then will apply for challenging the agency action and electing remedies under those two statutes.

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

Any party to the order has the right to seek judicial review of the order under section 120.68 of the Florida Statutes, by the filing of a notice of appeal under rule 9.110 of the 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 the final order is filed with the Clerk of the Department.

Mr. M. Sambumurthi, P.E., Vice President  
DRAFT  
Page 6

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

DRAFT DRAFT DRAFT

Jerry M. Owen, P.E.  
Water Facilities Administrator

JMO/DJB/rms  
Attachment

cc: Gordon Grimes, P.E., UWF  
Mitchell Griffin, P.E., PhD.  
John Hall  
Marshall Hyatt, EPA  
Daryll Joyner, DEP

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT REVISION and all copies were mailed by certified mail before the close of business on March 18, 1997 to the listed persons.



# Department of Environmental Protection

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

## FACT SHEET FOR STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION DOMESTIC WASTEWATER FACILITY PERMIT REVISION

PERMIT NUMBER: FL0023671  
FACILITY NAME: Jacksonville Heights WWTF  
FACILITY LOCATION: 5957 Tampico Road  
Jacksonville, Florida 32244  
NAME OF PERMITTEE: United Water Florida  
PERMIT WRITER: David J. Bolam, P.E.

### BASIS FOR EFFLUENT LIMITS AND MONITORING REQUIREMENTS:

The following provides the basis for the revision to Part I.A.6 of the permit:

1. Effluent toxicity, through the implementation of a detailed TIE had been related to diazinon, a federally authorized pesticide, which appears to be ubiquitous in the local environment due to its authorized usage.
2. Data provided as part of the permit application indicated the potential for diazinon induced toxicity associated with wet weather events. Although the toxicity of the effluent has shown to be intermittent, there appears to be a more frequent occurrence in warmer (wet) months which is consistent with the expected pattern of diazinon use.
3. Engineering analysis of the surface water management area indicated that an approximate 3:1 dilution would be available at the point of discharge to the stormwater ditch during wet weather periods. This dilution was based on a daily average adjusted runoff volume from the drainage area and was not based on peak runoff. Therefore, the Department considers it appropriate to consider dilution in evaluating this WET limit.
4. A single dry weather sample in March 1994 showed 100% mortality but no chemical analysis data was provided to confirm that this toxicity was from diazinon or its derivative, diazoxon. Therefore, there is evidence to be suspicious that an additional toxicant(s) is present.

As such, the Department intends to revise the permit to incorporate a 33% effluent chronic toxicity limit.

The Department has also prepared Consent Order 96-1965 to address and further investigate the diazinon/diazoxon related chronic toxicity. During the period under the Order, the permittee shall perform effluent 7-day chronic renewal WET testing using ceriodaphnids and fathead minnows as test

*"Protect, Conserve and Manage Florida's Environment and Natural Resources"*

organisms and further correlate the testing results to ambient conditions. The effluent tests shall be performed every 2 months at 0% effluent (control), 33% effluent and 100% effluent.

As part of the correlation, the permittee has agreed to conduct (1) instream biological testing, (2) chronic WET monitoring within the receiving ditch, (3) instream and effluent diazinon and priority pollutant testing, and (4) stream flow and rainfall measurements to assess available dilution.

The Department has agreed to this monitoring only type consent agreement for the purpose of verifying that dilution can or should be considered in establishing the WET limit.

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

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

PERMITTEE NAME: United Water Florida, Inc.  
 MAILING ADDRESS: Mr. Munipalli Sambamurthi, Vice President, Manager  
 1400 Millcoe Road  
 Jacksonville, Florida 32225

PERMIT NUMBER: FL0023671  
 MONITORING PERIOD From: \_\_\_\_\_  
 LIMIT: Final  
 CLASS SIZE: Major

To: \_\_\_\_\_  
 REPORT: Monthly  
 GROUP: Domestic

FACILITY: Jacksonville Heights WWTF  
 LOCATION: 5957 Tampico Road  
 Jacksonville, FL 32244  
 COUNTY: Duval

FACILITY ID: 1  
 GMS ID NO.: FL0023671  
 DISCHARGE POINT NUMBER: 3116P01970  
 PLANT SIZE/TREATMENT TYPE: D001  
 IIB

WAFR SITE NO.: 9182  
 GMS TEST SITE NO.: 3116X14060

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement							
STORET No. 50050 Mon. Site No. OUT-1	Permit Measurement	2.50 (Ann. Avg.)	mgd				Continuous	Meter or Instrument
Flow	Sample Measurement							
STORET No. 50050 Mon. Site No. OUT-1	Permit Measurement	Report (Mo. Avg.)	mgd				Continuous	Meter or Instrument
CBOD5	Sample Measurement							
STORET No. 80082 Mon. Site No. OUT-1	Permit Measurement			8.0 (Ann. Avg.)	mg/L		Weekly	8-hour FPC
CBOD5	Sample Measurement							
STORET No. 80082 Mon. Site No. OUT-1	Permit Measurement			8.0 (Mo. Avg.)	mg/L		Weekly	8-hour FPC
TSS	Sample Measurement							
STORET No. 00530 Mon. Site No. OUT-1	Permit Measurement			20.0 (Ann. Avg.)	mg/L		Weekly	8-hour FPC
TSS	Sample Measurement							
STORET No. 00530 Mon. Site No. OUT-1	Permit Measurement			30.0 (Mo. Avg.)	mg/L		Weekly	8-hour FPC
pH	Sample Measurement							
STORET No. 00406 Mon. Site No. OUT-1	Permit Measurement			6.0 (Min.)	8.5 (Max.)	8.0	Continuous	Grab

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (YY/MM/DD)

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

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY NAME: Jacksonville Heights WWTF

PERMIT NUMBER: FL0023671

DISCHARGE POINT NUMBER: D001

WAFR SITE No.: 9182

Parameter		Quantity or Loading	Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Fecal Coliform Bacteria	Sample Measurement								
STORET No. 31616 Y Mon. Site No. OUT-1	Permit Measurement			200 (Ann. Avg.)		#/100mL		Weekly	Grab
Fecal Coliform Bacteria	Sample Measurement								
STORET No. 31616 I Mon. Site No. OUT-1	Permit Measurement			Report (Ar. Geo. Mean)		800 (Max)	#/100mL	Weekly	Grab
Dissolved Oxygen	Sample Measurement								
STORET No. 00300 I Mon. Site No. OUT-1	Permit Measurement				6.0 (Min.)	mg/L		Daily, 7/week	Grab
Temperature of Effluent	Sample Measurement								
STORET No. 00010 I Mon. Site No. OUT-1	Permit Measurement			Report (Mo. Avg.)		Deg. C		Daily, 7/week	Grab
AMMONIA, TOTAL AS N	Sample Measurement								
STORET No. 00610 I Mon. Site No. OUT-1	Permit Measurement			1.6 (An. Avg.)		mg/L		Weekly	8-hour FPC
AMMONIA, TOTAL AS N	Sample Measurement								
STORET No. 00610 I Mon. Site No. OUT-1	Permit Measurement			2.0 (Mo. Avg.)	3.2 (Max.)	mg/L		Weekly	8-hour FPC
CBOD5 - Influent	Sample Measurement								
STORET No. 80082 G Mon. Site No. INF-1	Permit Measurement			Report (Mo. Avg.)		mg/L		Weekly	8-hour FPC
TSS - Influent	Sample Measurement								
STORET No. 00530 G Mon. Site No. INF-1	Permit Measurement			Report (Mo. Avg.)		mg/L		Weekly	8-hour FPC

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

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

PERMITTEE NAME: United Water Florida, Inc.  
 MAILING ADDRESS: Mr. Munipalli Sambamurthi, Vice President, Manager  
 1400 Millcoe Road  
 Jacksonville, Florida 32225

PERMIT NUMBER: FL0023671  
 MONITORING PERIOD From: \_\_\_\_\_  
 LIMIT: Final  
 CLASS SIZE: Major

To: \_\_\_\_\_  
 REPORT: Toxicity  
 GROUP: Domestic

FACILITY: Jacksonville Heights WWTF  
 LOCATION: 5957 Tampico Road  
 Jacksonville, FL 32244  
 COUNTY: Duval

FACILITY ID: FL0023671  
 GMS ID NO.: 3116P01970  
 DISCHARGE POINT NUMBER: D001  
 PLANT SIZE/TREATMENT TYPE: IIB

WAFR SITE NO.: 9182  
 GMS TEST SITE NO.: 3116X14060

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
7-day Chronic Static Renewal Ceriodaphnia dubia	Sample Measurement							
STORET No. TBZ3B P Mon. Site No. OUI-1	Permit Measurement			100 (Min)	Percent		Every 2 months	Three, (3) 24-hr F.P.C., ea.
7-day Chronic Static Renewal Ceriodaphnia dubia	Sample Measurement							
STORET No. TBZ3B P Mon. Site No. OUI-1	Permit Measurement			33 (Min)	Percent		Every 2 months	Three, (3) 24-hr F.P.C., ea.
7-day Chronic Static Renewal Pimephales promelas	Sample Measurement							
STORET No. TBP6C P Mon. Site No. OUI-1	Permit Measurement			100 (Min)	Percent		Every 2 months	Three, (3) 24-hr F.P.C., ea.
7-day Chronic Static Renewal Pimephales promelas	Sample Measurement							
STORET No. TBP6C P Mon. Site No. OUI-1	Permit Measurement			33 (Min)	Percent		Every 2 months	Three, (3) 24-hr F.P.C., ea.
Diazinon	Sample Measurement							
STORET No. 39570 I Mon. Site No. OUI-1	Permit Measurement			Report (Max)	ug/l.		Every 2 months	Three, (3) 24-hr F.P.C., ea.

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (YY/MM/DD)

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



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

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

**PERMITTEE NAME:** United Water Florida, Inc.  
**MAILING ADDRESS:** Mr. Muniipalli Sannabamurthi, Vice President, Manager  
 1400 Millcoo Road  
 Jacksonville, Florida 32225

**FACILITY:** Jacksonville Heights WAWTF  
**LOCATION:** 5957 Tampico Road  
 Jacksonville, FL 32244  
**COUNTY:** Duval

**PERMIT NUMBER:** FL0023671  
**MONITORING PERIOD:** From: Final Major  
**LIMIT:**

**FACILITY ID:** FL0023671  
**GMS ID NO.:** 3116P01970  
**DISCHARGE POINT NUMBER:** D001  
**PLANT SIZE/TREATMENT TYPE:** IIB

**WAFR SITE NO.:** 9182  
**GMS TEST SITE NO.:** 3116X14060

**To:** Quarterly Domestic  
**REPORT GROUP:**

Parameter	Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
NITROGEN, TOTAL AS N	Sample Measurement						
STORET No. 00600 Mon. Site No. OUI-1	Permit Measurement		Report (Max)			Once/quarter	8-hour FPC
ORGANIC NITROGEN, TOTAL AS N	Sample Measurement						
STORET No. 00605 Mon. Site No. OUI-1	Permit Measurement		Report (Max)			Once/quarter	8-hour FPC
NITROGEN, NITRITE+NITRATE AS N	Sample Measurement						
STORET No. 00630 Mon. Site No. OUI-1	Permit Measurement		Report (Max)			Once/quarter	8-hour FPC
UNIONIZED AMMONIA, TOTAL AS N	Sample Measurement						
STORET No. 00619 Mon. Site No. OUI-1	Permit Measurement		Report (Max)			Once/quarter	8-hour FPC
PHOSPHOROUS, TOTAL AS P	Sample Measurement						
STORET No. 00665 Mon. Site No. OUI-1	Permit Measurement		Report (Max)			Once/quarter	8-hour FPC
PHOSPHOROUS, ORTHO- AS P	Sample Measurement						
STORET No. 70507 Mon. Site No. OUI-1	Permit Measurement		Report (Max)			Once/quarter	8-hour FPC

**DAILY SAMPLE RESULTS - PART B**

Facility ID: FL0023663

Month/Year:

Days of the Months	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Flow (MGD)																														
Chlorine Residual after Contact																														
Chlorine Residual after Dechlorination																														
CBOD5 Influent (mg/l)																														
TSS Influent (mg/l)																														
CBOD5 Effluent (mg/l)																														
TSS Effluent (mg/l)																														
pH Effluent																														
TKN Effluent (mg/l)																														
NH3 - N Effluent (mg/l)																														
Nitrate Effluent (mg/l)																														
Total P Effluent (mg/l)																														
Fecal Coliform (#.100ml)																														

**Plan 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: _____

Type of Effluent Disposal or Reclaimed Water Reuse: \_\_\_\_\_  
 Limited Wed Weather Discharge Activated: Yes \_\_\_\_\_ No \_\_\_\_\_ Not Applicable \_\_\_\_\_ If yes, cumulative days of wet weather discharge: \_\_\_\_\_

\*Attach additional sheets necessary to list all certified operators necessary for required operations.



# Department of Environmental Protection

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

BEFORE THE STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION, )

Complainant, )

vs. )

United Water Florida, Inc., )

Respondent. )

IN THE OFFICE OF THE  
NORTHEAST DISTRICT

OGC FILE NO. 96-1965

This Consent Order is made and entered into between the State of Florida Department of Environmental Protection ("Department") and United Water Florida, Inc. ("Respondent") to reach settlement of certain matters at issue between the Department and Respondent.

The Department finds and the Respondent admits the following: Treated wastewater effluent discharged from the Respondent's domestic wastewater treatment facility located at 5957 Tampico Road, Jacksonville, Florida 32244, and known as the Jacksonville Heights WWTP has been shown to be chronically toxic to *Ceriodaphnia dubia* which is a violation of the whole effluent toxicity requirements established in Permit FL0023671 ("Permit").

1. The Department is the administrative agency of the State of Florida having the power and duty to protect

OGC FILE NO. 96-1965  
M. Sambumurthi, P.E., Vice President  
United Water Florida

Florida's air and water resources and to administer and enforce the provisions of Chapter 403, Florida Statutes ("F.S."), and the rules promulgated thereunder, Florida Administrative Code (F.A.C.) Title 62. The Department has jurisdiction over the matters addressed in this Consent Order.

2. Respondent is a person within the meaning of Section 403.031(5), F.S.

3. Respondent is the owner and is responsible for the operation of the Jacksonville Heights WWTP, a 2.5 MGD AADF domestic wastewater treatment facility ("Facility") with effluent discharged to an unnamed stormwater ditch ("Ditch") connected to Fishing Creek. The Facility is located at 5957 Tampico Road, Jacksonville, Florida 32244 at Latitude: 30° 14' 15" N, Longitude: 81° 45' 05" W.

4. Respondent operates the Facility under the Department Permit which expires on April 1, 1998. There is conclusive evidence that the Respondent's discharge is chronically toxic to *Ceriodaphnia dubia* as a result of its diazoxon content and that this toxicity occurs during wet weather months. The presence of diazoxon is not due to the facility's operation but appears to be related to the public's use of the pesticide diazinon, a federally authorized chemical. (See CH2M Hill's January 22, 1996 report showing 100% mortality of *C. dubia* following rainfall events on June 29, 1994, August 9, 1994, September 9, 1994, September 13, 1994, and October 11, 1994). There is uncertainty whether there is sufficient evidence to

be suspicious that an additional toxicant(s) is present which results in unacceptable acute toxicity during dry weather months. (See CH2M Hill's January 22, 1996 report showing 100% mortality of *C. dubia* following no rainfall events on March 22, 1994).

Instream biological surveys do not indicate a correlation between *C. dubia* toxicity test results and adverse impacts on biota. This is likely due to the nature of the Ditch and the intermittent nature of the flow which limits biological diversity. The Department has established a chronic toxicity effluent limit pursuant to Rule 62-4.244(3)(a), FAC. However, in light of available information, the Department is requiring reconfirmation of the source of the toxicity and the relationship of effluent toxicity tests to instream impacts.

5. Having reached a resolution of the matter the Department and the Respondent mutually agree and it is

**ORDERED:**

6. Respondent shall comply with the following actions within the stated time periods:

1. During the effective period of this Consent Order and as provided in paragraph 6.2, below, the Respondent shall conduct additional monitoring of the facility's effluent and receiving waters to determine whether

- a. acute toxicity, if present, is related to diazinon;

M. Sambumurthi, P.E., Vice President  
United Water Florida

- b. dilution is available when toxicity events occur; and
- c. chronic toxicity results are correlated with instream impacts.

2. The following testing and other requirements shall be initiated within 60 days of this order.

The Respondent shall initiate the series of tests described below beginning in May 1997 to evaluate chronic whole effluent toxicity of the discharge from outfall D001. All test species, procedures and quality assurance criteria used shall be in accordance with Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, EPA/600/4-91/002, or the most current edition. A standard reference toxicant quality assurance test shall be conducted concurrently, or no greater than 30 days prior to the test date of the chronic toxicity test, with each species used in the toxicity tests and the results submitted with the discharge monitoring report (DMR).

- a. The Respondent shall conduct a daphnid (Ceriodaphnia dubia) Survival and Reproduction Test and a Fathead Minnow (Pimephales promelas) Larval Survival and Growth Test. These tests shall be conducted using a control (0% effluent) , one test concentration consisting of 33% effluent, and one test at 100% effluent. The control water and effluent used will be a moderately hard water as described in EPA/600/4-91/002, Section 8 (or most current edition). All tests results shall be statistically analyzed according to Appendix H, EPA/600/4-91/002, or the most current edition. Samples for chronic toxicity testing shall be collected to coincide with testing for the presence of diazinon.
- b. For each set of effluent tests conducted, a minimum of three different 24-hour composite samples of final effluent shall be collected and used per the sampling schedule of Section 8.3.2, EPA/600/4-91/002 (or the most current edition). In stream samples shall consist of grab samples collected at each site for a minimum of three nonconsecutive days and used per the sampling schedule in Section 8.3.2, EPA/600/4-91/002. All test solutions shall be renewed daily. If test results do not meet the acceptability criteria of either Section 13, paragraph 13.11 or Section 11, paragraph 11.11, EPA/600/4-91/002 (or the most current edition), that test shall be repeated. A chronic test will be

M. Sambumurthi, P.E., Vice President  
United Water Florida

considered valid only if the acceptability criteria referenced herein are met.

- c. The effluent toxicity tests specified above shall be conducted once every two months for the duration of the Permit, unless notified otherwise by the Department. These tests are referred to as "chronic routine" tests. The effluent toxicity tests shall be conducted to coincide with the instream bioassays in 9. below.
- d. Results from "chronic routine" tests shall be reported according to EPA/600/4-91/002, Section 10, Report Preparation (or the most current edition), and shall be submitted as an attachment to the discharge monitoring report.
- e. For all tests conducted, a final effluent sample must be used.
- f. Diazinon Testing shall be conducted in accordance with EPA Method 614 or other Department approved method. The method detection limit shall not be greater than 0.05 micrograms per liter and the practical quantitative limit shall not be greater than 0.25 micrograms per liter.
- g. If diazinon is demonstrated to be present when the NOEC is less than 33%, that test shall not constitute a violation of the Permit or this Order.

This Consent Order does not act as State of Florida Department of Environmental Protection Wastewater Permit, nor does it authorize or otherwise justify violation of the Florida Air and Water Pollution Control Act ("Act"), Part I, Chapter 403, F.S., during the pendency of this Consent Order.

7. Analyses required by paragraph 6., above shall be reported bi-monthly on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10). These reports shall be mailed or hand delivered to the Department of Environmental Protection, Florida Department of Environmental Protection Wastewater Facilities Regulation Section, Mail Station 3551, Twin Towers

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M. Sambumurthi, P.E., Vice President  
United Water Florida

Office Building, 2600 Blair Stone Road, Tallahassee, Florida  
32399-2400 bi-monthly and must be received by the Department  
no later than the 28th day following the end of the reporting  
period (e.g., the August report would be due not later than  
September 28th.)

8. The Respondent shall prepare a plan for conducting  
in stream flow monitoring within the Ditch at the outfall  
location for Department approval and submit the plan by June  
1, 1997. Respondent shall have 45 days after Departmental  
approval to initiate and complete any construction required  
by the plan. The plan for stream monitoring shall provide  
for accurately measuring and recording daily stream flow and  
rainfall. During the interim period prior to completion of  
the stream monitoring facilities, the permittee shall conduct  
measurements of stream velocity and report the estimated  
stream flow on days during which samples are collected for  
the bioassays required by this Consent Order.

9. The Respondent shall implement an instream  
biomonitoring program for the purpose of identifying whether  
effluent toxicity is adversely impacting uses in the Ditch  
and Fishing Creek. The biomonitoring program shall include  
the following elements:

- a. Respondent shall perform in the Ditch and in  
Fishing Creek. There shall be a total of six  
monitoring sites in the ditch and in Fishing  
Creek and these sites shall be located as shown  
on Exhibit 1 and as follows: (#1) one station  
in the ditch, upstream of the facility  
discharge point; (#2, #3, and #4) three  
biomonitoring stations in the ditch, downstream  
of the facility discharge point, prior to where



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the ditch meets Fishing Creek; (#5) one biomonitoring station in Fishing Creek, upstream of where the creek meets the ditch, mid-point of creek; and (#6) one biomonitoring station in Fishing Creek, downstream of where the ditch meets the creek, mid-point of creek.

- b. Monitoring shall be conducted three times per year and at least twice during the wet or rainy season (March through October) and once during the dry season. Sampling events shall be separated by a minimum of 30 days. The monitoring shall include diazinon analysis, priority pollutant scans and invertebrate sampling at each site, for each sampling event. The Respondent shall provide estimates of flow at each bioassay site in the Ditch and chronic bioassays for daphnids and fathead minnow at biomonitoring stations #1, #2, #4, and #6. All chronic bioassays shall be conducted in accordance with the sampling and testing procedures described in 6.2. above.
- c. The biomonitoring plan shall be initiated by the second quarter of 1997.

10. The Respondent shall investigate the potential for eliminating toxics from entering the wastewater collection system through a public education program. The Respondent shall develop a plan for a public education program and submit this plan to the Department for approval within 45 days of the effective date of the Consent Order. The plan shall be designed to inform the public about the proper use and disposal of diazinon and other toxics for the purpose of reducing the presence of diazinon and other toxics within the Respondent's service area. Respondent shall have 45 days after Departmental approval to initiate the plan.

11. Every calendar quarter after the effective date of this Consent Order, Respondent shall submit in writing to the Department a report containing information concerning the

status and progress of projects being completed under this Consent Order, information as to compliance or noncompliance with the applicable requirements of this Consent Order including construction requirements and effluent limitations, and any reasons for noncompliance. Such reports shall also include a projection of the work to be performed pursuant to this Consent Order during the following 12 month period. The reports shall be submitted to the Department within thirty (30) days following the end of the quarter.

12. In the event of a sale or conveyance of the Facility or of the property upon which the Facility is located, if all of the requirements of this Consent Order have not been fully satisfied, Respondent shall, at least 30 days prior to the sale or conveyance of the property or Facility, (1) notify the Department of such sale or conveyance, (2) provide the name and address of the purchaser, or operator, or person(s) in control of the Facility, and (3) provide a copy of this Consent Order with all attachments to the new owner. The sale or conveyance of the Facility, or the property upon which the Facility is located shall not relieve the Respondent of the obligations imposed in this Consent Order.

13. If any event, including administrative or judicial challenges by third parties unrelated to the Respondent, occurs which causes delay or the reasonable likelihood of delay, in complying with the requirements of this Consent Order, Respondent shall have the burden of proving the delay

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United Water Florida

was or will be caused by circumstances beyond the reasonable control of the Respondent and could not have been or cannot be overcome by Respondent's due diligence. Economic circumstances shall not be considered circumstances beyond the control of Respondent, nor shall the failure of a contractor, subcontractor, materialman or other agent (collectively referred to as "contractor") to whom responsibility for performance is delegated to meet contractually imposed deadlines be a cause beyond the control of Respondent, unless the cause of the contractor's late performance was also beyond the contractor's control. Upon occurrence of an event causing delay, or upon becoming aware of a potential for delay, Respondent shall notify the Department orally within 24 hours or by the next working day and shall, within seven calendar days of oral notification to the Department, notify the Department in writing of the anticipated length and cause of the delay, the measures taken or to be taken to prevent or minimize the delay and the timetable by which Respondent intends to implement these measures. If the parties can agree that the delay or anticipated delay has been or will be caused by circumstances beyond the reasonable control of Respondent, the time for performance shall be extended for a period equal to the agreed delay resulting from such circumstances. Such agreement shall adopt all reasonable measures necessary to avoid or minimize delay. Failure of Respondent to comply with the notice requirements of this Paragraph in a timely

manner shall constitute a waiver of Respondent's right to request an extension of time for compliance with the requirements of this Consent Order.

14. A person whose substantial interests are affected by the Department's action may petition for an administrative hearing in accordance with sections 120.569 and 120.57 of the Florida Statutes, or all parties may reach a written agreement on mediation as an alternative remedy under section 120.573 before the deadline for filing a petition. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for petitioning for a hearing are set forth below, followed by the procedures for pursuing mediation.

The petition must contain the information set forth below and must be filed (received) in the Department's Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000. Petitions filed by the applicant or any of the parties listed below must be filed within twenty-one days of receipt of this notice of intent. Petitions filed by any other person must be filed within twenty-one days of publication of the public notice or within twenty-one days of receipt of this notice of intent, whichever occurs first. A petitioner must 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 a request for mediation, as discussed below) within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes, or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-5.207 of the Florida Administrative Code.

A petition must contain the following information:

- (a) The name, address, and telephone number of each petitioner; the Department's case identification number and the county in which the subject matter or activity is located;
- (b) a statement of how and when each petitioner received notice of the Department's action;
- (c) a statement of how each petitioner's substantial interests are affected by the department's action;
- (d) a statement of the material facts disputed by the petitioner, if any;
- (e) a statement of facts that the petitioner contends warrant reversal or modification of the Department's action;

M. Sambumurthi, P.E., Vice President

United Water Florida

(f) a statement of which rules or statutes the petitioner contends require reversal or modification of the Department's action; and

(g) and a statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take.

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 order. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Any person may elect to pursue mediation by reaching a mediation agreement with all parties to the proceeding (which includes the Department and any person who has filed a timely and sufficient petition for a hearing) and by showing how the substantial interests of each mediating party are affected by the Department's action or proposed action. The agreement must be filed in (received by) the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, by the same deadline as set forth above for the filing of a petition.

The agreement to mediate must include the following:

(a) the names, addresses, and telephone numbers of any persons who may attend the mediation;

(b) the name, address, and telephone number of the mediator selected by the parties, or a provision for selecting a mediator within a specified time;

(c) the agreed allocation of the costs and fees associated with the mediation;

(d) the agreement of the parties on the confidentiality of discussions and documents introduced during mediation;

(e) the date, time, and place of the first mediation session, or a deadline for holding the first session, if no mediator has yet been chosen;

(f) the name of each party's representative who shall have authority to settle or recommend settlement;

(g) either an explanation of how the substantial interests of each mediating party will be affected by the action or proposed action addressed in this action or a statement clearly identifying the petition for hearing that each party has already filed, and incorporating it by reference; and

(h) the signatures of all parties or their authorized representatives.

As provided in section 120.573 of the Florida Statutes, the timely agreement of all parties to mediate will toll the time limitations imposed by section 120.569 and 120.57 for requesting and holding an administrative hearing. Unless

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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 whose substantial interests will be affected by such a modified final decision of the Department have a right to petition for a hearing only in accordance with the requirements for such petitions set forth above, and must therefore file their petitions within twenty-one days of receipt of this notice. If mediation terminates without settlement of the dispute, the Department shall notify all parties in writing that the administrative hearing processes under section 120.569 and 120.57 remain available for disposition of the dispute, and the notice will specify the deadlines that then will apply for challenging the agency action and electing remedies under those two statutes.

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

Any party to the order has the right to seek judicial review of the order under section 120.68 of the Florida Statutes, by the filing of a notice of appeal under rule 9.110 of the 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 the final order is filed with the Clerk of the Department.

15. In addition to routine annual inspections, Respondent shall allow all authorized representatives of the Department access to the property and Facility at reasonable times for the purpose of determining compliance with the terms of this Consent Order and the rules of the Department.

16. All plans, applications, penalties, stipulated penalties, costs and expenses, and information required by this Consent Order to be submitted to the Department shall be sent to the Florida Department of Environmental Protection,

OGC FILE NO. 96-1965  
M. Sambumurthi, P.E., Vice President  
United Water Florida

Northeast District Office, 7825 Baymeadows Way, Suite B200,  
Jacksonville, Florida 32256-7590.

17. This Consent Order is a settlement of the violations alleged by the Department in Paragraph 4 above, pursuant to the Department's civil and administrative authority under Chapters 403 and 376, F.S. This Consent Order does not address settlement of any criminal liabilities which may arise from Sections 403.161(3) through (5), 403.413(5), 403.727(3)(b), 376.302(3) and (4), or 376.3071(10), F.S., nor does it address settlement of any civil violation of federal law unrelated to the toxicity test issues addressed in this order or any criminal violation of federal law.

18. The Department hereby expressly reserves the right to initiate appropriate legal action to prevent or prohibit any violations of applicable statutes, or the rules promulgated thereunder that are not specifically addressed by the terms of this Consent Order.

19. The terms and conditions set forth in this Consent Order may be enforced in a court of competent jurisdiction pursuant to Sections 120.69 and 403.121, F.S. Failure to comply with the terms of this Consent Order shall constitute a violation of Section 403.161(1)(b), F.S.

20. The Department, for and in consideration of the complete and timely performance by Respondent of the obligations agreed to in this Consent Order, hereby waives its right to seek judicial imposition of damages or civil penalties for alleged violations of toxicity related



# Department of Environmental Protection

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

## BEFORE THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION,

Complainant,

vs.

United Water Florida, Inc.,

Respondent.

IN THE OFFICE OF THE  
NORTHEAST DISTRICT

OGC FILE NO. 96-1965

This Consent Order is made and entered into between the State of Florida Department of Environmental Protection ("Department") and United Water Florida, Inc. ("Respondent") to reach settlement of certain matters at issue between the Department and Respondent.

The Department finds and the Respondent admits the following: Treated wastewater effluent discharged from the Respondent's domestic wastewater treatment facility located at 5957 Tampico Road, Jacksonville, Florida 32244, and known as the Jacksonville Heights WWTP has been shown to be chronically toxic to Ceriodaphnia dubia which is a violation of the whole effluent toxicity requirements established in Permit FL0023671 ("Permit").

1. The Department is the administrative agency of the State of Florida having the power and duty to protect



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United Water Florida

Florida's air and water resources and to administer and enforce the provisions of Chapter 403, Florida Statutes ("F.S."), and the rules promulgated thereunder, Florida Administrative Code (F.A.C.) Title 62. The Department has jurisdiction over the matters addressed in this Consent Order.

2. Respondent is a person within the meaning of Section 403.031(5), F.S.

3. Respondent is the owner and is responsible for the operation of the Jacksonville Heights WWTP, a 2.5 MGD AADF domestic wastewater treatment facility ("Facility") with effluent discharged to an unnamed stormwater ditch ("Ditch") connected to Fishing Creek. The Facility is located at 5957 Tampico Road, Jacksonville, Florida 32244 at Latitude: 30° 14' 15" N, Longitude: 81° 45' 05" W.

4. Respondent operates the Facility under the Department Permit which expires on April 1, 1998. There is conclusive evidence that the Respondent's discharge is chronically toxic to *Ceriodaphnia dubia* as a result of its diazoxon content and that this toxicity occurs during wet weather months. The presence of diazoxon is not due to the facility's operation but appears to be related to the public's use of the pesticide diazinon, a federally authorized chemical. (See CH2M Hill's January 22, 1996 report showing 100% mortality of *C. dubia* following rainfall events on June 29, 1994, August 9, 1994, September 9, 1994, September 13, 1994, and October 11, 1994). There is uncertainty whether there is sufficient evidence to

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United Water Florida

be suspicious that an additional toxicant(s) is present which results in unacceptable acute toxicity during dry weather months. (See CH2M Hill's January 22, 1996 report showing 100% mortality of C. dubia following no rainfall events on March 22, 1994).

Instream biological surveys do not indicate a correlation between C. dubia toxicity test results and adverse impacts on biota. This is likely due to the nature of the Ditch and the intermittent nature of the flow which limits biological diversity. The Department has established a chronic toxicity effluent limit pursuant to Rule 62-4.244(3)(a), FAC. However, in light of available information, the Department is requiring reconfirmation of the source of the toxicity and the relationship of effluent toxicity tests to instream impacts.

5. Having reached a resolution of the matter the Department and the Respondent mutually agree and it is

**ORDERED:**

6. Respondent shall comply with the following actions within the stated time periods:

1. During the effective period of this Consent Order and as provided in paragraph 6.2, below, the Respondent shall conduct additional monitoring of the facility's effluent and receiving waters to determine whether

a. acute toxicity, if present, is related to diazinon;

M. Sambumurthi, P.E., Vice President  
United Water Florida

- b. dilution is available when toxicity events occur; and
- c. chronic toxicity results are correlated with instream impacts.

2. The following testing and other requirements shall be initiated within 60 days of this order.

The Respondent shall initiate the series of tests described below beginning in May 1997 to evaluate chronic whole effluent toxicity of the discharge from outfall D001. All test species, procedures and quality assurance criteria used shall be in accordance with Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, EPA/600/4-91/002, or the most current edition. A standard reference toxicant quality assurance test shall be conducted concurrently, or no greater than 30 days prior to the test date of the chronic toxicity test, with each species used in the toxicity tests and the results submitted with the discharge monitoring report (DMR).

- a. The Respondent shall conduct a daphnid (Ceriodaphnia dubia) Survival and Reproduction Test and a Fathead Minnow (Pimephales promelas) Larval Survival and Growth Test. These tests shall be conducted using a control (0% effluent) , one test concentration consisting of 33% effluent, and one test at 100% effluent. The control water and effluent used will be a moderately hard water as described in EPA/600/4-91/002, Section 8 (or most current edition). All tests results shall be statistically analyzed according to Appendix H, EPA/600/4-91/002, or the most current edition. Samples for chronic toxicity testing shall be collected to coincide with testing for the presence of diazinon.
- b. For each set of effluent tests conducted, a minimum of three different 24-hour composite samples of final effluent shall be collected and used per the sampling schedule of Section 8.3.2, EPA/600/4-91/002 (or the most current edition). In stream samples shall consist of grab samples collected at each site for a minimum of three nonconsecutive days and used per the sampling schedule in Section 8.3.2, EPA/600/4-91/002. All test solutions shall be renewed daily. If test results do not meet the acceptability criteria of either Section 13, paragraph 13.11 or Section 11, paragraph 11.11, EPA/600/4-91/002 (or the most current edition), that test shall be repeated. A chronic test will be

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United Water Florida

considered valid only if the acceptability criteria referenced herein are met.

- c. The effluent toxicity tests specified above shall be conducted once every two months for the duration of the Permit, unless notified otherwise by the Department. These tests are referred to as "chronic routine" tests. The effluent toxicity tests shall be conducted to coincide with the instream bioassays in 9. below.
- d. Results from "chronic routine" tests shall be reported according to EPA/600/4-91/002, Section 10, Report Preparation (or the most current edition), and shall be submitted as an attachment to the discharge monitoring report.
- e. For all tests conducted, a final effluent sample must be used.
- f. Diazinon Testing shall be conducted in accordance with EPA Method 614 or other Department approved method. The method detection limit shall not be greater than 0.05 micrograms per liter and the practical quantitative limit shall not be greater than 0.25 micrograms per liter.
- g. If diazinon is demonstrated to be present when the NOEC is less than 33%, that test shall not constitute a violation of the Permit or this Order.

This Consent Order does not act as State of Florida Department of Environmental Protection Wastewater Permit, nor does it authorize or otherwise justify violation of the Florida Air and Water Pollution Control Act ("Act"), Part I, Chapter 403, F.S., during the pendency of this Consent Order.

7. Analyses required by paragraph 6., above shall be reported bi-monthly on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10). These reports shall be mailed or hand delivered to the Department of Environmental Protection, Florida Department of Environmental Protection Wastewater Facilities Regulation Section, Mail Station 3551, Twin Towers

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Office Building, 2600 Blair Stone Road, Tallahassee, Florida  
32399-2400 bi-monthly and must be received by the Department  
no later than the 28th day following the end of the reporting  
period (e.g., the August report would be due not later than  
September 28th.)

8. The Respondent shall prepare a plan for conducting  
in stream flow monitoring within the Ditch at the outfall  
location for Department approval and submit the plan by June  
1, 1997. Respondent shall have 45 days after Departmental  
approval to initiate and complete any construction required  
by the plan. The plan for stream monitoring shall provide  
for accurately measuring and recording daily stream flow and  
rainfall. During the interim period prior to completion of  
the stream monitoring facilities, the permittee shall conduct  
measurements of stream velocity and report the estimated  
stream flow on days during which samples are collected for  
the bioassays required by this Consent Order.

9. The Respondent shall implement an instream  
biomonitoring program for the purpose of identifying whether  
effluent toxicity is adversely impacting uses in the Ditch  
and Fishing Creek. The biomonitoring program shall include  
the following elements:

- a. Respondent shall perform in the Ditch and in  
Fishing Creek. There shall be a total of six  
monitoring sites in the ditch and in Fishing  
Creek and these sites shall be located as shown  
on Exhibit 1 and as follows: (#1) one station  
in the ditch, upstream of the facility  
discharge point; (#2, #3, and #4) three  
biomonitoring stations in the ditch, downstream  
of the facility discharge point, prior to where

M. Sambumurthi, P.E., Vice President  
United Water Florida

the ditch meets Fishing Creek; (#5) one biomonitoring station in Fishing Creek, upstream of where the creek meets the ditch, mid-point of creek; and (#6) one biomonitoring station in Fishing Creek, downstream of where the ditch meets the creek, mid-point of creek.

- b. Monitoring shall be conducted three times per year and at least twice during the wet or rainy season (March through October) and once during the dry season. Sampling events shall be separated by a minimum of 30 days. The monitoring shall include diazinon analysis, priority pollutant scans and invertebrate sampling at each site, for each sampling event. The Respondent shall provide estimates of flow at each bioassay site in the Ditch and chronic bioassays for daphnids and fathead minnow at biomonitoring stations #1, #2, #4, and #6. All chronic bioassays shall be conducted in accordance with the sampling and testing procedures described in 6.2. above.
- c. The biomonitoring plan shall be initiated by the second quarter of 1997.

10. The Respondent shall investigate the potential for eliminating toxics from entering the wastewater collection system through a public education program. The Respondent shall develop a plan for a public education program and submit this plan to the Department for approval within 45 days of the effective date of the Consent Order. The plan shall be designed to inform the public about the proper use and disposal of diazinon and other toxics for the purpose of reducing the presence of diazinon and other toxics within the Respondent's service area. Respondent shall have 45 days after Departmental approval to initiate the plan.

11. Every calendar quarter after the effective date of this Consent Order, Respondent shall submit in writing to the Department a report containing information concerning the

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United Water Florida

status and progress of projects being completed under this Consent Order, information as to compliance or noncompliance with the applicable requirements of this Consent Order including construction requirements and effluent limitations, and any reasons for noncompliance. Such reports shall also include a projection of the work to be performed pursuant to this Consent Order during the following 12 month period. The reports shall be submitted to the Department within thirty (30) days following the end of the quarter.

12. In the event of a sale or conveyance of the Facility or of the property upon which the Facility is located, if all of the requirements of this Consent Order have not been fully satisfied, Respondent shall, at least 30 days prior to the sale or conveyance of the property or Facility, (1) notify the Department of such sale or conveyance, (2) provide the name and address of the purchaser, or operator, or person(s) in control of the Facility, and (3) provide a copy of this Consent Order with all attachments to the new owner. The sale or conveyance of the Facility, or the property upon which the Facility is located shall not relieve the Respondent of the obligations imposed in this Consent Order.

13. If any event, including administrative or judicial challenges by third parties unrelated to the Respondent, occurs which causes delay or the reasonable likelihood of delay, in complying with the requirements of this Consent Order, Respondent shall have the burden of proving the delay

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United Water Florida

was or will be caused by circumstances beyond the reasonable control of the Respondent and could not have been or cannot be overcome by Respondent's due diligence. Economic circumstances shall not be considered circumstances beyond the control of Respondent, nor shall the failure of a contractor, subcontractor, materialman or other agent (collectively referred to as "contractor") to whom responsibility for performance is delegated to meet contractually imposed deadlines be a cause beyond the control of Respondent, unless the cause of the contractor's late performance was also beyond the contractor's control. Upon occurrence of an event causing delay, or upon becoming aware of a potential for delay, Respondent shall notify the Department orally within 24 hours or by the next working day and shall, within seven calendar days of oral notification to the Department, notify the Department in writing of the anticipated length and cause of the delay, the measures taken or to be taken to prevent or minimize the delay and the timetable by which Respondent intends to implement these measures. If the parties can agree that the delay or anticipated delay has been or will be caused by circumstances beyond the reasonable control of Respondent, the time for performance shall be extended for a period equal to the agreed delay resulting from such circumstances. Such agreement shall adopt all reasonable measures necessary to avoid or minimize delay. Failure of Respondent to comply with the notice requirements of this Paragraph in a timely



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manner shall constitute a waiver of Respondent's right to request an extension of time for compliance with the requirements of this Consent Order.

14. A person whose substantial interests are affected by the Department's action may petition for an administrative hearing in accordance with sections 120.569 and 120.57 of the Florida Statutes, or all parties may reach a written agreement on mediation as an alternative remedy under section 120.573 before the deadline for filing a petition. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for petitioning for a hearing are set forth below, followed by the procedures for pursuing mediation.

The petition must contain the information set forth below, and must be filed (received) in the Department's Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000. Petitions filed by the applicant or any of the parties listed below must be filed within twenty-one days of receipt of this notice of intent. Petitions filed by any other person must be filed within twenty-one days of publication of the public notice or within twenty-one days of receipt of this notice of intent, whichever occurs first. A petitioner must 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 a request for mediation, as discussed below) within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes, or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-5.207 of the Florida Administrative Code.

A petition must contain the following information:

- (a) The name, address, and telephone number of each petitioner; the Department's case identification number and the county in which the subject matter or activity is located;
- (b) a statement of how and when each petitioner received notice of the Department's action;
- (c) a statement of how each petitioner's substantial interests are affected by the department's action;
- (d) a statement of the material facts disputed by the petitioner, if any;
- (e) a statement of facts that the petitioner contends warrant reversal or modification of the Department's action;

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United Water Florida

(f) a statement of which rules or statutes the petitioner contends require reversal or modification of the Department's action; and

(g) and a statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take.

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 order. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Any person may elect to pursue mediation by reaching a mediation agreement with all parties to the proceeding (which includes the Department and any person who has filed a timely and sufficient petition for a hearing) and by showing how the substantial interests of each mediating party are affected by the Department's action or proposed action. The agreement must be filed in (received by) the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, by the same deadline as set forth above for the filing of a petition.

The agreement to mediate must include the following:

- (a) the names, addresses, and telephone numbers of any persons who may attend the mediation;
- (b) the name, address, and telephone number of the mediator selected by the parties, or a provision for selecting a mediator within a specified time;
- (c) the agreed allocation of the costs and fees associated with the mediation;
- (d) the agreement of the parties on the confidentiality of discussions and documents introduced during mediation;
- (e) the date, time, and place of the first mediation session, or a deadline for holding the first session, if no mediator has yet been chosen;
- (f) the name of each party's representative who shall have authority to settle or recommend settlement;
- (g) either an explanation of how the substantial interests of each mediating party will be affected by the action or proposed action addressed in this action or a statement clearly identifying the petition for hearing that each party has already filed, and incorporating it by reference; and
- (h) the signatures of all parties or their authorized representatives.

As provided in section 120.573 of the Florida Statutes, the timely agreement of all parties to mediate will toll the time limitations imposed by section 120.569 and 120.57 for requesting and holding an administrative hearing. Unless

M. Sambumurthi, P.E., Vice President

United Water Florida

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 whose substantial interests will be affected by such a modified final decision of the Department have a right to petition for a hearing only in accordance with the requirements for such petitions set forth above, and must therefore file their petitions within twenty-one days of receipt of this notice. If mediation terminates without settlement of the dispute, the Department shall notify all parties in writing that the administrative hearing processes under section 120.569 and 120.57 remain available for disposition of the dispute, and the notice will specify the deadlines that then will apply for challenging the agency action and electing remedies under those two statutes.

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

Any party to the order has the right to seek judicial review of the order under section 120.68 of the Florida Statutes, by the filing of a notice of appeal under rule 9.110 of the 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 the final order is filed with the Clerk of the Department.

15. In addition to routine annual inspections, Respondent shall allow all authorized representatives of the Department access to the property and Facility at reasonable times for the purpose of determining compliance with the terms of this Consent Order and the rules of the Department.

16. All plans, applications, penalties, stipulated penalties, costs and expenses, and information required by this Consent Order to be submitted to the Department shall be sent to the Florida Department of Environmental Protection,

OGC FILE NO. 96-1965  
M. Sambumurthi, P.E., Vice President  
United Water Florida

Northeast District Office, 7825 Baymeadows Way, Suite B200,  
Jacksonville, Florida 32256-7590.

17. This Consent Order is a settlement of the violations alleged by the Department in Paragraph 4 above, pursuant to the Department's civil and administrative authority under Chapters 403 and 376, F.S. This Consent Order does not address settlement of any criminal liabilities which may arise from Sections 403.161(3) through (5), 403.413(5), 403.727(3)(b), 376.302(3) and (4), or 376.3071(10), F.S., nor does it address settlement of any civil violation of federal law unrelated to the toxicity test issues addressed in this order or any criminal violation of federal law.

18. The Department hereby expressly reserves the right to initiate appropriate legal action to prevent or prohibit any violations of applicable statutes, or the rules promulgated thereunder that are not specifically addressed by the terms of this Consent Order.

19. The terms and conditions set forth in this Consent Order may be enforced in a court of competent jurisdiction pursuant to Sections 120.69 and 403.121, F.S. Failure to comply with the terms of this Consent Order shall constitute a violation of Section 403.161(1)(b), F.S.

20. The Department, for and in consideration of the complete and timely performance by Respondent of the obligations agreed to in this Consent Order, hereby waives its right to seek judicial imposition of damages or civil penalties for alleged violations of toxicity related

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M. Sambumurthi, P.E., Vice President  
United Water Florida

limitations through the date of the filing of this Consent Order as outlined in this Consent Order.

21. Respondent is fully aware that a violation of the terms of this Consent Order may subject Respondent to judicial imposition of damages, civil penalties up to \$10,000.00 per day per offense, and criminal penalties.

22. Entry of this Consent Order does not relieve Respondent of the need to comply with any and all applicable federal, state or local laws, regulations or ordinances.

23. The provisions of this Consent Order shall apply to and be binding upon the parties, their officers, their directors, agents, servants, employees, successors, and assigns and all persons, firms and corporations acting under, through or for them and upon those persons, firms and corporations in active concert or participation with them.

24. No modifications of the terms of this Consent Order shall be effective until reduced to writing and executed by both Respondent and the Department.

25. Respondent acknowledges but waives its right to an administrative hearing pursuant to Section 120.57, F.S., on the terms of this Consent Order. Respondent acknowledges its right to appeal the terms of this Consent Order pursuant to Sections 120.569 and 120.68, F.S., but waives that right upon signing this Consent Order.

26. This Consent Order is a final order of the Department pursuant to Section 120.52(7), F.S., and it is final and effective on the date filed with the Clerk of the

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M. Sambamurthi, P.E., Vice President  
United Water Florida

Department unless a Petition for Administrative Hearing is filed in accordance with Chapter 120, F.S. Upon the timely Filing of a petition this Consent Order will not be effective until further order of the Department.

27. This Consent Order shall expire on April 1, 1998.

**FOR THE RESPONDENT**

\_\_\_\_\_  
Munipalli Sambamurthi, P.E.  
Vice President  
United Water Florida

**DONE AND ORDERED** this \_\_\_\_\_ day of \_\_\_\_\_, 1997 in  
Jacksonville, Florida.

**STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION**

\_\_\_\_\_  
Ernest E. Frey, P.E.  
Director Of District Management

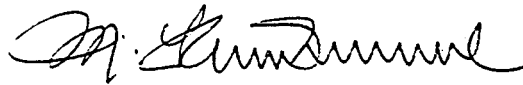
Copies furnished to:  
Mitchell Griffin, Ph.D., P.E.  
Larry Morgan, DEP  
Gordon Grimes, P.E., UWF  
John Hall  
Marshall Hyatt, EPA  
Robert Glenn, DEP

OGC FILE NO. 96-1965  
M. Sambamurthi, P.E., Vice President  
United Water Florida

Department unless a Petition for Administrative Hearing is filed in accordance with Chapter 120, F.S. Upon the timely Filing of a petition this Consent Order will not be effective until further order of the Department.

27. This Consent Order shall expire on April 1, 1998.

**FOR THE RESPONDENT**



Munipalli Sambamurthi, P.E.  
Vice President  
United Water Florida

**DONE AND ORDERED** this \_\_\_\_\_ day of \_\_\_\_\_, 1997 in  
Jacksonville, Florida.

**STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION**

\_\_\_\_\_  
Ernest E. Frey, P.E.  
Director Of District Management

Copies furnished to:  
Mitchell Griffin, Ph.D., P.E.  
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# Department of Environmental Protection

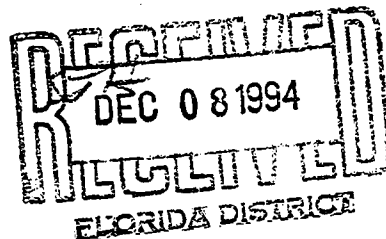
Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

## NOTICE OF PERMIT ISSUANCE

CERTIFIED-RETURN RECEIPT  
December 1, 1994



Mr. Philip Heil, Vice President  
Jacksonville Suburban Utilities Corp.  
1400 Millcoe Road  
Jacksonville, Florida 32225

Dear Mr. Heil:

Nassau County - Domestic Waste  
Lofton Oaks WWTP

Enclosed is Permit Number D045-260422 to operate the referenced wastewater treatment plant, issued pursuant to Section(s) 403.087, Florida Statutes (F.S.).

The Permittee is reminded of the necessity to comply with the pertinent regulations of any other State agency, as well as any County, Municipal, and Federal regulations applicable to the project. These regulations may include, but are not limited to, those of the Federal Emergency Management Agency in implementing flood control measures. This permit should not be construed to imply compliance with the regulations of other agencies.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, F.S. The petition 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 receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information;

- (a) 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;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

*"Protect, Conserve and Manage Florida's Environment and Natural Resources"*



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 this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, FAC.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, FAC. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; 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 the Final Order is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

Sincerely,



Ernest E. Frey, P.E.  
Director of District Management

*AB*  
EER:/jf  
Attachment

cc: Stephen V. Manis, P.E.

CERTIFICATE OF SERVICE

1/6/94 The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were mailed before the close of business on to the listed persons.

FILING AND ACKNOWLEDGEMENT

FILED, on this date, pursuant to S120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

*Judy H. Johnson* 12/6/84  
Clerk Date



# Department of Environmental Protection

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

**PERMITTEE:**

Mr. Philip Heil, Vice President  
Jacksonville Suburban Utilities Corp.  
1400 Millcoe Road  
Jacksonville, Florida 32225

I.D. Number: 3145P01895  
Permit/Cert Number: DO45-260422  
Date of Issue: December 1, 1994  
Expiration Date: December 1, 1999  
County: Nassau  
Lat/Long: 38°38'0"N/81°34'45"W  
Section/Township/Range: 38/2N/27E  
Project: Lofton Oaks WWTP

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-4, 62-600, and 62-604. 62-301, 62-302, 62-4, 62-600, 62-601, 62-610, 62-640, 62-699, 62-7 and 61E12. The above named Permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the operation of a 0.050 MGD extended aeration (activated sludge) wastewater treatment plant with chlorinated reclaimed water disposal to two percolation/evaporation ponds having a total bottom area of 49,660 ft<sup>2</sup>.

Located on A1A (S.R. 200), east of Yulee in the Lofton Oaks Subdivision, Nassau County, Florida.

In accordance with application received November 4, 1994.

PERMITTEE:

Mr. Philip Heil, Vice President  
Jacksonville Suburban Utilities Corp.

I.D. Number: 3145F 395

Permit/Cert Number: DO45-260422

Date of Issue: December 1, 1994

Expiration Date: December 1, 1999

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.087(6) and 403.722(5), 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 any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
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.
5. This permit does not relieve the permittee from liability 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, or from penalties therefore; 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.
6. The permittee shall 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, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

PERMITTEE:

Mr. Philip Heil, Vice President  
Jacksonville Suburban Utilities Corp.

I.D. Number: 3145P 95  
Permit/Cert Number: DO45-260422  
Date of Issue: December 1, 1994  
Expiration Date: December 1, 1999

- a. Have access to and copy any records that must be kept under conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
  - a. A description of and cause of noncompliance; and
  - b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to educe, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.
9. 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 where such use is prescribed by Section 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
10. The permittee 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, shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.
11. This permit is transferable only upon Department approval in accordance with Rule 62-4.120 and 62-730.300 F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

PERMITTEE:

Mr. Philip Heil, Vice President  
Jacksonville Suburban Utilities Corp.

I.D. Number: 3145P-395

Permit/Cert Number: DO45-260422

Date of Issue: December 1, 1994

Expiration Date: December 1, 1999

13. This permit also constitutes:

- (a) Determination of Best Available Control Technology (BACT)
- (b) Determination of Prevention of Significant Deterioration (PSD)
- (c) Certification of compliance with state Water Quality Standards (Section 401, PL 92-500)
- (d) Compliance with New Source Performance Standards

14. The permittee shall comply with the following:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
- c. Records of monitoring information shall include:
  - the date, exact place, and time of sampling or measurements;
  - the person responsible for performing the sampling or measurements;
  - the dates analyses were performed;
  - the person responsible for performing the analyses;
  - the analytical techniques or methods used;
  - the results of such analyses.

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

PERMITTEE:  
Mr. Philip Heil, Vice President  
Jacksonville Suburban Utilities Corp.

I.D. Number: 3145PC-895  
Permit/Cert Number: DO45-260422  
Date of Issue: December 1, 1994  
Expiration Date: December 1, 1999

**SPECIFIC CONDITIONS:**

1. Waste residuals or other solid wastes shall not be discharged into surface waters either directly or indirectly. These shall be disposed of in a manner approved by the Department.
2. The reclaimed water from this source shall be adequately chlorinated at all times so as to meet the basic disinfection requirements of Rule 62-600.440 (4), FAC.
3. The personnel in charge of the operation, supervision, or maintenance of the treatment facilities shall meet the requirements of Chapter 62-699, FAC and 61E12. Sampling and monitoring of this facility will be in accordance with Chapter 62-601, FAC.
4. No additional connections shall be made to this facility without prior approval of this agency.
5. The permit holder shall also comply with county, municipal, federal and other state regulations.
6. During the period of operation allowed by this permit, the Permittee shall complete and submit on a monthly basis the monthly operation report [DER Form No. 62-601.900(1)] so as to be received by the Department by the twenty-eighth (28th) day of the month following the month of operation. The test site identification number for this facility to be entered under Part II, item (10) of each report is 3145X12577. Reports shall be submitted on a monthly basis to the Department of Environmental Protection, Northeast District Office, 7825 Baymeadows Way, Suite B-200, Jacksonville, Florida 32256-7590.
7. An Operation and Maintenance Manual for this facility shall be available at the facility for use by operation and maintenance personnel and for inspection by the Department in accordance with Rule 62-600.720, FAC.
8. A copy of these permit conditions shall be forwarded by the Permittee to the lead operator and/or the utility company who is charged to maintain and operate this facility, if other than the owner, so as to comply with General Condition No. 12 above.
9. According to Chapter 62-699, FAC, this is a Class C, Level III treatment process that requires the services of a certified operator (Class C or higher) five days per week for one half hour per day and one weekend visit. (Additionally, the owner or representative shall perform 5 day per week maintenance and testing to ensure the proper operation of the facility and fulfill the monitoring requirements of Specific Condition No. 16 of this permit.)

PERMITTEE:  
Mr. Philip Heil, Vice President  
Jacksonville Suburban Utilities Corp.

I.D. Number: 31451 895  
Permit/Cert Number: DO45-260422  
Date of Issue: December 1, 1994  
Expiration Date: December 1, 1999

10. The Domestic wastewater residuals generated by the facility which meet Class C Stabilization Standards and the chemical criteria of Rule 62-640.700(3), FAC shall be disposed of at the Frenz Beaver Street Sludge Farm land application site in accordance with the provisions of Chapter 62-640 FAC and the Agricultural Use Plan for the site received November 4, 1994 and hereby incorporated as part of this permit. The residuals shall be sampled for the parameters listed below every twelve months in accordance with Rule 62-640.700(1)(e) and (f) FAC. Residuals samples shall be collected after final treatment but prior to utilization or disposal. A copy of the analyses shall be submitted with the monthly operation report for the following parameters:

Total Nitrogen	-	%	dry weight
Total Phosphorus	-	%	dry weight
Total Potassium	-	%	dry weight
Total Solids	-	%	dry weight
Cadmium	-	mg/kg	- dry weight
Copper	-	mg/kg	- dry weight
Lead	-	mg/kg	- dry weight
Nickel	-	mg/kg	- dry weight
Zinc	-	mg/kg	- dry weight
pH	-		standard units

11. The Permittee shall notify the Department by letter of any modifications or expansions of the approved land application residual site in accordance with the requirements of Rule 62-640.300(2) FAC. Expansions include additional site locations for the Permittee's residuals.
12. Pursuant to Rule 62-640.500(1)(f) FAC, the Agricultural Use Plan shall be updated and submitted to the Department annually beginning one year from the date of operation permit issuance. The pH of the residuals soil mixture and a summary of the total domestic wastewater residuals, nitrogen, and heavy metals applied on an annual basis shall be submitted with the annual update to the Agricultural Use Plan.
13. Pursuant to Rule 62-640.700(3)(p) FAC, records of the domestic wastewater residuals application areas and application rates shall be maintained by the wastewater treatment facility permittee and must be available for inspection upon request by the Department, or the appropriate Local Environmental Program. Records shall be kept on an appropriate Department form or by an approved method which provides equivalent detail. These records shall include:
- Date of application of the domestic wastewater residuals,
  - Location of the residuals application site,
  - Amount of domestic wastewater residuals applied or delivered,
  - Identification of specific areas of the site where domestic wastewater residuals were applied and acreage of that area,
  - Method of incorporation of residuals (if any),
  - Water table level at time of application, and
  - Concentration of nitrogen and heavy metals in the domestic wastewater residuals, solids, and date of last analysis.
14. All applications to renew operation permits shall include a detailed operation and maintenance performance report as described in Rule 62-600.735 FAC.

PERMITTEE:

Mr. Philip Heil, Vice President  
 Jacksonville Suburban Utilities Corp.

I.D. Number: 3145P01895

Permit/Cert Number: DO45-260422

Date of Issue: December 1, 1994

Expiration Date: December 1, 1999

15. The Permittee shall provide for the timely planning, design and construction of wastewater facilities necessary to provide proper treatment and reuse of domestic wastewater and management of domestic wastewater residuals. When the three-month average daily flow for the most recent three consecutive months exceeds 50 percent of the permitted capacity of the treatment facility, the Permittee shall submit to the Department a capacity analysis report pursuant to Rule 62-600.405 FAC.
16. In accordance with Chapter 62-601 FAC, the monitoring requirements and reclaimed water limitations for this plant are as follows:

PARAMETER	RECLAIMED WATER LIMIT	MINIMUM FREQUENCY	SAMPLE TYPE	SAMPLE LOCATION
Flow (mgd)	0.050 (b)	Daily, 5/week	Measurement	Influent or Reclaimed Water
CBOD <sub>5</sub> (mg/L)	(a)	Monthly	Grab	Influent (c) & Reclaim. Water(d)
TSS (mg/L)	(a)	Monthly	Grab	Influent (c) & Reclaim. Water(d)
NO <sub>3</sub> -N (mg/L)	(a)	Monthly	Grab	Reclaimed Water (d)
pH Units	6.0 - 8.5	Daily, 5/week	Grab	Reclaimed Water (d)
Chlorine Residual (mg/L)	0.5 Minimum (e)	Daily, 5/week (g)	Grab	Reclaimed Water (d)
Fecal Coliform no./100 (mL)	200 (f)	Monthly	Grab	Reclaimed Water (d)

(a)

	ANNUAL	MONTHLY	WEEKLY	ONE TIME MAXIMUM
CBOD <sub>5</sub>	20*	30*	45*	60*
TSS	20*	30*	45*	60*
NO <sub>3</sub> -N	12**	12**	12**	12**

\* Rule 62-600.740, FAC

\*\* Rule 62-610.560, FAC

- (b) Annual average daily flow shall not exceed value shown.
- (c) Influent samples shall be collected so that they do not contain digester supernatant or returned activated sludge, or any other plant process waters.
- (d) Reclaimed water samples shall be collected after final treatment and immediately before discharge to the drainfield.
- (e) The total residual chlorine content of the reclaimed water at the exit of the chlorine contact chamber shall at all times not be less than 0.5 mg/L.
- (f) The arithmetic mean of the monthly fecal coliform values collected during an annual period shall not exceed 200 per 100 mL. Any one sample shall not exceed 800 fecal coliform values per 100 mL.
- (g) The minimum schedule for sampling and testing at the exit of the chlorine contact chamber is daily, 5 days per week.



PERMITTEE:  
Mr. Philip Heil, Vice President  
Jacksonville Suburban Utilities Corp.

I.D. Number: 3145PU1895  
Permit/Cert Number: DO45-260422  
Date of Issue: December 1, 1994  
Expiration Date: December 1, 1999

17. Pursuant to Rule 61E12-41.010(e), a bound operation and maintenance log shall be maintained in a location accessible for 24-hour inspection and current to the last operation and maintenance performed. The log at a minimum shall include identification of the plant; the signature and certification number of the operator; date and time in and out; specific operation and maintenance performed; tests performed and samples taken and major repairs made.
18. The Permittee shall, prior to 60 days before the expiration of this permit, apply for an operation permit on forms and in a manner prescribed by the Department, Section 62-4.09, FAC. It is recommended that the wastewater treatment plant and disposal system be evaluated prior to the submittal of an operation permit application so it can be established that there are no violations of current Department regulations. If there is noncompliance, the Department should be contacted as to the appropriate type of permit to obtain.
19. Field testing, sample collection and preservation, laboratory testing, including quality control procedures, and all record keeping shall comply with Chapter 62-160, FAC. Each reclaimed water parameter has an applicable method detection limit (MDL) and a practical quantitative limit (PQL) as follows:

ANALYTE	RECOMMENDED MDL	TARGETS PQL	EPA METHOD
Cadmium	3.0	10.0	200.7
Copper	6.0	25.0	200.7
Lead	1.0	2.0	239.2
Nickel	15.0	10.0	200.7
Zinc	2.0	5.0	200.7 or
	5.0	5.0	289.1
Total chlorine			
Residual	10.0	10.0	330.1 or
	200.0	200.0	330.5
Nitrate	100.0	100.0	352.1

Units are microgram per liter

Equivalent methods are subject to approval by the Department.

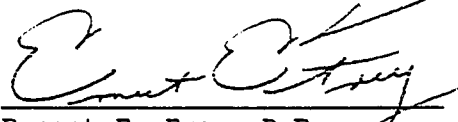
20. The Permittee shall provide regular cleaning of the percolation cells including scarification and vegetation removal as necessary to ensure the continued effective operation of the cells. Hydraulic loadings periods of 1-7 days with resting period of 5-14 days to dry the pond bottoms and enable scarification or removal of deposited solids are required. A minimum freeboard of 3 feet shall be provided at all times and in no case shall the freeboard be less than 1 foot from the top of the berm. The Permittee shall provide a plan of corrective action to the Department in the event the freeboard in the pond becomes less than 3 feet from the top of berm or the hydraulic loading/resting period no longer provides for the drying of pond bottoms to enable scarification or removal of deposited solids.
21. Appropriate warning signs shall be posted around the site boundaries to designate the nature of the project area.

PERMITTEE:  
Mr. Philip Heil, Vice President  
Jacksonville Suburban Utilities Corp.

I.D. Number: 3145PU1895  
Permit/Cert Number: DO45-260422  
Date of Issue: December 1, 1994  
Expiration Date: December 1, 1999

22. Percolation ponds and/or storage ponds shall be enclosed with a fence or otherwise designed with appropriate features to discourage the entry of animals and unauthorized persons (Rule 62-610.518 FAC).
23. In order to conform with USEPA 40 CFR 503 Sludge Regulations, it is anticipated that proposed revisions of Chapter 62-640, FAC will require Class A or Class B stabilization prior to land application of residuals from all domestic wastewater treatment plants. Should this rule revision become effective, Class A or Class B Stabilization shall be required and demonstrated in subsequent Agricultural Use Plan Updates. A construction permit will be required for any modification of residuals handling equipment necessary to effect Class A or Class B Stabilization.
24. The Permittee shall within 60 days of the date of issue of this permit, baffle or modify the piping within the chlorine contact chamber to ensure 15 minutes contact time at the peak hourly flow as required by Florida Administrative Code (FAC) Chapter 62-600.440(4)(b).

*BFW*  
STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
Ernest E. Frey, P.E.  
Director of District Management

FILING AND ACKNOWLEDGEMENT

FILED on this date, pursuant to §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

*Judith A. Trausch* *12/6/94*  
Clerk Date



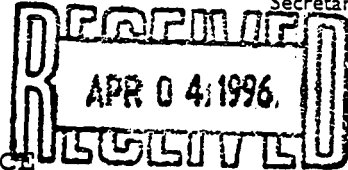
# Department of Environmental Protection

cc: T. GR...  
G. GRIMES  
original - 5 AM

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary



NOTICE OF PERMIT ISSUANCE

UNITED WATER FLORIDA

CERTIFIED MAIL

April 2, 1996

In the Matter of an Application  
for Permit by:

DEP File No. 267307

Mr. Philip Heil, Vice President  
United Water Florida  
1400 Millcoe Road  
Jacksonville, Florida 32225

Dear Heil:

Duval County - Domestic Waste  
Monterey WWTF - FL0023604

Enclosed is Permit Number FL0023604 to construct and operate a 3.6 MGD design annual average daily flow sequencing batch reactor type wastewater treatment facility that will replace the existing 3.0 MGD conventional wastewater treatment facility with the final treated and disinfected effluent discharged through outfall D001 to the St. Johns River (Class III waters). Wastewater treatment plant residuals are stabilized by aerobic digestion, thickened and temporarily stored on site prior to hauling to a land application site.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition 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 receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes. The Petition shall contain the following information:

(a) 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;

(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of the material facts disputed by Petitioner, if any;

(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and

(g) A statement of the relief sought by 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 this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

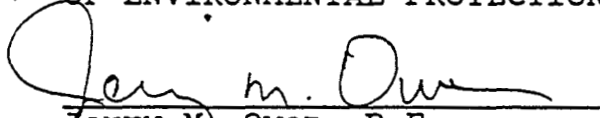
This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 62-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing

of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; 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 the Final Order is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

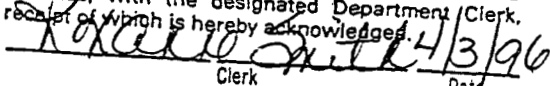
*BPW*  
*JKS*  
STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
Jerry M. Owen, P.E.  
Water Facilities Administrator

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were mailed by certified mail before the close of business on April 3, 1996 to the listed persons.

Copies furnished to:  
Mitchell Griffin, P.E., PhD.  
Nam Huynh, P.E. (RESO)  
Daryll Joyner (DEP)  
Beverly Bannister (U.S. EPA)

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.  
  
Clerk Date 4/3/96



# Department of Environmental Protection

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

## STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT

**PERMITTEE:**  
United Water Florida  
1400 Millcoe Road  
Jacksonville, Florida 32225

**PERMIT No:** FL0023604  
**ISSUANCE DATE:** April 2, 1996  
**EXPIRATION DATE:** April 2, 2001  
**APPLICATION No. :** 267307

### RESPONSIBLE AUTHORITY:

Philip Heil, Vice President

### FACILITY:

Monterey WWTF  
5802 Harris Street  
Jacksonville, Florida 32211

Latitude: 30° 19' 45" N Longitude: 81° 36' 10" W

This permit is issued under the provisions of Chapter 403, Florida Statutes, and applicable rules of the Florida Administrative Code and constitutes authorization to discharge to waters of the state under the National Pollutant Discharge Elimination System. The above named permittee is hereby authorized to construct and/or operate the facilities shown on the application and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

### TREATMENT FACILITIES:

To operate a 3.00 MGD AADF conventional activated sludge wastewater treatment plant with communitation and dual 1.5 MGD AADF conventional activated sludge unit processes operated in parallel with the final disinfected and dechlorinated effluent discharged to the St. Johns River. Wastewater treatment plant residuals are stabilized by aerobic digestion, thickened and temporarily stored on site prior to hauling to a land application site. Proposed improvements to the facility include the construction of an influent pumping station, a 3.6 MGD AADF sequencing batch reactor (SBR) comprised of four cells with a total volume of 3.71 Mgal, a U.V. (ultraviolet) disinfection system and a 6,100 gpm effluent pumping station. The existing wastewater treatment facility will be decommissioned and one of the existing 1.5 MGD AADF activated sludge plants will be converted to an aerobic sludge digester. Stabilized residuals from the facility will continue to be land applied.

*"Protect, Conserve and Manage Florida's Environment and Natural Resources"*

*Printed on recycled paper.*

**PERMITTEE:**  
United Water Florida, Inc.  
Philip Heil, Vice President  
Monterey WWTP

**PERMIT NUMBER:** FL0023604  
**ISSUANCE DATE:** April 2, 1996  
**EXPIRATION DATE:** April 2, 2001  
**APPLICATION No. :** 267307

**EFFLUENT DISPOSAL:**

**Surface Water Discharge:** An existing 3.00 MGD AADF permitted discharge to the St. Johns River (Class III) through outfall D001, a 16-inch diameter ductile iron pipe outfall located approximately 130 feet from the eastern shoreline containing 130 ports, each 1-inch in diameter spaced 4'6" on center. Each port is angled 30 degrees from horizontal from side to side along the diffuser at latitude 30° 19' 45" N, longitude 81° 36' 10" W.

A toxicity mixing zone has been established for this discharge which begins 40 meters from the eastern shoreline of the St. Johns River and extends 182 meters along the axis of the diffuser pipe. The width of the mixing zone is 7.6 meters (3.8 meters on either side of the axis of the diffuser pipe) and covers 1,383 square meters. Upon completion of the 3.6 MGD expansion, the width of the mixing zone shall be expanded to 10.6 meters (5.3 meters on either side of the axis) to cover 1,929 square meters.

**IN ACCORDANCE WITH:** The application received on March 15, 1995, additional information submitted through August 16, 1995 and limitations, monitoring requirements and other conditions set forth in the pages 1 through 24 of this permit.

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**I. Effluent Limitations and Monitoring Requirements**

**A. Interim Surface Water Discharge Limits**

1. During the period beginning on the issuance date and lasting through the completion and placing into service of the proposed wastewater facility expansion or expiration date of this permit whichever occurs first, the permittee is authorized to discharge effluent from Outfall D001 to the St. Johns River. Such discharge shall be limited and monitored by the permittee as specified below:

[62-600, 6-8-93] [62-601, 5-31-93] [62-650, 11-27-89] [62-302, 1-5-93] [62-610.860, 4-2-90]

Parameter	Units	Max/Min	Effluent Limitations				Monitoring Requirements			Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	
Flow	mgd	Maximum	3.00	-	-	-	Continuous	Meter or Instrument	OUT-01	See I.A.4.
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	20	25	40	60	Weekly	8-hour flow-composite	OUT-01	
Total Suspended Solids	mg/L	Maximum	20	30	45	60	Weekly	8-hour flow-composite	OUT-01	
Fecal Coliform Bacteria	See Permit Condition I. A.5.						Weekly	Grab	OUT-01	
pH	std. units	Range	-	-	-	6.5 to 8.5	Continuous	Grab	OUT-01	See I.A.3.
Total Residual Chlorine (For Disinfection)	mg/L	Minimum	-	-	-	0.5	Continuous	Meter or Instrument	EFA-01	See I.A.3., 6., and 9.
Total Residual Chlorine (For Dechlorination)	mg/L	Maximum	-	-	-	0.01	Daily, 7/week	Meter or Instrument	OUT-01	See I.A.9.
Dissolved Oxygen	mg/l	Minimum	-	-	-	1.5	Daily, 7/week	Meter or Instrument	OUT-01	See I.A.9. & 13.
Whole Effluent Toxicity	See Permit Condition I. A.7.									
Nutrient Monitoring	See Permit Condition I.A.10									
Stream Monitoring	See Permit Condition I.A.11									
Benthic Monitoring	See Permit Condition I.A.12									



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

Monitoring Location Site Number	Description of Monitoring Location
OUT-01	After final treatment prior to discharge to the St Johns River
EFA-01	After disinfection but prior to dechlorination.

3. Hourly measurement during the period of required operator attendance may be substituted for continuous measurement for pH and TRC. [Chapter 62-601, Figure 2, Footnotes 1 and 2, 5-31-93]
4. A recording flowmeter and totalizer shall be utilized to measure flow. [62-601.200(17) and .500(6), 5-31-93]
5. The arithmetic mean of the monthly fecal coliform values collected during an annual period shall not exceed 200 per 100 mL of effluent sample. The geometric mean of the fecal coliform values for a minimum of 10 samples of effluent each collected on a separate day during a period of 30 consecutive days (monthly), shall not exceed 200 per 100 mL of sample. When more than 10 samples are taken, no more than 10 percent of the samples collected during a period of 30 consecutive days shall exceed 400 fecal coliform values per 100 mL of sample. Any one sample shall not exceed 800 fecal coliform values per 100 mL of sample. [62-600.440(4)(c), 6-8-93]
6. A minimum of 0.5 mg/L total residual chlorine must be maintained for a minimum contact time of 15 minutes based on peak hourly flow. [62-600.440(4)(b), 6-8-93]
7. The Permittee shall initiate the series of tests described below beginning 60 days from the permit issue date to evaluate whole effluent toxicity of the discharge from outfall D001. All test species, procedures and quality assurance criteria used shall be in accordance with Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms, EPA/600/4-90/027 (4th edition), or the most current edition. A standard reference toxicant quality assurance test shall be conducted concurrently with each species used in the toxicity tests and the results submitted with the discharge monitoring report (DMR). Alternatively, if monthly QA/QC reference toxicant tests are conducted, these results must be submitted with the DMR.
- a. The Permittee shall conduct 96-hour acute static renewal screening toxicity tests using the Mysidopsis bahia (mysid shrimp) and the Menidia beryllina (inland silverside). All tests will be conducted on four separate grab samples collected at evenly spaced (6-hour) intervals over a 24-hour period and used in four separate tests in order to account for variations in effluent quality. The control water and effluent used will be adjusted to a salinity of 20 parts per thousand using artificial sea salts as described in EPA/600/4-90/027, Section 6 (or most current edition). In addition, for the inland silverside test, feeding and solution renewal shall be done at 48 hours with a portion of the original sample that has been refrigerated. Results of the four tests are not to be combined or averaged, but reported separately.
- b. If control mortality exceeds 10% for either species in any test, the test(s) for that species (including the control) shall be repeated. A test will be considered valid only if control mortality does not exceed 10% for either species. If, in any separate grab sample test, greater than 50% mortality of test organisms occurs in 30% effluent at or prior to the end of the test, and control mortality is less than 10% at that time, that test (including the control) shall be terminated with the conclusion that the sample demonstrates unacceptable acute toxicity.
- c. The toxicity tests specified above shall be conducted using a control (0% effluent) and one test concentration of 30% final effluent. These tests are referred to as "routine tests" and shall be conducted once every six (6) months beginning 60 days from the permit issue date for the duration of the permit, unless notified otherwise by the Department.
- d. Results from "routine" tests shall be reported according to EPA/600/4-90/027, Report Preparation (or the most current edition), and shall be submitted as an attachment to the discharge monitoring report. The results

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shall be entered on the DMR in the following manner: if less than 50% survival of test species occurs in any of the four separate grab sample tests, "<30%" shall be entered on the DMR for that species. If 50% or greater survival occurs in all four separate grab sample tests, ">30%" shall be entered.

e. If any such routine screening tests indicate that unacceptable toxicity (greater than 50% mortality of test organisms in 30% effluent) is found in any sample of effluent, the Permittee shall conduct three additional acute definitive toxicity tests using both species. For each additional test, the sample collection requirements and test acceptability criteria specified under a. and b. above must be met for the tests to be considered valid. The first test shall begin within two weeks of the end of the "routine" tests, and shall be conducted weekly thereafter until three additional valid tests are completed. The additional tests will be used to determine if the toxicity found in the "routine" test is still present. The Department shall be contacted for approval of the effluent dilutions to be used in the definitive tests.

f. Results from the definitive tests, required due to unacceptable acute toxicity in the "routine" tests, shall be submitted in a single report prepared according to EPA/600/4-90/027 (4th edition), Section 17, Report Preparation (or the most current edition) and submitted within 45 days of completion of the third additional, valid definitive test. Upon review of the definitive toxicity test results, test concentrations may be modified by the Department to improve the statistical confidence of the analyses. In this case, the Permittee shall be notified and will have 30 days to comply with such changes.

g. Should any valid definitive test indicate the characteristic of toxicity, the Permittee shall prepare a plan of study to identify the cause(s) or source(s) of toxicity of the reclaimed water and evaluate feasible methodologies to reduce or eliminate the toxicity. The plan may include a chemical analysis of the reclaimed water including priority pollutants (metals, volatile and nonvolatile organics) and nonpriority pollutant peaks, along with total and unionized ammonia, nitrate and nitrite nitrogen, TKN and total and ortho phosphorus.

h. The Permittee shall submit the plan of study to the Department for review and comments within 60 days of determination of acute toxicity by the valid definitive test (outlined in item e. above). The Permittee shall implement the agreed upon plan of study within 30 days of receipt of written Department approval. A detailed final report shall be submitted to the Department upon completion of the plan of study including conclusions and recommendations regarding the toxicity of the effluent and measures to reduce or eliminate it.

*[Rule 62-302.500(1)(d) and 62-4.244(3), FAC]*

8. Florida water quality criteria and standards shall not be violated as a result of the discharge. Compliance with any changes to these criteria or standards which may occur after the issuance date of this permit as a result of statutory changes or Department rule revisions shall be in accordance with General Condition 12 of this permit. *[Chapter 62-620.320(9) and 62-302.510(5), FAC]*
9. Field Testing, sample collection and preservation, laboratory testing, including quality control procedures, and all record keeping shall comply with Chapter 62-160, FAC. Compliance of reported results shall be in accordance with Rule 62-4.246, FAC. Each effluent parameter has an applicable method detection limit (MDL) and a practical quantitative limit (PQL) as follows:

ANALYTE METHOD	RECOMMENDED	MDL	TARGET PQL	EPA
Dissolved Oxygen	100.0		500.0	360.1 or 360.2
Total chlorine residual	10.0 200.0		10.0 200.0	330.1 or 330.5

Units are microgram per liter  
 Equivalent methods are subject to approval by the Department

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[62-4.246 FAC, 4-30-95]

10. No later than sixty (60) days following permit date of issuance, effluent discharged by the subject facility shall be sampled and tested for the following:
- Nitrite nitrogen (NO<sub>2</sub>-N) and nitrate nitrogen (NO<sub>3</sub>-N).
  - Total nitrogen.
  - Total Kjeldhal nitrogen.
  - Organic nitrogen.
  - Total ammonia.
  - Unionized ammonia (calculated)
  - temperature (average of sample time period)
  - Total phosphorus.
  - Orthophosphorus.

An 8-hour flow proportioned composite sample shall be taken at least once every quarter until further notice is received from the Department. Test results (showing parameters and corresponding concentrations in mg/L) shall be submitted to the Department with the discharge monitoring report corresponding to the month in which the samples were taken. [62-302.530(48), 8-8-94]

11. The Permittee shall initiate regular monitoring of the segment of the St. Johns River near the outfall for maintaining data on the impact of the discharge to the water quality of the surface water body. Monitoring shall be on a quarterly basis and shall coincide with the quarterly nutrient monitoring of the facility effluent discharge. The monitoring sites are described as follows:

- #1 approximately 300 feet upstream of the outfall and 130 feet from the eastern shoreline
- #2 approximately 300 feet downstream of the outfall and 130 feet from the eastern shoreline

The parameters to be measured shall include the following:

DO, pH, temperature, conductivity, salinity, Secchi Disk, CBOD<sub>5</sub>, NH<sub>3</sub>-N, TKN, NO<sub>2</sub>-N and NO<sub>3</sub>-N, TP, Ortho-Phosphorus, Chlorophyll A, tide stage, alkalinity, color, chloride

Metered parameters (DO, pH, temperature, conductivity, salinity) shall be sampled at the surface, mid-depth and at the bottom. Grab samples at mid depth for the other parameters is adequate. The results of instream monitoring shall be submitted to the Northeast District Office. [62-4.240(3)(c), 4-30-95]

12. The Permittee shall conduct a reconnaissance sediment sampling event to include up to six with a minimum of three transects located (1) along the outfall and (2 & 3) approximately 300 feet upstream and 300 feet downstream of the outfall for the purpose of establishing final sampling locations for permit monitoring. Sediment samples shall be collected with a Ponar grab and visual observations made of sediment texture and organic content, water depth, and current velocity. The final selected reference sampling locations shall be similar to the outfall location. The reconnaissance sampling event shall be conducted within 90 days of permit issuance and a report submitted to establish the final sampling locations submitted to the Department within 120 days of permit issuance.

Upon approval of the sampling locations by the Department, the Permittee shall initiate regular monitoring of the segment of the St. Johns River near the outfall for maintaining data on the impact of the discharge to the river sediments and associated benthic communities near the outfall to the surface water body. Monitoring shall be on a yearly basis and shall coincide with the 1st quarterly nutrient and stream monitoring events for the facility effluent discharge. The monitoring sites are described as follows:

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Transect #1

- #1 approximately 300 feet upstream of the outfall and 20 feet from the eastern shoreline
- #2 approximately 300 feet upstream of the outfall and 500 feet from the eastern shoreline

Transect #2

- #3 approximately 300 feet downstream of the outfall and 20 feet from the eastern shoreline
- #4 approximately 300 feet downstream of the outfall and 500 feet from the eastern shoreline

Three replicate sediment samples will be collected at each site noted above using a Ponar dredge and combined to form one composite sample. The sample shall be screened using a U.S. Standard No. 30 sieve and benthic macroinvertebrates shall be identified. The composite sample shall be analyzed for total solids, volatile solids and particle size distribution. An annual report of the analyses shall be submitted to the Department along with the 1st quarter nutrient and stream monitoring results. The laboratory analyses shall also include field notes describing the color, texture, or any other qualitative description of the sediments, and other pertinent information. The results of the benthic monitoring shall be submitted to the Northeast District Office. [62-302.530(11), 8-8-94]

13. The dissolved oxygen concentration within the toxicity mixing zone shall not average less than 4.0 mg/L and not be less than 1.5 mg/L for any single sample. [62-4.244(1)(j)1. and 62-4.244(3)(a), FAC, 4-30-95]

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**B. Final Surface Water Discharge Limits**

1. During the period beginning upon the completion and placing into service of the proposed wastewater facility expansion and lasting through expiration date of this permit, the permittee is authorized to discharge effluent from Outfall D001 to the St. Johns River. Such discharge shall be limited and monitored by the permittee as specified below:

[62-600, 6-8-93] [62-601, 5-31-93] [62-650, 11-27-89] [62-302, 8-8-94] [62-610.860, 4-2-90]

Parameter	Units	Max/Min	Effluent Limitations				Monitoring Requirements			Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	
Flow	mgd	Maximum	3.60	-	-	-	Continuous	Meter or Instrument	OUT-01	See I.B.4. & I.B.13.
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	20	25	40	60	Weekly	8-hour flow-composite	OUT-01	
Total Suspended Solids	mg/L	Maximum	20	30	45	60	Weekly	8-hour flow-composite	OUT-01	
Fecal Coliform Bacteria	See Permit Condition I. B.5.						Weekly	Grab	OUT-01	See I.B.12.
pH	std. units	Range	-	-	-	6.5 to 8.5	Continuous	Grab	OUT-01	See I.B.3.
Dissolved Oxygen	mg/l	Minimum	-	-	-	1.5	Daily, 7/week	Meter or Instrument	OUT-01	See I.B.8. & I.B.14.
Whole Effluent Toxicity	See Permit Condition I. B.6.									
Nutrient Monitoring	See Permit Condition I.B.9									
Stream Monitoring	See Permit Condition I.B.10									
Benthic Monitoring	See Permit Condition I.B.11									

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

Monitoring Location Site Number	Description of Monitoring Location
OUT-01	After final treatment prior to discharge to the St. Johns River.

3. Hourly measurement during the period of required operator attendance may be substituted for continuous measurement for pH. [Chapter 62-601, Figure 2, Footnote 1, 5-31-93]
4. A recording flowmeter and totalizer shall be utilized to measure flow. [62-601.200(17) and .500(6), 5-31-93]
5. The arithmetic mean of the monthly fecal coliform values collected during an annual period shall not exceed 200 per 100 mL of effluent sample. The geometric mean of the fecal coliform values for a minimum of 10 samples of effluent each collected on a separate day during a period of 30 consecutive days (monthly), shall not exceed 200 per 100 mL of sample. When more than 10 samples are taken, no more than 10 percent of the samples collected during a period of 30 consecutive days shall exceed 400 fecal coliform values per 100 mL of sample. Any one sample shall not exceed 800 fecal coliform values per 100 mL of sample. [62-600.440(4)(c), 6-8-93]
6. The Permittee shall initiate the series of tests described below beginning 60 days from the permit issue date to evaluate whole effluent toxicity of the discharge from outfall D001. All test species, procedures and quality assurance criteria used shall be in accordance with Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms, EPA/600/4-90/027 (4th edition), or the most current edition. A standard reference toxicant quality assurance test shall be conducted concurrently with each species used in the toxicity tests and the results submitted with the discharge monitoring report (DMR). Alternatively, if monthly QA/QC reference toxicant tests are conducted, these results must be submitted with the DMR.
- a. The Permittee shall conduct 96-hour acute static renewal screening toxicity tests using the Mysidopsis bahia (mysid shrimp) and the Menidia beryllina (inland silverside). All tests will be conducted on four separate grab samples collected at evenly spaced (6-hour) intervals over a 24-hour period and used in four separate tests in order to account for variations in effluent quality. The control water and effluent used will be adjusted to a salinity of 20 parts per thousand using artificial sea salts as described in EPA/600/4-90/027, Section 6 (or most current edition). In addition, for the inland silverside test, feeding and solution renewal shall be done at 48 hours with a portion of the original sample that has been refrigerated. Results of the four tests are not to be combined or averaged, but reported separately.
- b. If control mortality exceeds 10% for either species in any test, the test(s) for that species (including the control) shall be repeated. A test will be considered valid only if control mortality does not exceed 10% for either species. If, in any separate grab sample test, greater than 50% mortality of test organisms occurs in 30% effluent at or prior to the end of the test, and control mortality is less than 10% at that time, that test (including the control) shall be terminated with the conclusion that the sample demonstrates unacceptable acute toxicity.
- c. The toxicity tests specified above shall be conducted using a control (0% effluent) and one test concentration of 30% final effluent. These tests are referred to as "routine tests" and shall be conducted once every six (6) months beginning 60 days from the permit issue date for the duration of the permit, unless notified otherwise by the Department.
- d. Results from "routine" tests shall be reported according to EPA/600/4-90/027, Report Preparation (or the most current edition), and shall be submitted as an attachment to the discharge monitoring report. The results shall be entered on the DMR in the following manner: if less than 50% survival of test species occurs in any of

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the four separate grab sample tests, "<30%" shall be entered on the DMR for that species. If 50% or greater survival occurs in all four separate grab sample tests, ">30%" shall be entered.

e. If any such routine screening tests indicate that unacceptable toxicity (greater than 50% mortality of test organisms in 30% effluent) is found in any sample of effluent, the Permittee shall conduct three additional acute definitive toxicity tests using both species. For each additional test, the sample collection requirements and test acceptability criteria specified under a. and b. above must be met for the tests to be considered valid. The first test shall begin within two weeks of the end of the "routine" tests, and shall be conducted weekly thereafter until three additional valid tests are completed. The additional tests will be used to determine if the toxicity found in the "routine" test is still present. The Department shall be contacted for approval of the effluent dilutions to be used in the definitive tests.

f. Results from the definitive tests, required due to unacceptable acute toxicity in the "routine" tests, shall be submitted in a single report prepared according to EPA/600/4-90/027 (4th edition), Section 17, Report Preparation (or the most current edition) and submitted within 45 days of completion of the third additional, valid definitive test. Upon review of the definitive toxicity test results, test concentrations may be modified by the Department to improve the statistical confidence of the analyses. In this case, the Permittee shall be notified and will have 30 days to comply with such changes.

g. Should any valid definitive test indicate the characteristic of toxicity, the Permittee shall prepare a plan of study to identify the cause(s) or source(s) of toxicity of the reclaimed water and evaluate feasible methodologies to reduce or eliminate the toxicity. The plan may include a chemical analysis of the reclaimed water including priority pollutants (metals, volatile and nonvolatile organics) and nonpriority pollutant peaks, along with total and unionized ammonia, nitrate and nitrite nitrogen, TKN and total and ortho phosphorus.

h. The Permittee shall submit the plan of study to the Department for review and comments within 60 days of determination of acute toxicity by the valid definitive test (outlined in item e. above). The Permittee shall implement the agreed upon plan of study within 30 days of receipt of written Department approval. A detailed final report shall be submitted to the Department upon completion of the plan of study including conclusions and recommendations regarding the toxicity of the effluent and measures to reduce or eliminate it.

*[Rule 62-302.500(1)(d) and 62-4.244(3), FAC]*

7. Florida water quality criteria and standards shall not be violated as a result of the discharge. Compliance with any changes to these criteria or standards which may occur after the issuance date of this permit as a result of statutory changes or Department rule revisions shall be in accordance with General Condition 12 of this permit. *[Chapter 62-620.320(9) and 62-302.510(5), FAC]*
8. Field Testing, sample collection and preservation, laboratory testing, including quality control procedures, and all record keeping shall comply with Chapter 62-160, FAC. Compliance of reported results shall be in accordance with Rule 62-4.246, FAC. Each effluent parameter has an applicable method detection limit (MDL) and a practical quantitative limit (PQL) as follows:

ANALYTE METHOD	RECOMMENDED	MDL	TARGET PQL	EPA
Dissolved-Oxygen	100.0		500.0	360.1 or 360.2

Units are microgram per liter  
 Equivalent methods are subject to approval by the Department  
*[62-4.246 FAC, 4-30-95]*

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9. No later than sixty (60) days following permit date of issuance, effluent discharged by the subject facility shall be sampled and tested for the following:
- Nitrite nitrogen (NO<sub>2</sub>-N) and nitrate nitrogen (NO<sub>3</sub>-N).
  - Total nitrogen.
  - Total Kjeldhal nitrogen.
  - Organic nitrogen.
  - Total ammonia.
  - Unionized ammonia (calculated)
  - temperature (average of sample time period)
  - Total phosphorus.
  - Orthophosphorus.

An 8-hour flow proportioned composite sample shall be taken at least once every quarter until further notice is received from the Department. Test results (showing parameters and corresponding concentrations in mg/L) shall be submitted to the Department with the discharge monitoring report corresponding to the month in which the samples were taken. [62-302.530(48), 8-8-94]

10. The Permittee shall continue regular monitoring of the segment of the St. Johns River near the outfall for maintaining data on the impact of the discharge to the water quality of the surface water body. Monitoring shall be on a quarterly basis and shall coincide with the quarterly nutrient monitoring of the facility effluent discharge. The monitoring sites are described as follows:

- #1 approximately 300 feet upstream of the outfall and 130 feet from the eastern shoreline
- #2 approximately 300 feet downstream of the outfall and 130 feet from the eastern shoreline

The parameters to be measured shall include the following:

DO, pH, temperature, conductivity, salinity, Secchi Disk, CBOD<sub>5</sub>, NH<sub>3</sub>-N, TKN, NO<sub>2</sub>-N and NO<sub>3</sub>-N, TP, Ortho-Phosphorus, Chlorophyll A, tide stage, alkalinity, color, chloride

Metered parameters (DO, pH, temperature, conductivity, salinity) shall be sampled at the surface, mid-depth and at the bottom. Grab samples at mid depth for the other parameters is adequate. The results of the benthic monitoring shall be submitted to the Northeast District Office. [62-4.240(3)(c), 4-30-95]

11. The Permittee shall continue regular monitoring of the segment of the St. Johns River near the outfall for maintaining data on the impact of the discharge to the river sediments and associated benthic communities near the outfall to the surface water body. Monitoring shall be on a yearly basis and shall coincide with the 1st quarterly nutrient and stream monitoring events for the facility effluent discharge. The monitoring sites are described as follows:

Transect #1

- #1 approximately 300 feet upstream of the outfall and 20 feet from the eastern shoreline
- #2 approximately 300 feet upstream of the outfall and 500 feet from the eastern shoreline

Transect #2

- #3 approximately 300 feet downstream of the outfall and 20 feet from the eastern shoreline
- #4 approximately 300 feet downstream of the outfall and 500 feet from the eastern shoreline

Three replicate sediment samples will be collected at each site noted above using a Ponar dredge and combined to form one composite sample. The sample shall be screened using a U.S. Standard No. 30 sieve and benthic macroinvertebrates shall be identified. The composite sample shall be analyzed for total solids, volatile solids



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and particle size distribution. An annual report of the analyses shall be submitted to the Department along with the 1st quarter nutrient and stream monitoring results. The laboratory analyses shall also include field notes describing the color, texture, or any other qualitative description of the sediments, and other pertinent information. The results of the benthic monitoring shall be submitted to the Northeast District Office. [62-302.530(11), 8-8-94]

12. This facility utilizes an ultraviolet disinfection system . This UV system shall be monitored on a daily basis and the intensity and unit operation shall be verified. The operation and maintenance shall be performed on a regular basis in accordance with the manufacturer recommended factor of safety. Routine cleaning and bulb replacement practices shall be maintained. [ 62-600.440(4)(b), 6-8-93]
13. The discharge from the proposed facility shall be limited to 3.0 MGD AADF until such time as a Reuse Feasibility Study is submitted to the Department. The study shall be prepared in accordance with the Department's November 1991 Guidelines for the Preparation of Reuse Feasibility Studies.
14. The dissolved oxygen concentration within the toxicity mixing zone shall not average less than 4.0 mg/L and not be less than 1.5 mg/L for any single sample. [62-4.244(1)(j)1. and 62-4.244(3)(a), FAC, 4-30-95]

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**C. Other Limitations and Monitoring and Reporting Requirements**

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the treatment facility shall be limited and monitored by the permittee as specified below:

*[17-601.300(1), 5-31-93]*

Parameter	Units	Max/Min	Limitations				Monitoring Requirements				Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number		
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	Report	-	-	-	Weekly	8-hour composite	INF-01	See I.C.3	
Total Suspended Solids	mg/L	Maximum	Report	-	-	-	Weekly	8-hour composite	INF-01	See I.C.3	

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

Monitoring Location Site Number	Description of Monitoring Location
INF-01	Influent Sample prior to introduction of plant recycle flows.

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), 5-31-93]*
4. All flow measuring device(s) shall be calibrated at least annually. *[62-601.500(6) and 62-601.200(17), 5-31-93]*
5. Parameters which must be monitored as a result of a surface water discharge shall be analyzed using a sufficiently sensitive method in accordance with 40 CFR Part 136. *[62-620.610(18), 11-29-94]*
6. 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), 5-31-93]*
7. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department on a monthly basis a Discharge Monitoring Report (DMR), Form 62-620.910(10), for each outfall, discharge point, and reuse system specified in Item(s) I.A. and I.B. above. The DMR shall include the test results for the parameters required to be sampled on the attached DMR form. The DMR shall be submitted 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 Facilities Regulation Section, Mail Station 3551  
 Twin Towers Office Building  
 2600 Blair Stone Road  
 Tallahassee, Florida 32399-2400

*[62-620.610(18), 11-29-94][62-601.300(1),(2), and (3), 5-31-93]*

8. Unless specified otherwise in this permit, all reports and notifications 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  
 7825 Baymeadows Way, Suite B200  
 Jacksonville, Florida 32256-7577

Phone Number - (904) 448-4330  
 FAX Number - (904) 448-4366

**II. Residuals Management Requirements**

**Basic Management Requirements**

1. The method of residuals use or disposal by this facility is land application.
2. Land application of residuals shall be in accordance with the conditions of this permit and the requirements of Chapter 62-640, F.A.C. *[62-640, 3-1-91]*

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3. The domestic wastewater residuals for this facility are classified as stabilization Class B.
4. The wastewater treatment facility permittee shall be responsible for proper handling, use, and disposal of its residuals and will be held responsible for any disposal violations that occur unless the permittee can demonstrate that it has delivered residuals that meet the chemical criteria and appropriate stabilization requirements of this permit and that the disposer (e.g. hauler, contractor, or disposal/land application site owner) has legally agreed in writing to accept responsibility for proper disposal. [62-640.300(3), 3-1-91]
5. The permittee shall sample and analyze the residuals at least once every 3 months . All samples shall be representative and shall be taken after final treatment of the residuals but before use or disposal. Sampling and analysis shall be in accordance with the U.S. Environmental Protection Agency publication - POTW Sludge Sampling and Analysis Guidance Document, 1989. The following parameters shall be sampled and analyzed:

Parameter	Maximum Concentration	Maximum Cumulative Loading
Total Nitrogen	(Report only) % dry weight	Not applicable
Total Phosphorus	(Report only) % dry weight	Not applicable
Total Potassium	(Report only) % dry weight	Not applicable
Cadmium	100 mg/kg dry weight	4.4 pounds /acre
Copper	3000 mg/kg dry weight	125 pounds/acre
Lead	1500 mg/kg dry weight	500 pounds/acre
Nickel	500 mg/kg dry weight	125 pounds/acre
Zinc	10,000 mg/kg dry weight	250 pounds/acre
pH	(Report only) standard units	Not applicable
Total Solids	(Report only) %	Not applicable

[62-640.700(1)(a), (b), (e), and (f); (2); 3(e); and (4)(f) and 62-640.500(1)(d), 3-1-91]

6. Florida water quality criteria and standards shall not be violated as a result of land application of residuals. [62-640.700(3)(c), 3-1-91]

**Agricultural Sites**

8. Class B residuals shall not be used on unrestricted access areas. [62-640.600(6)(b), 3-1-91]
9. Class B residuals application shall be in accordance with the Agricultural Use Plan approved by the Department for this facility. [62-640.300(1), 3-1-91]

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10. Root crops, and fruits and vegetables which touch the soil and which are to be consumed raw shall not be grown on the application site for 18 months after the last application of Class B residuals. [62-640.600(6)(c), 3-1-91]
11. Fruits and vegetables which do not touch the soil and which are to be consumed raw shall not be harvested from the application site for 30 days following the last application of Class B residuals. Orchard tree crops, which do not come in contact with the residuals due to the application method, are exempted. This exemption does not apply to orchard tree crops which have fallen to the ground before harvesting. [62-640.600(6)(d), 3-1-91]
12. Pasture vegetation on the application site shall not be cut or used for grazing by livestock for 30 days following the last application of Class B residuals. [62-640.600(6)(e), 3-1-91]
13. The public shall be restricted from the application area for 12 months after the last application of Class B residuals. [62-640.600(6)(f), 3-1-91]
14. The wastewater treatment facility permittee shall apply for a minor permit revision on DEP Form 62-620.910(9) for new, modified, or expanded residuals land application sites. The facility's permit shall be revised to include the new or revised Agricultural Use Plan(s) prior to application of residuals to the new, modified, or expanded sites. The current Agricultural Use Plan identifies residuals landspreading on the following sites:

Site Name	Application Area (acres)	Site Location	
		City	County
Cope Farm	134.4	Jacksonville	Duval
M.G. Higgenbotham	700	Jacksonville	Duval
Eliot Kennedy	170	Jacksonville	Duval

[62-620.330, 11-29-94]

15. Annual residuals application rates shall not exceed the agronomic rates based on the nitrogen requirements of the site vegetation in accordance with the approved Agricultural Use Plan. [62-640.700(3)(d), 3-1-91]
16. Residuals shall be applied with techniques and equipment to assure uniform application over the site. [62-640.700(3)(n), 3-1-91]
17. The pH of the domestic wastewater residuals soil mixture shall be 6.5 or greater at the time domestic wastewater residuals are applied. At a minimum, testing shall be done annually. [62-640.700(3)(h), 3-1-91]
18. The permittee shall maintain records of application areas and application rates on DEP Form 62-640.900(3) and shall have these records available for inspection upon request by the Department or the appropriate Local Environmental Program. These records shall include:
  - a. Date of application of the residuals,
  - b. Location of the residuals application site,
  - c. Amount of residuals applied or delivered,
  - d. Identification of specific areas of the site where residuals were applied and acreage of that area,
  - e. Method of incorporation of residuals (if any),
  - f. Water table level at time of application, and
  - g. Concentration of nitrogen and heavy metals in the residuals, percent solids, and date of last analysis.

The permittee shall provide annual updates to the Agricultural Use Plan which shall include summaries of the total residuals, nitrogen, and heavy metals applied on an annual basis; and annual summaries of the cumulative metals applied. Updates to the Agricultural Use Plan and annual summaries, including copies of the wastewater residuals

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analysis for that period, shall be submitted to the Department's Northeast District Office by July 1st of each year. [62-640.700(3)(e) and (p), 3-1-91]

### III. Groundwater Monitoring Requirements - Not Applicable

### IV. Additional Reuse and Land Application Requirements - Not Applicable

### V. Operation and Maintenance Requirements

#### 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 61E12-41, F.A.C. In accordance with Chapter 62-699, F.A.C., this facility is a Category II, Class B facility and, at a minimum, operators with appropriate certification must be on the site as follows:

A Class C or higher operator 8 hours/day for 7 days/week. The lead operator must be a Class B operator, or higher.

The 8 hours/day attendance period is reduced from 16 hours/day because the on-site Supervisory Control and Data Acquisition (SCADA) system complies with the requirements of 62-699.311(3), FAC.

[62-699, 5-20-94] [62-620.630(3), 11-29-94][62-699.310, 5-20-92]

2. The lead operator shall be on duty for one full shift each duty day. A certified operator shall be on-site and in charge of each required shift and for periods of required staffing time when the lead operator is not on-site. A certified operator shall be on call during periods the plant is unattended. [62-699.311(10), (5), and (1), 5-20-92]

#### Capacity Analysis Report and Operation and Maintenance Performance Report Requirements

3. An updated capacity analysis report shall be submitted to the Department annually by July 1st of each year. The updated capacity analysis report shall be prepared in accordance with Rule 62-600.405, F.A.C. [62-600.405(5), 6-8-93]
4. 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), 6-8-93]

#### Recordkeeping Requirements

5. 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 and 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;
  - 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.;

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- g. A copy of the facility record drawings;
- h. Copies of the licenses of the current certified operators; and
- 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 certification 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; tests performed and samples taken; and major repairs made. 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.

[62-620.350,11-29-94][61E12-41.010(1)(e), 11-02-93]

**VI. Compliance Schedules and Self-imposed Improvement Schedules**

1. The following construction schedule for the construction of the proposed 0.6 MGD wastewater treatment facility expansion shall be followed, unless notification of a schedule revision is provided to the Department:

Implementation Step	Scheduled Completion Date
1. Start construction.	April 1996
3. Place the proposed WWTF expansion into operation.	February 1998

[62-620.450(3)(a), 11-29-94]

2. The following schedule of improvement(s) shall be followed unless notification of a schedule revision is provided to the Department:

Implementation Step	Scheduled Completion Date
1. Complete and submit a Reuse Feasibility Study prepared in accordance with the Department's November 1991 Guidelines	July 1, 1997

3. In accordance with Jacksonville Environmental Protection Board (EPB) Rule 3.409C.2., the Master Plan For Regional Sewerage Development for the Monterey WWTP Certificated Area of Service shall be updated no less than once every two years. The Master Plan shall be submitted to Jacksonville Regulatory and Environmental Services Department (RESD) Air and Water Quality Division (AWQD), 421 West Church Street, Suite 422, Jacksonville, Florida 32202-4111. The Master Plan shall address the requirements of EPB Rule 3.409C.3.

**VII. Industrial Pretreatment Program Requirements - Not Applicable**

**VIII. Other Specific Conditions**

- 1. Prior to placing the proposed 3.6 MGD WWTF into operation or any individual unit processes into operation, for any purpose other than testing for leaks and equipment operation, the permittee shall complete and submit to the Department DEP Form 62-620.910(12), Notification of Completion of Construction for Domestic Wastewater Facilities. [62-620.630(2), 11-29-94]
- 2. Within six months after a facility is placed in operation, the permittee shall provide written certification to the Department on Form 62-620.910(13) that record drawings pursuant to Chapter 62-600, F.A.C., and that an operation and maintenance manual pursuant to Chapters 62-600 and 62-610, F.A.C., as applicable, are available at the location specified on the form. [62-620.630(7), 11-29-94]

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3. If the permittee wishes to continue operation of this wastewater facility after the expiration date of this permit, the permittee shall submit an application for renewal, using Department Forms 62-620.910(1) and (2), no later than one-hundred and eighty days (180) prior to the expiration date of this permit. *[62-620.410(5), 11-26-94]*
4. The facilities shall comply with any conditions that the Secretary of the Army (United States Army Corps of Engineers) considers necessary to ensure that navigation and anchorage will not be substantially impaired. *[62-620.620(1)(g), 11-29-94]*
5. 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. *[62-600.410(8), 6-8-93]*
6. 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. *[62-604.130(3), 5-31-93]*
7. Collection/transmission system overflows shall be reported to the Department in accordance with Permit Condition IX. 20. *[62-604.550, 5-31-93] [62-620.610(20), 11-29-94]*
8. The acceptance, by the operating authority of a collection/transmission system or by the permittee of a treatment plant, of 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 treatment plant discharges having temperatures above 40°Cis prohibited.  
*[62-604.130(4), 5-31-93]*
9. The treatment facility shall be enclosed with a fence or otherwise provided with features to discourage the entry of animals and unauthorized persons. *[62-600.400(2)(b), 6-8-93]*
10. 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. *[62-7.540, 12-10-85]*
11. The permittee shall provide adequate 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



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- 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.

Adequate 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), 11-29-94]

#### 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), 11-29-94]
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), 11-29-94]
3. As provided in Subsection 403.087(6), 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), 11-29-94]
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), 11-29-94]
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), 11-29-94]
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), 11-29-94]
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), 11-29-94]
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), 11-29-94]
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:

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- 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), 11-29-94]*

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, Florida Statutes, or Rule 62-620.302, Florida Administrative Code. 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), 11-29-94]*
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), 11-29-94]*
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), 11-29-94]*
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), 11-29-94]*
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), 11-29-94]*
15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. *[62-620.610(15), 11-29-94]*
16. The permittee shall apply for a revision to the Department permit in accordance with Rules 62-620.300, 62-620.420 or 62-620.450, F.A.C., as applicable, at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.300 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), 11-29-94]*
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

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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), 11-29-94]

18. Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246, Chapters 62-160 and 62-601, 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).
- b. If the permittee monitors any contaminate 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. Any laboratory test required by this permit for domestic wastewater facilities shall be performed by a laboratory that has been certified by the Department of Health and Rehabilitative Services (DHRS) under Chapter 10D41, F.A.C., to perform the test. On-site tests for dissolved oxygen, pH, and total chlorine residual shall be performed by a laboratory certified to test for those parameters or under the direction of an operator certified under Chapter 61E12-41, F.A.C.
- e. Under Chapter 62-160, F.A.C., sample collection shall be performed by following the protocols outlined in "DER Standard Operating Procedures for Laboratory Operations and Sample Collection Activities" (DER-QA-001/92). Alternatively, sample collection may be performed by an organization who has an approved Comprehensive Quality Assurance Plan (CompQAP) on file with the Department. The CompQAP shall be approved for collection of samples from the required matrices and for the required tests.

[62-620.610(18), 11-29-94]

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), 11-29-94]

20. The permittee shall report to the Department 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,

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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. 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 shall waive the written report.

*[62-620.610(20), 11-29-94]*

21. The permittee shall report all instances of noncompliance not reported under Permit Conditions IX. 18. and 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), 11-29-94]*

22. Bypass Provisions.

- a. 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. b. of this permit.
- b. 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.
- c. 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. a. 1. through 3. of this permit.
- d. 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. a. through c. of this permit.

*[62-620.610(22), 11-29-94]*

23. Upset Provisions

- a. 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;

PERMITTEE:  
United Water Florida, Inc.  
Philip Heil, Vice President  
Monterey WWTP

PERMIT NUMBER: FL0023604  
ISSUANCE DATE: April 2, 1996  
EXPIRATION DATE: April 2, 2001  
APPLICATION No. : 267307

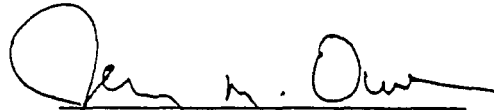
3. The permittee submitted notice of the upset as required in Permit Condition IX. 20. of this permit; and
  4. The permittee complied with any remedial measures required under Permit Condition IX. 5. of this permit.
- b. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.
- c. 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), 11-29-94]

Executed in Jacksonville, Florida.

BSW  
SK

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
\_\_\_\_\_  
Jerry M. Owen, P.E.  
Water Facilities Administrator

FILING AND ACKNOWLEDGEMENT  
FILED on this date, pursuant to S120.52, Florida  
Statutes, with the designated Department Clerk,  
of which is hereby acknowledged.  
Roxanne Smith 4/13/96  
Clerk Date

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

**WHEN COMPLETED MAIL THIS REPORT TO:** Wastewater Facilities Regulation Section, Mail Station 3551,  
Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400

**PERMITTEE NAME:** United Water Florida, Inc.  
**MAILING ADDRESS:** 1400 Millcoe Road  
Jacksonville, Florida 32225

**PERMIT NUMBER:** FL0023604(3116P01316)

**MONITORING PERIOD--From:**

**To:**

**LIMIT:** Final

**CLASS SIZE:** Major

**GROUP:** Domestic

**FACILITY ID:** FL0023604(3116P01316)

**GMS ID No.:** 3116X00022

**DISCHARGE POINT NUMBER:** D001

**WAFR Site No.:** 9124

**FACILITY:** Monterey WWTF  
**LOCATION:** 5802 Harris Street  
Jacksonville, Florida 32211

**PLANT SIZE/TREATMENT TYPE:** B/2

Please read instructions before completing this form.

Parameter		Quantity or Loading			Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum			
Flow (Annual Average)	Sample Measurement									
Storet No. 50053 Mon. Site No. OUT-01	Permit Requirement	3.00		MGD					Continuous	Meter or Instrument
CBOD5(Annual Average)	Sample Measurement									
Storet No. 80082 Mon. Site No. OUT-01	Permit Requirement					20			Weekly	8-hour flow Composite
CBOD5(30 day Average)	Sample Measurement									
Storet No. 80082 Mon. Site No. OUT-01	Permit Requirement					25	60		Weekly	8-hour flow Composite
Total Suspended Solids (Annual Average)	Sample Measurement									
Storet No. 00530 Mon. Site No. OUT-01	Permit Requirement					20			Weekly	8-hour flow Composite
Total Suspended Solids (30 day Average)	Sample Measurement									
Storet No. 00530 Mon. Site No. OUT-01	Permit Requirement					30	60		Weekly	8-hour flow Composite
CBOD5 (Influent)	Sample Measurement									
Storet No. 80082 Mon. Site No. INF-01	Permit Requirement					Report			Weekly	8-hour flow Composite
Total Suspended Solids (Influent)	Sample Measurement									
Storet No. 00530 Mon. Site No. INF-01	Permit Requirement					Report			Weekly	8-hour flow Composite

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT (Type or Print)	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO. ( )	DATE (YY/MM/DD)
---	--	----------------------	-----------------

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

**DAILY SAMPLE RESULTS - PART B**

Facility ID:

Month/Year:

Three-month Average Daily Flow :  
Daily Flow % of Permitted Capacity:

Days of the Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30/31
Flow (MGD)																														
Chlorine Residual after Contact (mg/L as Cl <sub>2</sub> )																														
Chlorine Residual after Dechlorination (mg/L as Cl <sub>2</sub> )																														
CBOD <sub>5</sub> Influent (mg/L as O <sub>2</sub> )																														
TSS Influent (mg/L)																														
CBOD <sub>5</sub> Effluent (mg/L as O <sub>2</sub> )																														
TSS Effluent (mg/L)																														
pH Effluent (standard units)																														
Fecal Coliform (#/100ML)																														
Dissolved Oxygen (mg/L as O <sub>2</sub> )																														

PLANT STAFFING: Day Shift Operator  
Evening Shift Operator  
Night Shift Operator  
Lead Operator

Class: Certificate No.:  
Class: Certificate No.:  
Class: Certificate No.:  
Class: Certificate No.:

Name:  
Name:  
Name:  
Name:

Type of Effluent Disposal or Reclaimed Water Reuse:  
\*Attach additional sheets if necessary to list all certified operators.

**INSTRUCTIONS FOR MONITORING REPORT**

**PART A - Discharge Monitoring Report**

One report shall be completed and submitted for each discharge point, outfall, or testing site listed in the permit. Use additional sheets if necessary. Mail to Department of Environmental Protection at the address shown on the first page of report.

**Permittee Name/Address:** Complete the name as shown on the face of the permit. Complete the mailing address. Place a note beside the mailing address if the address has changed within the past month.

**Facility/Location:** Complete the name of the facility and the address or location of the facility.

**Permit Number:** This is the number of the permit issued to the permittee which contains the monitoring requirements in this report.

**Monitoring Period:** This is the period that the data on this report represents.

**Limit:** This is blank if the data represents interim limits on a facility under construction. If the data represents final limits achieved after construction, the word FINAL will be here.

**Class Size/Group:** The facility classification is either major or minor and the group is either industrial or domestic.

**Facility ID:** This is the identification number of the facility which was assigned by the Department at the time the facility was constructed.

**Discharge Point Number:** This is the number in the permit assigned to the outfall, discharge point, or test site from which this data was collected. Complete one of these reports for each outfall or discharge point from your facility.

**Plant size/Treatment type:** If this facility is a domestic wastewater treatment facility, enter a one digit and one letter code to indicate the type of treatment and the plant size. First record the number from the chart below which represents the type of treatment provided by the facility. Then record the letter that indicates the permitted capacity (plant size) as shown on the chart below.

	Type of Treatment	Plant Size (mgd)			
		A	B	C	D
1	Activated Sludge, Attached Growth, or Combined Treatment systems that include nutrient removal processes (Nitrification alone is not considered nutrient removal.)	≥3.0	≥0.5 but <3.0	≥0.002 but <0.5	...
2	Activated Sludge or Combined Treatment systems that do not include removal processes	≥5.0	≥1.0 but <5.0	≥0.002 but <1.0	...
3	Activated Sludge operated in the extended aeration mode and oxidation ditches	≥8.0	≥2.0 but <8.0	≥0.025 but <2.0	≥0.002 but <0.025
4	Attached Growth Treatment systems (trickling filters or RBCs) that do not include nutrient removal processes	≥10.0	≥3.0 but <10.0	≥0.025 but <3.0	≥0.002 but <0.025

**Parameter:** This is the variable or substance which must be monitored.

**Sample Measurement:** The data which was collected and analyzed.

**Permit Requirement:** The limit from the permit for that parameter and measurement.

**Quantity or Loading:** The amount or mass of the parameter discharged during the reporting period in Average quantity discharged during the reporting period after adding each day of discharge, Maximum quantity discharged on the day with the highest amount, and the Unit of measurement (lbs, g, tons, etc.)

**Quality or Concentration:** The concentration of the parameter discharged during the reporting period in Minimum concentration during the reporting period, Average of all the measurements for the parameter during the reporting period, Maximum or highest concentration discharged during the reporting period, and the Unit of measurement (mg/L, ug/L, etc.)

**No. Ex.:** The number of sample measurements during the sampling period that exceeded the maximum (minimum or 7-day average, as appropriate) permit requirement for each parameter. If none, enter zero.

**Frequency of Analysis:** The number of times the measurement is required to be made by the permit and the number of times the measurement was made.

**Sample Type:** The type of sample (grab, composite, continuous) required to be taken by the permit and the type that was taken.

**Certificate, 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. Date when the report is signed.

**Comment and Explanation:** Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation.

**PART B - DAILY SAMPLE RESULTS**

Complete one sheet for each outfall, discharge point, or test site where daily sampling is required by the permit. Record the results of daily monitoring for the parameters required to be sampled daily by your permit. Record the data in the units indicated. If there are no fecal coliforms detected, enter ND in the row labeled "Fecal coliform." Use the blank rows as needed.

List the name, certificate number, and class of all state certified operators. Use additional sheets as necessary.



**PART B - DAILY SAMPLE RESULTS contd.**

Enter the type of effluent disposal or reclaimed water reuse (surface water discharge, ocean outfall, slow rate land application-public access, slow rate land application-restricted public access, rapid rate land application, absorption field, underground injection).

**Facility ID:** This is the identification number assigned by the Department for the facility.

**Month/Year:** This is the period during which the data on this report was collected and analyzed.

**Rainfall Information:** Rainfall gauging station requires entry of the name and location of the station. Source of Climatological (normal rainfall) data is the source of the information required for Cumulative rainfall for the average rainfall year which is the amount of rain, in inches, which falls during an average rainfall year from January through the month for which this part contains data. 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 Part contains data.

**Date:** Enter the date on which the discharge occurred.

**Duration of Discharge:** Enter the number of hours, to the nearest 0.1 of an hour (0.1 = 6 min.) during each day of discharge that reclaimed water was actually discharged to surface waters.

**Gallons Discharged:** Enter the quantity in millions of gallons of reclaimed water discharged during the period shown in Duration of Discharge. Show the units as millions of gallons (mg), accurate to the nearest 0.01.

**Average Discharge Flow Rate:** Divide Gallons Discharged by Duration of Discharge. Record in million gallons per day (MGD).

**Average Upstream Flow Rate:** Enter the average flow rate in the receiving stream upstream from the point of discharge for the period shown in Duration 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.

**Stream Dilution Factor:** Enter the stream dilution ratio accurate to the nearest 0.1. To calculate the factor, divide the Average Upstream Flow Rate by the Average Discharge Flow Rate.

**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.

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

Please read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION			No. Ex.	Frequency of Analysis	Sample Type	
		Average	Maximum	Units	Minimum	Average	Maximum				Units
Fecal Coliform Bacteria (Annual Average)	Sample Measurement										
Storet No. 31616 Mon. Site No. OUT-01	Permit Requirement					200	800	No/100 mL		Weekly	Grab
pH	Sample Measurement										
Storet No. 00406 Mon. Site No. OUT-01	Permit Requirement				6.0		8.5	Std. Units		Continuous	Grab
Total Residual Chlorine (For Disinfection)	Sample Measurement										
Storet No. 50060 Mon. Site No. EFA-01	Permit Requirement				0.5			mg/L		Continuous	Meter or Instrument
Total Residual Chlorine (For Dechlorination)	Sample Measurement										
Storet No. 50060 Mon. Site No. OUT-01	Permit Requirement						0.01	mg/L		Daily, 7/week	Meter or Instrument
Dissolved Oxygen	Sample Measurement										
Storet No. 00300 Mon. Site No. OUT-01	Permit Requirement				1.5			mg/L		Daily, 7/week	Meter or Instrument
	Sample Measurement										
Storet No. Mon. Site No.	Permit Requirement										
	Sample Measurement										
Storet No. Mon. Site No.	Permit Requirement										

Please read instructions before completing this form.

Parameter		Quantity or Loading			Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum			
Total Ammonia Nitrogen, as N Storet No. 00610 Mon. Site No. OUT-01	Sample Measurement									
	Permit Requirement						Report	mg/L		Quarterly
Nitrate-Nitrite Nitrogen, as N Storet No. 00630 Mon. Site No. OUT-01	Sample Measurement									
	Permit Requirement						Report	mg/L		Quarterly
Unionized Ammonia, as N Storet No. 00619 Mon. Site No. OUT-01	Sample Measurement									
	Permit Requirement						Report	mg/L		Quarterly
Temperature (Degrees C) Storet No. 00010 Mon. Site No. OUT-01	Sample Measurement									
	Permit Requirement						Report	mg/L		Quarterly
Organic Nitrogen, as N Storet No. 000605 Mon. Site No. OUT-01	Sample Measurement									
	Permit Requirement						Report	mg/L		Quarterly
Total Phosphorous, as P Storet No. 000665 Mon. Site No. OUT-01	Sample Measurement									
	Permit Requirement						Report	mg/L		Quarterly
Ortho Phosphorous, as P Storet No. 70507 Mon. Site No. OUT-01	Sample Measurement									
	Permit Requirement						Report	mg/L		Quarterly
Total Nitrogen Storet No. 000600 Mon. Site No. OUT-01	Sample Measurement									
	Permit Requirement						Report	mg/L		Quarterly
Total Kjehdal Nitrogen, as N Storet No. 00630 Mon. Site No. OUT-01	Sample Measurement									
	Permit Requirement						Report	mg/L		Quarterly

Please read instructions before completing this form.

Parameter		Quantity or Loading			Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum			
96-hour Acute Static Renewal - Mysidopsis Storet No. TAN3E Mon. Site No. OUT-01	Sample Measurement									
	Permit Requirement						30% Effluent	LC <sub>50</sub>		Every six months <u>4 Grab/6 hrs</u> 24 hrs
96-hour Acute Static Renewal - Pimephales promelas Storet No. TAN6C Mon. Site No. OUT-01	Sample Measurement									
	Permit Requirement						30% Effluent	LC <sub>50</sub>		Every six months <u>4 Grab/6 hrs</u> 24 hrs

FACT SHEET  
FOR  
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DOMESTIC WASTEWATER FACILITY PERMIT

Permit Number: FL0023604

Application Date: March 15, 1995

Additional Information: August 16, 1995

Permit Writer: David J. Bolam, P.E.

Public Notice Date: February 26, 1996

1. SYNOPSIS OF APPLICATION

a. Name and Address of Applicant

Philip Heil, Vice President  
United Water Florida  
1400 Millcoe Road  
Jacksonville, Florida 32225

For:

Monterey WWTF  
5802 Harris Street  
Jacksonville, Florida 32211

b. Type of Facility

Domestic Wastewater Treatment Plant  
Privately-owned treatment works  
Standard Industrial Classification Code: 4952

c. Facility Capacity

Existing Design Capacity:	3.00 MGD AADF
Proposed Increase in Design Capacity:	0.60 MGD AADF
Proposed Total Design Capacity:	3.60 MGD AADF

Existing Permitted Capacity:	3.00 MGD AADF
Proposed Increase in Permitted Capacity:	0.60 MGD AADF
Proposed Total Permitted Capacity:	3.60 MGD AADF

Facility permitted capacity can not be increased until completion and submittal of a Reuse Feasibility in accordance with Specific Condition I.B.13 of the permit.

d. Description of Facilities

To operate a 3.00 MGD AADF conventional activated sludge wastewater treatment plant with communiton, dual 1.5 MGD AADF conventional activated sludge unit processes operated in parallel with the final disinfected and dechlorinated effluent discharged to the St.

Johns River. Wastewater treatment plant residuals are stabilized by aerobic digestion, thickened and temporarily stored on site prior to hauling to a land application site.

Proposed improvements to the facility include the construction of a 3.6 MGD AADF sequencing batch reactor (SBR) comprised of four cells with a total volume of 3.71 Mgal, an 0.19 Mgal influent/surge tank, a U.V. (ultraviolet) disinfection system and a 7,600 gpm effluent pumping station. The existing wastewater treatment facility will be decommissioned and one of the existing 1.5 MGD AADF activated sludge plants will be converted to an aerobic sludge digester. Stabilized residuals from the facility will continue to be land applied.

e. Applicant's Effluent Disposal and Reuse Location(s)

Surface Water Discharge:

Receiving Waters:

Outfall D001:  
St. Johns River (Class III - Marine)  
Latitude: 30° 19' 45" N  
Longitude: 81° 36' 10" W

See Attachment 1 for a map showing the location of the receiving waters and discharge location.

f. Description of Effluent Discharges (as reported by applicant)

Outfall Serial Number D001:

Annual Average Daily Flow (MGD): 2.986

pH Range (Standard Units): 6.4 to 7.6

Pollutants which are present in significant quantities or which are subject to effluent or reclaimed water limitations are as follows:

Parameters	Reported Data		
	Annual Avg.	Lowest Monthly Avg.	Highest Monthly Avg.
CBOD <sub>5</sub> , mg/L	2.3	1.3	3.4
TSS, mg/L	4.3	2.0	8.0
Fecal Coliform, #/100 ml	--	--	69
TRC (for dechlorination), mg/L	0.01	0.01	0.01

2. PROPOSED EFFLUENT LIMITATIONS

Outfall Serial Number D001:

Parameters	Effluent or Reclaimed Water Limitations				
	Maximum/ Minimum	Annual Average	Monthly Average	Weekly Average	Single Sample
Flow, MGD (Interim)	Maximum	3.00			
Flow, MGD (Final)	Maximum	3.60		--	--
CBOD <sub>5</sub> , mg/L	Maximum	20	25	40	60
TSS, mg/L	Maximum	20	30	45	60
Fecal Coliform, #/100 ml	Maximum	<200	--	--	<800
TRC (for disinfection), mg/L	Minimum	--	--	--	0.5
TRC (for dechlorination), mg/L	Maximum	--	--	--	0.01
pH, std. units	Range	6.0 to 8.5			
Dissolved Oxygen, mg/L	Minimum	--	--	--	4.0
Whole Effluent Toxicity	See discussion below.				

The Permittee shall conduct 96-hour acute static renewal screening toxicity tests using the *Mysidopsis bahia* (mysid shrimp) and the *Menidia beryllina* (inland silverside). The toxicity tests shall be conducted using a control (0% effluent) and one test concentration of 30% final effluent. If control mortality exceeds 10% for either species in any test, the test(s) for that species (including the control) shall be repeated. A test will be considered valid only if control mortality does not exceed 10% for either species. If, in any separate grab sample test, greater than 50% mortality of test organisms occurs in 30% effluent at or prior to the end of the test, and control mortality is less than 10% at that time, that test (including the control) shall be terminated with the conclusion that the sample demonstrates unacceptable acute toxicity.

Due to the proposed 0.6 MGD increase in effluent discharge, the Department required the Permittee to perform additional modeling to ensure 100:1 dilution could still be achieved. The flow was modeled using the EPA-approved UDHKDEN model at 3.0 MGD and 3.6 MGD. The lateral distances from the 700 foot long diffuser necessary to achieve the 100:1 dilution were reported to be 4.8 meters and 5.3 meters, respectfully. The former mixing zone was established based on the results of modeling the outfall diffuser using the EPA-approved UPLUME model. The results of this modeling showed a lateral distance from port to achieve the 100:1 dilution to be 3.8 meters at 3.0 MGD flowrate. Therefore, a mixing zone of 7.6 meters was granted due to full flow reversal twice per day in this portion of the river in construction permit DC16-188943. The difference in distance to achieve the 100:1 dilution is the result of using different models.

The conclusions of the Department's 5th year Biological Assessment Report dated January 1995 reported no organic priority pollutants in the effluent and a sample of 100% effluent was not toxic to either *Ceriodaphnia dubia* or *Cyprinella leedsii*. The report also noted that the effluent did not appear to cause additional nutrient enrichment of the receiving waters and nutrient concentrations at the reference site were equal to or slightly higher than both test sites; therefore, no nutrient limitations were included in the permit.

3. BASIS FOR EFFLUENT AND RECLAIMED WATER LIMITS AND MONITORING REQUIREMENTS (INCLUDING INFLUENT MONITORING REQUIREMENTS)

See the table below for the rationale for the Parts I.A, B, & C provisions.

Outfall D001:

Parameter		Basis for Limit/Monitoring Requirement
Flow	Annual ADF	62-600.400(3)(b) FAC
CBOD <sub>5</sub>	Annual Average	62-600.420(1)(a) & .740(1)(b)1.a. FAC
	Monthly Average	62-620.625(5) FAC & 40 CFR 133.102(a)(4)(i)
	Weekly Average	62-620.625(5) FAC & 40 CFR 133.102(a)(4)(i)
	Single Sample Max.	62-600.740(1)(b)1.d. FAC
TSS	Annual Average	62-600.420(1)(a) & .740(1)(b)1.a. FAC
	Monthly Average	62-600.740(1)(b)1.b. FAC
	Weekly Average	62-600.740(1)(b)1.c. FAC
	Single Sample Max.	62-600.740(1)(b)1.d. FAC
Fecal Coliform	Annual Average	62-600.440(4)(c)1. FAC
	Monthly Geo. Mean	62-600.440(4)(c)2. FAC
	Monthly Percentile	62-600.440(4)(c)3. FAC
	Single Sample Max.	62-600.440(4)(c)4. FAC
pH	Minimum and Maximum	62-302.530 FAC
TRC (for disinfection) <sup>1</sup>	Minimum	62-600.440(4)(b) FAC
TRC (for dechlorination) <sup>1</sup>	Single Sample Max.	62-600.440(2) FAC & 62-302.530(19) FAC
Acute Whole Effluent Toxicity	Single Sample Max.	62-302.530(62) & 62-4.244(3), FAC
Dissolved Oxygen	Minimum	62-302.530(31) FAC
Nutrients	Report	62-302.530(48)(a) & (b) FAC
Monitoring Frequency and Sample Type	All Parameters	62-601 FAC & 62-699 FAC and/or BPJ of permit writer
Sampling Location	All Parameters	62-601 FAC and/or BPJ of permit writer



The following were used as the basis of the permit limitations/conditions:

A. FAC refers to various portions of the Florida Administrative Code.

The effective dates of FAC Rule Chapters cited in the table are as follows:

<u>Chapter</u>	<u>Effective Date</u>
62-4	02-02-94
62-302	02-27-95
62-600	06-08-93
62-601	05-31-93
62-620	11-29-94
62-699	05-20-92

B. CFR refers to various portions of the Code of Federal Regulations, Title 40

C. BPJ refers to Best Professional Judgment

1. Disinfection and dechlorination limitations are only applicable to the interim (existing) plant.

Other Limitations and Monitoring Requirements:

Parameter		Basis for Limit/Monitoring Requirement
CBOD <sub>5</sub>	Monitor & Report	62-601.300(1) FAC
TSS	Monitor & Report	62-601.300(1) FAC

The following were used as the basis of the permit conditions:

A. FAC refers to various portions of the Florida Administrative Code

The effective dates of FAC Rule Chapters cited in the table are as follows:

<u>Chapter</u>	<u>Effective Date</u>
62-600	06-08-93
62-601	05-31-93

4. RESIDUALS MANAGEMENT

Class of residuals stabilization to be provided: Class B

Proposed method of residuals use or disposal: Land application

The current Agricultural Use Plan for this facility identifies residuals land application on the following sites:

Site Name	Application Area (Acres)	Site Location	
		City	County
Higgenbottom	700	Jacksonville	Duval
Eliot Kennedy	170	Jacksonville	Duval
Cope Farm	134.4	Jacksonville	Duval

See the table below for the rationale for the Part II.A. residuals limits and monitoring requirements.

Parameter		Basis for Limit/Monitoring Requirement
Total Nitrogen, % dry weight	Report	62-640.700(1)(b) FAC
Total Phosphorus, % dry weight	Report	62-640.700(1)(b) FAC
Total Potassium, % dry weight	Report	62-640.700(1)(b) FAC
Cadmium, mg/kg dry weight	Maximum	62-640.700(2) FAC
Copper, mg/kg dry weight	Maximum	62-640.700(2) FAC
Lead, mg/kg dry weight	Maximum	62-640.700(2) FAC
Nickel, mg/kg dry weight	Maximum	62-640.700(2) FAC
Zinc, mg/kg dry weight	Maximum	62-640.700(2) FAC
pH, std. units	Report	62-640.700(1)(b) FAC
Total Solids, %	Report	62-640.700(1)(b) FAC
Nitrogen, lb/ac/yr	Maximum	62-640.700(3)(d) FAC
Cadmium, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Copper, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Lead, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Nickel, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Zinc, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Monitoring Frequency	All Parameters	62-640.700(1)(a) FAC

The following was used as the basis of the permit limitations/conditions:

A. FAC refers to various portions of the Florida Administrative Code

The effective date of the FAC Rule Chapter cited in the table is as follows:

<u>Chapter</u>	<u>Effective Date</u>
62-640	03-01-91

5. INDUSTRIAL PRETREATMENT REQUIREMENTS

There are no industrial pretreatment requirements for this facility.

6. REQUESTED VARIANCES OR ALTERNATIVES TO REQUIRED STANDARDS

There were no requests for variances or alternatives to the required standards.

7. COMPLIANCE SCHEDULE AND EFFECTIVE DATE OF PROPOSED EFFLUENT OR RECLAIMED WATER LIMITATIONS

Due to the proximity of the existing WWTP to an elementary school, residential neighborhood and shopping center, the Department is requiring UWF to install chlorine gas leak detection devices at this facility by January 15, 1995. This is a standard referenced in Ten State Standards which the Department has adopted by reference.

The permit requires the Permittee to prepare and submit a reuse feasibility study in accordance with the State's guidelines. The Permittee requested the preparation of the reuse feasibility be included as a condition of the permit in order to provide additional time to conduct the study for the entire utility which includes 7 major wastewater treatment plants in Duval County. It is expected the reuse feasibility study will take approximately 18 months to complete. For more discussion of this, see item 9. below.

8. DISCUSSION OF PREVIOUS PERMIT EFFLUENT LIMITATIONS

The current wastewater facility permit (DO16-170728) expired on May 15, 1995 and contained the following effluent or reclaimed water limits:

Parameters	Effluent or Reclaimed Water Limitations				
	Maximum/Minimum	Annual Average	Monthly Average	Weekly Average	Single Sample
Flow, MGD	Maximum	3.00	--	--	--
CBOD <sub>5</sub> , mg/L	Maximum	20	30	45	60
TSS, mg/L	Maximum	20	30	45	60
Fecal Coliform, #/100 ml	Maximum	<200	--	--	<800
TRC (for disinfection), mg/L	Minimum	--	--	--	0.05
TRC (for dechlorination), mg/L	Maximum	--	--	--	0.01
pH, std. units	Range	6.0 to 8.5			
Whole Effluent Toxicity	See discussion below.				

Whole effluent toxicity testing requirements in permit DO16-170728 were acute static tests conducted on grab samples of 0% and 100% effluent. This testing was modified following the construction of a new effluent outfall and diffuser under construction permit DC16-188943 issued on March 5, 1991. The new high rate diffuser provided for a 100:1 dilution of the effluent with the receiving stream and a mixing zone of 7.6 meters wide along the axis of the diffuser was granted. In accordance with Rule 62-4.244(3) the Permittee was permitted to conduct acute static renewal toxicity tests on grab samples of 0% and 30% effluent. The toxicity tests in the construction permit were matched in the NPDES permit modification issued by EPA on July 23, 1993.

9. NEW OR EXPANDED DISCHARGES TO SURFACE WATERS; ANTIDEGRADATION REQUIREMENTS

The draft permit is for a proposed 0.6 MGD AADF wastewater treatment facility expansion to increase the permitted capacity to 3.6 MGD AADF. The Permittee provided documentation in support of the application and the proposed project which addresses all of the State's antidegradation requirements except reuse feasibility. The permit requires the Permittee to prepare and submit a reuse feasibility study prepared in accordance with the State's guidelines. The Permittee requested the preparation of the reuse feasibility be included as a condition of the permit in order to provide additional time to conduct the study for the entire utility which includes 7 major wastewater treatment plants in Duval County. It is expected the reuse feasibility study will take approximately 18 months to complete.

The current wastewater treatment facility is in immediate need of expansion to handle the increasing flow from the facility's service area. Current average daily flows are 2.986 MGD as noted above. The Monterey WWTP is a regional system and is part of the County's continuing wastewater regionalization plan. Construction is currently underway to connect three smaller surface water discharging package wastewater treatment facilities to the Monterey WWTP by the end of 1995. The proposed expansion will basically replace the existing wastewater treatment facility which will be decommissioned due to age and deterioration. One of the existing tanks will be converted to an aerobic digester.

The antidegradation report submitted by the Permittee on July 14, 1995 adequately demonstrates that the proposed expansion not result in exceedances of Class III Marine criteria in the St. Johns River; that existing water uses will be maintained in the river; and that the proposed expanded discharge is in the public interest. Should the results of the reuse feasibility study indicate that reuse is technically and economically feasible for the Monterey facility, additional improvements to the wastewater treatment facility will be required to treat the effluent to meet reclaimed water standards. This treatment often includes filtration and high level disinfection. Therefore, the construction work proposed for the WWTP expansion should not impact the technical or economic evaluation of the study inasmuch as the replacement of the wastewater treatment facility is required whether or not reuse is determined to be feasible.

10. EFFECTS OF SURFACE WATER DISCHARGE ON THREATENED OR ENDANGERED SPECIES

The Department does not anticipate adverse impacts on any threatened or endangered species as a result of permit renewal

11. DEP CONTACT

Additional information concerning the permit may be obtained during normal business hours from:

Florida Department of Environmental Protection  
Northeast District Office  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7577

Phone Number - (904) 448-4330  
FAX Number - (904) 448-4366

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 11.

13. FINAL SCHEDULE FOR PERMIT ISSUANCE

Draft permit to Applicant and EPA .....September 15, 1995  
Public Comment Period ..... Beginning: February 26, 1996  
Ending: March 26, 1996  
Notice of Agency Action ..... April 2, 1996  
Final Department Action..... April 2, 1996

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

a. Public Comment Period

The Notice of Draft Permit was advertised for Public Comment in the Financial News & Daily Record on February 26, 1996. Comments were received from the City of Jacksonville's Water Quality Division of the Regulatory and Environmental Services Department, and are included as Specific Condition VI.3 of the permit. No other comments were received and no public meeting was requested.

b. 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 the 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.



# Department of Environmental Protection

cc: ~~GREENE~~ ~~MARK~~  
cc: ~~SCOTT~~  
Don't.

file - permits (OSP)

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

## NOTICE OF PERMIT REVISION

CERTIFIED MAIL - RETURN RECEIPT

February 13, 1997

Mr. Munipalli Sambamurthi, Vice President, Manager  
United Water Florida, Inc.  
1400 Millcoe Road  
Jacksonville, Florida 32225

RECEIVED

FEB 18 1997

UNITED WATER FLORIDA

Duval County -- Domestic Wastewater  
Monterey WWTF

Enclosed is a revision to Permit Number FL0023604 to operate a 3.00 MGD conventional activated sludge treatment plant and to construct and operate a new 3.6 MGD sequencing batch reactor (SBR) wastewater treatment facility with effluent disposal to the St. John's River issued under section(s) 403.087 of the Florida Statutes.

The revision includes a modification of the Discharge Monitoring Report (DMR). The modified DMR will replace the form issued with the permit on April 2, 1996. The DMR is being modified to reflect changes in Department computer codes. There are no changes to effluent limits or monitoring requirements. Attach the modified pages of the permit as they become a part thereof. All other portions of the permit remain in effect and are fully enforceable.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative hearing in accordance with sections 120.569 and 120.57 of the Florida Statutes.

The petition must contain the information set forth below and must be filed (received) in the Department's Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any other person must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. A petitioner must 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 within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes, or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-5.207 of the Florida Administrative Code.

A petition must contain the following information:

- (a) The name, address, and telephone number of each petitioner; the Department's permit identification number and the county in which the subject matter or activity is located;

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

Mr. Munipalli Sambamurthi, Vice President, Manager  
Monterey WWTF  
page two

- (b) a statement of how and when each petitioner received notice of the Department's action;
- (c) a statement of how each petitioner's substantial interests are affected by the department's action;
- (d) a statement of the material facts disputed by the petitioner, if any;
- (e) a statement of facts that the petitioner contends warrant reversal or modification of the Department's action;
- (f) a statement of which rules or statutes the petitioner contends require reversal or modification of the Department's action; and
- (g) and a statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take.

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 of intent. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation under section 120.573 of the Florida Statutes is not available for this proceeding.

This action is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above. Upon the timely filing of a petition this order will not be effective until further order of the Department.

Any party to the order has the right to seek judicial review of the order under section 120.68 of the Florida Statutes, by the filing of a notice of appeal under rule 9.110 of the 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 the final order is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

*PM*  
STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

*for*  
*Jerry M. Owen*  
\_\_\_\_\_  
Jerry M. Owen, P.E.  
Water Facilities Administrator

JMO/JR

cc: Darryl Joyner, FDEP, Tallahassee

#### CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT REVISION and all copies were mailed by certified mail before the close of business on February 14, 1997 to the listed persons.

FILING AND ACKNOWLEDGEMENT  
FILED on this date, pursuant to §120.52, Florida  
Statutes, with the designated Department Clerk,  
of which is hereby acknowledged.  
*Roxanne Smith* 2/14/97  
Clerk Date



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

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

PERMITTEE NAME: United Water Florida, Inc.  
 MAILING ADDRESS: Mr. Munipalli Sambamurthi, Vice President, Manager  
 1400 Millcoe Road  
 Jacksonville, Florida 32225

PERMIT NUMBER: FL0023604  
 MONITORING PERIOD From: \_\_\_\_\_  
 LIMIT: Final  
 CLASS SIZE: Major

To: \_\_\_\_\_  
 REPORT: \_\_\_\_\_  
 GROUP: Monthly  
 Domestic

FACILITY: Monterey WWTF  
 LOCATION: 5802 Harris Street  
 Jacksonville, FL 32211

FACILITY ID: FL0023604  
 GMS ID NO.: 3116P01316  
 DISCHARGE POINT NUMBER: D001  
 PLANT SIZE/TREATMENT TYPE: IIB

WAFR SITE NO.: 9124  
 GMS TEST SITE NO.: 3116X00022

COUNTY: Duval

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement							
STORET No. 50050 Y Mon. Site No. OUT-1	Permit Measurement	3.20 (Ann. Avg.)	mgd				Continuous	Meter/ Instrument
Flow	Sample Measurement							
STORET No. 50050 I Mon. Site No. OUT-1	Permit Measurement	Report (Mo. Avg.)	mgd				Continuous	Meter or Instrument
CBOD5	Sample Measurement							
STORET No. 80082 Y Mon. Site No. OUT-1	Permit Measurement			20.0 (Ann. Avg.)	mg/L		Weekly	8-hour FPC
CBOD5	Sample Measurement							
STORET No. 80082 I Mon. Site No. OUT-1	Permit Measurement			25.0 (Mo. Avg.)	mg/L		Weekly	8-hour FPC
TSS	Sample Measurement							
STORET No. 00530 Y Mon. Site No. OUT-1	Permit Measurement			20.0 (Ann. Avg.)	mg/L		Weekly	8-hour FPC
TSS	Sample Measurement							
STORET No. 00530 I Mon. Site No. OUT-1	Permit Measurement			30.0 (Mo. Avg.)	mg/L		Weekly	8-hour
pH	Sample Measurement							
STORET No. 00406 I Mon. Site No. OUT-1	Permit Measurement			6.5 (Min.)	S.U.		Continuous	Grab

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (YY/MM/DD)

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

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY NAME: Monterey WWTF

PERMIT NUMBER: FL0023604

DISCHARGE POINT NUMBER: D001

WAFR SITE No. 9124

Parameter	Measurement	Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Fecal Coliform Bacteria	Sample Measurement							
STORET No. 31616 Mon. Site No. OUI-1	Permit Measurement			200 (Ari. Avg.)			Weekly	Grab
Fecal Coliform Bacteria	Sample Measurement							
STORET No. 31616 Mon. Site No. OUI-1	Permit Measurement			Report (Mo. Ciso Mean)			Weekly	Grab
Dissolved Oxygen	Sample Measurement							
STORET No. 00300 Mon. Site No. OUI-1	Permit Measurement			1.5 (Min.)			Daily, 7/week	Meter or Instrument
CIBOD5	Sample Measurement							
STORET No. 80082 Mon. Site No. INF-1	Permit Measurement			Report (Mo. Avg.?)			Weekly	8-hour FFC
TSS	Sample Measurement							
STORET No. 00530 Mon. Site No. INF-1	Permit Measurement			Report (Mo. Avg.?)			Weekly	8-hour FFC

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

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

PERMITTEE NAME: United Water Florida, Inc.  
 MAILING ADDRESS: Mr. Munipalli Sambamurthi, Vice President, Manager  
 1400 Millecote Road  
 Jacksonville, Florida 32225

PERMIT NUMBER: FL0023604  
 MONITORING PERIOD From: \_\_\_\_\_  
 LIMIT: Final  
 CLASS SIZE: Major

To: \_\_\_\_\_  
 REPORT: Toxicity  
 GROUP: Domestic

FACILITY: Monterey WWTF  
 LOCATION: 5802 Harris Street  
 Jacksonville, FL 32211

FACILITY ID: FL0023604  
 GMS ID NO.: 3116P01316  
 DISCHARGE POINT NUMBER: D001  
 PLANT SIZE/TREATMENT TYPE: IIB

WAFR SITE NO.: 9124  
 GMS TEST SITE NO.: 3116X00022

COUNTY: Duval

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
LC50 STATRE 96HOUR ACUTE MYSID.BAHIA (ROUTINE)	Sample Measurement							
STORET No. TAN3E P Mon. Site No. OUT-1	Permit Measurement			30 MIN	Percent		Semi-Annual	4 grabs/ 24 hours
LC50 STATRE 96HOUR ACUTE MYSID.BAHIA (ADDITIONAL)	Sample Measurement							
STORET No. TAN3E Q Mon. Site No. OUT-1	Permit Measurement			30 MIN	Percent		Semi-Annual	4 grabs/ 24 hours
LC50 STATRE 96HOUR ACUTE MYSID.BAHIA (ADDITIONAL)	Sample Measurement							
STORET No. TAN3E R Mon. Site No. OUT-1	Permit Measurement			30 MIN	Percent		Semi-Annual	4 grabs/ 24 hours
LC50 STATRE 96HOUR ACUTE MYSID.BAHIA (ADDITIONAL)	Sample Measurement							
STORET No. TAN3E S Mon. Site No. OUT-1	Permit Measurement			30 MIN	Percent		Semi-Annual	4 grabs/ 24 hours
LC50 STATRE 96HOUR ACUTE M.BERYLLINA (ROUTINE)	Sample Measurement							
STORET No. TAN3B P Mon. Site No. OUT-1	Permit Measurement			30 MIN	Percent		Semi-Annual	4 grabs/ 24 hours
LC50 STATRE 96HOUR ACUTE M.BERYLLINA (ADDITIONAL)	Sample Measurement							
STORET No. TAN3B Q Mon. Site No. OUT-1	Permit Measurement			30 MIN	Percent		Semi-Annual	4 grabs/ 24 hours
LC50 STATRE 96HOUR ACUTE M.BERYLLINA (ADDITIONAL)	Sample Measurement							
STORET No. TAN3B R Mon. Site No. OUT-1	Permit Measurement			30 MIN	Percent		Semi-Annual	4 grabs/ 24 hours
LC50 STATRE 96HOUR ACUTE M.BERYLLINA (ADDITIONAL)	Sample Measurement							
STORET No. TAN3B S Mon. Site No. OUT-1	Permit Measurement			30 MIN	Percent		Semi-Annual	4 grabs/ 24 hours

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

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

PERMITTEE NAME: United Water Florida, Inc.  
 MAILING ADDRESS: Mr. Muniipalli Sambamurthi, Vice President, Manager  
 1400 Millcoe Road  
 Jacksonville, Florida 32225

PERMIT NUMBER: FL0023604  
 MONITORING PERIOD From: \_\_\_\_\_  
 LIMIT: Final  
 CLASS SIZE: Major

To: \_\_\_\_\_  
 REPORT: Quarterly  
 GROUP: Domestic

FACILITY: Monterey WWTF  
 LOCATION: 5802 Harris Street  
 Jacksonville, FL 32211

FACILITY ID: FL0023604  
 GMS ID NO.: 3116P01316  
 DISCHARGE POINT NUMBER: D001  
 PLANT SIZE/TREATMENT TYPE: IIB

WAFR SITE NO.: 9124  
 GMS TEST SITE NO.: 3116X00022

COUNTY: Duval

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
NITROGEN, TOTAL AS N	Sample Measurement							
STORET No. 00600 1 Mon. Site No. OUF-1	Permit Measurement			Report (Max)	mg/L		Once/quarter	8-hour FPC
ORGANIC NITROGEN, TOTAL AS N	Sample Measurement							
STORET No. 00605 1 Mon. Site No. OUF-1	Permit Measurement			Report (Max)	mg/L		Once/quarter	8-hour FPC
NITROGEN, NITRITE+NITRATE AS N	Sample Measurement							
STORET No. 00630 1 Mon. Site No. OUF-1	Permit Measurement			Report (Max)	mg/L		Once/quarter	8-hour FPC
AMMONIA, TOTAL AS N	Sample Measurement							
STORET No. 00610 1 Mon. Site No. OUF-1	Permit Measurement			Report (Max)	mg/L		Once/quarter	8-hour FPC
UNIONIZED AMMONIA AS N	Sample Measurement							
STORET No. 00612 1 Mon. Site No. OUF-1	Permit Measurement			Report (Max)	mg/L		Once/quarter	8-hour FPC
PHOSPHOROUS, TOTAL AS P	Sample Measurement							
STORET No. 00665 1 Mon. Site No. OUF-1	Permit Measurement			Report (Max)	mg/L		Once/quarter	8-hour FPC
PHOSPHOROUS, ORTHO- AS P	Sample Measurement							
STORET No. 70507 1 Mon. Site No. OUF-1	Permit Measurement			Report (Max)	mg/L		Once/quarter	8-hour FPC
NITROGEN, TOTAL KJELDAHL	Sample Measurement							
STORET No. 00625 1 Mon. Site No. OUF-1	Permit Measurement			Report (Max)	mg/L		Once/quarter	8-hour FPC

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

FACILITY NAME: Monterey WWTF

PERMIT NUMBER: FL0023604

DISCHARGE POINT NUMBER: D001

WAFR SITE No.:9124

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
TEMPERATURE DEG C	Sample Measurement							
STORET No. 00010 1 Mon. Site No. OUT.1	Permit Measurement			Report (Quarter Avg.)	DEG C		Once/quarter	8-hour FPC

DAILY SAMPLE RESULTS - PART B

Facility ID:  
Month/Year:

Days of the Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Flow (MGD)																														
Chlorine Residual after Contact																														
Chlorine Residual after Dechlorination																														
CBOD5 Influent (mg/l)																														
TSS Influent (mg/l)																														
CBOD5 Effluent (mg/l)																														
TSS Effluent (mg/l)																														
pH Effluent																														
TKN Effluent (mg/l)																														
NH3 - N Effluent (mg/l)																														
Nitrate Effluent (mg/l)																														
Total P Effluent (mg/l)																														
Fecal Coliform (#.100ml)																														

Plan 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: \_\_\_\_\_

Type of Effluent Disposal or Reclaimed Water Reuse: \_\_\_\_\_  
 Limited Wed Weather Discharge Activated: Yes \_\_\_ No \_\_\_ Not Applicable \_\_\_ If yes, cumulative days of wet weather discharge: \_\_\_\_\_

\*Attach additional sheets necessary to list all certified operators necessary for required operations.



# Department of Environmental Protection

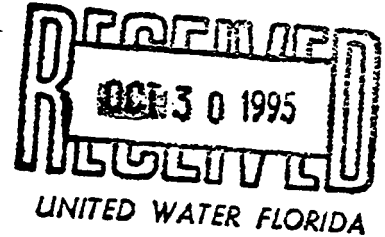
ORIGINAL - PERMIT FILE  
SAM  
CORSON  
STEVE  
COPY TO OPERATIONS  
CC: DON HANCOCK 11/24  
Virginia B. Wetherell  
Secretary

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Handwritten note: 400 pages, Mr. Heil on permit Unit

## NOTICE OF PERMIT



### CERTIFIED - RETURN RECEIPT

October 25, 1995

Mr. Philip Heil,  
Vice President  
United Water Florida  
1400 Millcoe Road  
Jacksonville, Florida 32225

Facility: Ortega Hills WWTP  
Permit/Facility I.D.: FL0025828  
Application No.: 270241  
County: Duval

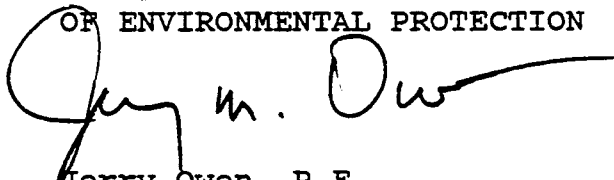
Dear Mr. Heil:

Enclosed is Permit Number FL0025828 to operate the subject wastewater treatment facility, issued pursuant to Section(s) 403, Florida Statutes.

Any party to this Order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, 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 this Notice is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



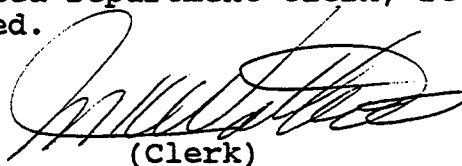
Jerry Owen, P.E.  
Water Facilities Administrator

CERTIFICATE OF SERVICE

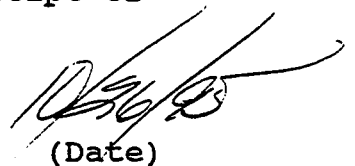
The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of business on 10-26-95 to the listed persons.

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to s. 120.52(11), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.



(Clerk)



(Date)

BPW  
JM

Copies furnished to:

- RESD
- Office of General Counsel
- Elsa Potts, P.E.
- Mitchell Griffin, P.E.





# Department of Environmental Protection

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

## STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT

**PERMITTEE:**

United Water Florida  
1400 Millcoie Road  
Jacksonville, Florida 32225

**PERMIT/ FACILITY I.D. #:** FL0025828  
**ISSUANCE DATE:** October 25, 1995  
**EXPIRATION DATE:** October 25, 2000  
**APPLICATION NO. :** 270241

**RESPONSIBLE AUTHORITY:**

Mr. Philip Heil, Vice President  
(904) 721-4600

**FACILITY:**

Ortega Hills Wastewater Facility  
5033 Greenway Drive  
Ortega Hills Subdivision

Latitude: 30° 12' 50 " N Longitude: 81° 42' 36 " W , Duval County Minor Facility

This permit is issued under the provisions of Chapter 403, Florida Statutes, and applicable rules of the Florida Administrative Code and constitutes authorization to discharge to waters of the state under the National Pollutant Discharge Elimination System. The above named permittee is hereby authorized to operate the facilities shown on the application and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

**TREATMENT FACILITIES:**

A 0.220 MGD permitted capacity contact stabilization (optional complete mix operation mode) wastewater treatment facility with influent screening, clarification, chlorine disinfection, sulfur dioxide dechlorination, post aeration with discharge to surface waters. The residuals are aerobically digested and hauled to a land application site with:

**EFFLUENT DISPOSAL:**

**Surface Water Discharge:** An existing 0.220 MGD permitted capacity annual average daily flow contact stabilization (optional complete mix operation mode) wastewater treatment plant with the permitted discharge pumped through 2,700 linear feet of force main to the Ortega River, a Class III water, at the outfall designated as D001. The outfall line is a 6 inch pipe, that discharges at a depth of approximately 3 feet and the point of discharge is located approximately at latitude 30° 12' 50 " N, longitude 81° 42' 36 " W.

**IN ACCORDANCE WITH:** The application received May 1, 1995 and the limitations, monitoring requirements and other conditions set forth in the pages 1 through 18 of this permit.

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I. A. continued

Annual Average	Units	Max/Min	Effluent Limitations				Monitoring Requirements			Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	
TKN	mg/L	Maximum	8.8	8.8	13.2	17.6	Every two weeks	8 hour, flow proportioned composite	D001	See Item I.A.7
Dissolved Oxygen	mg/L	Minimum	--	--	--	7.0	Daily	Grab or instrument	D001	
NH3-N Total	mg/L	Report	--	--	--	--	Every two weeks	8 hour, flow proportioned composite	D001	
Temperature	o F	Report	--	--	--	--	Every two weeks	Grab at time of sample collection	D001	
Whole Effluent Toxicity	See Permit Condition I. A.10						--	--	D001	
Nutrient Monitoring	See Permit Condition I. A.12						--	--	D001	

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

Monitoring Location Site Number	Description of Monitoring Location
I001	Influent, prior to biological treatment
D001	Effluent, after final treatment and prior to discharge to the receiving water

3. The three month average daily flow to Outfall D001 shall not exceed 0.220 MGD

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12. The facility shall perform an 8 hour flow-proportioned composite sample of the final effluent, from outfall D001, for the following nutrient parameters on a quarterly basis:

Total Nitrogen, Organic nitrogen, Total phosphorous, ortho phosphorous

The sample shall be taken at the same time as a normal sampling event, as defined for TKN in I.A.1 above. The results for each quarter sampling are due to be received at the Jacksonville DEP domestic waste section office by the following date for the duration of this permit:

First quarter report	no later than	April	28
Second quarter report	no later than	July	28
Third quarter report	no later than	October	28
Fourth quarter report	no later than	January	28

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

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the treatment facility shall be limited and monitored by the permittee as specified below:

[17-601.300(1), 5-31-93]

Parameter	Units	Max/Min	Limitations				Monitoring Requirements				Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number		
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	-	-	-	-	-	Every two weeks	8 hour, flow-proportioned composite	I001	See Item I.B.3	
Total Suspended Solids	mg/L	-	-	-	-	-	Every two weeks	8 hour, flow-proportioned composite	I001	See Item I.B.3	

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6. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department on a monthly basis a Discharge Monitoring Report (DMR), Form 62-620.910(10), for each outfall, discharge point specified in Item(s) I.A and I.B above. The DMR shall include the test results for the parameters required to be sampled on the attached DMR form. The DMR shall be submitted 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 Facilities Regulation Section, Mail Station 3551  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

*[62-620.610(18), 11-29-94][62-601.300(1), (2), and (3), 5-31-93]*

7. Unless specified otherwise in this permit, all reports and notifications 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  
7825 Baymeadows Way, Suite 200 B  
Jacksonville, Florida 32256

Phone Number - (904) 448-4330  
FAX Number - (904) 448-4366

8. The Department reserves the right to require the implementation of an ambient surface water monitoring program. A plan of study could be required to be submitted to the Department to provide surface water quality monitoring at upstream and downstream locations. The monitoring program would be coordinated with the Department as a part of water quality based effluent limitations as referenced in Department Rule 62-650.500(5)(a) FAC.

## II. RESIDUALS MANAGEMENT REQUIREMENTS

### Basic Management Requirements

1. The method of residuals disposal by this facility by land application .
2. The domestic wastewater residuals for this facility are classified as stabilization Class B.
3. Land application of residuals shall be in accordance with the conditions of this permit and the requirements of Chapter 62-640, F.A.C. *[62-640, 3-1-91]*
4. The wastewater treatment facility permittee shall be responsible for proper handling, use, and disposal of its residuals and will be held responsible for any disposal violations that occur unless the permittee can demonstrate that it has delivered residuals that meet the chemical criteria and appropriate stabilization requirements of this permit and that the disposer (e.g. hauler, contractor, or disposal/land application site owner) has legally agreed in writing to accept responsibility for proper disposal. *[62-640.300(3), 3-1-91]*

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10. Pasture vegetation on the application site shall not be cut or used for grazing by livestock for 30 days following the last application of Class B residuals. *[62-640.600(6)(e), 3-1-91]*
11. The public shall be restricted from the application area for 12 months after the last application of Class B residuals. *[62-640.600(6)(f), 3-1-91]*
12. The wastewater treatment facility permittee shall notify the Department's Jacksonville District Office by letter of any modifications or expansions of the approved residuals land application sites. The notice shall be submitted prior to such expansion or modification. Expansions include additional site locations for the permittee's residuals. The letter shall include a site location map and shall state how the modified or expanded residuals land application site will be operated in accordance with all requirements of Chapter 62-640, F.A.C. A new or revised Agricultural Use Plan shall be submitted to the Department's Jacksonville District Office with the annual update required by Rule 62-640.500(1)(f), F.A.C. The current Agricultural Use Plan identifies residuals land spreading on:  
  
1,792 acres of the Maguire Timber site located in near SR16 and SR 16A, in western St. Johns County, Florida. *[62-640.300(2), 3-1-91]*
13. Annual residuals application rates shall not exceed the agronomic rates based on the nitrogen requirements of the site vegetation in accordance with the approved Agricultural Use Plan. *[62-640.700(3)(d), 3-1-91]*
14. Residuals shall be applied with techniques and equipment to assure uniform application over the site. *[62-640.700(3)(n), 3-1-91]*
15. The pH of the domestic wastewater residuals soil mixture shall be 6.5 or greater at the time domestic wastewater residuals are applied. At a minimum, testing shall be done annually. *[62-640.700(3)(h), 3-1-91]*
16. The permittee shall maintain records of application areas and application rates on DEP Form 62-640.900(3) and shall have these records available for inspection upon request by the Department or the appropriate Local Environmental Program. These records shall include:
  - a. Date of application of the residuals,
  - b. Location of the residuals application site,
  - c. Amount of residuals applied or delivered,
  - d. Identification of specific areas of the site where residuals were applied and acreage of that area,
  - e. Method of incorporation of residuals (if any),
  - f. Water table level at time of application, and
  - g. Concentration of nitrogen and heavy metals in the residuals, percent solids, and date of last analysis.

The permittee shall provide annual updates to the Agricultural Use Plan as required by Permit Condition II.12, summaries of the total residuals, nitrogen, and heavy metals applied on an annual basis; and annual summaries of the cumulative metals applied. Updates to the Agricultural Use Plan and annual summaries, including copies of the wastewater residuals analysis for that period, shall be submitted to the Department's Jacksonville District Office by October 1st of each year. *[62-640.700(3)(e) and (p), 3-1-91]*

### III. GROUNDWATER MONITORING REQUIREMENTS (Not Applicable)

PERMITTEE:  
United Water Florida

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- 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;
- 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 the facility record drawings;
- h. Copies of the licenses of the current certified operators; and
- 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 certification 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; tests performed and samples taken; and major repairs made. 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. [62-620.350, 11-29-94][61E12-41.010(1)(e), 11-02-93]

#### VI SELF-IMPOSED IMPROVEMENT SCHEDULES

- 1. In accordance with the engineering report received May 3, 1995, and the additional information received on June 27, 1995, submitted as part of the permit application for this facility, and as prepared by CH2M Hill, Inc., this facility can be operated in the contact/stabilization mode or the complete mix mode. [62-600.735(1), 6-8-93]
- 2. A tentative agreement between United Water Florida and the Ortega Utility Company calls for the diversion of all flows to the Ortega Utility wastewater treatment facilities. All construction associated with this diversion shall require, as a minimum, the submittal of a collection/transmission permit application to the Department and may require permit applications to other agencies. The existing facility shall be properly and safely abandoned. The Department shall be kept informed of the progress of this schedule. The following proposed construction schedule for the modifications to phase-out and eliminate the existing facilities shall be followed, unless notification of a schedule revision is provided to the Department:

Implementation Step	Scheduled Completion Date
1. Preliminary Plans Complete.	December 31, 1995
2. Final Plans and Specifications Complete.	May 30, 1996
3. Begin construction.	August 30, 1996
4. End Construction .	July 30, 1997
5. Begin Diversion of Flows to Regional Plant .	August 30, 1997
6. Operational Level - System flows fully diverted.	September 30, 1997

If the permittee decides to maintain, modify or expand the facility, the Department shall be promptly notified and a permit application for renewal or a major modification must be submitted along with the appropriate fee to the Department.

[62-620.450(3)(a), 11-29-94]

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United Water Florida

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9. The permittee shall provide adequate notice to the Department of the following:
- 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 this chapter if it were directly discharging those pollutants; and
  - 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.

Adequate 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), 11-29-94*

10. Jacksonville Environmental Protection Board Requirements:

This facility may be subject to certain local ordinances. The Permittee shall contact the Water Quality Division, City of Jacksonville, 421 West Church Street, Suite 412, Jacksonville, Florida 32202-4111, concerning the requirements of Jacksonville Environmental Protection Board (EPB) Rules. .

## IX. GENERAL CONDITIONS

- 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), 11-29-94]*
- 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), 11-29-94]*
- As provided in Subsection 403.087(6), 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), 11-29-94]*
- 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), 11-29-94]*

PERMITTEE:  
United Water Florida

PERMIT/FACILITY I.D. # . -L0025828  
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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), 11-29-94]*
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), 11-29-94]*
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), 11-29-94]*
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), 11-29-94]*
15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. *[62-620.610(15), 11-29-94]*
16. The permittee shall apply for a revision to the Department permit in accordance with Rules 62-620.300, 62-620.420 or 62-620.450, F.A.C., as applicable, at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.300 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), 11-29-94]*
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), 11-29-94]*



PERMITTEE:  
United Water Florida

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4. Any unauthorized discharge to surface or ground waters.
  - b. 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 shall waive the written report. *[62-620.610(20), 11-29-94]*
21. The permittee shall report all instances of noncompliance not reported under Permit Conditions IX. 18. and 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), 11-29-94]*
22. Bypass Provisions.
- a. 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. b. of this permit.
  - b. 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.
  - c. 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. a. 1. through 3. of this permit.
  - d. 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. a. through c. of this permit. *[62-620.610(22), 11-29-94]*

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

MAIL TO: Wastewater Facilities Regulation Section, Mail Station 3551, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME:  
MAILING ADDRESS:

Philip Heil, V.P.,  
United Water Florida  
1400 Millcoe Road  
Jacksonville, Florida 32225

PERMIT NUMBER: FL0025828  
MONITORING PERIOD--From:

To:

LIMIT: Final  
CLASS SIZE:  
FACILITY ID: FL0025828, (3116P00334, 3116X10687)  
DISCHARGE POINT NUMBER: D001  
PLANT SIZE/TREATMENT TYPE: 1C

GROUP: Domestic

FACILITY:  
LOCATION:

Ortega Hills WWTP  
5033 Greenway Drive, Jacksonville

Please read instructions before completing this form.

Parameter		Quantity or Loading			Quality or Concentration				No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
FLOW (050053)	Sample Measurement										
	Permit Requirement	0.220		MGD						DAILY	FLOWMETER
CARBONACEOUS BIOLOGICAL OXYGEN DEMAND (5 day)	Sample Measurement										
	Permit Requirement	Report	5.67	lbs/day						Every two weeks	8 hour, flow proportioned composite
CBOD5 (Annual Average) (080082)	Sample Measurement										
	Permit Requirement					3.2		mg/L		Every two weeks	8 hour, flow proportioned composite
CBOD5 (30 Day Average)	Sample Measurement										
	Permit Requirement					4.0	8.0	mg/L		Every two weeks	8 hour, flow proportioned composite
TOTAL SUSPENDED SOLIDS (900163)	Sample Measurement										
	Permit Requirement	Report	28.36	lbs/day						Every two weeks	8 hour, flow proportioned composite
TSS (Annual Average) (000530)	Sample Measurement										
	Permit Requirement					20		mg/L		Every two weeks	8 hour, flow proportioned composite
TSS (30 Day Average)	Sample Measurement										
	Permit Requirement					30	60	mg/L		Every two weeks	8 hour, flow proportioned composite
DISSOLVED OXYGEN (000300)	Sample Measurement										
	Permit Requirement				7.0			mg/L		Every two weeks	8 hour, flow proportioned composite

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT (Type or Print)	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO.	DATE (YY/MM/DD)
		( )	

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

# DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

ADDITIONAL SHEET 1A

PERMITTEE NAME: Philip Heil, V.P.,  
 MAILING ADDRESS: United Water Florida  
 1400 Millcoe Road  
 Jacksonville, Florida 32225  
 FACILITY: Ortega Hills WWTP  
 LOCATION: 5033 Greenway Drive, Jacksonville

PERMIT NUMBER: FL0025828  
 MONITORING PERIOD--From: To:  
 LIMIT: Final  
 CLASS SIZE: Minor  
 FACILITY ID: FL0025828, (3116P00334, 3116X10687)  
 DISCHARGE POINT NUMBER: D001  
 PLANT SIZE/TREATMENT TYPE: 1C  
 GROUP: Domestic

Please read instructions before completing this form.

Parameter		Quantity or Loading			Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum			
TOTAL CHLORINE RESIDUAL (For Disinfection) (900243)	Sample Measurement									
	Permit Requirement				0.5			mg/L	DAILY	GRAB
CBOD5 INFLUENT	Sample Measurement									
	Permit Requirement				Report			mg/L	Every two weeks	8 hour, flow proportioned composite
TSS INFLUENT	Sample Measurement									
	Permit Requirement				Report			mg/L	Every two weeks	8 hour, flow proportioned composite
FECAL COLIFORM BACTERIA (031616)	Sample Measurement									
	Permit Requirement					200	800	per 100 mL	Every two weeks	GRAB
pH (900241, 900242)	Sample Measurement									
	Permit Requirement				6.5		8.5	Standard Units	Daily	GRAB
TOTAL CHLORINE RESIDUAL (After Dechlorination) (900244)	Sample Measurement									
	Permit Requirement				0.01			mg/L	Every two weeks	GRAB
TOTAL KJELDAHL NITROGEN (as N) (900177)	Sample Measurement									
	Permit Requirement	Report	12.48	lbs/day					Every two weeks	8 hour, flow proportioned composite

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT (Type or Print)	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO. ( )	DATE (YY/MM/DD)
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COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

ADDITIONAL SHEET 1B

PERMITTEE NAME: Phillip Hell  
 MAILING ADDRESS: United Water Florida  
 1400 Millcoo Road  
 Jacksonville, Florida 32225  
 FACILITY: Ortega Hills WWTP  
 LOCATION: 5033 Greenway Drive

PERMIT NUMBER: FL0025828  
 MONITORING PERIOD--From: To:  
 LIMIT: Final  
 CLASS SIZE: Minor  
 FACILITY ID: FL0025828, (3116P00034, 3116x10687)  
 DISCHARGE POINT NUMBER: D001  
 PLANT SIZE/TREATMENT TYPE: 1C

GROUP: Domestic

Please read instructions before completing this form.

Parameter		Quantity or Loading			Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum			
TOTAL KJELDAHL NITROGEN (Annual Average) (000625)	Sample Measurement									
	Permit Requirement					8.8		mg/L		Every Two Weeks 8 hour, flow proportioned composite
TOTAL KJELDAHL NITROGEN (30 Day Average)	Sample Measurement									
	Permit Requirement					8.8	17.6	mg/L		Every Two Weeks 8 hour, flow proportioned composite
TEMPERATURE (Degrees F) (000011)	Sample Measurement									
	Permit Requirement				Report			Degrees		Every Three Months Grab
TOTAL NITROGEN (000600)	Sample Measurement									
	Permit Requirement				Report			mg/L		Every Three Months 8 hour, flow proportioned composite
TOTAL AMMONIA NITROGEN (000610)	Sample Measurement									
	Permit Requirement				Report			mg/L		Every Three Months 8 hour, flow proportioned composite
ORGANIC NITROGEN (000605)	Sample Measurement									
	Permit Requirement				Report			mg/L		Every Three Months 8 hour, flow proportioned composite
ORTHO PHOSPHOROUS (070507)	Sample Measurement									
	Permit Requirement				Report			mg/L		Every Three Months 8 hour, flow proportioned composite
TOTAL PHOSPHOROUS (000665)	Sample Measurement									
	Permit Requirement				Report			mg/L		Every Three Months 8 hour, flow proportioned composite

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT (Type or Print)	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO. ( )	DATE (YY/MM/DD)
---	--	----------------------	-----------------

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

**DAILY SAMPLE RESULTS - PART B**

Facility ID: FL0025828

Three-month Average Daily Flow: \_

Month/Year:

Daily Flow % of Permitted Capacity:

Days of the Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30/31
Flow (MGD)																														
Chlorine Residual after Contact (mg/L as Cl <sub>2</sub> )																														
Chlorine Residual after Dechlorination (mg/L as Cl <sub>2</sub> )																														
CBOD <sub>5</sub> Influent (mg/L as O <sub>2</sub> )																														
TSS Influent (mg/L)																														
CBOD <sub>5</sub> Effluent (mg/L as O <sub>2</sub> )																														
CBOD <sub>5</sub> Effluent (lbs/day)																														
pH Effluent (standard units)																														
Fecal Coliform (#/100ML)																														
TSS Effluent (mg/L)																														
TSS Effluent (lbs/day)																														
TKN Effluent (mg/L)																														
TKN Effluent (lbs/day)																														
Dissolved Oxygen (mg/L)																														
Total Ammonia (mg/L as N)																														
Temperature (o F)																														
Carbonaceous UOD																														
Nitrogenous UOD																														
Ultimate Oxygen Demand, UOD																														

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:

Type of Effluent Disposal or Reclaimed Water Reuse:  
 Limited Wet Weather Discharge Activated: Yes: No: Not Applicable:      If yes, cumulative days of wet weather discharge:  
 \*Attach additional sheets if necessary to list all certified operators.

## INSTRUCTIONS FOR MONITORING REPORT

### PART A - Discharge Monitoring Report

One report shall be completed and submitted for each discharge point, outfall, or testing site listed in the permit. Use additional sheets if necessary. Mail to Department of Environmental Protection at the address shown on the first page of report.

**Permittee Name/Address:** Complete the name as shown on the face of the permit. Complete the mailing address. Place a note beside the mailing address if the address has changed within the past month.

**Facility/Location:** Complete the name of the facility and the address or location of the facility.

**Permit Number:** This is the number of the permit issued to the permittee which contains the monitoring requirements in this report.

**Monitoring Period:** This is the period that the data on this report represents.

**Limit:** This is blank if the data represents interim limits on a facility under construction. If the data represents final limits achieved after construction, the word FINAL will be here.

**Class Size/Group:** The facility classification is either major or minor and the group is either industrial or domestic.

**Facility ID:** This is the identification number of the facility which was assigned by the Department at the time the facility was constructed.

**Discharge Point Number:** This is the number in the permit assigned to the outfall, discharge point, or test site from which this data was collected. Complete one of these reports for each outfall or discharge point from your facility.

**Plant size/Treatment type:** If this facility is a domestic wastewater treatment facility, enter a one digit and one letter code to indicate the type of treatment and the plant size. First record the number from the chart below which represents the type of treatment provided by the facility. Then record the letter that indicates the permitted capacity (plant size) as shown on the chart below.

	Type of Treatment	Plant Size (mgd)			
		A	B	C	D
1	Activated Sludge, Attached Growth, or Combined Treatment systems that include nutrient removal processes (Nitrification alone is not considered nutrient removal.)	≥3.0	≥0.5 but <3.0	≥0.002 but <0.5	...
2	Activated Sludge or Combined Treatment systems that do not include removal processes	≥5.0	≥1.0 but <5.0	≥0.002 but <1.0	...
3	Activated Sludge operated in the extended aeration mode and oxidation ditches	≥8.0	≥2.0 but <8.0	≥0.025 but <2.0	≥0.002 but <0.025
4	Attached Growth Treatment systems (trickling filters or RBCs) that do not include nutrient removal processes	≥10.0	≥3.0 but <10.0	≥0.025 but <3.0	≥0.002 but <0.025

**Parameter:** This is the variable or substance which must be monitored.

**Sample Measurement:** The data which was collected and analyzed.

**Permit Requirement:** The limit from the permit for that parameter and measurement.

**Quantity or Loading:** The amount or mass of the parameter discharged during the reporting period in Average quantity discharged during the reporting period after adding each day of discharge, Maximum quantity discharged on the day with the highest amount, and the Unit of measurement (lbs, g, tons, etc.)

**Quality or Concentration:** The concentration of the parameter discharged during the reporting period in Minimum concentration during the reporting period, Average of all the measurements for the parameter during the reporting period, Maximum or highest concentration discharged during the reporting period, and the Unit of measurement (mg/L, ug/L, etc.)

**No. Ex.:** The number of sample measurements during the sampling period that exceeded the maximum (minimum or 7-day average, as appropriate) permit requirement for each parameter. If none, enter zero.

**Frequency of Analysis:** The number of times the measurement is required to be made by the permit and the number of times the measurement was made.

**Sample Type:** The type of sample (grab, composite, continuous) required to be taken by the permit and the type that was taken.

**Certificate, 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. Date when the report is signed.

**Comment and Explanation:** Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation.

### PART B - DAILY SAMPLE RESULTS

Complete one sheet for each outfall, discharge point, or test site where daily sampling is required by the permit. Record the results of daily monitoring for the parameters required to be sampled daily by your permit. Record the data in the units indicated. If there are no fecal coliforms detected, enter ND in the row labeled "fecal coliform." Use the blank rows as needed.

List the name, certificate number, and class of all state certified operators. Use additional sheets as necessary.



# Department of Environmental Protection

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

## AMENDMENT TO THE STATEMENT OF BASIS AT THE TIME OF FINAL PERMIT ISSUANCE

DATE: October 5, 1995  
PERMIT NUMBER: FL0025828  
NAME OF APPLICANT: United Water Florida, Mr. Philip Heil , Vice President  
FACILITY NAME: Ortega Hills WWTP  
PERMIT WRITER: Jeff Martin, P.E.

1. CHANGES TO PERMIT FROM DRAFT PERMIT TO FINAL PERMIT STAGE:

The specific condition number I.A.11 was revised to reflect the latest condition. This condition now spells out the EPA test method , MDL and PQL for several parameters that require analysis. The compliance of reported results is in accordance with Rule 62-4.246 FAC.

Also, at the request of the permittee and their engineer, a letter was received on October 5, 1995 requesting that the preliminary plans be submitted by December 31, 1995 under condition VI.2.1. The additional time has been approved and so indicated.

2. PUBLIC COMMENTS:

No comments have been received from the public and no public meeting was requested.

3. EPA CONCURRENCE:

This is a minor facility and thus the EPA has waived the right to comment. A copy was sent t to the EPA and no comments have been received. A telephone conversation with Dee Stewart of the EPA in Atlanta has indicated that they have no comment.



# Department of Environmental Protection

*File Ortega Permit  
links me  
6/1/95*

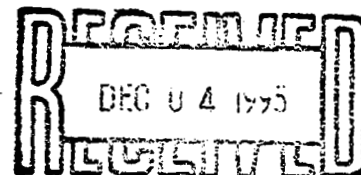
Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

## NOTICE OF PERMIT REVISION

CERTIFIED - RETURN RECEIPT



UNITED WATER FLORIDA

November 27, 1995

Mr. Philip Heil,  
Vice President  
United Water Florida  
1400 Millcoe Road  
Jacksonville, Florida 32225

Facility: Ortega Hills WWTP  
Permit/Facility I.D.: FL0025828  
Application No.: 270241  
County: Duval

Dear Mr. Heil:

Enclosed is revised Permit Number FL0025828 to operate the subject wastewater treatment plant issued pursuant to Section(s) 403, Florida Statutes. In accordance with the letters received on November 13, 1995, and November 28, 1995, by the Department from Mr. Gordon Grimes, P.E. of United Water Florida, specific conditions number I.A.1 and VI.2 have been revised. The condition I.A.1 has been changed to reflect the correct total chlorine residual monitoring frequency in accordance with Rule 62-601.500(1) FAC. Condition VI.2 has been revised for additional time on the self improvement schedule. Enclosed with this letter are revised pages 2 and 11 of 18 for the subject permit. Please attach these replacement pages to your permit as it becomes a permanent part thereof.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, within 14 days of receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

"Protect, Conserve and Manage Florida's Environment and Natural Resources"



The Petition shall contain the following information:

(a) 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;

(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of the material facts disputed by Petitioner, if any;

(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and

(g) A statement of the relief sought by 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 this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 62-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, 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 the Final Order is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



Jerry Owen, P.E.  
Water Facilities Administrator  
7825 Baymeadows Way, Suite 200B  
Jacksonville, Florida 32256

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of business on November 29, 1995 to the listed persons.

*BPW*  
*JWA*  
Copies furnished to:

RESD  
Office of General Counsel  
Elsa Potts, P.E.  
Mitchell Griffin, P.E.

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to S120.52, Florida  
Statutes, with the designated Department Clerk,  
receipt of which is hereby acknowledged.

*Mary Ann Smith* 11-29-95  
Clerk Date

PERMITTEE:  
United Water Florida

PERMIT/FACILITY I.D. # : FL0025828  
ISSUANCE DATE: OCTOBER 25, 1995  
EXPIRATION DATE: OCTOBER 25, 2000  
APPLICATION NO.: 270241  
REVISION: NOVEMBER 27, 1995

**I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

**A. Surface Water Discharge**

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge effluent from Outfall D001 to the Ortega River. Such discharge shall be limited and monitored by the permittee as specified below:

*[62-600, 6-8-93] [62-601, 5-31-93] [62-650, 11-27-89] [62-302, 1-5-93] [62-610.860, 4-2-90]*

Parameter	Units	Max/Min	Effluent Limitations				Monitoring Requirements			Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	
Flow	MGD	Maximum	0.220	--	--	--	Continuous	Flow meter & totalizer	I001 or D001	See Item I.A.2
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	4.0	4.0	6.0	8.0	Every two weeks	8 hour, flow proportioned composite	D001	See Item I.A.7
Total Suspended Solids	mg/L	Maximum	20	30	45	60	Every two weeks	8 hour, flow proportioned composite	D001	See Item I.A.7
Fecal Coliform Bacteria	See Permit Condition I. A. 6						Every two weeks	Grab	D001	
Total Chlorine Residual (For Disinfection)	See Permit Condition I. A. 8						5 days per week	Grab or continuous	D001	
Total Chlorine Residual (For Dechlorination)	See Permit Condition I. A. 9						Every two weeks	Grab or continuous	D001	
pH	std. units	Range	-	-	-	6.5 to 8.5	5 days per week	Grab or continuous	D001	

PERMITTEE:  
United Water Florida

PERMIT/FACILITY I.D. # : FL0025828  
ISSUANCE DATE: OCTOBER 25, 1995  
EXPIRATION DATE: OCTOBER 25, 2000  
APPLICATION NO.: 270241  
REVISION: NOVEMBER 27, 1995

- 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;
- 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 the facility record drawings;
- h. Copies of the licenses of the current certified operators; and
- 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 certification 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; tests performed and samples taken; and major repairs made. 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. [62-620.350, 11-29-94][61E12-41.010(1)(e), 11-02-93]

#### VI. SELF-IMPOSED IMPROVEMENT SCHEDULES

1. In accordance with the engineering report received May 3, 1995, and the additional information received on June 27, 1995, submitted as part of the permit application for this facility, and as prepared by CH2M Hill, Inc., this facility can be operated in the contact/stabilization mode or the complete mix mode. [62-600.735(1), 6-8-93]
2. A tentative agreement between United Water Florida and the Ortega Utility Company calls for the diversion of all flows to the Ortega Utility wastewater treatment facilities. All construction associated with this diversion shall require, as a minimum, the submittal of a collection/transmission permit application to the Department and may require permit applications to other agencies. The existing facility shall be properly and safely abandoned. The Department shall be kept informed of the progress of this schedule. The following proposed construction schedule for the modifications to phase-out and eliminate the existing facilities shall be followed, unless notification of a schedule revision is provided to the Department:

Implementation Step	Scheduled Completion Date
1. Preliminary Plans Complete.	June 30, 1996
2. Final Plans and Specifications Complete.	September 30, 1996
3. Begin construction.	November 30, 1996
4. End Construction .	October 30, 1997
5. Begin Diversion of Flows to Regional Plant .	November 30, 1997
6. Operational Level - System flows fully diverted.	December 30, 1997

If the permittee decides to maintain, modify or expand the facility, the Department shall be promptly notified and a permit application for renewal or a major modification must be submitted along with the appropriate fee to the Department.

[62-620.450(3)(a), 11-29-94]