Application Regarding
Service Availability Charges
and Policies by United Water
Florida Inc. For Duval, Nassau
and St. Johns Counties, Florida
DOCKET NO.: 000610-WS
DATE SUBMITTED FOR FILING:
July 24, 2000
Requirement N - Volume I of II

DOCUMENT NUMBER-DATE
08954 JUL 25 8

UNITED WATER FLORIDA
APPLICATION REQUIREMENTS

Prepared by: Gary Moseley

(n) Copies of approvals or permits for construction and operation of treatment facilities.

Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

RECEIVED
DEC 27 1999
UNITED WATER FLORIDA

December 21, 1999

CERTIFIED MAIL -- RETURN RECEIPT

file: Barry Schenck Scott T. Joop M. mike sad.

Gary Moseley, Vice President
United Water Florida
1400 Millcoe Road
Jacksonville, Florida 32225

DEP File No. FL0174441-002
St. Johns County
Blacks Ford Regional WWTF

file: Permits - BFR WWTP

NOTICE OF PERMIT REVISION

Enclosed is a revision to Permit Number FL0174441, issued under section(s) 403 of the Florida Statutes.

The revision includes a change to the toxicity monitoring requirements. This revision allows the series of tests as described by section I.D to be initiated within 180 days of discharge activation. Attach the modified pages to the permit as they become a part thereof. All other portions of the permit remain in effect and are fully enforceable.

The Department's proposed agency action shall become final unless a timely petition for an administrative hearing is filed under sections 120.569 and 120.57 of the Florida Statutes before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

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

Petitions by the applicant or any of the parties listed below must be filed within fourteen days of receipt of this written notice. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the public notice or receipt of the written notice, whichever occurs first.

Under section 120.60(3) of the Florida Statutes, however, any person who has asked the Department for notice of agency action may file a petition within fourteen days of receipt of such notice, regardless of the date of publication.

The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition or request for mediation 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 (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

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

(b) A statement of when and how each petitioner received notice of the Department action;

(c) A statement of how each petitioner's substantial interests are affected by the Department action;

(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;

(e) A statement of facts that the petitioner contends warrant reversal or modification of the Department action;

(f) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief; and

(g) Demand for relief (sought by the petitioner, stating precisely the action that the petitioner wants the Department to take).

A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise contain the same information as set forth above, as required by rule 28-106.301.

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

In addition to requesting an administrative hearing, any petitioner may elect to pursue mediation. The election may be accomplished by filing with the Department a mediation agreement with all parties to the proceeding (i.e., the applicant, the Department, and any person who has filed a timely and sufficient petition for a hearing). The agreement must contain all the information required by rule 28-106.404. The agreement must be received by the clerk in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station

35, Tallahassee, Florida 32399-3000, within ten days after the deadline for filing a petition, as set forth above. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement.

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

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

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

BPW
JSB

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 12/22, 1999 to the listed persons.

JMD

Copies furnished to:

Gordon Grimes, 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. 12/22/99

Clerk Date

c. 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]

5. The permittee shall provide safe access points for obtaining representative influent, reclaimed water, and effluent samples which are required by this permit. *[62-601.500(5), 5-31-93]*

6. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department on a monthly basis Discharge Monitoring Report(s) (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 Management 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 B200
Jacksonville, Florida 32256-7590

Phone Number - (904) 448-4330

FAX Number - (904) 448-4366 All FAX copies shall be followed by original copies.

D. Whole Effluent Toxicity Testing

The permittee shall initiate the series of tests described below beginning in within 180 days of discharge activation 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 Water to Freshwater Organisms, EPA/600/4-91/002, or the most current edition. The control water and dilution water used will be moderately hard water as described in , EPA/600/4-91/002, Table 3, 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 toxicity tests shall be submitted with the discharge monitoring report (DMR). Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use.

cc Gary
PAT
DAN H Corp
TIM G
Scott T.
file

Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

January 27, 1999

CERTIFIED MAIL -- RETURN RECEIPT

RECEIVED
FEB 01 1999
UNITED WATER FLORIDA

In the Matter of an
Application for Permit by:

Gary Moseley, Vice-President
United Water Florida
1400 Millcoe Road
Jacksonville, FL 32225

DEP File No. FL0174441-001
St Johns County
Blacks Ford Regional WWTF

NOTICE OF PERMIT

Enclosed is Permit Number FL0174441-001-DW1P to construct and operate a proposed 1.0 mgd annual average daily flow (AADF) design capacity sequential batch reactor activated sludge WWTF consisting of influent screening, batch tanks for anoxic mixing, aeration, and sedimentation, effluent equalization, filtration, and ultraviolet light disinfection. The applicant applied for a discharge through a multi-port outfall to Blacks Ford Wetlands (Class III fresh waters) to Trout Creek to St. Johns River. The permit is issued pursuant to Section(s) 403 Florida Statutes and 62-4, 62-302, 62-600, 62-601, 62-611, 62-620, 62-640, and 62-699 Florida Administrative Code.

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.

BFW
STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Michael J. Fitzsimmons
for 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 and all copies were mailed before the close of business on JAN. 29, 1999 to the listed persons.

Copies furnished to: VAS
Tammy L. Watson -- Montgomery Watson
Roosevelt Childress -- EPA, Region IV
St. Johns River Water Management District
Sharon Sawicki -- DEP, Tallahassee

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 A Branson Clerk 1/29/99 Date

Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

STATE OF FLORIDA
DOMESTIC WASTEWATER FACILITY PERMIT

PERMITTEE:

United Water Florida
Gary Moseley
Vice President
1400 Millcoe Road
Jacksonville, FL 32225
(904) 721-4600

PERMIT NUMBER: FL0174441
ISSUANCE DATE: January 27, 1999
EXPIRATION DATE: January 26, 2004
FACILITY ID: FL0174441 (Major)
PROJECT NO.: 001

FACILITY:

Blacks Ford Regional WWTF
St. Johns County, FL
Latitude: 30° 04' 20" N Longitude: 81° 34' 33" 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:

A proposed 1.0 mgd annual average daily flow (AADF) design capacity sequential batch reactor activated sludge WWTF consisting of influent screening, two batch tanks with a total volume of 1.3 million gallons (for anoxic mixing for nitrogen removal, aeration, and sedimentation), a 200,000 gallon effluent equalization tank, two sand filter units, and ultraviolet disinfection. Residuals will be stabilized in a 650,000 gallon digester to class B prior to land application. The facility will meet advanced waste treatment (AWT) requirements. The permitted capacity of the plant will be limited to 0.490 mgd AADF per applicant request for an interim period while influent flows are low.

EFFLUENT DISPOSAL:

Surface Water Discharge: A new 1.0 mgd AADF design capacity discharge to Blacks Ford Wetlands (Class III fresh waters -- receiving wetland) at Discharge Location (D001). The ultimate effluent receiving capacity of the wetland is 2.0 mgd AADF. The discharge will be limited to 1.0 mgd AADF because the effluent will not be distributed across the entire wetland. The effluent will be distributed by an effluent pipeline with multiple weir boxes. The permitted capacity of the discharge will be limited to 0.490 mgd AADF per applicant request as described above. The point of discharge is located approximately at latitude 30° 04' 20" N, longitude 81° 34' 33" W.

IN ACCORDANCE WITH: The limitations, monitoring requirements and other conditions as set forth in Pages 1 through 20 of this permit.

PERMITTEE: United Water Florida

FACILITY: Blacks Ford Regional WWTF

PERMIT NUMBER: FL0174441
ISSUE DATE: January 27, 1999
EXPIRATION DATE: January 26, 2004
PROJECT NO.: 001

I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Surface Water Discharges

1. During the period beginning upon placing the new facilities into operation and lasting through the expiration date of this permit, the permittee is authorized to discharge effluent from Outfall D001 to Blacks Ford Wetlands. Such discharge shall be limited and monitored by the permittee as specified below:

			Effluent Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow	mgd	Maximum	*0.490*	-	-	-	5 days/week	Recording flow meter and totalizer	PPI-1	See Cond. I.A.3, 5
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	5.0	6.25	7.5	10.0	Every 2 weeks	8-hour flow proportioned composite	EFF-1	
Total Suspended Solids	mg/L	Maximum	5.0	6.25	7.5	10.0	Every 2 weeks	8-hour flow proportioned composite	EFF-1	
pH	std. units	Range	-	-	-	6.0 - 8.5	5 days/week	Meter	EFF-1	
Fecal Coliform Bacteria	See Permit Condition I.A.4.						Every 2 weeks	Grab	EFF-1	
Nitrogen, Total as N	mg/L as N	Maximum	3.0	3.75	4.5	6.0	Every 2 weeks	8-hour flow proportioned composite	EFF-1	
Ammonia, Total as N	mg/L as N	Maximum	-	2.0	-	-	Every 2 weeks	8-hour flow proportioned composite	EFF-1	
Phosphorous, Total as P	mg/L as P	Maximum	-	-	-	Report	Every 2 weeks	8-hour flow proportioned composite	EFF-1	
Whole Effluent Toxicity	See Permit Condition I. D. 1. - I. D. 4.									

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
PPI-1	After effluent equalization, prior to filters

3. 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]*

4. 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 (the 90th percentile value) 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. Note: To report the 90th percentile value, list the fecal coliform values obtained during the month in ascending order. Report the value of the sample that corresponds to the 90th percentile (multiply the number of samples by 0.9). For example, for 30 samples, report the corresponding fecal coliform number for the 27th value of ascending order. *[62-600.440(4)(c), 6-8-93]*

5. The permitted discharge capacity may be increased to 1.0 mgd AADF by the permittee filing an application for a substantial revision to the wastewater permit. The permitted discharge capacity may not be increased to 2.0 mgd AADF until the permittee demonstrates that the proposed effluent pipeline configuration will evenly distribute the flow over the entire wetland such that the full assimilative capacity is utilized.

B. Wetlands Operational Monitoring Program

1. During the period beginning 30 days from placing the new system into operation, the permittee shall implement the operational monitoring program specified below:

Parameter	Matrix	Units	Monitoring Frequency	Sampling Station	Notes
Temperature	Surface	Centigrade	Quarterly	WIM-1, WIM-4	See Cond. I.B.3.
Dissolved Oxygen	Surface	mg/L	Quarterly	WIM-1, WIM-4	See Cond. I.B.3.
pH	Surface	S.U.	Quarterly	WIM-1, WIM-2	
Conductivity	Surface	µmhos/cm	Quarterly	WIM-1, WIM-4	
$CBOD_5$	Surface	mg/L	Quarterly	WIM-1, WIM-4	
Total Suspended Solids	Surface	mg/L	Quarterly	WIM-1, WIM-4	
Total Phosphorous	Surface	mg/L as P	Quarterly	WIM-1, WIM-4	
Total Kjeldahl Nitrogen	Surface	mg/L as N	Quarterly	WIM-1, WIM-4	
Total Ammonia	Surface	mg/L as N	Quarterly	WIM-1	
Nitrite + Nitrate	Surface	mg/L as N	Quarterly	WIM-1, WIM-4	
Sulfate (SO_4)	Surface	mg/L as S	Quarterly	WIM-1, WIM-4	
Sulfide (S^{2-})	Sediment	mg/L as S	Annually	WIM-1, WIM-4	
Fecal Coliform	Surface	no./100 mL	Quarterly	WIM-1, WIM-4	
Chlorophyll a	Surface	mg/m^3	Quarterly	WIM-1, WIM-4	
Stage	Surface	feet	Continuous	WIM-4	See Cond. I.B.4.
Woody Vegetation	Biota	% reduction of importance value	Annual	WIM-1, WIM-2, WIM-3	See Cond. I.B.5.
Herbaceous Vegetation -- Line Intercept Method	Biota	% reduction of importance value	Quarterly	WIM-1, WIM-2, WIM-3	See Cond. I.B.6.
Threatened and Endangered Plant and Animal Species List	Biota	--	Annual	WIM-1, WIM-2, WIM-3	See Cond. I.B.7.

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
WIM-1	Wetland internal monitoring point BF1, immediately downstream of the point of discharge to the wetland
WIM-2	Wetland internal monitoring point BF2, in the approximate geographic middle of the wetland
WIM-3	Wetland internal monitoring point BF3, upstream of the wetland outlet
WIM-4	Wetland internal monitoring point BF4, in the vicinity of the point of discharge from the wetland

3. Forty-eight hour, dawn to dusk, maximum of four hour intervals. *[62-611.700(1) Table 3, 11-27-89]*

4. Stage is used to determine flow and is required only at the point of discharge from the wetland. *[62-611.700(1) Table 3, 11-27-89]*

5. Canopy and subcanopy woody vegetation shall be surveyed in each of the three quadrats along the three transects identified in the baseline monitoring report. The importance value of each of the species shall be calculated and compared to the baseline monitoring report. The importance value of any of the most common species in the canopy and subcanopy as averaged over the three quadrats at any station shall not be reduced by more than 50 percent. In addition, the average importance value for all nine quadrats of any of the most common plant species occupying the canopy or subcanopy stratum shall not be reduced by more than 25 percent. *[62-611.700(1)Table 3 & 62-611.500(3)(d)1., 11-27-89]*

6. Herbaceous vegetation shall be surveyed with the line-intercept method along each of the three transects identified in the baseline monitoring report. *[62-611.700(1) Table 3, 11-27-89]*

7. The threatened and endangered species list shall be updated annually based on qualitative observations of flora and fauna. *[62-611.700(1)Table 3, 11-27-89]*

8. Monitoring results exceeding the requirements defined in 5. above may or may not be considered to be in compliance with the provisions of 62-611 FAC depending on the circumstances that have caused changes in the woody vegetation. If the results of the field monitoring program indicate that the criteria established in 5. above are exceeded, the permittee shall promptly schedule a meeting with the Department to discuss what, if any, remedial measures or modified permit requirements may be required to prevent future impacts. As necessary, the permit may be reopened and modified to include additional requirements to ensure compliance with the provisions of 62-611 FAC as well as a compliance schedule to implement such additional requirements.

PERMITTEE: United Water Florida

FACILITY: Blacks Ford Regional WWTF

PERMIT NUMBER: FL0174441
ISSUE DATE: January 27, 1999
EXPIRATION DATE: January 26, 2004
PROJECT NO.: 001

C. Other Limitations and Monitoring and Reporting Requirements

1. During the period beginning upon placing the new system into operation and lasting through the expiration date of this permit, the treatment facility shall be limited and monitored by the permittee as specified below:

			Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	-	Report	-	-	Every 2 weeks	8-hour flow proportioned composite	INF-1	See Cond.I.C.3
Total Suspended Solids	mg/L	Maximum	-	Report	-	-	Every 2 weeks	8-hour flow proportioned composite	INF-1	See Cond.I.C.3
Total Nitrogen	mg/L as N	Maximum	3.0	-	-	Report	Monthly	Grab	WIM-4	
Total Ammonia	mg/L as N	Maximum	-	-	-	Report	Monthly	Grab	WIM-4	See Cond.I.C.4.
pH	s.u.	Maximum	-	-	-	Report	Monthly	Grab	WIM-4	See Cond.I.C.4.
Temperature	Centigrade	Maximum	-	-	-	Report	Monthly	Grab	WIM-4	See Cond.I.C.4.
Un-ionized Ammonia	mg/L as N	Maximum	-	-	-	0.02	Monthly	Calculation	WIM-4	See Cond.I.C.4.

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-1	Influent, prior to biological treatment
WIM-4	Wetland internal monitoring point BF4, in the vicinity of the point of discharge from the wetland

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. The pH and temperature of the stream shall be taken at the time of ammonia sample collection. The pH and temperature shall be used to calculate the Un-ionized ammonia fraction. *[62-4.246, 6-13-96]*

5. 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)
$CBOD_5$	SM 5210 B	2.0 (mg/L)	2.0 (mg/L)
TSS	160.2	4.0 (mg/L)	4.0 (mg/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)
Total Ammonia	350.1	20.0 (µg/L)	40.0 (µg/L)
Total Phosphorous	365.1 / 365.2 / 365.3 / 365.4	20.0 / 10.0 / 10.0 / 20.0 (µg/L)	50.0 / 20.0 / 20.0 / 50.0 (µg/L)
Total Kjeldahl Nitrogen	351.2 / 351.3	100.0 / 1000 (µg/L)	200.0 / 1000 (µg/L)
Nitrite + Nitrate	353.1 / 353.2 / 353.3	10.0 / 50.0 / 50.0 (µg/L)	20.0 / 100.0 / 100.0 (µg/L)
Dissolved Oxygen	360.1	0.10 (mg/L)	0.10 (mg/L)
Temperature	170.1	0.10 (Centigrade)	0.10 (Centigrade)
Conductivity, Specific	120.1	1.0 (µmhos/cm)	1.0 (µmhos/cm)
Chlorophyll a	SM 10200 H	0.10 (µg/L)	0.50 (µg/L)
Sulfate	300.0 / 375.3	20.0 / 1.0 (µg/L)	50.0 / 5.0 (µg/L)
Sulfide	376.2 / 376.1	100.0 / 1000.0 (µg/L)	200.0 / 2000.0 (µg/L)

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:

a. results greater than or equal to the PQL shall be reported as the measured quantity

b. 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.

c. 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]

5. The permittee shall provide safe access points for obtaining representative influent, reclaimed water, and effluent samples which are required by this permit. *[62-601.500(5), 5-31-93]*

6. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department on a monthly basis Discharge Monitoring Report(s) (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:

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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 B200
Jacksonville, Florida 32256-7590

Phone Number - (904) 448-4330

FAX Number - (904) 448-4366 All FAX copies shall be followed by original copies.

D. Whole Effluent Toxicity Testing

The permittee shall initiate the series of tests described below beginning in within 60 days of discharge activation 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 Water to Freshwater Organisms, EPA/600/4-91/002, or the most current edition. The control water and dilution water used will be moderately hard water as described in , EPA/600/4-91/002, Table 3, 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 toxicity tests shall be submitted with the discharge monitoring report (DMR). Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use.

1. a. The permittee shall conduct multi-concentration daphnid (Ceriodaphnia dubia) survival and reproduction tests (method 1002.0) and fathead minnow (Pimephales promelas) larval survival and growth tests (method 1000.0). All "routine" tests shall be conducted using a control (0% effluent) and the following dilution concentrations at a minimum: 100.0%, 50.0%, 25.0%, 12.5%, and 6.25%. All test results shall be statistically analyzed according to the Appendix in EPA/600/4-91/002, or the most current edition.

   b. For each set of tests conducted, a 24-hour composite of final effluent shall be collected and used per the sampling schedule in EPA/600/4-91/002, 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.

   c. 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 separate grab sample 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 acute toxicity.

2. a. The toxicity tests specified above shall be conducted once every two months until 6 valid bimonthly tests are completed. These tests are referred to as "routine" tests. Upon the completion of six valid tests, the Department will evaluate the toxicity testing results and reopen the permit for setting a limit or changing toxicity testing requirements.

   b. Chronic toxicity test results from "routine" tests shall be reported for monitoring only purposes according to EPA/600/4-91/002, Section 10, Report Preparation (or the most current edition), and shall be submitted to:

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

3. a. The permittee shall derive acute toxicity results from each of the "routine" tests described above as follows. Mortalities of test species shall be recorded at 96 hours for the 100% effluent test concentration and shall be used in determining compliance as described below.

   b. Mortalities of greater than 50% in 100% effluent in any "routine" sample or an LC_{50} of less than 100% effluent in any additional definitive test 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), FAC.

4. a. If unacceptable acute toxicity (greater than 50% mortality of either test species in any test concentration of 100% effluent) is found in a "routine" test, the permittee shall conduct three additional acute definitive tests on each species indicating unacceptable toxicity. All tests shall include four grab samples taken at six hour intervals and run as four separate definitive analyses. Results for each additional test will include the determination of LC_{50} values with 95% confidence limits.

   b. The first 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 and two dilutions below the target toxicity and a control (0% effluent) are run.

c. For each additional test, the test acceptability criteria specified in EPA/600/4-90/027F (Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms) 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.

d. Results from additional tests, required due to unacceptable acute toxicity in the "routine" tests, shall be submitted in a single report prepared according to EPA/600/4-90/027F, Section 12, or the most current edition and submitted within 45 days of completion of the third additional, valid test. If the additional test(s) demonstrate unacceptable acute toxicity, the permittee will meet with the Department within 30 days of the report submittal to identify corrective actions necessary to remedy the unacceptable acute toxicity.

II. RESIDUALS 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]*

3. The domestic wastewater residuals for this facility are classified as 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

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

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

7. Class B residuals application shall be in accordance with the Agricultural Use Plan(s) approved by the Department for this facility. *[62-640.300(1), 3-1-91]*

8. 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]*

9. 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]*

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 apply for a minor permit revision on DEP Form 62-620.910(9) for new, modified, or expanded residuals land application sites. The facilities 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. Current Agricultural Use Plan(s) identify residuals landspreading on the following sites: *[62-620.330, 11-29-94]*

Site Name	Application Area (Acres)	Site Location	
		City	County
Cope Farm	134	Jacksonville	Duval

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(s). *[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(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 Northeast by March 1 of each year. *[62-640.700(3)(e) and (p), 3-1-91]*

III. GROUND WATER MONITORING REQUIREMENTS

Section III is not applicable to this facility.

IV. REUSE AND LAND APPLICATION REQUIREMENTS

Prior to placing the new facilities 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 a reuse feasibility study for the entire United Water Florida certificated service area in northern St. Johns County. The facility may not be placed into operation until the Department reviews and approves the reuse feasibility study. The Department will require action based on the conclusions of the study.

V. OPERATION AND MAINTENANCE REQUIREMENTS

1. During the period of operation authorized by this permit, the wastewater facilities shall be operated under the supervision of a(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 C facility and, at a minimum, operators with appropriate certification must be on the site as follows:

   A Class C or higher operator 6 hours/day for 5 days/week. The lead operator must be a Class C operator, or higher.

   [62-699, 5-20-94] [62-620.630(3), 11-29-94] [62-699.310, 5-20-92] [62-610.462, 1-9-96]

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]*

3. When the three-month average daily flow for the most recent three consecutive months exceeds 50 percent of the permitted capacity of the treatment plant or reuse and disposal systems, the permittee shall submit to the Department a capacity analysis report. This initial capacity analysis report shall be submitted within 180 days after the last day of the last month of the three-month period referenced above. The capacity analysis report shall be prepared in accordance with Rule 62-600.405, F.A.C. *[62-600.405(4), 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]*

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. Copies of the licenses of the current certified operators; and

   g. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date of the logs or schedules. The log 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. SCHEDULES

Section VI is not applicable to this facility.

VII. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

This facility is not required to have a pretreatment program at this time. *[62-625.500, 11-29-94]*

VIII. OTHER SPECIFIC CONDITIONS

1. Public access to Blacks Ford wetland shall be restricted by posting of signs at regular intervals around the wetland and by gating of all access roads. *[62-611.600(6), 11-27-89]*

2. Prior to placing the new facilities 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]*

3. 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]*

4. 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]*

5. Florida water quality criteria and standards shall not be violated as a result of any discharge or land application of reclaimed water or residuals from this facility. *[62-600.320(9), 11-29-94 and 62-302.510(5), 2-27-95][62-640.700(3)(c), 3-1-91]*

6. 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]*

7. 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]*

8. 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]*

9. 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.

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

10. The treatment facility, storage ponds, rapid infiltration basins, and/or infiltration trenches shall be enclosed with a fence or otherwise provided with features to discourage the entry of animals and unauthorized persons. *[62-600.410, 6-8-93]*

11. 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]*

12. 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]

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:

   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 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]*

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.

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;

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. KAS JPW

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

Michael J. Fitzsimmons

for 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, receipt of which is hereby acknowledged.

Judy H. Dawson 1/29/99
Clerk Date

Florida Department of Environmental Protection
Domestic Wastewater Facility Permit
FACT SHEET

PERMIT NUMBER: FL0174441

FACILITY NAME: Blacks Ford Regional WWTF

FACILITY LOCATION: St. Johns County

NAME OF PERMITTEE: United Water Florida

PERMIT WRITER: Jon Dinges KAS

1. SYNOPSIS OF APPLICATION

a. Name and Address of Applicant

United Water Florida
Gary Moseley, Vice President
1400 Millcoe Road
Jacksonville, Florida 32225

b. Chronology of Application

Application Date:	August 28, 1997
Additional Information:	September 22, 1997
Public Notice Date:	December 14, 1998

c. Type of Facility

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

d. Facility Capacity

Existing Design Capacity:	0.0	mgd
Proposed Increase in Design Capacity:	1.0	mgd
Proposed Total Design Capacity:	1.0	mgd
Existing Permitted Capacity:	0.0	mgd
Proposed Increase in Permitted Capacity:	0.490	mgd
Proposed Total Permitted Capacity:	0.490	mgd

e. Description of Facilities

A proposed 1.0 mgd annual average daily flow (AADF) design capacity sequential batch reactor activated sludge WWTF consisting of influent screening, two batch tanks with a total volume of 1.3 million gallons (for anoxic mixing for nitrogen removal, aeration, and sedimentation), a 200,000 gallon effluent equalization tank, two sand filter units, and ultraviolet disinfection.

Residuals will be stabilized in a 650,000 gallon digester to class B prior to land application. The facility will meet advanced waste treatment (AWT) requirements. The permitted capacity has been limited to 0.490 mgd AADF per applicant request.

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

Surface Water Discharge:

Receiving Waters:

Outfall D001:
Blacks Ford Wetlands (Class III Fresh Waters -- Receiving Wetland) to Trout Creek to St. Johns River
Latitude: 30° 04' 20" N
Longitude: 81° 34' 33" W

See Attachment A for a map showing the location of the receiving waters and discharge location. The current design effluent disposal capacity of the wetland is 1.0 mgd AADF. The ultimate effluent receiving capacity of the wetland is 2.0 mgd AADF. The discharge will be limited to 1.0 mgd AADF because the effluent will not be distributed across the entire wetland.

g. Description of Effluent or Reclaimed Water Discharges (as reported by applicant)

This section is not applicable because the facility has yet to be constructed.

2. PROPOSED EFFLUENT OR RECLAIMED WATER LIMITATIONS

Outfall Serial Number D001

Parameters	Effluent or Reclaimed Water Limitations				
	Maximum/ Minimum	Annual Average	Monthly Average	Weekly Average	Single Sample
Flow	Maximum	0.490	-	-	-
Carbonaceous Biochemical Oxygen Demand (5 day)	Maximum	5.0	6.25	7.5	10.0
Total Suspended Solids	Maximum	5.0	6.25	7.5	10.0
pH	Range	-	-	-	6.0 to 8.5
Fecal Coliform Bacteria	Maximum	See below			
Nitrogen, Total as N	Maximum	3.0	3.75	4.5	6.0
Ammonia, Total as N	Maximum	-	2.0	-	-
Phosphorous, Total as P	Maximum	-	-	-	Report
Whole Effluent Toxicity	***	See below			

pH Limits: The preliminary permit contained a pH range of 5.5 to 6.5 for the effluent discharge into the wetland consistent with 62-302 FAC. The reported natural background pH in the wetland averaged approximately 5.5, therefore a 1.0 pH unit range was established. The applicant provided additional information showing that discharge to the wetland may not increase the natural background more than one pH unit based on the findings in other wetlands receiving effluent discharges. The information also indicated that a pH increase of greater than one unit above background may not significantly impact the

wetland based on the reaction of other wetlands to effluent discharges. The applicant also added that artificially lowering the pH in the effluent with sulfur-containing acid could be detrimental to the wetland because of an increase in hydrogen sulfide.

Disinfection Requirements and Fecal Coliform Limits: In accordance with Rule 62-611.600(6) FAC, the applicant will restrict access to the receiving wetland, therefore basic disinfection requirements will apply. The fecal coliform limits are as follows: 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 (the 90th percentile value) 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.

Total Phosphorous Limit in Discharge from Receiving Wetland: In accordance with Rule 62-611.450(1) FAC, the Department shall waive or alter the compliance levels for phosphorous if it has been shown not to be a limiting nutrient in the receiving waters. As part of the baseline monitoring study, the applicant conducted limiting nutrient algal assays for the receiving waters downstream of Blacks Ford swamp. The results show that phosphorous is not a limiting nutrient for the system. Nitrogen is the limiting nutrient for the receiving waters, therefore the phosphorous limit was waived.

Whole Effluent Toxicity Testing: In accordance with Rule 62-302.500(1)(d) FAC, the effluent shall not be acutely toxic. The whole effluent shall not cause greater than 50 percent mortality to the test species. In addition, the effluent must be free of substances that are chronically toxic in accordance with Rule 62-611.500(4) FAC. To determine if the discharge has the potential to demonstrate chronic toxicity, the permittee shall conduct multi-concentration chronic toxicity monitoring tests using the daphnid, *Ceriodaphnia dubia*, and the fathead minnow, *Pimephales promelas*. A limit for chronic toxicity is not included in the permit. The chronic tests are for data collection only. After the permittee has conducted six valid chronic toxicity monitoring tests, the Department will evaluate the toxicity results and reopen the permit for setting a limit or changing toxicity testing requirements.

An acute toxicity limit has been included in the permit. The acute toxicity results will be derived from the chronic toxicity monitoring tests. If unacceptable acute toxicity (greater than 50 percent mortality in 100 percent effluent) occurs in any routine test, the permittee shall conduct three additional definitive (multi-concentration) acute toxicity tests.

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

The following table provides the basis for Part I. A. provisions.

Outfall D001

Parameter	Basis	Rationale
Flow	Annual Average	62-600.400(3)(b) FAC
Carbonaceous Biochemical Oxygen Demand (5 day)	Annual Average Monthly Average Weekly Average Single Sample Max.	62-611.420(2) & 62-600.740(1)(b)2.a. FAC 62-600.740(1)(b)2.b. FAC 62-600.740(1)(b)2.c. FAC 62-600.740(1)(b)2.d. FAC

Parameter	Basis	Rationale
Total Suspended Solids	Annual Average Monthly Average Weekly Average Single Sample Max.	62-611.420(2) & 62-600.740(1)(b)2.a. FAC 62-600.740(1)(b)2.b. FAC 62-600.740(1)(b)2.c. FAC 62-600.740(1)(b)2.d. FAC
pH	Min. and Max.	62-600.445 FAC
Fecal Coliform Bacteria	Annual Average Monthly Geo. Mean. 90th Percentile Single Sample Max.	62-600.440(4)(c)1. FAC 62-600.440(4)(c)2. FAC 62-600.440(4)(c)3. FAC 62-600.440(4)(c)4. FAC
Nitrogen, Total as N	Annual Average Monthly Average Weekly Average Single Sample Max.	62-611.420(2) & 62-600.740(1)(b)2.a. FAC 62-600.740(1)(b)2.b. FAC 62-600.740(1)(b)2.c. FAC 62-600.740(1)(b)2.d. FAC
Ammonia, Total as N	Monthly Average	62-611.420(3) FAC
Phosphorous, Total as P	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 BPJ of permit writer

The following table provides the basis for Part I. B. and I. C. provisions.

Other Limitations and Monitoring Requirements:

Parameter	Basis	Rationale
Wetlands Operational Monitoring Program	Monitor Wetland & Report	62-611.700(1), Table 3 FAC
Change in wetlands vegetation	*Monitor Wetland & Report*	*62-611.700(1), Table 3 & 62-611.500(3)(d)1. FAC*
Threatened & endangered species list	Monitor Wetland & Update List	62-611.700(1) Table 3 FAC
Carbonaceous Biochemical Oxygen Demand (5 day)	Monitor & Report Influent	62-601.300(1) FAC
Total Suspended Solids	Monitor & Report Influent	62-601.300(1) FAC
Total Nitrogen	Maximum at wetland discharge	62-611.450(1) FAC
Total Phosphorous	Monitor at wetland discharge & Report	62-611.450(1) FAC
Total Ammonia	Monitor at wetland discharge & Report	62-611.450(1) FAC
pH	Monitor at wetland discharge & Report	62-611.450(1) FAC
Temperature	Monitor at wetland discharge & Report	62-611.450(1) FAC
Unionized Ammonia	Maximum at wetland discharge	62-611.450(1) FAC

Fish Monitoring Requirements: The fish monitoring requirements were deleted from the permit because only *Gambusia affinis* was found present in the wetland during the baseline monitoring. Changes to fish biomass based on one species would not be a significant measure of wetland impacts.

4. RESIDUALS MANAGEMENT

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

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

Residuals will be stabilized to meet Class B stabilization requirements prior to land application.

5. OPERATOR STAFFING

The subject treatment plant is a category I, class C facility, based on the permitted capacity of 0.490 mgd AADF. In accordance with Rule 62-699 FAC, the facility shall be staffed with a class C or higher operator for 6 hours per day for 5 days per week. The lead operator shall be Class C or higher. Any expansion in permitted capacity above 0.5 mgd will require an increase in operator staffing.

6. INDUSTRIAL PRETREATMENT REQUIREMENTS

There are no industrial pretreatment requirements for this facility.

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

The effective date of the effluent limitations will be the date that discharge to Blacks Ford wetlands begins.

8. DISCUSSION OF PREVIOUS PERMIT EFFLUENT OR RECLAIMED WATER LIMITATIONS.

This section is not applicable to this facility.

9. REQUESTED VARIANCES OR ALTERNATIVES TO REQUIRED STANDARDS

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

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

The applicant submitted an antidegradation report in July 1997 to support the application. The report was reviewed and was determined to meet the antidegradation permitting requirements of 62-4.242 and 62-302.300 FAC.

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

The applicant provided documentation such that the Department has a reasonable assurance that there will not be adverse impacts on any threatened or endangered species as a result of the proposed discharge.

12. REUSE FEASIBILITY STUDY

At the time that the Blacks Ford Regional WWTF was in its conceptual phase of design and planning, the applicant prepared a system-wide reuse feasibility study. The study did not adequately address reuse feasibility in the Blacks Ford service area at the time. The service area is rapidly developing and it is possible that reuse may become feasible during or immediately following construction of the facility. Therefore, the applicant will be required to submit a reuse feasibility study prior to placing the new facility into operation.

13. APPLICABLE RULES

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:

Chapter	Effective Date
62-4	02-02-94
62-302	02-27-95
62-600	06-08-93
62-601	05-31-93
62-610	01-09-96
62-611	11-27-89
62-620	11-29-94
62-640	03-01-91
62-650	11-27-89
62-699	05-20-92

b. FS refers to various portions of the Florida Statutes

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

d. BPJ refers to Best Professional Judgment

14. DEP CONTACT

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

Department of Environmental Protection
Northeast District Office
7825 Baymeadows Way, Suite B200
Jacksonville, FL 32256 - 7590

Telephone Number: (904) 448-4330
Fax Number: (904) 448-4366

15. 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.

16. SCHEDULE FOR PERMIT ISSUANCE

Preliminary Permit to Applicant:	June 26, 1998
Draft permit to Applicant and EPA :	August 5, 1998
Receipt of Applicant Comments:	*September 14, 1998*
Draft permit to Applicant and EPA :	October 27, 1998
Beginning of Public Comment Period :	December 14, 1998
End of Public Comment Period :	January 13, 1999
Notice of Agency Action :	January 27, 1999
Issuance Date of Permit :	January 27, 1999

17. 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 officers 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:

(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 which the petitioner contends warrant reversal or modification of the Department's action or proposed action;

(e) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and

(f) 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.

Attachment A

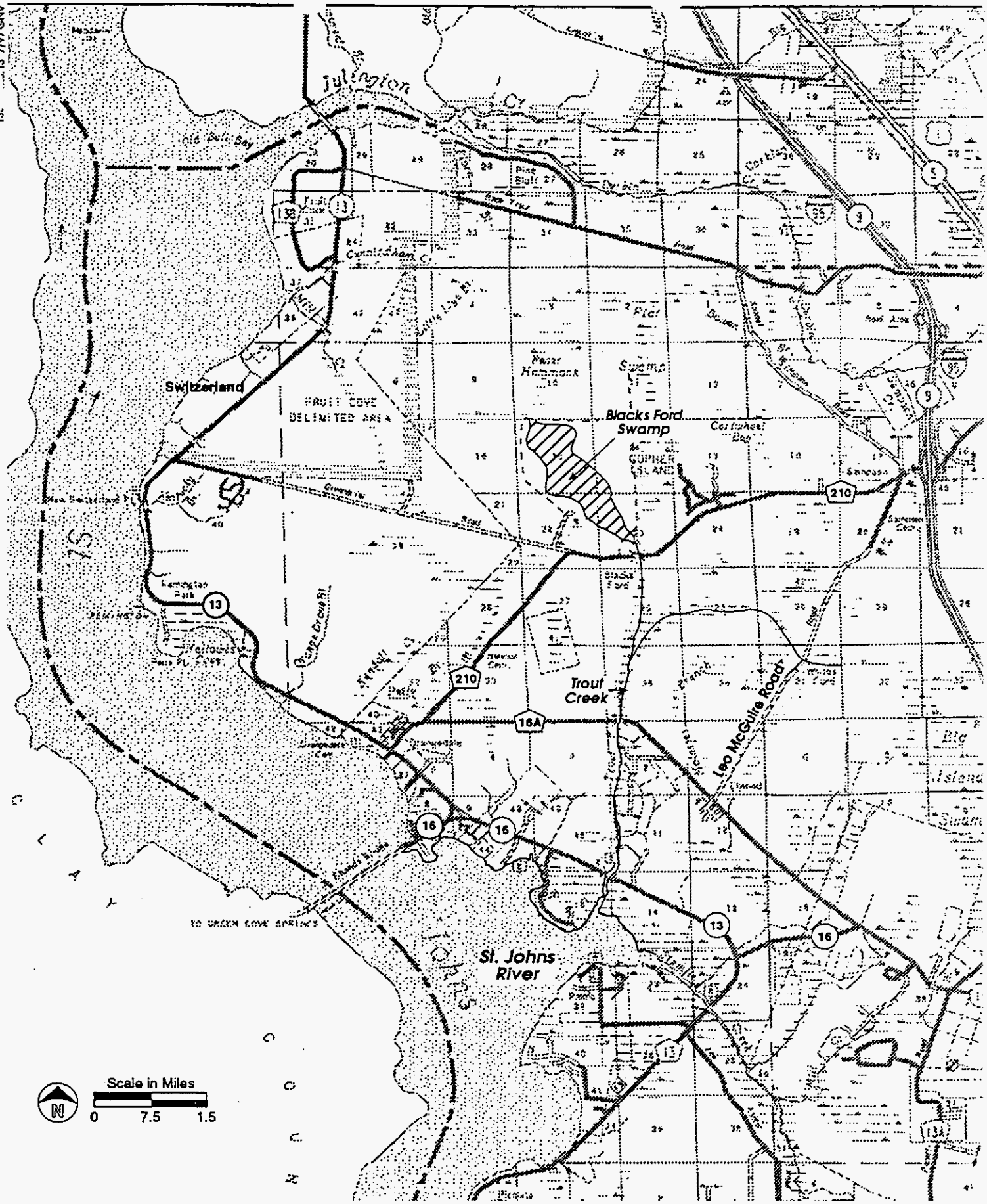


Figure 1-2. Project Location Map.

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: FL0174441
MONITORING PERIOD From: _____ To: _____
LIMIT: FINAL
REPORT: Monthly
CLASS SIZE: Major
GROUP: Domestic

FACILITY: Blacks Ford Regional WWTF
LOCATION: southeast of Fruit Cove

FACILITY ID: FL0174441
GMS ID NO.: 3155P06559
GMS TEST SITE NO.: 3155X14961
DISCHARGE POINT NUMBER: D001
PLANT SIZE/TREATMENT TYPE: IC

COUNTY: St.Johns

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. PPI-1	Permit Requirement	0.490 (An.Avg.)		mgd						5 days/week	Flow Meter and Totalizer
Flow	Sample Measurement										
STORET No. 50050 1 Mon.Site No. PPI-1	Permit Requirement	Report (Mo.Avg.)		mgd						5 days/week	Flow Meter and Totalizer
CBOD5	Sample Measurement										
STORET No. 80082 Y Mon.Site No. EFF-1	Permit Requirement					5.0 (An.Avg.)		mg/L		Every 2 weeks	8-hour FPC
CBOD5	Sample Measurement										
STORET No. 80082 1 Mon.Site No. EFF-1	Permit Requirement					6.25 (Mo.Avg.)	10.0 (Max.)	mg/L		Every 2 weeks	8-hour FPC
TSS	Sample Measurement										
STORET No. 00530 Y Mon.Site No. EFF-1	Permit Requirement					5.0 (An. Avg.)		mg/L		Every 2 weeks	8-hour FPC
TSS	Sample Measurement										
STORET No. 00530 1 Mon.Site No. EFF-1	Permit Requirement					6.25 (Mo.Avg.)	10.0 (Max.)	mg/L		Every 2 weeks	8-hour FPC
pH	Sample Measurement										
STORET No. 00400 1 Mon.Site No. EFF-1	Permit Requirement				6.0 (Min.)		8.5 (Max.)	S.U.		5 days/week	Recording Meter

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 t 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: Blacks Ford Regional WWTF PERMIT NUMBER: FL0174441 DISCHARGE POINT NUMBER: D001

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Fecal Coliform Bacteria	Sample Measurement										
STORET No. 31615 Y Mon.Site No. EFF-1	Permit Requirement					200 (An.Avg.)		#/100mL		Every 2 weeks	Grab
Fecal Coliform Bacteria	Sample Measurement										
STORET No. 31615 I Mon.Site No. EFF-1	Permit Requirement					Report (Mo.Geo.Mean)	800 (Max.)	#/100mL		Every 2 weeks	Grab
Nitrogen, Total as N	Sample Measurement										
STORET No. 00600 Y Mon.Site No. EFF-1	Permit Requirement					3.0 (An.Avg.)		mg/L		Every 2 weeks	8-hour FP
Nitrogen, Total as N	Sample Measurement										
STORET No. 00600 I Mon.Site No. EFF-1	Permit Requirement					3.75 (Mo.Avg.)	6.0 (Max.)	mg/L		Every 2 weeks	8-hour FPC
Ammonia, Total as N	Sample Measurement										
STORET No. 00610 I Mon.Site No. EFF-1	Permit Requirement					2.0 (Mo.Avg.)		mg/L		Every 2 weeks	8-hour FPC
Phosphorous, Total	Sample Measurement										
STORET No. 00665 I Mon.Site No. EFF-1	Permit Requirement					REPORT (Mo.Avg.)	REPORT (Max.)	mg/L		Every 2 weeks	8-hour FPC
CBOD5	Sample Measurement										
STORET No. 80082 G Mon.Site No. INF-1	Permit Requirement					Report (Mo.Avg.)		mg/L		Every 2 weeks	8-hour FPC
TSS	Sample Measurement										
STORET No. 00530 G Mon.Site No. INF-1	Permit Requirement					Report (Mo.Avg.)		mg/L		Every 2 weeks	8-hour FP

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY NAME: Blacks Ford Regional WWTF PERMIT NUMBER: FL0174441 DISCHARGE POINT NUMBER: D001

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 P Mon.Site No. WIM-4	Permit Requirement					3.0 (An.Avg.)		mg/le		Monthly	Grab
Nitrogen, Total as N	Sample Measurement										
STORET No. 00600 Q Mon.Site No. WIM-4	Permit Requirement						REPORT (Max.)	mg/L		Monthly	Grab
Ammonia, Total as N	Sample Measurement										
STORET No. 00610 Q Mon.Site No. WIM-4	Permit Requirement						REPORT (Max.)	mg/L		Monthly	Grab
pH	Sample Measurement										
STORET No. 00400 Q Mon.Site No. WIM-4	Permit Requirement						REPORT (Max.)	S.U.		Monthly	Meter
Temperature	Sample Measurement										
STORET No. 00010 Q Mon.Site No. WIM-4	Permit Requirement						REPORT (Max.)	Centigr ade		Monthly	Meter
Un-ionized Ammonia, as N	Sample Measurement										
STORET No. 000612 Q Mon.Site No. WIM-4	Permit Requirement						0.02 (Max.)	mg/L		Monthly	Calculation
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										

P = ANNUAL AVERAGE; Q = MONTHLY MONITORING

DATE SAMPLES WERE COLLECTED: _____

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	PERMIT NUMBER:	FL0174441		
MAILING ADDRESS:	1400 Millcoe Road	MONITORING PERIOD From:		To:	
	Jacksonville, FL 32225	LIMIT:	FINAL	REPORT:	Quarterly
		CLASS SIZE:	Major	GROUP:	Domestic
FACILITY:	Blacks Ford Regional WWTF	FACILITY ID:	FL0174441		
LOCATION:	southeast of Fruit Cove	GMS ID NO.:	3155P06559	GMS TEST SITE NO.:	3155X14961
		DISCHARGE POINT NUMBER:	D001		
		PLANT SIZE/TREATMENT TYPE:	IC		
COUNTY:	St.Johns				

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Temperature	Sample Measurement										
STORET No. 00010 5 Mon.Site No. WIM-1	Permit Requirement						REPORT (Max.)	Centigrade		Quarterly	Meter
Temperature	Sample Measurement										
STORET No. 00010 6 Mon.Site No. WIM-4	Permit Requirement						REPORT (Max.)	Centigrade		Quarterly	Meter
Dissolved Oxygen	Sample Measurement										
STORET No. 00300 5 Mon.Site No. WIM-1	Permit Requirement				REPORT (Min.)			mg/L		Quarterly	Meter
Dissolved Oxygen	Sample Measurement										
STORET No. 00300 6 Mon.Site No. WIM-4	Permit Requirement				REPORT (Min.)			mg/L		Quarterly	Meter
pH	Sample Measurement										
STORET No. 00400 5 Mon.Site No. WIM-1	Permit Requirement						REPORT (Max.)	S.U.		Quarterly	Meter
pH	Sample Measurement										
STORET No. 00400 6 Mon.Site No. WIM-2	Permit Requirement						REPORT (Max.)	S.U.		Quarterly	Meter

Enter NODI=9 if a parameter is not required to be monitored this quarter.

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 t 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):

DATE SAMPLES WERE COLLECTED: _____

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY NAME: Blacks Ford Regional WWTF PERMIT NUMBER: FL0174441 DISCHARGE POINT NUMBER: D001

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Specific Conductivity	Sample Measurement										
STORET No. 00095 5 Mon.Site No. WIM-1	Permit Requirement						REPORT (Max.)	µmhos/cm		Quarterly	Meter
Specific Conductivity	Sample Measurement										
STORET No. 00095 6 Mon.Site No. WIM-4	Permit Requirement						REPORT (Max.)	µmhos/cm		Quarterly	Meter
CBOD5	Sample Measurement										
STORET No. 80082 5 Mon.Site No. WIM-1	Permit Requirement						REPORT (Max.)	mg/L		Quarterly	Grab
CBOD5	Sample Measurement										
STORET No. 80082 6 Mon.Site No. WIM-4	Permit Requirement						REPORT (Max.)	mg/L		Quarterly	Grab
TSS	Sample Measurement										
STORET No. 00530 5 Mon.Site No. WIM-1	Permit Requirement						REPORT (Max.)	mg/L		Quarterly	Grab
TSS	Sample Measurement										
STORET No. 00530 6 Mon.Site No. WIM-4	Permit Requirement						REPORT (Max.)	mg/L		Quarterly	Grab
Phosphorous, Total	Sample Measurement										
STORET No. 00665 5 Mon.Site No. WIM-1	Permit Requirement						REPORT (Max.)	mg/L		Quarterly	Grab
Phosphorous, Total	Sample Measurement										
STORET No. 00665 6 Mon.Site No. WIM-4	Permit Requirement						REPORT (Max.)	mg/L		Quarterly	Grab
Total Kjeldahl Nitrogen, as N	Sample Measurement										
STORET No. 00625 5 Mon.Site No. WIM-1	Permit Requirement						REPORT (Max.)	mg/L as N		Quarterly	Grab
Total Kjeldahl Nitrogen, as N	Sample Measurement										
STORET No. 00625 6 Mon.Site No. WIM-4	Permit Requirement						REPORT (Max.)	mg/L as N		Quarterly	Grab
Ammonia, Total as N	Sample Measurement										
STORET No. 00610 5 Mon.Site No. WIM-1	Permit Requirement						REPORT (Max.)	mg/L as N		Quarterly	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY NAME: Blacks Ford Regional WWTF PERMIT NUMBER: FL0174441 DISCHARGE POINT NUMBER: D001

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrite + Nitrate, as N	Sample Measurement										
STORET No. 00630 5 Mon.Site No. WIM-1	Permit Requirement						REPORT (Max.)	mg/L as N		Quarterly	Grab
Nitrite + Nitrate, as N	Sample Measurement										
STORET No. 00630 6 Mon.Site No. WIM-4	Permit Requirement						REPORT (Max.)	mg/L as N		Quarterly	Grab
Sulfate, as S	Sample Measurement										
STORET No. 00945 5 Mon.Site No. WIM-1	Permit Requirement						REPORT (Max.)	mg/L as S		Quarterly	Grab
Sulfate, as S	Sample Measurement										
STORET No. 00945 6 Mon.Site No. WIM-4	Permit Requirement						REPORT (Max.)	mg/L as S		Quarterly	Grab
Sulfide, as S	Sample Measurement										
STORET No. 00745 5 Mon.Site No. WIM-1	Permit Requirement						REPORT (Max.)	mg/L as S		Annually	Grab
Sulfide, as S	Sample Measurement										
STORET No. 00745 6 Mon.Site No. WIM-4	Permit Requirement						REPORT (Max.)	mg/L as S		Annually	Grab
Fecal Coliform Bacteria	Sample Measurement										
STORET No. 31615 5 Mon.Site No. WIM-1	Permit Requirement						REPORT (Max.)	#/100mL		Quarterly	Grab
Fecal Coliform Bacteria	Sample Measurement										
STORET No. 31615 6 Mon.Site No. WIM-4	Permit Requirement						REPORT (Max.)	#/100mL		Quarterly	Grab
Chlorophyll a	Sample Measurement										
STORET No. 32230 5 Mon.Site No. WIM-1	Permit Requirement						REPORT (Max.)	mg/cubic meter		Quarterly	Grab
Chlorophyll a	Sample Measurement										
STORET No. 32230 6 Mon.Site No. WIM-4	Permit Requirement						REPORT (Max.)	mg/cubic meter		Quarterly	Grab
Wetland Stage	Sample Measurement										
STORET No. 34782 6 Mon.Site No. WIM-4	Permit Requirement				REPORT (Min.)		REPORT (Max.)	feet		Continuous	Recorder

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

FACILITY: Blacks Ford Regional WWTF
LOCATION: southeast of Fruit Cove

COUNTY: St.Johns

PERMIT NUMBER: FL0174441
MONITORING PERIOD From: To:
LIMIT: FINAL REPORT: Toxicity
CLASS SIZE: Major GROUP: Domestic
FACILITY ID: FL0174441
GMS ID NO.: 3155P06559 GMS TEST SITE NO.: 3155X14961
DISCHARGE POINT NUMBER: D001
PLANT SIZE/TREATMENT TYPE: IC

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
LC50 STATRE 96HOUR ACUTE C. DUBIA (ROUTINE) STORET No. TAN3B P Mon.Site No. EFF-1	Sample Measurement										
	Permit Requirement				100 (Min)			percent		ONCE/ 2 MONTHS	4 GRABS / 24 HOURS
LC50 STATRE 96HOUR ACUTE C. DUBIA (DEFINITIVE)* STORET No. TAN3B Q Mon.Site No. EFF-1	Sample Measurement										
	Permit Requirement				100 (Min)			percent		AS NEEDED	4 GRABS / 24 HOURS
LC50 STATRE 96HOUR ACUTE C. DUBIA (DEFINITIVE)* STORET No. TAN3B R Mon.Site No. EFF-1	Sample Measurement										
	Permit Requirement				100 (Min)			percent		AS NEEDED	4 GRABS / 24 HOURS
LC50 STATRE 96HOUR ACUTE C. DUBIA (DEFINITIVE)* STORET No. TAN3B S Mon.Site No. EFF-1	Sample Measurement										
	Permit Requirement				100 (Min)			percent		AS NEEDED	4 GRABS / 24 HOURS
LC50 STATRE 96HOUR ACUTE C. LEEDSI (ROUTINE) STORET No. TAN6H P Mon.Site No. EFF-1	Sample Measurement										
	Permit Requirement				100 (Min)			percent		ONCE/ 2 MONTHS	4 GRABS / 24 HOURS
LC50 STATRE 96HOUR ACUTE C. LEEDSI (DEFINITIVE)* STORET No. TAN6H Q Mon.Site No. EFF-1	Sample Measurement										
	Permit Requirement				100 (Min)			percent		AS NEEDED	4 GRABS / 24 HOUR
LC50 STATRE 96HOUR ACUTE C. LEEDSI (DEFINITIVE)* STORET No. TAN6H R Mon.Site No. EFF-1	Sample Measurement										
	Permit Requirement				100 (Min)			percent		AS NEEDED	4 GRABS / 24 HOURS
LC50 STATRE 96HOUR ACUTE C. LEEDSI (DEFINITIVE)* STORET No. TAN6H S Mon.Site No. EFF-1	Sample Measurement										
	Permit Requirement				100 (Min)			percent		AS NEEDED	4 GRABS / 24 HOURS

*IF MORE DEFINITIVE TESTS ARE REQUIRED, ATTACH THE RESULTS. **ENTER NODI=9 IN THE RESULTS COLUMN IF NO DISCHARGE OCCURRED DURING THIS REPORTING PERIOD. ENTER NODI=9 IN THE RESULTS COLUMN IF NO DEFINITIVE TESTS ARE REQUIRED.

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):

DAILY SAMPLE RESULTS - PART B

Facility ID: FL0174441
Month/Year: _____

Three-month Average Daily Flow: _____
Daily Flow % of Permitted Capacity: _____

	Flow (mgd)	CBOD5 (mg/L)	TSS (mg/L)	Fecal Coliform Bacteria (#/100 mL)	pH, min (s.u.)	pH, max (s.u.)	Total Nitrogen (mg/L)	Ammonia, Total (mg/L as N)	Total Phosphorous (mg/L as P)	Wetland Stage (max)	CBOD5 (mg/L)	TSS (mg/L)
STORET	50050	80082	00530	31615	50060	50060	00600	00610	00665	00612	80082	00530
Mon. Site	PPI-1	EFF-1	EFF-1	EFF-1	EFF-1	EFF-1	EFF-1	EFF-1	EFF-1	WIM-4	INF-1	INF-1
1												
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PLANT STAFFING:

Day Shift Operator	Class: _____	Certificate _____	Name: _____		
Evening Shift Operator	Class: _____	Certificate _____	Name: _____		
Night Shift Operator	Class: _____	Certificate _____	Name: _____		
Lead Operator	Class: _____	Certificate _____	Name: _____		

of Effluent Disposal or Reclaimed _____

...ed Wet Weather Discharge Activated: Yes: No: Not Applicable: If yes, cumulative days of wet weather _____

*Attach additional sheets if necessary to list all certified operators.

Department of
Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

RECEIVED
MAR 3 - 2000
UNITED WATER FLORIDA

Feb 11 pm
cc Tom
Tom a

March 23, 2000

CERTIFIED MAIL -- RETURN RECEIPT

In the Matter of an Application
for Permit by:

Gary Mosley, P.E.
Vice President
United Water Florida
1400 Millcoe Road
Jacksonville, Florida 32225

DEP File No. FL0023621-001/DW1/MR
St. Johns County
Holly Oaks WWTF

NOTICE OF PERMIT REVISION

This is a revision to part II of Permit Number FL0023621 to modify the approved residuals land application sites, issued under section(s) 403 of the Florida Statutes. All other portions of the permit remain in effect and are fully enforceable. Attach this revision to the permit as it becomes a permanent part thereof. Specific condition II.B.7 is revised as follows:

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 facilities 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. Current Agricultural Use Plan(s) identify residuals landspreading on the following sites:

		Site Location	
Site Name	Application Area (Acres)	City	County
Cope Farm	134.4	Jacksonville	Duval
Higgenbotham	263	Jacksonville	Duval
Kennedy	150	Jacksonville	Duval
Wainwright Ranch	10	Starke	Bradford
Williams Ranch (BJ Bar)	10	Hawthorne	Putnam

The Department's proposed agency action shall become final unless a timely petition for an administrative hearing is filed under sections 120.569 and 120.57 of the Florida Statutes before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57

of the Florida Statutes. The petition must contain the information set forth below and must be filed (received by the clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000.

Petitions by the applicant or any of the parties listed below must be filed within fourteen days of receipt of this written notice. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the public notice or receipt of the written notice, whichever occurs first.

Under section 120.60(3) of the Florida Statutes, however, any person who has asked the Department for notice of agency action may file a petition within fourteen days of receipt of such notice, regardless of the date of publication.

The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition or request for mediation 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 (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

(a) The name, address, and telephone number of each petitioner; the name, address, and telephone number of the petitioner's representative, if any; each the Department case or identification number and the county in which the subject matter or activity is located;
(b) A statement of when and how each petitioner received notice of the Department action;
(c) A statement of how each petitioner's substantial interests are affected by the Department action;
(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
(e) A statement of facts that the petitioner contends warrant reversal or modification of the Department action;
(f) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief; and
(g) Demand for relief (sought by the petitioner, stating precisely the action that the petitioner wants the Department to take).

A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise contain the same information as set forth above, as required by rule 28-106.301.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of

the Department have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

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

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

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

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

JMO:kp

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 30, 2000 to the listed persons.

Copies furnished to: H&H LSD

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 3/30/00
Date

Department of Environmental Protection

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

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;

(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

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, receipt of which is hereby acknowledged.

Clerk 8/29/97

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 I.D. 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:

			Effluent Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	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_2+NO_3, 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_4	mg/L as PO_4	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.									

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:

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

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. 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:

   #1 Approximately 50 feet northwest of the confluence of Cowhead Creek and Mill Cove
   #2 Approximately 300 feet southwest of the confluence of Cowhead Creek and Mill Cove and 50 feet from the shore
   #3 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, $CBOD_5$, NH_3-N, TKN, NO_2-N + NO_3-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]*

5. The permittee shall provide safe access points for obtaining representative influent, reclaimed water, and effluent samples which are required by this permit. *[62-601.500(5), 5-31-93]*

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), 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]

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)
$CBOD_5$	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:

a) results greater than or equal to the PQL shall be reported as the measured quantity.

b) 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.

c) 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

1. 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

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

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.

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

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

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]*

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]

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]

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.

[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 (RESD)
    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]*

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]*

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 62-601, 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]*

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.

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;

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

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, receipt of which is hereby acknowledged.

Clerk 8/29/97

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.
$CBOD_5$, 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			
$CBOD_5$, 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
$CBOD_5$	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:

Chapter	Effective Date
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
$CBOD_5$ (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 $CBOD_5$ limits, the UOD limit will not be exceeded. The ammonia and $CBOD_5$ limits were calculated based on the UOD limit.

b. Percent removal requirements for $CBOD_5$ were not included because they apply only to technology based effluent limitations (TBELs). The $CBOD_5$ 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
Copc 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			
$CBOD_5$, 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 leedsi.

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 officers 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	PERMIT NUMBER:	FL0023621		
MAILING ADDRESS:	1400 Millcoe Road	MONITORING PERIOD : From:		To:	
	Jacksonville , FL 32225	LIMIT:	FINAL	REPORT:	Monthly
		CLASS SIZE:	Major	GROUP:	Domestic
FACILITY:	Holly Oaks WWTF	FACILITY ID:	FL0023621	WAFR SITE NO.:	9100
LOCATION:	10797 Fort Caroline Road	GMS ID NO.:	3116P00901	GMS TEST SITE NO.:	3116X12395
	Jacksonville, FL 32225	DISCHARGE POINT NUMBER:	D001		
COUNTY:	Duval	PLANT SIZE/TREATMENT TYPE:	IIB		

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 Y Mon.Site No. EFF-1	Permit Requirement	1.0 (Ann. Avg.)		MGD						Continuous	Meter / Totalizer
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	Sample Measurement										
STORET No. 50050 1 Mon Site No. EFF-1	Permit Requirement	REPORT (Mo. Avg.)		MGD						Continuous	Meter / Totalizer
Fecal Coliform Bacteria	Sample Measurement										
STORET No. 31616 Y Mon.Site No. EFF-1	Permit Requirement				200 (An.Avg.)			#/100mL		Weekly	Grab
Fecal Coliform Bacteria	Sample Measurement										
STORET No. 31616 1 Mon.Site No. EFF-1	Permit Requirement				Report (Mo.Geo.Mean)		800 (Max.)	#/100mL		Weekly	Grab
Ammonia, Total as N	Sample Measurement										
STORET No. 00610 Y Mon.Site No. EFF-1	Permit Requirement				2.0 (Ann. Avg.)			mg/L as N		Weekly	16-hour FPC
Ammonia, Total as N	Sample Measurement										
STORET No. 00610 1 Mon.Site No. EFF-1	Permit Requirement				2.5 (Mo. Avg.)		4.0 (Max.)	mg/L as N		Weekly	16-hour FPC

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 nformation 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 Y Mon.Site No. EFF-1	Permit Requirement				20 (An.Avg.)			mg/L		Weekly	16-hour FPC
TSS	Sample Measurement										
STORET No. 00530 1 Mon.Site No. EFF-1	Permit Requirement				30 (Mo.Avg.)		60 (Max.)	mg/L		Weekly	16-hour FPC
CBOD5	Sample Measurement										
STORET No. 80082 Y Mon.Site No. EFF-1	Permit Requirement				6.0 (An.Avg.)			mg/L		Weekly	16-hour FPC
CBOD5	Sample Measurement										
STORET No. 80082 1 Mon.Site No. EFF-1	Permit Requirement				7.5 (Mo.Avg.)		12.0 (Max.)	mg/L		Weekly	16-hour FPC
pH	Sample Measurement										
STORET No. 00400 1 Mon.Site No. EFF-1	Permit Requirement					6.0 (Min.)	8.5 (Max.)	S.U.		Continuous	On line pH meter or hourly grab.
TSS	Sample Measurement										
STORET No. 00530 G Mon.Site No. INF-1	Permit Requirement				Report (Mo.Avg.)			mg/L		Weekly	16-hour FPC
CBOD5	Sample Measurement										
STORET No. 80082 G Mon.Site No. INF-1	Permit Requirement				Report (Mo.Avg.)			mg/L		Weekly	16-hour FPC
Organic Nitrogen, as N	Sample Measurement										
STORET No. 00605 1 Mon.Site No. EFF-1	Permit Requirement				Report (Mo.Avg.)			mg/L		Weekly	16-hour FPC

G = Influent, 1= 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

PERMITTEE NAME:	United Water Florida	PERMIT NUMBER:	FL0023621		
MAILING ADDRESS:	1400 Millcoe Road Jacksonville, FL 32225	MONITORING PERIOD : From:		To:	
		LIMIT:	Final	REPORT:	Quarterly
		CLASS SIZE:	Major	GROUP:	Domestic
FACILITY:	Holly Oaks WWTF	FACILITY ID:	FL0023621	WAFR SITE NO.:	9100
LOCATION:	10797 Fort Caroline Road Jacksonville, FL 32225	GMS ID NO.:	3116P00901	GMS TEST SITE NO.:	3116X12395
		DISCHARGE POINT NUMBER:	D001		
COUNTY:	Duval	PLANT SIZE/TREATMENT TYPE:	IIB		

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 1 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 1 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 1 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 1 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 Complete... ...l 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

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

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

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. TPB6B 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. TPB6B 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. TPB6B 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. TPB6B 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.

Jeb Bush
Governor

Department of Environmental Protection

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

David B. Struhs
Secretary

RECEIVED
MAR 2 6 2000
UNITED WATER FLORIDA

March 14, 2000

CERTIFIED MAIL- RETURN RECEIPT

In the Matter of an
Application for Permit by:

United Water Florida
Mr. Gary Moseley, Vice President
1400 Millcoe Road
Jacksonville, FL 32225

PA File No. FL0023671-001-DW1P
Duval County
Jacksonville Heights WWTF
FL0023671

NOTICE OF PERMIT ISSUANCE

Enclosed is Permit Number FL0023671 to operate an existing 2.5 mgd annual average daily flow (AADF) permitted capacity conventional activated sludge wastewater treatment plant consisting of influent screening, a 10 foot diameter grit removal unit, two aeration tanks with a total volume of 806,100 gallons, two secondary clarifiers with a total surface area of 4,240 square feet, one traveling-bridge sand filter with a surface area of 80 square feet, and an ultraviolet disinfection system consisting of five modules with 40 lamps each. Residuals are aerobically digested to meet Class B stabilization requirements in two digesters operated in parallel with a volume of 383,200 gallons and then land applied. Effluent is discharged from an existing 2.5 mgd AADF permitted outfall to a stormwater canal to Fishing Creek (Class III fresh waters) to Ortega River to the St. Johns River. The point of discharge is located approximately at latitude 30° 14' 15" N, longitude 81° 45' 05" W.

This permit is issued under section(s) 62-4, 62-302, 62-600, 62-601, 62-620, 62-640, 62-650, and 62-699 of the Florida Administrative Code (FAC) and Chapter 403 of the Florida Statutes.

A person whose substantial interests are affected by the proposed permitting decision of the Department 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 of Environmental Protection, Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, 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 name, address, and telephone number of the petitioner's representative, if any; the Department 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 action;
(c) A statement of how each petitioner's substantial interests are affected by the Department action;
(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
(e) A statement of facts that the petitioner contends warrant reversal or modification of the Department action;
(f) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief; and
(g) 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 final action of the Department 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 action or proposed action. The agreement must be filed in (received by) the Department of Environmental Protection, Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, 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.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Terry 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 3/17 ,2000 to the listed persons.

Copies furnished to:
Gordon Grimes, P.E.
City of Jacksonville RESD, AWQD
Roosevelt Childress – EPA, Region IV
Elsa Potts, FDEP, Tallahassee

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.
Roxanne Smith 3/17/00

Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

STATE OF FLORIDA
DOMESTIC WASTEWATER FACILITY PERMIT

PERMITTEE:

United Water Florida

PERMIT NUMBER: FL0023671 (Major)
PA FILE NUMBER: FL0023671-001-DW1P
ISSUANCE DATE: March 14, 2000
EXPIRATION DATE: March 13, 2005

RESPONSIBLE AUTHORITY:

Mr. Gary R Moseley
Vice President
1400 Millcoe Road
Jacksonville, FL 32225
(904) 721-4600

FACILITY:

Jacksonville Heights WWTF
5957 Tampico Road
Jacksonville, FL 32244
Duval County
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 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:

An existing 2.5 mgd annual average daily flow (AADF) permitted capacity conventional activated sludge wastewater treatment plant consisting of influent screening, a 10 foot diameter grit removal unit, two aeration tanks with a total volume of 806,100 gallons, two secondary clarifiers with a total surface area of 4,240 square feet, one traveling-bridge sand filter with a surface area of 80 square feet, and an ultraviolet disinfection system consisting of five modules with 40 lamps each. Residuals are aerobically digested to meet Class B stabilization requirements in two digesters operated in parallel with a volume of 383,200 gallons and then land applied.

EFFLUENT DISPOSAL:

Surface Water Discharge: An existing 2.5 mgd AADF permitted discharge to a stormwater canal to Fishing Creek (Class III fresh waters) to Ortega River to St. Johns River at Discharge Location D-001. The point of discharge is located approximately at latitude 30° 14' 15" N, longitude 81° 45' 05" W.

IN ACCORDANCE WITH: The limitations, monitoring requirements and other conditions set forth in Pages 1 through 21 of this permit.

PERMITTEE: United Water Florida

FACILITY: Jacksonville Heights WWTF

PERMIT NUMBER: FL0023671
ISSUE DATE: March 14, 2000
EXPIRATION DATE: March 13, 2005
PROJECT NO.: 001

I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Surface Water Discharges

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 D-001 to a stormwater canal to Fishing Creek to Ortega River to St. Johns River. Such discharge shall be limited and monitored by the permittee as specified below:

			Effluent Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow	mgd	Maximum	2.5	-	-	-	Continuous	Recording flow meters and totalizers	EFF-1	See Cond.I.A.4
BOD, Carbonaceous 5 day, 20C	mg/l	Maximum	8.0	8.0	12.0	16.0	Weekly	16-hour flow proportioned composite	EFF-1	
Solids, Total Suspended	mg/l	Maximum	20.0	20.0	45.0	60.0	Weekly	16-hour flow proportioned composite	EFF-1	
pH	s.u.	Range	-	-	-	6.0 to 8.5	Continuous	Meter	EFF-1	See Cond.I.A.3
Coliform, Fecal	See Permit Condition I.A.5.						Weekly	Grab	EFF-1	
Nitrogen, Ammonia, Total (as N)	mg/l	Maximum	1.6	2.0	2.4	3.2	Weekly	Grab	EFF-1	
Nitrogen, Ammonia, Total unionized (as NH_3)	mg/l	Maximum	-	-	-	0.02	Weekly	Calculated	EFF-1	See Cond.I.A.8.
Oxygen, Dissolved (DO)	mg/l	Minimum	-	-	-	6.0	Daily	Grab	EFF-1	
Nitrogen, Total (as N)	mg/l	Maximum	-	-	-	Report	Quarterly	16-hour flow proportioned composite	EFF-1	
Nitrogen, Organic, Total (as N)	mg/l	Maximum	-	-	-	Report	Quarterly	16-hour flow proportioned composite	EFF-1	
Nitrogen, Kjeldahl, Total (as N)	mg/l	Maximum	-	-	-	Report	Quarterly	16-hour flow proportioned composite	EFF-1	
Nitrite plus Nitrate, Total. (as N)	mg/l	Maximum	-	-	-	Report	Quarterly	16-hour flow proportioned composite	EFF-1	
Phosphorus, Total (as P)	mg/l	Maximum	-	-	-	Report	Quarterly	16-hour flow proportioned composite	EFF-1	

MITTEE: United Water Florida

FACILITY: Jacksonville Heights WWTF

PERMIT NUMBER: FL0023671
ISSUE DATE: March 14, 2000
EXPIRATION DATE: March 13, 2005
PROJECT NO.: 001

			Effluent Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Phosphate, Ortho (as P)	mg/l	Maximum	-	-	-	Report	Quarterly	Grab – Filtered	EFF-1	
Chronic Whole Effluent Toxicity	See Permit Condition I.A.6								-	
Stream Monitoring	See Permit Condition I.A.7								-	

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	Effluent after final treatment prior to discharge

3. Hourly measurement of pH during the period of required operator attendance may be substituted for continuous measurement. *[Chapter 62-601, Figure 2, Footnotes 1 and 2, 12-24-96]*

4. Recording flow meters and totalizers shall be utilized to measure flow and calibrated at least annually. *[62-601.200(17) and .500(6), 12-24-96]*

5. The ultraviolet disinfection system shall always be operated and maintained to achieve basic disinfection. 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 (the 90th percentile value) 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. Note: To report the 90th percentile value, list the fecal coliform values obtained during the month in ascending order. Report the value of the sample that corresponds to the 90th percentile (multiply the number of samples by 0.9). For example, for 30 samples, report the corresponding fecal coliform number for the 27th value of ascending order. *[62-600.440(4)(c), 12-24-96]*

6. The permittee shall initiate the series of tests described below beginning no later than September 4, 2000 to evaluate whole effluent toxicity of the discharge from outfall D-001. 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. The control and dilution water will be moderately hard water as described in EPA/600/4-91/002, Table 3, or the most current edition. A standard reference toxicant (SRT) quality assurance (QA) chronic 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). Any deviation from the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use.

   a. 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) and one test concentration of **33%** effluent.

   2. 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/600/4-91/002, Section 8, or the most current edition. Two additional composite samples shall be collected according to the protocol and used as renewal solutions on Day 3 (48 hours) and Day 5 (96 hours) of the test.

   3. If control mortality exceeds 20% for either species in any test, the test 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 separate 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, each test must

meet the acceptability criteria for the test species as defined in EPA/600/4-91/002 Section 13.11 and Section 11.11, respectively, or the most current edition.

b. 1. The toxicity tests specified above shall be conducted once every six-months for the duration of this permit.

2. 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:

Florida Department of Environmental Protection
Northeast District Office
7825 Baymeadows Way, Suite B200
Jacksonville, Florida 32256-7590

Additionally, all results shall be recorded and submitted on the Discharge Monitoring Report (DMR) in the following manner:

If the NOEC of a test species is less than 33% effluent, "<33%" should be entered on the DMR for that species. If the NOEC of a test species is greater than or equal to 33% effluent, ">33%" should be entered.

c. 1. An NOEC of less than 33% effluent in any "routine" or additional definitive test will be a violation of these permit conditions and Rule 62-302.530(62), F. A. C.

2. If an NOEC of less than 33% effluent is found in a "routine" test, the permittee shall conduct three additional tests on each species indicating the violation.

3. The first additional test shall be conducted using a control (0% effluent) and a minimum of five dilutions: 100%, 50%, 33%, 12.5% and 6.25% 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 concentration and a control (0% effluent) are run. All test results shall be statistically analyzed according to the Appendices in EPA/600/4-91/002, or the most current edition.

4. For each additional test, the sample collection requirements and the test acceptability criteria specified in section a. 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 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.

5. Results from additional tests, required due to a chronic toxicity violation in the "routine" tests, shall be submitted in a single report prepared according to EPA/600/4-91/002, Section 10, or the most current edition, and submitted within 45 days of completion of the third additional, valid test. Upon the completion of the third additional test, the permittee will meet with the Department within 30 days of the report submittal to identify corrective actions necessary to remedy the observed chronic toxicity.

7. No later than 90 days following the issuance date of the permit, the permittee shall conduct a water quality monitoring program for Fishing Creek. Water samples shall be taken at the following sites indicated on the attached map (attachment "A" to the permit):

- Sampling location 1: Approximately 50 yards upstream of the point of discharge into Fishing Creek.

- Sampling location 1: Approximately 50 yards upstream of the point of discharge into Fishing Creek.
- Sampling location 2: Approximately 0.25 mile downstream of the point of discharge into Fishing Creek.
- Sampling location 3: Fishing Creek at the intersection with Wesconnett Boulevard.

Water samples shall be taken at all sites on the same day at mid-stream depth. The following parameters shall be sampled: $CBOD_5$, total nitrogen, total ammonia, TKN, total phosphorous, ortho-phosphate, fecal coliform bacteria, total coliform bacteria, pH, dissolved oxygen, and temperature. Sample analyses shall be conducted by a laboratory with an approved quality assurance/quality control program. Test results shall be submitted to the Department's Domestic Wastewater Section at the address specified in condition I.B.7. The results shall be submitted on the stationery of the testing laboratory no later than 60 days following the sample date. Water quality monitoring shall be conducted no less than once every 90 days.

8. The pH and temperature of the effluent shall be taken at the time of the total ammonia sample collection. The un-ionized ammonia fraction shall be calculated based on the total ammonia, pH, and temperature in accordance with the table in attachment B.

9. The facility shall provide Ultraviolet, basic disinfection. Daily record keeping, routine cleaning and daily system checks shall be performed.

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:

			Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
BOD, Carbonaceous 5 day, 20C	mg/l	Maximum	-	Report	-	-	Weekly	16-hour flow proportioned composite	INF-1	See Cond.I.B.3
Solids, Total Suspended	mg/l	Maximum	-	Report	-	-	Weekly	16-hour flow proportioned composite	INF-1	See Cond.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 prior to biological treatment

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), 12-24-96]*

4. 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. Parameters which must be monitored as a result of a ground water discharge (i.e., underground injection or land application system) shall be analyzed in accordance with Chapter 62-601, F.A.C. *[62-620.610(18), 12-24-96]*

5. The permittee shall provide safe access points for obtaining representative influent, reclaimed water, and effluent samples which are required by this permit. *[62-601.500(5), 12-24-96]*

6. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified on the DMR forms attached to this permit. DMRs shall be submitted for each required monitoring period including months of no discharge. 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 Management Section, Mail Station 3551
   Twin Towers Office Building
   2600 Blair Stone Road
   Tallahassee, Florida 32399-2400

   [62-620.610(18), 12-24-96][62-601.300(1),(2), and (3), 12-24-96]

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 Northeast District Office at the address specified below:

   Florida Department of Environmental Protection
   Northeast District Office
   7825 Baymeadows Way Suite B200
   Jacksonville, Florida 32256-7590

   Phone Number - (904) 448-4330
   FAX Number - (904) 448-4366
   All FAX copies shall be followed by original copies.

II. RESIDUALS MANAGEMENT REQUIREMENTS

1. The method of residuals use or disposal by this facility is land application or disposal in a Class I or II solid waste landfill.

2. The permittee shall be responsible for proper treatment, management, use, and land application or disposal of its residuals. *[62-640.300(5), 3-30-98]*

3. The permittee will not be held responsible for violations resulting from land application of residuals if the permittee can demonstrate that it has delivered residuals that meet the parameter concentrations and appropriate treatment requirements of this rule and the applier (e.g. hauler, contractor, site manager, or site owner) has legally agreed in writing to accept responsibility for proper land application of the residuals. Such an agreement shall state that the applier agrees, upon delivery of residuals that have been treated as required by Chapter 62-640, F.A.C., that he will accept responsibility for proper land application of the residuals as required by Chapter 62-640, F.A.C., and that the applier agrees that he is aware of and will comply with requirements for proper land application as described in the facility's permit.
[62-640.300(5), 3-30-98]

4. Disposal of residuals, septage, and other solids in a solid waste landfill, or disposal by placement on land for purposes other than soil conditioning or fertilization, such as at a monofill, surface impoundment, waste pile, or dedicated site, shall be in accordance with Chapter 62-701, F.A.C. *[62-640.100(6)(k)3 & 4, 3-30-98]*

5. Land application of residuals shall be in accordance with the conditions of this permit, the approved Agricultural Use Plan(s), and the requirements of Chapter 62-640, F.A.C. *[62-640, 3-30-98]*

6. The domestic wastewater residuals for this facility are classified as Class B.

7. The permittee shall achieve Class B pathogen reduction by meeting the pathogen reduction requirements in section 503.32(b)(2) (Monitoring of Indicator Organisms) of Title 40 CFR Part 503, revised as of October 25, 1995. *[62-640.600(1)(b), 3-30-98]*

8. The permittee shall achieve vector attraction reduction by meeting the vector attraction reduction requirements in section 503.33(b)(10) (Incorporate biosolids applied to or placed on the land surface within specified time periods after application to or placement on the land surface), of Title 40 CFR Part 503, revised as of October 25, 1995. *[62-640.600(2)(a), 3-30-98]*

9. Treatment of liquid residuals or septage for the purpose of meeting the pathogen reduction or vector attraction reduction requirements set forth in Rule 62-640.600, F.A.C., shall not be conducted in the tank of a hauling vehicle. Treatment of residuals or septage for the purpose of meeting pathogen reduction or vector attraction reduction requirements shall take place at the permitted facility. *[62-640.400(8), 3-30-98]*

10. The permittee shall sample and analyze the Class B residuals to monitor for pathogen and vector attraction reduction requirements of Rule 62-640.600, F.A.C., and the parameters listed in the table below at least once every twelve (12) months.

Parameter	Ceiling Concentrations (Single Sample)	Cumulative Application Limits
Total Nitrogen	(Report only) % dry weight	Not applicable
Total Phosphorus	(Report only) % dry weight	Not applicable
Total Potassium	(Report only) % dry weight	Not applicable
Arsenic	75 mg/kg dry weight	36.6 pounds/acre
Cadmium	85 mg/kg dry weight	34.8 pounds /acre
Copper	4300 mg/kg dry weight	1340 pounds/acre
Lead	840 mg/kg dry weight	268 pounds/acre
Mercury	57 mg/kg dry weight	15.2 pounds/acre
Molybdenum	75 mg/kg dry weight	Not applicable
Nickel	420 mg/kg dry weight	375 pounds/acre
Selenium	100 mg/kg dry weight	89.3 pounds/acre
Zinc	7500 mg/kg dry weight	2500 pounds/acre
pH	(Report only) standard units	Not applicable
Total Solids	(Report only) %	Not applicable

(62-640.650(1), 62-640.700(1), 62-640.700(3)(b), and 62-640.850(3), 3-30-98)

11. Sampling and analysis shall be conducted in accordance with Title 40 CFR Part 503, section 503.8 and the U.S. Environmental Protection Agency publication - POTW Sludge Sampling and Analysis Guidance Document, 1989. In cases where disagreements exist between Title 40 CFR Part 503, section 503.8 and the POTW Sludge Sampling and Analysis Guidance Document, the requirements in Title 40 CFR Part 503, section 503.8 will apply. *(62-640.650(1), 62-640.700(1), 62-640.700(3)(b), and 62-640.850(3), 3-30-98)*

12. Grab samples shall be used for pathogens and determinations of percent volatile solids. Composite samples shall be used for metals. *[62-640.650(1)(e), 3-30-98]*

13. Residuals shall not be land applied if a single sample result for any parameter exceeds the ceiling concentrations given in this permit. Residuals shall not be distributed and marketed if the monthly average of sample results for any parameter exceeds the Class AA parameter concentrations given in this permit. Monthly averages of parameter concentrations shall be determined by taking the arithmetic mean of all sample results for the month. *[62-640.650(1)(f), 3-30-98]*

14. The permittee shall submit the results of all residuals monitoring with the permittee's Discharge Monitoring Report under Chapter 62-601, F.A.C. The analytical results from each sampling event

shall be submitted with the report for the month in which the sampling event occurs. Copies of all applicable analytical reports shall be submitted with the monitoring results. *[62-640.650(3)(a)&(e), 3-30-98]*

15. Class B residuals shall not be used on unrestricted public access areas. Use of Class B residuals is limited to restricted public access areas such as agricultural sites, forests, and roadway shoulders and medians. *[62-640.600(3)(b), 3-30-98]*

16. Plant nursery use of Class B residuals is limited to plants which will not be sold to the public for 12 months after the last application of residuals. *[62-640.600(3)(b)1., 3-30-98]*

17. Use of Class B residuals on roadway shoulders and medians is limited to restricted public access roads. *[62-640.600(3)(b)2., 3-30-98]*

18. Food crops, feed crops, and fiber crops shall not be harvested for 30 days following the last application of Class B residuals. *[62-640.600(3)(b)6.,3-30-98]*

19. Food crops with harvested parts that touch the residuals/soil mixture and are totally above the land surface shall not be harvested for 14 months after the last application of Class B residuals. *[62-640.600(3)(b)3., 3-30-98]*

20. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of Class B residuals when the residuals remain on the land surface for four months or longer before incorporation into the soil. *[62-640.600(3)(b)4., 3-30-98]*

21. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of Class B residuals when the residuals remain on the land surface for less than four months before incorporation into the soil. *[62-640.600(3)(b)5., 3-30-98]*

22. Animals shall not be grazed on the land for 30 days after the last application of Class B residuals. *[62-640.600(3)(b)7., 3-30-98]*

23. Sod which will be distributed or sold to the public or used on unrestricted public access areas shall not be harvested for 12 months after the last application of Class B residuals. *[62-640.600(3)(b)8., 3-30-98]*

24. The public shall be restricted from application zones for 12 months after the last application of Class B residuals. *[62-640.600(3)(b), 3-30-98]*

25. Residuals that do not meet the requirements of Chapter 62-640, F.A.C., for Class AA designation shall not be used for the cultivation of tobacco or leafy vegetables. *[62-640.400(7), 3-30-98]*

26. Current Agricultural Use Plan(s) identify residuals landspreading on the following sites:

Site Name	Site Type (AG or LR)	Application Area (acres)	Site Location						
			County	Latitude			Longitude		
				DD	MM	SS	DD	MM	SS
Cope Farm	AG	134.4	Duval	30	23	15	81	51	34
Williams Ranch	AG	545.5	Putnam	29	32	55	82	00	04

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, unless all of the following conditions are met:

a) The permittee notifies the Department within 24 hours that the site is being used;
b) The site meets the site use restrictions of Rule 62-640.600(3), F.A.C, and the criteria for land application of residuals in Rule 62-640.700, F.A.C.;
c) The permittee submits a new or revised Agricultural Use Plan for the site with a permit application in accordance with Rule 62-640.300(2), F.A.C., within 30 days of beginning use of the site;
d) The permittee does not have another approved land application site, another approved disposal method (e.g. landfilling or incineration), or approved storage facilities available for use; and,
e) The permittee demonstrates during permit application that application of additional residuals to an existing approved application site would have resulted in violation of Department rules, or was not possible due to circumstances beyond the permittee's control.

[62-640.300(2)&(3), 3-30-98]

27. Residuals application rates are limited to agronomic rates based on the site vegetation as identified in the Agricultural Use Plan. *[62-640.750(2), 3-30-98]*

28. Residuals shall be applied with appropriate techniques and equipment to assure uniform application over the application zone. *[62-640.700(2)(c), 3-30-98]*

29. The spraying of liquid domestic wastewater residuals shall be conducted so that the formation of aerosols is minimized. *[62-640.700(2)(d), 3-30-98]*

30. Residuals storage facilities at land application sites shall be subject to applicable setback requirements for residuals application sites. Residuals stored at land application sites shall be stored in a manner that will not cause runoff or seepage from the residuals, objectionable odors, or vector attraction. Storage areas must be fenced or otherwise provided with appropriate features to discourage the entry of animals and unauthorized persons. At the time of application, the stored residuals must meet the parameter concentrations, pathogen and vector attraction reduction requirements, and cumulative application limits of this permit. Residuals storage facilities at land application sites may be used only for temporary storage of stabilized residuals for no more than 30 days during periods of inclement weather or to accommodate agricultural operations, or up to the period (not to exceed two years) specified in the Agricultural Use Plan. *[62-640.700(2)(e), 3-30-98]*

31. Residuals application sites shall be posted with appropriate advisory signs identifying the nature of the project area. *[62-640.700(2)(f), 3-30-98]*

32. The pH of the residuals soil mixture shall be 5.0 or greater at the time residuals are applied. At a minimum, soil pH testing shall be done annually. *[62-640.700(5)(d), 3-30-98]*

33. The permittee shall maintain records of application zones and application rates and shall make these records available for inspection within seven days of request by the Department, or delegated Local Program. The permittee shall maintain record items a. through e. below in perpetuity, and maintain record items f. through k. for five years:

a. Date of application of the residuals;
b. Location of the residuals application site as specified in the Agricultural Use Plan;
c. Identification of each application zone used by the permittee at the application site and the acreage of each zone;
d. Amount of residuals applied or delivered to each application zone;
e. Cumulative loading of each application zone;
f. The names of all other wastewater facilities using each of the application zones identified in item c.;
g. Method of incorporation (if any);
h. Measured pH of the residuals soil mixture at the time the residuals are applied (tested at least annually);
i. Unsaturated depth of soil above the water table level at the time of application;
j. Concentration of parameters in the residuals as required by this permit, and the date of last analysis; and
k. The results of any soil testing that is done under Rule 62-640.500(4)(a), F.A.C.

[62-640.650(2), 3-30-98]

34. The permittee shall submit an annual summary of residuals application activity to the Northeast District Office on Department Form 62-640.210(2)(b) for all residuals applied during the period of January 1 through December 31. The summary for each year shall be submitted by February 19 of the following year. If more than one facility applies residuals to the same application zones, the summary must include a subtotal of each facility's contribution of residuals to the application zones. *[62-640.650(3)(b), 3-30-98]*

35. If residuals that are subject to the cumulative loading limitations of Rule 62-640.700(3), F.A.C., have been applied to an application zone, and the cumulative loading amount of one or more of the pollutants is not known, no further applications of residuals may be made to that application zone. *[62-640.700(3)(f), 3-30-98]*

36. A minimum unsaturated soil depth of two feet above the water table level is required at the time the residuals are applied to the soil. *[62-640.700(6)(a), 3-30-98]*

37. Residuals shall not be applied during rains that cause runoff from the site or when surface soils are saturated. *[62-640.700(7)(a), 3-30-98]*

38. Land application of "other solids" as defined in Chapter 62-640, F.A.C., is only allowed if specifically addressed in the Agricultural Use Plan(s) approved for this facility. Land application of "other solids" is subject to Chapter 62-640, F.A.C., and the permit conditions that apply to land applied residuals. *[62-640.860, 3-30-98]*

39. If the permittee intends to accept residuals from other facilities, a permit revision is required pursuant to Rule 62-640.880(2)(d), F.A.C. *[62-640.880(2)(d), 3-30-98]*

40. Storage of residuals or other solids at the permitted facility shall require prior written notification to the Department. *[62-640.300(4), 3-30-98]*

III. GROUND WATER MONITORING REQUIREMENTS

Section III is not applicable to this facility.

IV. ADDITIONAL REUSE AND LAND APPLICATION REQUIREMENTS

Section IV is not applicable to this facility.

V. OPERATION AND MAINTENANCE REQUIREMENTS

1. During the period of operation authorized by this permit, the wastewater facilities shall be operated under the supervision of a(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. Reduced operator staffing is allowed for the facility because a supervisory control and data acquisition (SCADA) system is utilized that meets 62-699.311(3) FAC.

   [62-620.630(3), 12-24-96] [62-699.310, 5-20-92] [62-699.311, 5-20-92][62-610.462, 1-9-96]

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]*

3. The application to renew this permit shall include an updated capacity analysis report prepared in accordance with Rule 62-600.405, F.A.C. *[62-600.405(5), 12-24-96]*

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), 12-24-96]*

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.;

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, 12-24-96][61E12-41.010(1)(e), 11-02-93]

VI. SCHEDULES

Section VI is not applicable to this facility.

VII. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

This facility is not required to have a pretreatment program at this time. *[62-625.500, 1-8-97]*

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), 12-24-96]*

2. Florida water quality criteria and standards shall not be violated as a result of any discharge or land application of reclaimed water or residuals from this facility. *[62-620.320(9), 12-24-96 and 62-302.500(2)(e), 12-26-96][62-640.700(3)(c), 3-1-91]*

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. Additionally, the treatment, management, use or land application of residuals shall not cause a violation of the odor prohibition in Rule 62-296.320(2), F.A.C. *[62-600.410(8), 12-24-96 and 62-640.400(6), 3-30-98]*

4. 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), 12-26-96]*

5. Collection/transmission system overflows shall be reported to the Department in accordance with Permit Condition IX. 20. *[62-604.550, 12-26-96] [62-620.610(20), 12-24-96]*

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.

   [62-604.130(4), 12-26-96]

7. The treatment facility, storage ponds, rapid infiltration basins, and/or infiltration trenches shall be enclosed with a fence or otherwise provided with features to discourage the entry of animals and unauthorized persons. *[62-600.400(2)(b), 12-24-96]*

8. Disposal of screenings and grit from preliminary treatment components of wastewater treatment facilities, solids from sewer line cleaning operations, and solids from lift stations and pump stations shall be in accordance with Chapter 62-701, F.A.C. *[62-640.100(6)(k)8., 3-30-98 and 62-701.300(1)(a),4-23-97]*

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), 12-24-96]

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]

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), 12-24-96]*

11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. *[62-620.610(11), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]

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 (DOH) under Chapter 64E1, 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), 12-24-96]

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), 12-24-96]*

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.

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), 12-24-96]

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), 12-24-96]*

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), 12-24-96]

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), 12-24-96]

Executed in Jacksonville, Florida.

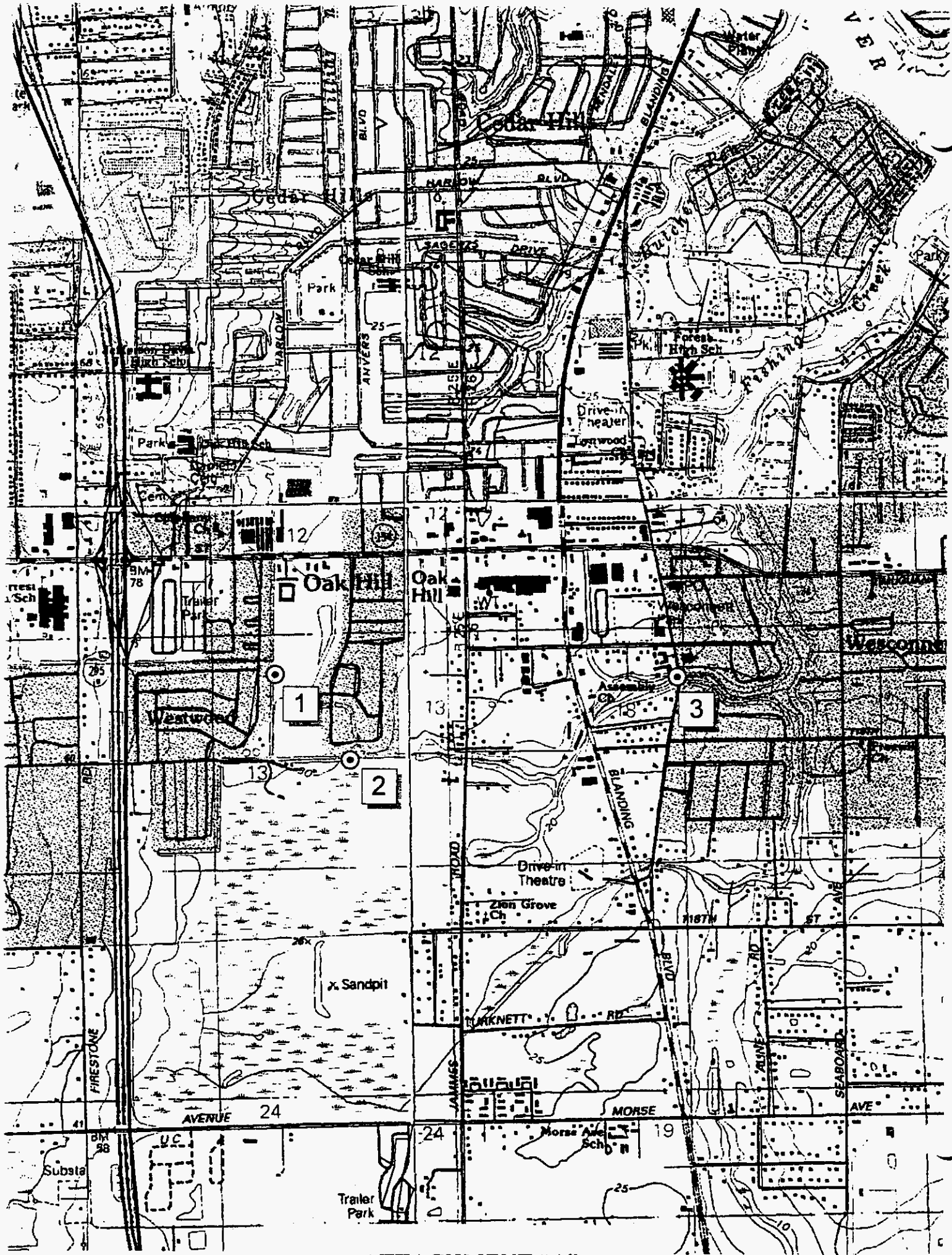
BPW
JMC

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

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

DATE: 3-17-00

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.
Roxanne Smith 3/17/00



ATTACHMENT "A"

Unionized Ammonia Table

- Grab Sample total ammonia
- temperature of effluent at time of sample
- pH of effluent

Multiply Total Ammonia (mg/l) by the value in the chart to get Un-ionized Ammonia (mg/l).

ENTER SALINITY: 0 ppt

I = 0 (This parameter will be zero if salinity can be neglected)

Temperature (centigrade) ---------->

pH	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5
6	0.00038	0.00040	0.00041	0.00043	0.00044	0.00046	0.00048	0.00050	0.00051	0.00053	0.00055	0.00057	0.00059	0.00062
6.1	0.00048	0.00050	0.00052	0.00054	0.00056	0.00058	0.00060	0.00062	0.00065	0.00067	0.00070	0.00072	0.00075	0.00078
6.2	0.00061	0.00063	0.00065	0.00068	0.00070	0.00073	0.00076	0.00079	0.00082	0.00085	0.00088	0.00091	0.00094	0.00098
6.3	0.00076	0.00079	0.00082	0.00086	0.00089	0.00092	0.00095	0.00099	0.00103	0.00106	0.00110	0.00114	0.00119	0.00123
6.4	0.00096	0.00100	0.00104	0.00108	0.00112	0.00116	0.00120	0.00125	0.00129	0.00134	0.00139	0.00144	0.00149	0.00155
6.5	0.00121	0.00126	0.00131	0.00135	0.00141	0.00146	0.00151	0.00157	0.00163	0.00169	0.00175	0.00181	0.00188	0.00195
6.6	0.00153	0.00158	0.00164	0.00170	0.00177	0.00183	0.00190	0.00197	0.00205	0.00212	0.00220	0.00228	0.00236	0.00245
6.7	0.00192	0.00199	0.00207	0.00215	0.00223	0.00231	0.00240	0.00248	0.00258	0.00267	0.00277	0.00287	0.00298	0.00308
6.8	0.00242	0.00251	0.00260	0.00270	0.00280	0.00291	0.00301	0.00313	0.00324	0.00336	0.00348	0.00361	0.00374	0.00388
6.9	0.00304	0.00315	0.00327	0.00340	0.00352	0.00366	0.00379	0.00393	0.00408	0.00423	0.00438	0.00454	0.00471	0.00488
7	0.00382	0.00397	0.00412	0.00427	0.00443	0.00460	0.00477	0.00495	0.00513	0.00532	0.00551	0.00571	0.00592	0.00614
7.1	0.00481	0.00499	0.00518	0.00537	0.00558	0.00578	0.00600	0.00622	0.00645	0.00669	0.00693	0.00718	0.00745	0.00771
7.2	0.00605	0.00628	0.00651	0.00676	0.00701	0.00727	0.00754	0.00782	0.00811	0.00841	0.00871	0.00903	0.00936	0.00970
7.3	0.00761	0.00789	0.00819	0.00850	0.00881	0.00914	0.00948	0.00983	0.01019	0.01056	0.01095	0.01135	0.01176	0.01218
7.4	0.00956	0.00992	0.01029	0.01068	0.01107	0.01149	0.01191	0.01235	0.01280	0.01327	0.01375	0.01425	0.01477	0.01530
7.5	0.01201	0.01246	0.01293	0.01341	0.01391	0.01442	0.01496	0.01550	0.01607	0.01666	0.01726	0.01789	0.01853	0.01919
7.6	0.01508	0.01565	0.01623	0.01683	0.01746	0.01810	0.01877	0.01946	0.02016	0.02090	0.02165	0.02243	0.02324	0.02407
7.7	0.01893	0.01963	0.02036	0.02112	0.02190	0.02270	0.02353	0.02439	0.02528	0.02619	0.02713	0.02811	0.02911	0.03014
7.8	0.02373	0.02461	0.02553	0.02647	0.02744	0.02844	0.02948	0.03055	0.03165	0.03279	0.03396	0.03517	0.03642	0.03770
7.9	0.02972	0.03082	0.03196	0.03313	0.03434	0.03559	0.03688	0.03821	0.03958	0.04099	0.04245	0.04395	0.04550	0.04709
8	0.03718	0.03855	0.03996	0.04142	0.04292	0.04447	0.04607	0.04771	0.04941	0.05116	0.05296	0.05481	0.05673	0.05869
8.1	0.04644	0.04814	0.04989	0.05169	0.05354	0.05546	0.05743	0.05946	0.06155	0.06371	0.06593	0.06821	0.07056	0.07298
8.2	0.05790	0.05999	0.06214	0.06436	0.06665	0.06900	0.07143	0.07392	0.07649	0.07913	0.08185	0.08464	0.08751	0.09046
8.3	0.07200	0.07457	0.07721	0.07993	0.08273	0.08561	0.08857	0.09162	0.09475	0.09797	0.10127	0.10467	0.10815	0.11173
8.4	0.08927	0.09240	0.09563	0.09894	0.10234	0.10584	0.10944	0.11313	0.11692	0.12081	0.12480	0.12889	0.13309	0.13739
8.5	0.11029	0.11408	0.11798	0.12198	0.12609	0.13031	0.13463	0.13907	0.14361	0.14827	0.15304	0.15792	0.16292	0.16804
8.6	0.13565	0.14021	0.14488	0.14967	0.15458	0.15961	0.16476	0.17003	0.17543	0.18094	0.18658	0.19234	0.19822	0.20423
8.7	0.16597	0.17139	0.17693	0.18260	0.18840	0.19433	0.20038	0.20657	0.21288	0.21933	0.22590	0.23260	0.23943	0.24638
8.8	0.20181	0.20816	0.21464	0.22127	0.22802	0.23491	0.24193	0.24908	0.25637	0.26378	0.27132	0.27899	0.28678	0.29469
8.9	0.24358	0.25092	0.25839	0.26601	0.27375	0.28163	0.28963	0.29776	0.30602	0.31440	0.32289	0.33151	0.34023	0.34906
9	0.29151	0.29984	0.30831	0.31691	0.32562	0.33446	0.34342	0.35248	0.36166	0.37093	0.38031	0.38979	0.39935	0.40900
9.1	0.34551	0.35480	0.36420	0.37371	0.38332	0.39303	0.40284	0.41273	0.42270	0.43275	0.44287	0.45306	0.46330	0.47360
9.2	0.40512	0.41525	0.42546	0.43575	0.44611	0.45654	0.46702	0.47756	0.48815	0.49878	0.50943	0.52012	0.53082	0.54154
9.3	0.46946	0.48024	0.49107	0.50194	0.51283	0.52376	0.53470	0.54565	0.55661	0.56756	0.57850	0.58942	0.60032	0.61118

Multiply Total Ammonia (mg/l) by the value in the chart to get Un-ionized Ammonia (mg/l).

ENTER SALINITY: 0 ppt

I = 0 (This parameter will be zero if salinity can be neglected)

Temperature (centigrade) ---------->

pH	24	24.5	25	25.5	26	26.5	27	27.5	28	28.5	29	29.5	30	30.5
6	0.00064	0.00066	0.00069	0.00071	0.00074	0.00076	0.00079	0.00082	0.00085	0.00088	0.00091	0.00094	0.00097	0.00100
6.1	0.00080	0.00083	0.00086	0.00089	0.00093	0.00096	0.00099	0.00103	0.00106	0.00110	0.00114	0.00118	0.00122	0.00126
6.2	0.00101	0.00105	0.00109	0.00113	0.00117	0.00121	0.00125	0.00129	0.00134	0.00139	0.00144	0.00149	0.00154	0.00159
6.3	0.00127	0.00132	0.00137	0.00142	0.00147	0.00152	0.00157	0.00163	0.00169	0.00175	0.00181	0.00187	0.00194	0.00200
6.4	0.00160	0.00166	0.00172	0.00178	0.00185	0.00191	0.00198	0.00205	0.00212	0.00220	0.00227	0.00235	0.00244	0.00252
6.5	0.00202	0.00209	0.00217	0.00224	0.00232	0.00241	0.00249	0.00258	0.00267	0.00276	0.00286	0.00296	0.00306	0.00317
6.6	0.00254	0.00263	0.00273	0.00282	0.00292	0.00303	0.00314	0.00325	0.00336	0.00348	0.00360	0.00373	0.00386	0.00399
6.7	0.00319	0.00331	0.00343	0.00355	0.00368	0.00381	0.00394	0.00408	0.00423	0.00438	0.00453	0.00469	0.00485	0.00502
6.8	0.00402	0.00416	0.00431	0.00447	0.00463	0.00479	0.00496	0.00514	0.00532	0.00550	0.00570	0.00589	0.00610	0.00631
6.9	0.00506	0.00524	0.00543	0.00562	0.00582	0.00603	0.00624	0.00646	0.00669	0.00692	0.00716	0.00741	0.00767	0.00793
7	0.00636	0.00659	0.00682	0.00707	0.00732	0.00758	0.00785	0.00812	0.00841	0.00870	0.00900	0.00932	0.00964	0.00997
7.1	0.00799	0.00828	0.00858	0.00888	0.00920	0.00952	0.00986	0.01021	0.01056	0.01093	0.01131	0.01171	0.01211	0.01253
7.2	0.01005	0.01041	0.01078	0.01116	0.01156	0.01197	0.01239	0.01282	0.01327	0.01373	0.01421	0.01470	0.01521	0.01573
7.3	0.01262	0.01307	0.01354	0.01402	0.01451	0.01503	0.01555	0.01610	0.01666	0.01724	0.01783	0.01845	0.01908	0.01973
7.4	0.01584	0.01641	0.01699	0.01760	0.01822	0.01886	0.01952	0.02020	0.02090	0.02162	0.02237	0.02313	0.02392	0.02474
7.5	0.01988	0.02059	0.02132	0.02207	0.02284	0.02364	0.02447	0.02532	0.02619	0.02709	0.02802	0.02898	0.02997	0.03098
7.6	0.02492	0.02580	0.02671	0.02765	0.02862	0.02962	0.03064	0.03170	0.03279	0.03391	0.03507	0.03626	0.03749	0.03875
7.7	0.03121	0.03231	0.03344	0.03461	0.03581	0.03705	0.03833	0.03964	0.04100	0.04239	0.04382	0.04530	0.04682	0.04838
7.8	0.03903	0.04040	0.04180	0.04325	0.04474	0.04628	0.04786	0.04949	0.05116	0.05289	0.05466	0.05648	0.05836	0.06028
7.9	0.04873	0.05042	0.05216	0.05395	0.05580	0.05769	0.05964	0.06165	0.06372	0.06584	0.06802	0.07026	0.07256	0.07493
8	0.06072	0.06280	0.06494	0.06715	0.06942	0.07175	0.07414	0.07661	0.07914	0.08174	0.08441	0.08715	0.08996	0.09285
8.1	0.07546	0.07802	0.08064	0.08334	0.08612	0.08896	0.09189	0.09489	0.09798	0.10114	0.10438	0.10771	0.11112	0.11462
8.2	0.09350	0.09661	0.09981	0.10309	0.10646	0.10991	0.11346	0.11709	0.12082	0.12464	0.12855	0.13255	0.13665	0.14085
8.3	0.11540	0.11917	0.12303	0.12699	0.13105	0.13520	0.13946	0.14382	0.14828	0.15285	0.15752	0.16229	0.16717	0.17215
8.4	0.14179	0.14631	0.15093	0.15566	0.16049	0.16544	0.17050	0.17567	0.18095	0.18635	0.19186	0.19748	0.20321	0.20905
8.5	0.17327	0.17862	0.18408	0.18966	0.19536	0.20118	0.20712	0.21317	0.21934	0.22563	0.23204	0.23856	0.24520	0.25195
8.6	0.21036	0.21662	0.22299	0.22949	0.23611	0.24286	0.24972	0.25670	0.26380	0.27102	0.27835	0.28579	0.29335	0.30102
8.7	0.25346	0.26066	0.26799	0.27543	0.28300	0.29068	0.29848	0.30640	0.31442	0.32255	0.33079	0.33913	0.34756	0.35610
8.8	0.30273	0.31088	0.31914	0.32752	0.33600	0.34459	0.35328	0.36207	0.37096	0.37994	0.38900	0.39814	0.40737	0.41666
8.9	0.35800	0.36704	0.37617	0.38540	0.39472	0.40412	0.41360	0.42315	0.43278	0.44246	0.45221	0.46201	0.47186	0.48175
9	0.41873	0.42854	0.43841	0.44835	0.45835	0.46840	0.47849	0.48863	0.49880	0.50901	0.51923	0.52947	0.53973	0.54999
9.1	0.48394	0.49432	0.50474	0.51518	0.52565	0.53613	0.54661	0.55710	0.56759	0.57806	0.58851	0.59895	0.60935	0.61972
9.2	0.55226	0.56298	0.57369	0.58438	0.59506	0.60570	0.61631	0.62688	0.63741	0.64788	0.65829	0.66863	0.67891	0.68911
9.3	0.62200	0.63278	0.64351	0.65418	0.66478	0.67531	0.68577	0.69614	0.70643	0.71663	0.72673	0.73672	0.74661	0.75640

Unionized Ammonia Table

Multiply Total Ammonia (mg/l) by the value in the chart to get Unionized Ammonia (mg/l).

ENTER SALINITY: 0 ppt

I = 0 (This parameter will be zero if salinity can be neglected)

Temperature (centigrade) ——————>

pH	13.5	14	14.5	15	15.5	16	16.5	31	31.5	32	32.5	33	33.5	34
6	0.00029	0.00031	0.00032	0.00033	0.00034	0.00036	0.00037	0.00104	0.00108	0.00111	0.00115	0.00119	0.00123	0.00127
6.1	0.00037	0.00038	0.00040	0.00042	0.00043	0.00045	0.00047	0.00131	0.00135	0.00140	0.00145	0.00150	0.00155	0.00160
6.2	0.00047	0.00048	0.00050	0.00052	0.00054	0.00056	0.00059	0.00165	0.00170	0.00176	0.00182	0.00188	0.00195	0.00201
6.3	0.00059	0.00061	0.00063	0.00066	0.00068	0.00071	0.00074	0.00207	0.00214	0.00222	0.00229	0.00237	0.00245	0.00253
6.4	0.00074	0.00077	0.00080	0.00083	0.00086	0.00089	0.00093	0.00261	0.00270	0.00279	0.00288	0.00298	0.00308	0.00319
6.5	0.00093	0.00097	0.00100	0.00104	0.00108	0.00112	0.00117	0.00328	0.00339	0.00351	0.00363	0.00375	0.00388	0.00401
6.6	0.00117	0.00122	0.00126	0.00131	0.00136	0.00142	0.00147	0.00413	0.00427	0.00442	0.00457	0.00472	0.00488	0.00505
6.7	0.00147	0.00153	0.00159	0.00165	0.00172	0.00178	0.00185	0.00519	0.00537	0.00555	0.00574	0.00594	0.00614	0.00635
6.8	0.00185	0.00193	0.00200	0.00208	0.00216	0.00224	0.00233	0.00653	0.00675	0.00698	0.00722	0.00747	0.00772	0.00798
6.9	0.00233	0.00242	0.00252	0.00262	0.00272	0.00282	0.00293	0.00821	0.00849	0.00878	0.00908	0.00938	0.00970	0.01003
7	0.00294	0.00305	0.00317	0.00329	0.00342	0.00355	0.00368	0.01031	0.01067	0.01103	0.01140	0.01179	0.01219	0.01260
7.1	0.00370	0.00384	0.00399	0.00414	0.00430	0.00446	0.00463	0.01295	0.01340	0.01385	0.01432	0.01481	0.01530	0.01582
7.2	0.00465	0.00483	0.00502	0.00521	0.00541	0.00561	0.00583	0.01626	0.01682	0.01739	0.01798	0.01858	0.01920	0.01984
7.3	0.00585	0.00607	0.00631	0.00655	0.00680	0.00706	0.00733	0.02040	0.02110	0.02181	0.02254	0.02330	0.02408	0.02488
7.4	0.00735	0.00763	0.00793	0.00823	0.00855	0.00887	0.00921	0.02558	0.02644	0.02733	0.02824	0.02919	0.03016	0.03115
7.5	0.00924	0.00960	0.00997	0.01035	0.01074	0.01115	0.01157	0.03202	0.03310	0.03421	0.03534	0.03652	0.03772	0.03896
7.6	0.01161	0.01206	0.01252	0.01300	0.01349	0.01400	0.01453	0.04004	0.04138	0.04275	0.04416	0.04562	0.04711	0.04864
7.7	0.01458	0.01514	0.01572	0.01632	0.01694	0.01758	0.01824	0.04998	0.05164	0.05333	0.05508	0.05687	0.05872	0.06061
7.8	0.01830	0.01900	0.01972	0.02047	0.02125	0.02205	0.02288	0.06226	0.06430	0.06639	0.06854	0.07074	0.07301	0.07533
7.9	0.02294	0.02382	0.02472	0.02566	0.02663	0.02763	0.02866	0.07736	0.07985	0.08241	0.08504	0.08774	0.09050	0.09334
8	0.02874	0.02984	0.03096	0.03213	0.03333	0.03458	0.03586	0.09581	0.09885	0.10196	0.10515	0.10842	0.11178	0.11521
8.1	0.03597	0.03732	0.03873	0.04017	0.04167	0.04321	0.04480	0.11820	0.12187	0.12563	0.12948	0.13341	0.13744	0.14156
8.2	0.04493	0.04662	0.04835	0.05014	0.05199	0.05390	0.05587	0.14515	0.14954	0.15403	0.15862	0.16331	0.16810	0.17300
8.3	0.05603	0.05811	0.06025	0.06246	0.06474	0.06709	0.06951	0.17724	0.18244	0.18775	0.19316	0.19868	0.20431	0.21004
8.4	0.06971	0.07226	0.07489	0.07760	0.08039	0.08327	0.08622	0.21501	0.22108	0.22726	0.23355	0.23996	0.24647	0.25309
8.5	0.08647	0.08959	0.09280	0.09610	0.09950	0.10300	0.10659	0.25882	0.26579	0.27288	0.28008	0.28738	0.29479	0.30231
8.6	0.10689	0.11067	0.11456	0.11856	0.12266	0.12688	0.13121	0.30879	0.31667	0.32465	0.33273	0.34090	0.34917	0.35754
8.7	0.13157	0.13611	0.14078	0.14557	0.15049	0.15552	0.16069	0.36473	0.37344	0.38224	0.39113	0.40009	0.40912	0.41823
8.8	0.16111	0.16652	0.17207	0.17775	0.18356	0.18951	0.19559	0.42603	0.43546	0.44495	0.45450	0.46409	0.47373	0.48341
8.9	0.19609	0.20245	0.20896	0.21560	0.22239	0.22931	0.23637	0.49167	0.50163	0.51162	0.52162	0.53164	0.54167	0.55170
9	0.23696	0.24433	0.25184	0.25950	0.26729	0.27523	0.28330	0.56024	0.57050	0.58073	0.59095	0.60115	0.61132	0.62145
9.1	0.28396	0.29236	0.30089	0.30956	0.31836	0.32728	0.33633	0.63004	0.64032	0.65054	0.66071	0.67082	0.68085	0.69081
9.2	0.33708	0.34646	0.35596	0.36558	0.37531	0.38515	0.39509	0.69923	0.70927	0.71922	0.72907	0.73883	0.74848	0.75802
9.3	0.39590	0.40616	0.41651	0.42695	0.43747	0.44807	0.45874	0.76606	0.77562	0.78505	0.79435	0.80354	0.81259	0.82151

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

PERMIT NUMBER:	FL0023671
FACILITY NAME:	Jacksonville Heights WWTF
FACILITY LOCATION:	Jacksonville Duval County
NAME OF PERMITTEE:	United Water Florida
PERMIT WRITER:	Jon M. Dinges, P.E.

1. SYNOPSIS OF APPLICATION

a. Chronology of Application

Application Date:	November 17, 1997
Additional Information:	November 14, 1998
	March 17, 1999
	May 7, 1999
Public Notice Date:	February 2, 2000

b. Type of Facility

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

c. Facility Capacity

Existing Design Capacity:	2.5	mgd	AADF
Proposed Increase in Design Capacity:	0.0	mgd	AADF
Proposed Total Design Capacity:	2.5	mgd	AADF
Existing Permitted Capacity:	2.5	mgd	AADF
Proposed Increase in Permitted Capacity:	0.0	mgd	AADF
Proposed Total Permitted Capacity:	2.5	mgd	AADF

d. Description of Effluent or Reclaimed Water Discharges (as reported by applicant)

See attached map(s) for the location(s) of effluent disposal and land application sites.

Outfall Serial Number D-001

Annual Average Daily Flow (mgd): 1.21

pH Range (Standard Units): 6.0 - 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.
CBOD5 (mg/L)	1.0	1.0	1.2
Total Suspended Solids (mg/L)	0.4	0.2	1.0
Total Ammonia (mg/L as N)	0.06	0.05	0.12
Total Kjeldahl Nitrogen (mg/L as N)	0.22	0.05	0.48
Nitrate (mg/L as N)	8.92	3.55	12.9
Total Phosphorous (mg/L as P)	2.8	1.92	4.3
Dissolved Oxygen (mg/L)	6.2	6.0	6.5

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

The following table provides the basis for Part I. A. provisions.

Outfall D-001

Parameter	Limit	Basis	Rationale
Flow (mgd)	2.5	Annual Average	62-600.400(3)(b) FAC
BOD, Carbonaceous 5 day, 20C (mg/l)	8.0 8.0 12.0 16.0	Annual Average Monthly Average Weekly Average Single Sample Max.	62-600.430(1) and 62-650 FAC 62-600.430(1) and 62-650 FAC 62-600.740(1)(b)2.c. FAC 62-600.740(1)(b)2.d.FAC
Solids, Total Suspended (mg/l)	20.0 20.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample Max.	62-600.430(1) and 62-650 FAC 62-600.430(1) and 62-650 FAC 62-600.740(1)(b)1.c. FAC 62-600.740(1)(b)1.d. FAC
pH (s.u.)	6.0 to 8.5	Minimum and Maximum	62-302.530(52) FAC
Coliform, Fecal (#/100ml)	200 200 400 800	Annual Average Mo. Geo. Mean 90th Percentile Single Sample Max.	62-600.440(4)(c)1. FAC 62-600.440(4)(c)2. FAC 62-600.440(4)(c)3. FAC 62-600.440(4)(c)4. FAC
Nitrogen, Total (mg/l)	Report	Single Sample Max.	62-4.240(3)(c) FAC
Nitrogen, Organic, Total (as N) (mg/l)	Report	Single Sample Max.	62-4.240(3)(c) FAC
Nitrogen, Kjeldahl, Total (as N) (mg/l)	Report	Single Sample Max.	62-4.240(3)(c) FAC

Parameter	Limit	Basis	Rationale
Nitrite plus Nitrate, Total 1 det. (as N) (mg/l)	Report	Single Sample Max.	62-4.240(3)(c) FAC
Nitrogen, Ammonia, Total (as N) (mg/l)	1.6 2.0 2.4 3.2	Annual Average Monthly Average Weekly Average Single Sample Max.	62-600.430(1), 62-600.740(1)(b)2.a., & 62-650 FAC 62-600.740(1)(b)2.b. FAC 62-600.740(1)(b)2.c. FAC 62-600.740(1)(b)2.d. FAC
Nitrogen, Ammonia, Total unionized (as N) (mg/l)	0.02	Single Sample Max.	62-302.530(3) FAC
Phosphorus, Total (as P) (mg/l)	Report	Single Sample Max.	62-4.240(3)(c) FAC
Phosphate, Ortho (as P) (mg/l)	Report	Single Sample Max.	62-4.240(3)(c) FAC
Oxygen, Dissolved (DO) (mg/l)	6.0	Single Sample Min.	62-600.430(1) and 62-600.650 FAC
Chronic Whole Effluent Toxicity (%)	100	Single Sample Min.	62-302.530(21) & (62) FAC
Stream Monitoring	-	All Parameters	62-4.240(3)(c) 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 BPJ of permit writer

The effluent limits in the permit are being continued from the existing NPDES permit effective January 1, 1994 in accordance with section 1342(o)(1) of the Clean Water Act which does not allow backsliding from the previous effluent limitations. A Level I WQBEL was conducted to confirm that the existing effluent limitations will be adequate to protect the quality of the receiving waters.

In order to provide reasonable assurance that the discharge will not adversely affect the designated use of the receiving water, whole effluent toxicity testing is required. Specifically, the facility is required to conduct chronic toxicity testing. The testing and the chronic toxicity limit is based on the previous NPDES permit effective January 1, 1994 and revised on April 28, 1997. The toxicity limit is retained in the renewed permit in accordance with section 1342(o)(1) of the Clean Water Act which does not allow backsliding from the previous effluent limitations. Testing frequency will remain at once every six months for the duration of the permit. The facility has demonstrated consistent compliance with the chronic toxicity limit since October 1997.

The following table provides the basis for Part I. B. provisions.

Other Limitations and Monitoring Requirements:

Parameter	Limit	Basis	Rationale
BOD, Carbonaceous 5 day, 20C (mg/l)	Report	Monthly Average	62-601.300(1)FAC

Parameter	Limit	Basis	Rationale
Solids, Total Suspended (mg/l)	Report	Monthly Average	62-601.300(1) FAC

3. CHEMICAL-SPECIFIC AND WATER QUALITY BASED EFFLUENT LIMITATIONS:

To comply with the requirements of 40 CFR 122.44(d) and 62-302 FAC, the permit application and other available application information were evaluated to determine if the discharge could cause an excursion above 62-302 FAC water quality standards. In addition, ambient water quality data from the receiving waters was organized and analyzed to determine if they were meeting water quality standards in the vicinity of the discharge. It was determined that the discharge from this facility should not cause or contribute to an excursion of water quality standards in the receiving waters for any chemical-specific parameter. Any parameter that has the potential to cause or contribute to an excursion of water quality standards in the receiving waters has been assigned the appropriate limitation in the permit. The existing effluent limits should be adequate to protect the designated use of the water body based on a Level I WQBEL analysis.

4. RESIDUALS MANAGEMENT

Residuals are aerobically digested to meet Class B stabilization requirements and then land applied or disposed in a solid waste landfill in accordance with Chapter 62-701, F.A.C.

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	62-640.650(1)(b) FAC
Total Phosphorus, % dry weight	Report	62-640.650(1)(b) FAC
Total Potassium, % dry weight	Report	62-640.650(1)(b) FAC
Arsenic, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1), FAC
Cadmium, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Copper, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Lead, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Mercury, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Molybdenum, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Nickel, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Selenium, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Zinc, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
pH, std. units	Report	62-640.650(1)(b) FAC
Total Solids, %	Report	62-640.650(1)(b) FAC
Nitrogen, lb/ac/yr	Maximum	62-640.750(2)(b) FAC
Arsenic, lb/ac	Cumulative Maximum	62-640.700(3)(b)
Cadmium, lb/ac	Cumulative Maximum	62-640.700(3)(b) FAC
Copper, lb/ac	Cumulative Maximum	62-640.700(3)(b) FAC
Lead, lb/ac	Cumulative Maximum	62-640.700(3)(b) FAC

Parameter		Basis for Limit/Monitoring Requirement
Mercury, lb/ac	Cumulative Maximum	62-640.700(3)(b) FAC
Nickel, lb/ac	Cumulative Maximum	62-640.700(3)(b) FAC
Selenium, lb/ac	Cumulative Maximum	62-640.700(3)(b) FAC
Zinc, lb/ac	Cumulative Maximum	62-640.700(3)(b)
Monitoring Frequency	All Parameters	62-640.650 & 650(1)(c) FAC
Pathogen and vector attraction reduction monitoring	All Parameters	62-640.600 & 650(1)(a) FAC
Additional monitoring as determined necessary	All Parameters	62-640.650(1)(b)

5. INDUSTRIAL PRETREATMENT REQUIREMENTS

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

6. REQUESTED VARIANCES OR ALTERNATIVES TO REQUIRED STANDARDS

No variances were requested for this facility.

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

This section is not applicable to this facility

8. DISCUSSION OF PREVIOUS PERMIT EFFLUENT OR RECLAIMED WATER LIMITATIONS.

The EPA-issued NPDES wastewater permit for this facility, FL0023671, expired on September 30, 1998 and contained the following effluent limits:

For Surface Water Serial Number D-001:

Parameters	Effluent or Reclaimed Water Limitations				
	Maximum/ Minimum	Annual Average	Monthly Average	Weekly Average	Single Sample
CBOD5 (mg/L)	Maximum	8.0	8.0	-	16.0
Total Suspended Solids (mg/L)	Maximum	20.0	20.0	-	60.0
Total Ammonia (mg/L as N)	Maximum	1.6	2.0	-	3.2
Fecal Coliform Bacteria (No./100 mL)	Maximum	200.0	-	-	800.0
Total Residual Chlorine (mg/L)	Maximum	-	-	-	0.01
pH (s.u.)	Range	-	-	-	6.0 - 8.5
Dissolved Oxygen (mg/L)	Minimum	-	-	-	6.0

Parameters	Effluent or Reclaimed Water Limitations				
Un-ionized ammonia (mg/L as NH3)	Maximum	-	-	-	0.02
Chronic Whole Effluent Toxicity (NOEC % Eff.)	Minimum	-	-	-	See note below

The State-issued wastewater permit for this facility, DO16-222480, expired on September 30, 1998 and contained the following effluent limits:

Parameters	Effluent or Reclaimed Water Limitations				
	Maximum/ Minimum	Annual Average	Monthly Average	Weekly Average	Single Sample
Flow (mgd)	Maximum	2.5	-	-	-
CBOD5 (mg/L)	Maximum	8.0	10.0	12.0	16.0
Total Suspended Solids (mg/L)	Maximum	20.0	30.0	45.0	60.0
Total Ammonia (mg/L as N)	Maximum	1.6	2.0	2.4	3.2
Fecal Coliform Bacteria (No./100 mL)	Maximum	200.0	-	-	800.0
Total Residual Chlorine, for disinfection (mg/L)	Minimum	-	-	-	0.5
Total Residual Chlorine, after dechlorination (mg/L)	Maximum	-	-	-	0.01
pH (s.u.)	Range	-	-	-	6.0 - 8.5
Dissolved Oxygen (mg/L)	Minimum	-	-	-	6.0
Un-ionized ammonia (mg/L as NH3)	Maximum	-	-	-	0.02
Chronic Whole Effluent Toxicity (NOEC % Eff.)	Minimum	-	-	-	See note below

NOTE: Both the state and the NPDES wastewater permits were issued with a chronic whole effluent toxicity limit of NOEC greater than or equal to 100% effluent. The two permits were consolidated during the NPDES delegation to the state. A permit revision for the consolidated permit was issued on April 28, 1997. The revision allowed a 3:1 dilution for chronic whole effluent toxicity. The permit limit was revised to a NOEC greater than or equal to 33% effluent. The permit revision was issued with a consent order that required the permittee to conduct a study of the receiving stream. The study was required to verify that the revised toxicity limit was appropriate. The result of the study was that the limit is appropriate. The limit will be continued in the renewed permit.

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

This facility does not have a new or expanded discharge.

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

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

11. APPLICABLE RULES

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:

Chapter	Effective Date
62-4	10-16-95
62-302	12-26-96
62-600	12-24-96
62-601	12-24-96
62-610	01-09-96
62-620	12-24-96
62-640	03-30-98
62-650	12-26-96
62-699	05-20-92

b. FS refers to various portions of the Florida Statutes

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

d. BPJ refers to Best Professional Judgment

12. DEP CONTACT

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

Mark Cadenhead, P.E.
Department of Environmental Protection
Northeast District Office
7825 Baymeadows Way, Suite B200
Jacksonville, FL 32256 - 7590
Telephone 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. PROPOSED SCHEDULE FOR PERMIT ISSUANCE

Preliminary Permit to Applicant:	December 14, 1999
Draft permit to Applicant and EPA:	January 14, 2000
Beginning of Proposed Public Comment Period :	February 21, 2000
End of Proposed Public Comment Period :	March 22, 2000

Notice of Agency Action :	March 14, 2000
Proposed Issuance Date of Permit :	March 14, 2000

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART

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	PERMIT NUMBER:	FL0023671		
MAILING ADDRESS:	1400 Millcoe Road	LIMIT:	Final	REPORT:	Monthly
	Jacksonville, FL 32225	CLASS SIZE:	Major	GROUP:	Domestic
FACILITY:	Jacksonville Heights WWTF	MONITORING GROUP NUMBER:	D-001		
LOCATION:	5957 Tampico Road	PLANT SIZE/TREATMENT TYPE:	IIB		
	Jacksonville, FL 32244	NO DISCHARGE FROM SITE:	☐		
COUNTY:	Duval				

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 [redacted] Mon Site No. EFF-1	Permit Requirement	2.5 (An Avg.)		mgd						Continuous	Flow meters and totalizers
Flow	Sample Measurement										
PARM Code 50050 [redacted] Mon Site No. EFF-1	Permit Requirement	Report (Mo Avg.)		mgd						Continuous	Flow meters and totalizers
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 [redacted] Mon Site No. EFF-1	Permit Requirement					8.0 (An Avg.)		mg/l		Weekly	16-hour FPC
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 [redacted] Mon Site No. EFF-1	Permit Requirement					8.0 (Mo Avg.)	16.0 (Max)	mg/l		Weekly	16-hour FPC
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 [redacted] Mon Site No. EFF-1	Permit Requirement					20.0 (An Avg.)		mg/l		Weekly	16-hour FPC
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 [redacted] Mon Site No. EFF-1	Permit Requirement					20.0 (Mo Avg.)	60.0 (Max)	mg/l		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: Jacksonville Heights WWTF | PERMIT NUMBER: FL0023671 | MONITORING GROUP NUMBER: D-001

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
PH	Sample Measurement										
PARM Code 00400 1 Mon.Site No. EFF-1	Permit Requirement				6.0 (Min.)		8.5 (Max.)	s.u.		Continuous	Meter
Coliform, Fecal	Sample Measurement										
PARM Code 74055 Y Mon.Site No. EFF-1	Permit Requirement					200 (An. Avg.)		#/100ml		Weekly	Grab
Coliform, Fecal	Sample Measurement										
PARM Code 74055 1 Mon.Site No. EFF-1	Permit Requirement				200 (Mo.Geo.Mean)		400 (90 Percentile)	#/100ml		Weekly	Grab
Nitrogen, Ammonia, Total (as N)	Sample Measurement										
PARM Code 00610 Y Mon.Site No. EFF-1	Permit Requirement					1.6 (An.Avg.)		mg/l		Weekly	Grab
Nitrogen, Ammonia, Total (as N)	Sample Measurement										
PARM Code 00610 1 Mon.Site No. EFF-1	Permit Requirement					2.0 (Mo.Avg.)	3.2 (Max.)	mg/l		Weekly	Grab
Nitrogen, Ammonia, Total un-ionized (as N)	Sample Measurement										
PARM Code 00612 1 Mon.Site No. EFF-1	Permit Requirement						0.02 (Max.)	mg/l		Weekly	Calculated
Oxygen, Dissolved (DO)	Sample Measurement										
PARM Code 00300 1 Mon.Site No. EFF-1	Permit Requirement				6.0 (Min.)			mg/l		Daily	Grab
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 G Mon.Site No. INF-1	Permit Requirement					Report (Mo.Avg.)		mg/l		Weekly	16-hour
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 G Mon.Site No. INF-1	Permit Requirement					Report (Mo.Avg.)		mg/l		Weekly	16-hour FPC

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	PERMIT NUMBER:	FL0023671		
MAILING ADDRESS:	1400 Millcoe Road Jacksonville, FL 32225	LIMIT: CLASS SIZE:	Final Major	REPORT: GROUP:	Quarterly Domestic
FACILITY:	Jacksonville Heights WWTF	MONITORING GROUP NUMBER:	D-001		
LOCATION:	5957 Tampico Road Jacksonville, FL 32244	PLANT SIZE/TREATMENT TYPE: NO DISCHARGE FROM SITE:	IIB ☐		
COUNTY:	Duval				

MONITORING PERIOD From: To:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrogen, Total	Sample Measurement										
PARM Code 00600 Mon.Site No: EFF-1	Permit Requirement						Report (Max.)	mg/l		Quarterly	24-hour FPC
Nitrogen, Organic, Total (as N)	Sample Measurement										
PARM Code 00605 Mon.Site No: EFF-1	Permit Requirement						Report (Max.)	mg/l		Quarterly	24-hour FPC
Nitrogen, Kjeldahl, Total (as N)	Sample Measurement										
PARM Code 00625 Mon.Site No: EFF-1	Permit Requirement						Report (Max.)	mg/l		Quarterly	24-hour FPC
Nitrite plus Nitrate, Total 1 det. (as N)	Sample Measurement										
PARM Code 00630 Mon.Site No: EFF-1	Permit Requirement						Report (Max.)	mg/l		Quarterly	24-hour FPC
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 Mon.Site No: EFF-1	Permit Requirement						Report (Max.)	mg/l		Quarterly	24-hour FPC
sphate, Ortho (as P)	Sample Measurement										
PARM Code 70507 Mon.Site No: EFF-1	Permit Requirement						Report (Max.)	mg/l		Quarterly	Grab - Filtered

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	PERMIT NUMBER:	FL0023671		
MAILING ADDRESS:	1400 Millcoe Road *Jacksonville, FL 32225*	LIMIT: CLASS SIZE:	Final Major	REPORT: GROUP:	Toxicity Domestic
FACILITY:	Jacksonville Heights WWTF	MONITORING GROUP NUMBER:	D-001		
LOCATION:	5957 Tampico Road Jacksonville, FL 32244	PLANT SIZE/TREATMENT TYPE: NO DISCHARGE FROM SITE:	IIB ☐		
COUNTY:	Duval				

MONITORING PERIOD From: To:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
7-DAY CHRONIC STATRE Ceriodaphnia dubia(Routine)	Sample Measurement										
PARM Code TBP3B Mon Site No EFF-I	Permit Requirement				33 (Min.)			percent		Semi-annual	24 hour FPC
7-DAY CHRONIC STATRE *Ceriodaphnia dubia(Additional)*	Sample Measurement										
PARM Code TBP3B Mon Site No EFF-I	Permit Requirement				33 (Min.)			percent		As needed	As required by the permit
7-DAY CHRONIC STATRE Pimephales promelas(Routine)	Sample Measurement										
PARM Code TBP6C Mon Site No EFF-I	Permit Requirement				33 (Min.)			percent		Semi-annual	24 hour FPC
7-DAY CHRONIC STATRE Pimephales promelas(Additional)	Sample Measurement										
PARM Code TBP6C Mon Site No EFF-I	Permit Requirement				33 (Min.)			percent		As needed	As required by the permit
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										

*IF A SECOND DEFINITIVE TEST IS REQUIRED, ENTER THE RESULT IN AN EMPTY ROW.
**ENTER NODI=9 IN THE RESULTS COLUMN IF NO DISCHARGE OCCURRED DURING THIS REPORTING PERIOD.
ENTER NODI=9 IN THE RESULTS COLUMN IF NO DEFINITIVE TESTS ARE REQUIRED.

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 and Department of Environmental Protection, 7825 Baymeadows Way, Suite B200, Jacksonville, FL 32256-7590

PERMITTEE NAME:	United Water Florida	PERMIT NUMBER:	FL0023671		
MAILING ADDRESS:	1400 ;Millcoe Road	LIMIT:	Final	REPORT:	Quarterly
	Jacksonville, Florida 32225	CLASS SIZE:	Major	GROUP:	Domestic
		FACILITY ID:	FL0023671	STATION #:	1
FACILITY:	Jacksonville Heights WWTF	DISCHARGE POINT NUMBER:	D001	STREAM MONITORING:	Upstream
LOCATION:	5957 Tampico Road	PLANT SIZE/TREATMENT TYPE:	IIB		
	Jacksonville, Florida 32244				

COUNTY: Duval MONITORING PERIOD From: To:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
$CBOD_5$	Sample Measurement										
STORET No. 80082 [illegible] Mon. Site No. SWU-1	Permit Requirement	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Report (Max)	mg/L	[illegible]	Quarterly	Grab
Total Nitrogen (as N)	Sample Measurement										
STORET No. 00600 [illegible] Mon. Site No. SWU-1	Permit Requirement	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Report (Max)	mg/L	[illegible]	Quarterly	Grab
Total Ammonia (as N)	Sample Measurement										
STORET No. 00610 [illegible] Mon. Site No. SWU-1	Permit Requirement	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Report (Max)	mg/L	[illegible]	Quarterly	Grab
Total Kjeldahl Nitrogen (TKN)	Sample Measurement										
STORET No. 00625 [illegible] Mon. Site No. SWU-1	Permit Requirement	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Report (Max)	mg/L	[illegible]	Quarterly	Grab
Ortho-Phosphate	Sample Measurement										
STORET No. 70507 [illegible] Mon. Site No. SWU-1	Permit Requirement	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Report (Max)	mg/L	[illegible]	Quarterly	Grab/Filtered
Total Phosphorous	Sample Measurement										
STORET No. 00665 [illegible] Mon. Site No. SWU-1	Permit Requirement	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Report (Max)	mg/L	[illegible]	Quarterly	Grab

Sample Collected Date: _____ and Time: _____

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 | STATION #: 1 Upstream

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Dissolved Oxygen	Sample Measurement										
STORET No. 00300 P 5 Mon. Site No. SWU-1	Permit Requirement				Report (Min)			mg/L		Quarterly	Grab/Meter
Temperature °C	Sample Measurement										
STORET No. 00010 P 5 Mon. Site No. SWU-1	Permit Requirement						Report (Max)	°C		Quarterly	Grab/Meter
PH	Sample Measurement										
STORET No. 00400 P 5 Mon. Site No. SWU-1	Permit Requirement				Report (Min)		Report (Max)	S.U.		Quarterly	Grab/Meter
Total Coliform	Sample Measurement										
STORET No. 74056 P 5 Mon. Site No. SWU-1	Permit Requirement						Report (Max)	#/100 mL		Quarterly	Grab
Fecal Coliform	Sample Measurement										
STORET No. 74055 P 5 Mon. Site No. SWU-1	Permit Requirement						Report (Max)	#/100mL		Quarterly	Grab

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 and Department of Environmental Protection, 7825 Baymeadows Way, Suite B200, Jacksonville, FL 32256-7590

PERMITTEE NAME:	United Water Florida	PERMIT NUMBER:	FL0023671		
MAILING ADDRESS:	1400 Milcoe Road Jacksonville, Florida 32225	LIMIT: CLASS SIZE: FACILITY ID:	Final Major FL0023671	REPORT: GROUP: STATION #:	Quarterly Domestic 2
FACILITY: LOCATION:	Jacksonville Heights WWTF 5957 Tampico Road Jacksonville, Florida 32244	DISCHARGE POINT NUMBER: PLANT SIZE/TREATMENT TYPE:	D001 IIB	STREAM MONITORING:	Downstream

COUNTY: *Duval* MONITORING PERIOD From: To:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
$CBOD_5$	Sample Measurement										
STORET No. 80082 6 Mon. Site No. SWD-1	Permit Requirement						Report (Max)	mg/L		Quarterly	Grab
Total Nitrogen (as N)	Sample Measurement										
STORET No. 00600 6 Mon. Site No. SWD-1	Permit Requirement						Report (Max)	mg/L		Quarterly	Grab
Total Ammonia (as N)	Sample Measurement										
STORET No. 00610 6 Mon. Site No. SWD-1	Permit Requirement						Report (Max)	mg/L		Quarterly	Grab
Total Kjeldahl Nitrogen (TKN)	Sample Measurement										
STORET No. 00625 6 Mon. Site No. SWD-1	Permit Requirement						Report (Max)	mg/L		Quarterly	Grab
Ortho-Phosphate	Sample Measurement										
STORET No. 70507 6 Mon. Site No. SWD-1	Permit Requirement						Report (Max)	mg/L		Quarterly	Grab/Filtered
Total Phosphorous	Sample Measurement										
STORET No. 00665 6 Mon. Site No. SWD-1	Permit Requirement						Report (Max)	mg/L		Quarterly	Grab

Sample Collected Date: _____ and Time: _____

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 | STATION #: 2 Downstream

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Dissolved Oxygen	Sample Measurement										
STORET No. 00300 Mon. Site No. SWD-1	Permit Requirement				Report (Min)			mg/L		Quarterly	Grab/Meter
Temperature °C	Sample Measurement										
STORET No. 00010 Mon. Site No. SWD-1	Permit Requirement						Report (Max)	°C		Quarterly	Grab/Meter
PH	Sample Measurement										
STORET No. 00400 Mon. Site No. SWD-1	Permit Requirement				Report (Min)		Report (Max)	S.U.		Quarterly	Grab/Meter
Total Coliform	Sample Measurement										
STORET No. 74056 Mon. Site No. SWD-1	Permit Requirement						Report (Max)	#/100 mL		Quarterly	Grab
Fecal Coliform	Sample Measurement										
STORET No. 74055 Mon. Site No. SWD-1	Permit Requirement						Report (Max)	#/100mL		Quarterly	Grab

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 and Department of Environmental Protection, 7825 Baymeadows Way, Suite B200, Jacksonville, FL 32256-7590

PERMITTEE NAME:	United Water Florida	PERMIT NUMBER:	FL0023671		
MAILING ADDRESS:	1400 Millcoe Road Jacksonville, Florida 32225	LIMIT:	Final	REPORT:	Quarterly
		CLASS SIZE:	Major	GROUP:	Domestic
		FACILITY ID:	*FL0023671*	STATION #:	3
FACILITY:	Jacksonville Heights WWTF	DISCHARGE POINT NUMBER:	D001	STREAM MONITORING:	Background
LOCATION:	5957 Tampico Road Jacksonville, Florida	PLANT SIZE/TREATMENT TYPE:	IIB		

COUNTY: Duval MONITORING PERIOD From: To:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
$CBOD_5$	Sample Measurement										
STORET No. 80082 Mon. Site No. SWB-1	Permit Requirement						Report (Max)	mg/L		Quarterly	Grab
Total Nitrogen (as N)	Sample Measurement										
STORET No. 00600 Mon. Site No. SWB-1	Permit Requirement						Report (Max)	mg/L		Quarterly	Grab
Total Ammonia (as N)	Sample Measurement										
STORET No. 00610 Mon. Site No. SWB-1	Permit Requirement						Report (Max)	mg/L		Quarterly	Grab
Total Kjeldahl Nitrogen (TKN)	Sample Measurement										
STORET No. 00625 Mon. Site No. SWB-1	Permit Requirement						Report (Max)	mg/L		Quarterly	Grab
Ortho-Phosphate	Sample Measurement										
STORET No. 00671 Mon. Site No. SWB-1	Permit Requirement						Report (Max)	mg/L		Quarterly	Grab/Filtered
Total Phosphorous	Sample Measurement										
STORET No. 00665 Mon. Site No. SWB-1	Permit Requirement						Report (Max)	mg/L		Quarterly	Grab

Sample Collected Date: _____ and Time: _____

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 | STATION #: 3 Background

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Dissolved Oxygen	Sample Measurement										
STORET No. 00300 Z Mon. Site No. SWB-1	Permit Requirement				Report (Min)			mg/L		Quarterly	Grab/Meter
Temperature °C	Sample Measurement										
STORET No. 00010 Z Mon. Site No. SWB-1	Permit Requirement						Report (Max)	°C		Quarterly	Grab/Meter
Ph	Sample Measurement										
STORET No. 00400 Z Mon. Site No. SWB-1	Permit Requirement				Report (Min)		Report (Max)	S.U.		Quarterly	Grab/Meter
Total Coliform	Sample Measurement										
STORET No. 74056 Z Mon. Site No. SWB-1	Permit Requirement						Report (Max)	#/100 mL		Quarterly	Grab
Fecal Coliform	Sample Measurement										
STORET No. 74055 Z Mon. Site No. SWB-1	Permit Requirement						Report (Max)	#/100mL		Quarterly	Grab

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

PermitNumber: FL0023671 – Jacks. .ile Heights WWTF, Duval County

Monitoring Period From: _____ To: _____

Three . .onth Average Daily Flow: _____

(TMADF/Permitted Capacity)x100: _____

	Flow (mgd)	CBOD5 (mg/l)	CBOD5 (mg/l)	TSS (mg/l)	TSS (mg/l)	pH (s.u.)	Fecal Coliform Bacteria (#/100ml)	Oxygen, Dissolved (DO) (mg/l)	Nitrogen, Ammonia, Total (as N) (mg/l)	Temp.(°C) (at time of Total Ammonia sampling)	pH (s.u.) (at time of Total Ammonia sampling)	Nitrogen, Ammonia, Total un-ionized (as N) (mg/l)
Code	50050	80082	80082	00530	00530	00400	74055	00300	00610	Cond I.A.8.	Cond I.A.8.	00612
Mon. Site	EFF-1	EFF-1	INF-1	EFF-1	INF-1	EFF-1	EFF-1	EFF-1	EFF-1	EFF-1	EFF-1	EFF-1
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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 _____

Attach additional sheets if necessary to list all certified operators.

INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT

e DMR consists of four parts--A, B, C, and D--all of which may or may not be applicable to every facility. Facilities may have one or more Part A's for reporting effluent data. All domestic wastewater facilities will have a Part for reporting daily sample results. Part C is only applicable for domestic wastewater facilities with limited wet weather discharges permitted under Chapter 62-610.860, F.A.C. Part D is used for reporting ground water nitoring well data.

rd copies and/or electronic copies of the required parts of the DMR were provided with the permit. All required information shall be typed or printed in ink.

addition to filling in numerical results on various parts of the DMR, the following codes should be used and an explanation provided where appropriate. Note: Codes used by the lab for raw data may be different.

CODE	DESCRIPTION/INSTRUCTIONS
NC	Analysis not conducted.
RY	Dry Well
LD	Flood disaster.
S	Insufficient flow for sampling.
S	Lost sample.
NR	Monitoring not required this period since limit is conditional.

CODE	DESCRIPTION/INSTRUCTIONS
NOD	No discharge from/to site.
OPS	Operations were shutdown so no sample could be taken.
OTH	Other. Please enter an explanation of why monitoring data were not available.
SEF	Sampling equipment failure.
TNTC	Too numerous too count (for fecal coliform bacteria only).

hen reporting analytical results that fall below a laboratory's reported method detection limits or practical quantification limits, the following instructions and code should be used:

CODE	DESCRIPTION/INSTRUCTIONS
<	If the sampled value is less than the method detection limit (MDL), enter a less than sign followed by the laboratory's MDL value, e.g. < 0.001. In cases where a laboratory reports a value which is less than the parameter's practical quantification limit (PQL), but, not less than the MDL, the value should be reported as the laboratory's MDL value. For example, where the MDL = 0.001, the PQL = 0.005 and the laboratory reports <0.005 (the PQL), the value of 0.001 should be reported on the DMR.

RT A -DISCHARGE MONITORING REPORT (DMR)

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

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

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

mple Measurement: Before filling in sample measurements in the table, check to see that the data collected correspond to the limit indicated on the DMR (i.e. interim or final) and that the data correspond to the monitoring oup number in the header. Enter the data or calculated results for each parameter on this row. Be sure the result being entered corresponds to the appropriate statistical base code (e.g. annual average, monthly average, single mple maximum, etc.).

. Ex.: Enter the number of sample measurements during the monitoring period that exceeded the permit limit for each parameter. If none, enter zero.

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

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

gnature: 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 estions concerning this report. Enter the date when the report is signed.

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

PART B - E / SAMPLE RESULTS

Month/Year: Enter the month and year during which the data on this report were collected and analyzed.
Three-month Average Daily Flow: Calculate and enter the three-month average daily flow to the treatment facility.
(TMADF/Permitted Capacity) x 100: Divide the three-month average daily flow by the permitted capacity of the treatment facility, multiply by 100, and enter this value.
Daily Monitoring Results: Record the results of daily monitoring for the parameters required to be sampled by your permit. Record the data in the units indicated.
Plant Staffing: List the name, certificate number, and class of all state certified operators operating the facility during the monitoring period. Use additional sheets as necessary.
Type of Effluent Disposal or Reclaimed Water Reuse: Enter the type of effluent disposal or reclaimed water reuse (e.g. 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).
Limited Wet Weather Discharge Activated: If this plant does not have a limited wet weather discharge permitted under the provision of Rule 62-610.860, F.A.C., check 'Not Applicable.' If the plant activated the wet weath discharge during the reporting month, check 'Yes' and attach PART C - LIMITED WET WEATHER DISCHARGE.

PART C - LIMITED WET WEATHER DISCHARGE

This part is to be completed and submitted each month reclaimed water or effluent is discharged by a limited wet weather discharge permitted under Rule 62-610.860, F.A.C. For months with no discharge, Part C need not b submitted. All information is to be provided for each day on which the limited wet weather discharge was activated.

Month/Year: Enter the month and year during which the data on this report were collected and analyzed.
Rainfall Information: Enter the name and location of the rainfall gauging station, the source of climatological (normal rainfall) data, the cumulative rainfall for the average rainfall year, and the cumulative rainfall to da th calendar year. The cumulative rainfall for the average rainfall year 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. The cumulati rainfall to date for this calendar year is the total amount of rain, in inches, that has been recorded since January 1 of the current year through the month for which this DMR contains data.
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 hr. = 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 (converted into days). 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 tw 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 actual 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.
$CBOD_5$: Enter the average CBOD, 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.
Total P: Enter the cumulative number of days since January 1 of the current year during which the limited wet weather discharge was activated divided by the total number of days since January 1 of the current year multiplied 100%.
Reason for Discharge: Provide a brief explanation of the factors contributing to the need to activate the limited wet weather discharge.

PART D - GROUND WATER MONITORING REPORT

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.
Date Sample Obtained: Enter the date the sample was taken. Also, check whether or not the well was purged before sampling.
Sampling Methods: Indicate the procedure used to collect the sample (e.g. airlift, bucket/bailer, centrifugal pump, etc.)
Samples Filtered: Indicate whether the sample obtained was filtered by laboratory (L), filtered in field (F), or unfiltered (N).
Preservatives Added: State what preservatives were added to the sample.
Analysis Method: Indicate the analytical method used. Record the method number from Chapter 62-160 or Chapter 62-601, F.A.C., or from other sources.
Analysis Result/Units: Record the results of the analysis. If the result was below the minimum detection limit, indicate that. Enter the units associated with the results of the analysis.
Detection Limits/Units: Record the detection limits of the analytical methods used and the units associated with them.
Comments and Explanations: Use this space to make any comments on or explanations of results which are unexpected. If more space is needed, reference all attachments in this area.

Department of
Environmental Protection

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

Jeb Bush
Governor

David B. Struhs
Secretary

RECEIVED
MAR
UNITED WATER FLORIDA

March 23, 2000

CERTIFIED MAIL -- RETURN RECEIPT

In the Matter of an Application
for Permit by:

Gary Mosley, P.E.
Vice President
United Water Florida
1400 Millcoe Road
Jacksonville, Florida 32225

DEP File No. FLA011682-002-DW3/MR
St. Johns County
Lofton Oaks WWTF

NOTICE OF PERMIT REVISION

This is a revision to part II of Permit Number FLA011682 to modify the approved residuals land application sites, issued under section(s) 403 of the Florida Statutes. All other portions of the permit remain in effect and are fully enforceable. Attach this revision to the permit as it becomes a permanent part thereof. Specific condition II.26 is revised as follows:

26. Current Agricultural Use Plan(s) identify residuals landspreading on the following sites:

Site Name	Site Type (AG or LR)	Application Area (acres)	Site Location						
			County	Latitude			Longitude		
				DD	MM	SS	DD	MM	SS
Cope Farm	AG	300	Duval	30	30	40	82	49	50
Wainwright Ranch	AG	6	Bradford	29	56	50	82	03	58
Williams Ranch (BJ Bar)	AG	6	Putnam	29	32	65	82	00	04

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, unless all of the following conditions are met:

a) The permittee notifies the Department within 24 hours that the site is being used;
b) The site meets the site use restrictions of Rule 62-640.600(3), F.A.C, and the criteria for land application of residuals in Rule 62-640.700, F.A.C.;
c) The permittee submits a new or revised Agricultural Use Plan for the site with a permit application in accordance with Rule 62-640.300(2), F.A.C., within 30 days of beginning use of the site;
d) The permittee does not have another approved land application site, another approved disposal method (e.g. landfilling or incineration), or approved storage facilities available for use; and,
e) The permittee demonstrates during permit application that application of additional residuals to an existing approved application site would have resulted in violation of Department rules, or was not possible due to circumstances beyond the permittee's control.

[62-640.300(2)&(3), 3-30-98]

The Department's proposed agency action shall become final unless a timely petition for an administrative hearing is filed under sections 120.569 and 120.57 of the Florida Statutes before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

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

Petitions by the applicant or any of the parties listed below must be filed within fourteen days of receipt of this written notice. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the public notice or receipt of the written notice, whichever occurs first.

Under section 120.60(3) of the Florida Statutes, however, any person who has asked the Department for notice of agency action may file a petition within fourteen days of receipt of such notice, regardless of the date of publication.

The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition or request for mediation 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 (in a proceeding initiated by another party) will be only at the discretion of the presiding officer

upon the filing of a motion in compliance with rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

(a) The name, address, and telephone number of each petitioner; the name, address, and telephone number of the petitioner's representative, if any; each the Department case or identification number and the county in which the subject matter or activity is located;
(b) A statement of when and how each petitioner received notice of the Department action;
(c) A statement of how each petitioner's substantial interests are affected by the Department action;
(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
(e) A statement of facts that the petitioner contends warrant reversal or modification of the Department action;
(f) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief; and
(g) Demand for relief (sought by the petitioner, stating precisely the action that the petitioner wants the Department to take).

A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise contain the same information as set forth above, as required by rule 28-106.301.

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

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

As provided in section 120.573 of the Florida Statutes, the timely agreement of all parties to mediate will toll the time limitations imposed by sections 120.569 and 120.57 for holding an

administrative hearing and issuing a final order. Unless otherwise agreed by the parties, the mediation must be concluded within sixty days of the execution of the agreement. If mediation results in settlement of the administrative dispute, the Department must enter a final order incorporating the agreement of the parties. Persons seeking to protect their substantial interests that would be affected by such a modified final decision must file their petitions within fourteen days of receipt of this notice, or they shall be deemed to have waived their right to a proceeding under sections 120.569 and 120.57. If mediation terminates without settlement of the dispute, the Department shall notify all parties in writing that the administrative hearing processes under sections 120.569 and 120.57 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.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

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

JMC JPW KP
JMO:kp

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 30, 2000 to the listed persons.

Copies furnished to: H&H LSD

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 K. Mansour 3/30/00
Clerk Date

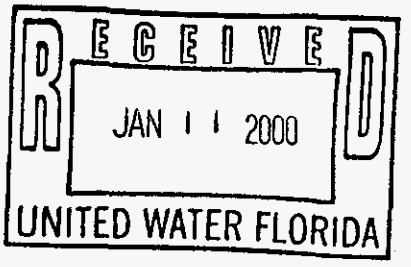
Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

January 6, 2000



CERTIFIED MAIL -- RETURN RECEIPT

In the Matter of an
Application for Permit by:

PA File No. FLA011682-001-DW3P
Nassau County
Lofton Oaks WWTF
FLA011682

Mr. Gary Moseley
Vice President - General Manager
United Water Florida
1400 Millcoe Road
Jacksonville, Florida 32225

NOTICE OF PERMIT ISSUANCE

Enclosed is Permit Number FLA011682 to operate an existing 0.05 mgd annual average daily flow (AADF) permitted capacity extended aeration domestic wastewater treatment plant issued under section(s) 403.087 of the Florida Statutes.

A person whose substantial interests are affected by the proposed permitting decision of the Department 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 of Environmental Protection, Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, 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 name, address, and telephone number of the petitioner's representative, if any; the Department 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 action;
(c) A statement of how each petitioner's substantial interests are affected by the Department action;
(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
(e) A statement of facts that the petitioner contends warrant reversal or modification of the Department action;
(f) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief; and
(g) 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 final action of the Department 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, Mail Station 35, 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 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

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 1/10/00 to the listed persons.

JMD

Copies furnished to:
Gordon Grimes, P.E.
Nassau C.H.D.

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 1/10/00 Date

Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

STATE OF FLORIDA
DOMESTIC WASTEWATER FACILITY PERMIT

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

PERMIT NUMBER: FLA011682
PA FILE No.: FLA011682-001-DW3P
ISSUANCE DATE: January 6, 2000
EXPIRATION DATE: January 5, 2005

RESPONSIBLE AUTHORITY:

Mr. Gary Moseley
Vice President
United Water Florida
1400 Millcoe Road
Jacksonville, Florida 32225
(904) 721-4601

FACILITY:

Lofton Oaks WWTF
111 Stewart Ave.
Yulee, Florida 32034
Nassau County
Latitude: 30° 38' 0" N Longitude: 81° 34' 45" W

This permit is issued under the provisions of Chapter 403, Florida Statutes, and applicable rules of the Florida Administrative Code. 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:

To operate an existing 0.05 mgd annual average daily flow (AADF) permitted capacity extended aeration domestic wastewater treatment plant consisting of a 39,324 gal. aeration basin, a 10,400 gal. secondary clarifier, a 2,875 gal. chlorine contact chamber with basic chlorination, and a 7,539 gal. aerobic digester.

REUSE:

Land Application: An existing 0.05 mgd annual average daily flow (AADF) permitted capacity rapid infiltration basin land application system (R-001) consisting of two percolation ponds. Land application system R-001 is located approximately at latitude 30° 38' 0" N, longitude 81° 34' 45" W.

IN ACCORDANCE WITH: The limitations, monitoring requirements and other conditions set forth in Pages 1 through 18 of this permit.

PERMITTEE:
United Water Florida
FACILITY:
Lofton Oaks WWTF

PERMIT NUMBER: FLA011682
ISSUANCE DATE: January 6, 2000
EXPIRATION DATE: January 5, 2005
PROJECT NO: 001

I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Reuse and Land Application Systems

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to direct reclaimed water to Reuse System R-001. Such reclaimed water shall be limited and monitored by the permittee as specified below:

			Reclaimed Water Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
BOD, Carbonaceous 5 day, 20C	mg/l	Maximum	20.0	30.0	45.0	60.0	Monthly	Grab	EFA-1	
Solids, Total Suspended	mg/l	Maximum	20.0	30.0	45.0	60.0	Monthly	Grab	EFA-1	
Ph	s.u.	Range	-	-	-	6.0 to 8.5	5 Days/Week	Grab	EFA-1	
Coliform, Fecal	See Permit Condition I.A.3.						Monthly	Grab	EFA-1	
Total Residual Chlorine (For Disinfection)	mg/l	Minimum	-	-	-	0.5	5 Days/Week	Grab	EFA-1	See Cond.I.A.4
Nitrogen, Nitrate, Total (as N)	mg/l	Maximum	-	-	-	12.0	Monthly	Grab	EFA-1	

2. Reclaimed water 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
EFA-1	Effluent, after disinfection

3. The arithmetic mean of the monthly fecal coliform values collected during an annual period shall not exceed 200 per 100 mL of reclaimed water sample. The geometric mean of the fecal coliform values for a minimum of 10 samples of reclaimed water, 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 (the 90th percentile value) 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. Note: To report the 90th percentile value, list the fecal coliform values obtained during the month in ascending order. Report the value of the sample that corresponds to the 90th percentile (multiply the number of samples by 0.9). For example, for 30 samples, report the corresponding fecal coliform number for the 27th value of ascending order. *[62-610.510, 1-9-96 and 62-600.440(4)(c), 12-24-96]*

4. 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. *[62-610.510, 1-9-96 and 62-600.440(4)(b), 12-24-96]*

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:

			Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow	mgd	Maximum	0.05	-	-	-	5 Days/Week	Flow meters	INF-1	See Cond.I.B.3, 4
BOD, Carbonaceous 5 day, 20C	mg/l	Maximum	-	Report	-	-	Monthly	Grab	INF-1	See Cond.I.B.3
Solids, Total Suspended	mg/l	Maximum	-	Report	-	-	Monthly	Grab	INF-1	See Cond.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 pump station

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), 12-24-96]*

4. Flow meters shall be utilized to measure flow and calibrated at least annually. *[62-601.200(17) and .500(6), 12-24-96]*

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. Parameters which must be monitored as a result of a ground water discharge (i.e., underground injection or land application system) shall be analyzed in accordance with Chapter 62-601, F.A.C. *[62-620.610(18), 12-24-96]*

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), 12-24-96]*

7. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified on the DMR forms attached to this permit. DMRs shall be submitted for each required monitoring period including months of no discharge. The permittee shall make copies of the attached DMR form(s) and shall submit the completed DMR form(s) to the Department's Northeast District Office at the address specified in Permit Condition I.B.8. by the twenty-eighth (28th) of the month following the month of operation.

   [62-620.610(18), 12-24-96][62-601.300(1), (2), and (3), 12-24-96]

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 Northeast District Office at the address specified below:

   Florida Department of Environmental Protection
   Northeast District Office
   7825 Baymeadows Way Suite B200
   Jacksonville, Florida 32256-7590

   Phone Number - (904) 448-4330
   FAX Number - (904) 448-4315
   All FAX copies shall be followed by original copies.

II. RESIDUALS MANAGEMENT REQUIREMENTS

1. The method of residuals use or disposal by this facility is land application or disposal in a Class I or II solid waste landfill.

2. The permittee shall be responsible for proper treatment, management, use, and land application or disposal of its residuals. *[62-640.300(5), 3-30-98]*

3. The permittee will not be held responsible for violations resulting from land application of residuals if the permittee can demonstrate that it has delivered residuals that meet the parameter concentrations and appropriate treatment requirements of this rule and the applier (e.g. hauler, contractor, site manager, or site owner) has legally agreed in writing to accept responsibility for proper land application of the residuals. Such an agreement shall state that the applier agrees, upon delivery of residuals that have been treated as required by Chapter 62-640, F.A.C., that he will accept responsibility for proper land application of the residuals as required by Chapter 62-640, F.A.C., and that the applier agrees that he is aware of and will comply with requirements for proper land application as described in the facility's permit.
[62-640.300(5), 3-30-98]

4. Disposal of residuals, septage, and other solids in a solid waste landfill, or disposal by placement on land for purposes other than soil conditioning or fertilization, such as at a monofill, surface impoundment, waste pile, or dedicated site, shall be in accordance with Chapter 62-701, F.A.C. *[62-640.100(6)(k)3 & 4, 3-30-98]*

5. Land application of residuals shall be in accordance with the conditions of this permit, the approved Agricultural Use Plan(s), and the requirements of Chapter 62-640, F.A.C. *[62-640, 3-30-98]*

6. The domestic wastewater residuals for this facility are classified as Class B.

7. The permittee shall achieve Class B pathogen reduction by meeting the pathogen reduction requirements in section 503.32(b)(2) (Monitoring of Indicator Organisms) of Title 40 CFR Part 503, revised as of October 25, 1995. *[62-640.600(1)(b), 3-30-98]*

8. The permittee shall achieve vector attraction reduction by meeting the vector attraction reduction requirements in section 503.33(b)(10) (Incorporate biosolids applied to or placed on the land surface within specified time periods after application to or placement on the land surface), of Title 40 CFR Part 503, revised as of October 25, 1995. *[62-640.600(2)(a), 3-30-98]*

9. Treatment of liquid residuals or septage for the purpose of meeting the pathogen reduction or vector attraction reduction requirements set forth in Rule 62-640.600, F.A.C., shall not be conducted in the tank of a hauling vehicle. Treatment of residuals or septage for the purpose of meeting pathogen reduction or vector attraction reduction requirements shall take place at the permitted facility. *[62-640.400(8), 3-30-98]*

10. The permittee shall sample and analyze the Class A or Class B residuals to monitor for pathogen and vector attraction reduction requirements of Rule 62-640.600, F.A.C., and the parameters listed in the table below at least once every year.

Parameter	Ceiling Concentrations (Single Sample)	Cumulative Application Limits
Total Nitrogen	(Report only) % dry weight	Not applicable
Total Phosphorus	(Report only) % dry weight	Not applicable
Total Potassium	(Report only) % dry weight	Not applicable
Arsenic	75 mg/kg dry weight	36.6 pounds/acre
Cadmium	85 mg/kg dry weight	34.8 pounds /acre
Copper	4300 mg/kg dry weight	1340 pounds/acre
Lead	840 mg/kg dry weight	268 pounds/acre
Mercury	57 mg/kg dry weight	15.2 pounds/acre
Molybdenum	75 mg/kg dry weight	Not applicable
Nickel	420 mg/kg dry weight	375 pounds/acre
Selenium	100 mg/kg dry weight	89.3 pounds/acre
Zinc	7500 mg/kg dry weight	2500 pounds/acre
PH	(Report only) standard units	Not applicable
Total Solids	(Report only) %	Not applicable

(62-640.650(1), 62-640.700(1), 62-640.700(3)(b), and 62-640.850(3), 3-30-98)

11. Sampling and analysis shall be conducted in accordance with Title 40 CFR Part 503, section 503.8 and the U.S. Environmental Protection Agency publication - POTW Sludge Sampling and Analysis Guidance Document, 1989. In cases where disagreements exist between Title 40 CFR Part 503, section 503.8 and the POTW Sludge Sampling and Analysis Guidance Document, the requirements in Title 40 CFR Part 503, section 503.8 will apply. *(62-640.650(1), 62-640.700(1), 62-640.700(3)(b), and 62-640.850(3), 3-30-98)*

12. Grab samples shall be used for pathogens and determinations of percent volatile solids. Composite samples shall be used for metals. *[62-640.650(1)(e), 3-30-98]*

13. Residuals shall not be land applied if a single sample result for any parameter exceeds the ceiling concentrations given in this permit. Residuals shall not be distributed and marketed if the monthly average of sample results for any parameter exceeds the Class AA parameter concentrations given in this permit. Monthly averages of parameter concentrations shall be determined by taking the arithmetic mean of all sample results for the month. *[62-640.650(1)(f), 3-30-98]*

14. The permittee shall submit the results of all residuals monitoring with the permittee's Discharge Monitoring Report under Chapter 62-601, F.A.C. The analytical results from each sampling event shall be submitted with the report for the month in which the sampling event occurs. Copies of all applicable analytical reports shall be submitted with the monitoring results. *[62-640.650(3)(a)&(e), 3-30-98]*

15. Class B residuals shall not be used on unrestricted public access areas. Use of Class B residuals is limited to restricted public access areas such as agricultural sites, forests, and roadway shoulders and medians. *[62-640.600(3)(b), 3-30-98]*

16. Plant nursery use of Class B residuals is limited to plants which will not be sold to the public for 12 months after the last application of residuals. *[62-640.600(3)(b)1., 3-30-98]*

17. Use of Class B residuals on roadway shoulders and medians is limited to restricted public access roads. *[62-640.600(3)(b)2., 3-30-98]*

18. Food crops, feed crops, and fiber crops shall not be harvested for 30 days following the last application of Class B residuals. *[62-640.600(3)(b)6.,3-30-98]*

19. Food crops with harvested parts that touch the residuals/soil mixture and are totally above the land surface shall not be harvested for 14 months after the last application of Class B residuals. *[62-640.600(3)(b)3., 3-30-98]*

20. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of Class B residuals when the residuals remain on the land surface for four months or longer before incorporation into the soil. *[62-640.600(3)(b)4., 3-30-98]*

21. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of Class B residuals when the residuals remain on the land surface for less than four months before incorporation into the soil. *[62-640.600(3)(b)5., 3-30-98]*

22. Animals shall not be grazed on the land for 30 days after the last application of Class B residuals. *[62-640.600(3)(b)7., 3-30-98]*

23. Sod which will be distributed or sold to the public or used on unrestricted public access areas shall not be harvested for 12 months after the last application of Class B residuals. *[62-640.600(3)(b)8., 3-30-98]*

24. The public shall be restricted from application zones for 12 months after the last application of Class B residuals. *[62-640.600(3)(b), 3-30-98]*

25. Residuals that do not meet the requirements of Chapter 62-640, F.A.C., for Class AA designation shall not be used for the cultivation of tobacco or leafy vegetables. *[62-640.400(7), 3-30-98]*

26. Current Agricultural Use Plan(s) identify residuals landspreading on the following sites:

Site Name	Site Type (AG or LR)	Application Area (acres)	Site Location						
			County	Latitude			Longitude		
				DD	MM	SS	DD	MM	SS
Cope Farm	AG	300	Duval	30	30	40	82	49	50

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, unless all of the following conditions are met:

a) The permittee notifies the Department within 24 hours that the site is being used;
b) The site meets the site use restrictions of Rule 62-640.600(3), F.A.C, and the criteria for land application of residuals in Rule 62-640.700, F.A.C.;
c) The permittee submits a new or revised Agricultural Use Plan for the site with a permit application in accordance with Rule 62-640.300(2), F.A.C., within 30 days of beginning use of the site;
d) The permittee does not have another approved land application site, another approved disposal method (e.g. landfilling or incineration), or approved storage facilities available for use; and,
e) The permittee demonstrates during permit application that application of additional residuals to an existing approved application site would have resulted in violation of Department rules, or was not possible due to circumstances beyond the permittee's control.

[62-640.300(2)&(3), 3-30-98]

27. Residuals application rates are limited to agronomic rates based on the site vegetation as identified in the Agricultural Use Plan. *[62-640.750(2), 3-30-98]*

28. Residuals shall be applied with appropriate techniques and equipment to assure uniform application over the application zone. *[62-640.700(2)(c), 3-30-98]*

29. The spraying of liquid domestic wastewater residuals shall be conducted so that the formation of aerosols is minimized. *[62-640.700(2)(d), 3-30-98]*

30. Residuals storage facilities at land application sites shall be subject to applicable setback requirements for residuals application sites. Residuals stored at land application sites shall be stored in a manner that will not cause runoff or seepage from the residuals, objectionable odors, or vector attraction. Storage areas must be fenced or otherwise provided with appropriate features to discourage the entry of animals and unauthorized persons. At the time of application, the stored residuals must meet the parameter concentrations, pathogen and vector attraction reduction requirements, and cumulative application limits of this permit. Residuals storage facilities at land application sites may be used only for temporary storage of stabilized residuals for no more than 30 days during periods of inclement weather or to accommodate agricultural operations, or up to the period (not to exceed two years) specified in the Agricultural Use Plan. *[62-640.700(2)(e), 3-30-98]*

31. Residuals application sites shall be posted with appropriate advisory signs identifying the nature of the project area. *[62-640.700(2)(f), 3-30-98]*

32. The pH of the residuals soil mixture shall be 5.0 or greater at the time residuals are applied. At a minimum, soil pH testing shall be done annually. *[62-640.700(5)(d), 3-30-98]*

33. The permittee shall maintain records of application zones and application rates and shall make these records available for inspection within seven days of request by the Department, or delegated Local Program. The permittee shall maintain record items a. through e. below in perpetuity, and maintain record items f. through k. for five years:

a. Date of application of the residuals;
b. Location of the residuals application site as specified in the Agricultural Use Plan;
c. Identification of each application zone used by the permittee at the application site and the acreage of each zone;
d. Amount of residuals applied or delivered to each application zone;

e. Cumulative loading of each application zone;
f. The names of all other wastewater facilities using each of the application zones identified in item c.;
g. Method of incorporation (if any);
h. Measured pH of the residuals soil mixture at the time the residuals are applied (tested at least annually);
i. Unsaturated depth of soil above the water table level at the time of application;
j. Concentration of parameters in the residuals as required by this permit, and the date of last analysis; and
k. The results of any soil testing that is done under Rule 62-640.500(4)(a), F.A.C.

[62-640.650(2), 3-30-98]

34. The permittee shall submit an annual summary of residuals application activity to the Northeast District Office on Department Form 62-640.210(2)(b) for all residuals applied during the period of January 1 through December 31. The summary for each year shall be submitted by February 19 of the following year. If more than one facility applies residuals to the same application zones, the summary must include a subtotal of each facility's contribution of residuals to the application zones. *[62-640.650(3)(b), 3-30-98]*

35. If residuals that are subject to the cumulative loading limitations of Rule 62-640.700(3), F.A.C., have been applied to an application zone, and the cumulative loading amount of one or more of the pollutants is not known, no further applications of residuals may be made to that application zone. *[62-640.700(3)(f), 3-30-98]*

36. A minimum unsaturated soil depth of two feet above the water table level is required at the time the residuals are applied to the soil. *[62-640.700(6)(a), 3-30-98]*

37. Residuals shall not be applied during rains that cause runoff from the site or when surface soils are saturated. *[62-640.700(7)(a), 3-30-98]*

38. Land application of "other solids" as defined in Chapter 62-640, F.A.C., is only allowed if specifically addressed in the Agricultural Use Plan(s) approved for this facility. Land application of "other solids" is subject to Chapter 62-640, F.A.C., and the permit conditions that apply to land applied residuals. *[62-640.860, 3-30-98]*

39. If the permittee intends to accept residuals from other facilities, a permit revision is required pursuant to Rule 62-640.880(2)(d), F.A.C. *[62-640.880(2)(d), 3-30-98]*

40. Storage of residuals or other solids at the permitted facility shall require prior written notification to the Department. *[62-640.300(4), 3-30-98]*

III. GROUND WATER MONITORING REQUIREMENTS

Section III is not applicable to this facility.

IV. ADDITIONAL REUSE AND LAND APPLICATION REQUIREMENTS

Part IV Rapid Infiltration Basins

1. All ground water quality criteria specified in Chapter 62-520, F.A.C., shall be met at the edge of the zone of discharge. The zone of discharge for this project shall extend horizontally 100 feet from the application site or to the facility's property line, whichever is less, and vertically to the base of the surficial aquifer. *[62-520.200(23), 12-9-96] [62-522.400 and 62-522.410, 12-9-96]*

2. Advisory signs shall be posted around the site boundaries to designate the nature of the project area. *[62-610.518, 1-9-96]*

3. The annual average hydraulic loading rate to the two percolation ponds shall be limited to a maximum of 3 inches per day (as applied to the entire bottom area). *[62-610.523(3), 1-9-96]*

4. The two percolation ponds normally shall be loaded for 7 days and shall be rested for 7 days. Infiltration ponds, basins, or trenches shall be allowed to dry during the resting portion of the cycle. *[62-610.523(4), 1-9-96]*

5. Rapid infiltration basins shall be routinely maintained to control vegetation growth and to maintain percolation capability by scarification or removal of deposited solids. Basin bottoms shall be maintained to be level. *[62-610.523(6) and (7), 1-9-96]*

6. Routine aquatic weed control and regular maintenance of storage pond embankments and access areas are required. *[62-610.514 and 62-610.414, 1-9-96]*

7. Overflows from emergency discharge facilities on storage ponds or on infiltration ponds, basins, or trenches shall be reported as an abnormal event to the Department's Northeast District Office within 24 hours of an occurrence. The provisions of Rule 62-610.800(9), F.A.C., shall be met. *[62-610.800(9), 1-9-96]*

V. OPERATION AND MAINTENANCE REQUIREMENTS

1. During the period of operation authorized by this permit, the wastewater facilities shall be operated under the supervision of a(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 III, Class C facility and, at a minimum, operators with appropriate certification must be on the site as follows:

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

   [62-620.630(3), 12-24-96] [62-699.310, 5-20-92] [62-610.462, 1-9-96]

2. A certified operator shall be on call during periods the plant is unattended. *[62-699.311(1), 5-20-92]*

3. The application to renew this permit shall include an updated capacity analysis report prepared in accordance with Rule 62-600.405, F.A.C. *[62-600.405(5), 12-24-96]*

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), 12-24-96]*

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.;

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, 12-24-96][61E12-41.010(1)(e), 11-02-93]

VI. SCHEDULES

Section VI is not applicable to this facility.

VII. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

This facility is not required to have a pretreatment program at this time. *[62-625.500, 1-8-97]*

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), 12-24-96]*

2. Florida water quality criteria and standards shall not be violated as a result of any discharge or land application of reclaimed water or residuals from this facility. *[62-610.850(1)(a) and (2)(a), 1-9-96][62-640.700(3)(c), 3-1-91]*

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. Additionally, the treatment, management, use or land application of residuals shall not cause a violation of the odor prohibition in Rule 62-296.320(2), F.A.C. *[62-600.410(8), 12-24-96 and 62-640.400(6), 3-30-98]*

4. 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), 12-26-96]*

5. Collection/transmission system overflows shall be reported to the Department in accordance with Permit Condition IX. 20. *[62-604.550, 12-26-96] [62-620.610(20), 12-24-96]*

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.

   [62-604.130(4), 12-26-96]

7. The treatment facility, storage ponds, rapid infiltration basins, and/or infiltration trenches shall be enclosed with a fence or otherwise provided with features to discourage the entry of animals and unauthorized persons. *[62-610.518(1), 1-9-96] [and 62-600.400(2)(b), 12-24-96]*

8. Disposal of screenings and grit from preliminary treatment components of wastewater treatment facilities, solids from sewer line cleaning operations, and solids from lift stations and pump stations shall be in accordance with Chapter 62-701, F.A.C. *[62-640.100(6)(k)8.,3-30-98 and 62-701.300(1)(a),4-23-97]*

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), 12-24-96]

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]

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), 12-24-96]*

11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. *[62-620.610(11), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]

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 (DOH) under Chapter 64E1, 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), 12-24-96]

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), 12-24-96]*

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.

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), 12-24-96]

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), 12-24-96]*

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), 12-24-96]

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), 12-24-96]

Executed in Jacksonville, Florida.
JMD

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

DATE: 1/10/00

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 1/10/00
Date

STATEMENT OF BASIS
FOR
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
DOMESTIC WASTEWATER FACILITY PERMIT

PERMIT NUMBER: FLA011682

FACILITY NAME: Lofton Oaks WWTF

FACILITY LOCATION: Yulee
Nassau County

NAME OF PERMITTEE: United Water Florida

PERMIT WRITER: Ching Garvey

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

The following table provides the basis for Part I. A. provisions.

Land Application System R-001

Parameter	Limit	Basis	Rationale
BOD, Carbonaceous 5 day, 20C (mg/l)	20.0 30.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample Max.	62-610.510 & 62-600.740(1)(b)1.a. FAC 62-600.740(1)(b)1.b. FAC 62-600.740(1)(b)1.c. FAC 62-600.740(1)(b)1.d. FAC
Solids, Total Suspended (mg/l)	20.0 30.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample Max.	62-610.510 & 62-600.740(1)(b)1.a. FAC 62-600.740(1)(b)1.b. FAC 62-600.740(1)(b)1.c. FAC 62-600.740(1)(b)1.d. FAC
pH (s.u.)	6.0 to 8.5	Minimum and Maximum	62-600.445 FAC
Coliform, Fecal (#/100ml)	200 200 400 800	Annual Average Monthly Geo. Mean 90th Percentile Single Sample Max.	62-610.510 & 62-600.440(4)(c)1. FAC 62-600.440(4)(c)2. FAC 62-600.440(4)(c)3. FAC 62-600.440(4)(c)4. FAC
Total Residual Chlorine (For Disinfection) (mg/l)	0.5	Minimum	62-610.510 & 62-600.440(4)(b) FAC
Nitrogen, Nitrate, Total (as N) (mg/l)	12.0	Single Sample Max.	62-610.510(1) FAC
Monitoring Frequency and Sample Type	-	All Parameters	62-601 FAC & 62-699 FAC and/or BPJ of permit writer
Sampling Location	-	All Parameters	62-610.513 FAC

The following table provides the basis for Part I. B. provisions.

Other Limitations and Monitoring Requirements:

Parameter	Limit	Basis	Rationale
Flow (mgd)	0.05	Annual Average	62-600.400(3)(b)FAC
BOD, Carbonaceous 5 day, 20C (mg/l)	Report	Monthly Average	62-601.300(1)FAC
Solids, Total Suspended (mg/l)	Report	Monthly Average	62-601.300(1)FAC

RESIDUALS MANAGEMENT

Residuals will be transported to Cope Farm land application site or disposed in a solid waste landfill in accordance with Chapter 62-701, F.A.C.

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	62-640.650(1)(b) FAC
Total Phosphorus, % dry weight	Report	62-640.650(1)(b) FAC
Total Potassium, % dry weight	Report	62-640.650(1)(b) FAC
Arsenic, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1), FAC
Cadmium, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Copper, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Lead, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Mercury, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Molybdenum, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Nickel, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Selenium, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Zinc, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
pH, std. units	Report	62-640.650(1)(b) FAC
Total Solids, %	Report	62-640.650(1)(b) FAC
Nitrogen, lb/ac/yr	Maximum	62-640.750(2)(b) FAC
Arsenic, lb/ac	Cumulative Maximum	62-640.700(3)(b)
Cadmium, lb/ac	Cumulative Maximum	62-640.700(3)(b) FAC
Copper, lb/ac	Cumulative Maximum	62-640.700(3)(b) FAC
Lead, lb/ac	Cumulative Maximum	62-640.700(3)(b) FAC
Mercury, lb/ac	Cumulative Maximum	62-640.700(3)(b) FAC
Nickel, lb/ac	Cumulative Maximum	62-640.700(3)(b) FAC

Parameter		Basis for Limit/Monitoring Requirement
Selenium, lb/ac	Cumulative Maximum	62-640.700(3)(b) FAC
Zinc, lb/ac	Cumulative Maximum	62-640.700(3)(b)
Monitoring Frequency	All Parameters	62-640.650 & 650(1)(c) FAC
Pathogen and vector attraction reduction monitoring	All Parameters	62-640.600 & 650(1)(a) FAC
Additional monitoring as determined necessary	All Parameters	62-640.650(1)(b)

INDUSTRIAL PRETREATMENT REQUIREMENTS

This facility is not required to develop an industrial pretreatment program.

APPLICABLE RULES

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:

Chapter	Effective Date
62-4	10-16-95
62-520	12-09-96
62-550	12-09-96
62-600	12-24-96
62-601	12-24-96
62-610	01-09-96
62-620	12-24-96
62-640	03-30-98
62-699	05-20-92
62-701	04-23-97

b. FS refers to various portions of the Florida Statutes

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

d. BPJ refers to Best Professional Judgment

PROPOSED SCHEDULE FOR PERMIT ISSUANCE

Effective Date of The Application : December 10, 1999

Notice of Agency Action : January 6, 2000

Issue Date of Permit : January 6, 2000

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Northeast District, 7825 Baymeadows Way, Suite B200, Jacksonville, 32256-7590

PERMITTEE NAME:	Gary Moseley	PERMIT NUMBER:	FLA011682		
MAILING ADDRESS:	1400 Millcoe Road Jacksonville, Florida 32225	LIMIT: CLASS SIZE:	Final Minor	REPORT: GROUP:	Monthly Domestic
FACILITY:	Lofton Oaks WWTF	MONITORING GROUP NUMBER:	R-001		
LOCATION:	111 Stewart Ave. Yulee, Florida 32034	PLANT SIZE/TREATMENT TYPE: NO DISCHARGE FROM SITE:	IIIC ☐		
COUNTY:	Nassau				

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
OD, Carbonaceous 5 day, 20C	Sample Measurement										
ARM Code 80082 Y ion Site No. FEA-1	Permit Requirement					200 (Ar Avg)		mg/l		Monthly	Grab
OD, Carbonaceous 5 day, 20C	Sample Measurement										
ARM Code 80082 [illegible] ion Site No. FEA-1	Permit Requirement					Report (Mo Avg)	600 (Max)	mg/l		Monthly	Grab
olids, Total Suspended	Sample Measurement										
ARM Code 00530 Y ion Site No. FEA-1	Permit Requirement					200 (Ar Avg)		mg/l		Monthly	Grab
olids, Total Suspended	Sample Measurement										
ARM Code 00530 [illegible] ion Site No. FEA-1	Permit Requirement					Report (Mo Avg)	600 (Max)	mg/l		Monthly	Grab
H	Sample Measurement										
ARM Code 00400 [illegible] ion Site No. FEA-1	Permit Requirement				6.0 (Min)		8.5 (Max)	SU		7 Days/Week	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: Lofton Oaks WWTF PERMIT NUMBER: FLA011682 MONITORING GROUP NUMBER: R-001

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Coliform, Fecal	Sample Measurement										
[redacted]	Permit Requirement	[redacted]	[redacted]	[redacted]	[redacted]	200 (An Avg)	[redacted]	#/100ml	[redacted]	Monthly	Grab
Coliform, Fecal	Sample Measurement										
[redacted]	Permit Requirement	[redacted]	[redacted]	[redacted]	[redacted]	Report (Mo Geo Mean)	800 (Max)	#/100ml	[redacted]	Monthly	Grab
Total Residual Chlorine (For Disinfection)	Sample Measurement										
[redacted]	Permit Requirement	[redacted]	[redacted]	[redacted]	0.5 (Min)	[redacted]	[redacted]	mg/l	[redacted]	5 Days/Week	Grab
Nitrogen, Nitrate, Total (as N)	Sample Measurement										
[redacted]	Permit Requirement	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	12.0 (Max)	mg/l	[redacted]	Monthly	Grab
Flow	Sample Measurement										
[redacted]	Permit Requirement	0.05 (An Avg)	[redacted]	mgd	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	5 Days/Week	Flow meters
Flow	Sample Measurement										
[redacted]	Permit Requirement	Report (Mo Avg)	[redacted]	mgd	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	5 Days/Week	Flow meters
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
[redacted]	Permit Requirement	[redacted]	[redacted]	[redacted]	[redacted]	Report (Mo Avg)	[redacted]	mg/l	[redacted]	Monthly	24 Hr Comp
Solids, Total Suspended	Sample Measurement										
[redacted]	Permit Requirement	[redacted]	[redacted]	[redacted]	[redacted]	Report (Mo Avg)	[redacted]	mg/l	[redacted]	Monthly	Grab
	Sample Measurement										
[redacted]	Permit Requirement	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
	Sample Measurement										
[redacted]	Permit Requirement	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

\ILY SAMPLE RESULTS - PART B

Facility: Loafton Oaks WWTF
PermitNumber: FLA011682
Monitoring Period From: _____ To: _____
Three-month Average Daily Flow:
(TMADF/Permitted Capacity)x100:

	Flow (mgd)	CBOD5 (mg/l)	TSS (mg/l)	pH (s.u.)	Fecal Coliform Bacteria (#/100ml)	TRC (For Disinfect.) (mg/l)	Nitrogen, Nitrate, Total (as N) (mg/l)	CBOD5 (mg/l)	TSS (mg/l)			
Code	50050	80082	00530	00400	74055	50060	00620	80082	00530			
Mon. Site	INF-1	EFA-1	EFA-1	EFA-1	EFA-1	EFA-1	EFA-1	INF-1	INF-1			
1												
2												
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Flow Avg. _____

PLANT STAFFING:

Day Shift Operator	Class: _____	Certificate No: _____	Name: _____		
Evening Shift Operator	Class: _____	Certificate No: _____	Name: _____		
Night Shift Operator	Class: _____	Certificate No: _____	Name: _____		
Lead Operator	Class: _____	Certificate No: _____	Name: _____		

Type of Effluent Disposal or Reclaimed Water Reuse: _____

Limited Wet Weather Discharge Activated: Yes: No: Not Applicable: If yes, cumulative days of wet weather _____

*Attach additional sheets if necessary to list all certified operators.

INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT

The DMR consists of four parts--A, B, C, and D--all of which may or may not be applicable to every facility. Facilities may have one or more Part A's for reporting effluent data. All domestic wastewater facilities will have a Part B for reporting daily sample results. Part C is only applicable for domestic wastewater facilities with limited wet weather discharges permitted under Chapter 62-610.860, F.A.C. Part D is used for reporting ground water monitoring well data.

Hard copies and/or electronic copies of the required parts of the DMR were provided with the permit. All required information shall be typed or printed in ink.

In addition to filling in numerical results on various parts of the DMR, the following codes should be used and an explanation provided where appropriate. *Note: Codes used by the lab for raw data may be different.*

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

CODE	DESCRIPTION/INSTRUCTIONS
NOD	No discharge from/to site.
OPS	Operations were shutdown so no sample could be taken.
OTH	Other. Please enter an explanation of why monitoring data were not available.
SEF	Sampling equipment failure.
TNTC	Too numerous too count (for fecal coliform bacteria only).

When reporting analytical results that fall below a laboratory's reported method detection limits or practical quantification limits, the following instructions and code should be used:

CODE	DESCRIPTION/INSTRUCTIONS
<	If the sampled value is less than the method detection limit (MDL), enter a less than sign followed by the laboratory's MDL value, e.g. < 0.001. In cases where a laboratory reports a value which is less than the parameter's practical quantification limit (PQL), but, not less than the MDL, the value should be reported as the laboratory's MDL value. For example, where the MDL = 0.001, the PQL = 0.005 and the laboratory reports <0.005 (the PQL), the value of 0.001 should be reported on the DMR.

PART A -DISCHARGE MONITORING REPORT (DMR)

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

No Discharge From Site: Check this box if no discharge occurs and, as a result, there are no data or codes to be entered for all of the parameters on the DMR for the entire monitoring group number. If there was no discharge of effluent for a particular outfall, reuse, or land application system and the DMR monitoring group includes other monitoring locations (e.g., influent sampling); the "NOD" code should be used to individually denote those parameters for which there was no discharge.
Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.
Sample Measurement: *Before filling in sample measurements in the table, check to see that the data collected correspond to the limit indicated* on the DMR (i.e. interim or final) and that the data correspond to the monitoring group number in the header. Enter the data or calculated results for each parameter on this row. Be sure the result being entered corresponds to the appropriate statistical base code (e.g. annual average, monthly averag le sample maximum, etc.).
No. Ex.: Enter the number of sample measurements during the monitoring period that exceeded the permit limit for each parameter. If none, enter zero.
Frequency of Analysis: The shaded areas in this column contain the minimum number of times the measurement is required to be made according to the permit. Enter the actual number of times the measurement was made in the space above the shaded area.
Sample Type: The shaded areas in this column contain the type of sample (e.g. grab, composite, continuous) required by the permit. Enter the actual sample type that was taken in the space above the shaded area.
Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.
Comment and Explanation of Any Violations: Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation. If more space is needed, reference all attachments in this area.

PART B - DAILY SAMPLE RESULTS

Month/Year: Enter the month and year during which the data on this report were collected and analyzed.
Three-month Average Daily Flow: Calculate and enter the three-month average daily flow to the treatment facility.
(TMADF/Permitted Capacity) x 100: Divide the three-month average daily flow by the permitted capacity of the treatment facility, multiply by 100, and enter this value.
Daily Monitoring Results: Record the results of daily monitoring for the parameters required to be sampled by your permit. Record the data in the units indicated.
Plant Staffing: List the name, certificate number, and class of all state certified operators operating the facility during the monitoring period. Use additional sheets as necessary.
Type of Effluent Disposal or Reclaimed Water Reuse: Enter the type of effluent disposal or reclaimed water reuse (e.g. 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).
Limited Wet Weather Discharge Activated: If this plant does not have a limited wet weather discharge permitted under the provision of Rule 62-610.860, F.A.C., check 'Not Applicable.' If the plant activated the wet weather discharge during the reporting month, check 'Yes' and attach PART C - LIMITED WET WEATHER DISCHARGE.

PART C - LIMITED WET WEATHER DISCHARGE

This part is to be completed and submitted each month reclaimed water or effluent is discharged by a limited wet weather discharge permitted under Rule 62-610.860, F.A.C. For months with no discharge, Part C need not be submitted. All information is to be provided for each day on which the limited wet weather discharge was activated.

Month/Year: Enter the month and year during which the data on this report were collected and analyzed.
Rainfall Information: Enter the name and location of the rainfall gauging station, the source of climatological (normal rainfall) data, the cumulative rainfall for the average rainfall year, and the cumulative rainfall to date for this calendar year. The cumulative rainfall for the average rainfall year 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. The cumu rainfall to date for this calendar year is the total amount of rain, in inches, that has been recorded since January 1 of the current year through the month for which this DMR contains data.
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 hr. = 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 (converted into days). 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 actual 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.
$CBOD_5$: Enter the average $CBOD_5$ 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.
Total P: Enter the cumulative number of days since January 1 of the current year during which the limited wet weather discharge was activated divided by the total number of days since January 1 of the current year multiplied by 100%.
Reason for Discharge: Provide a brief explanation of the factors contributing to the need to activate the limited wet weather discharge.

PART D - GROUND WATER MONITORING REPORT

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.
Date Sample Obtained: Enter the date the sample was taken. Also, check whether or not the well was purged before sampling.
Sampling Methods: Indicate the procedure used to collect the sample (e.g. airlift, bucket/bailer, centrifugal pump, etc.)
Samples Filtered: Indicate whether the sample obtained was filtered by laboratory (L), filtered in field (F), or unfiltered (N).
Preservatives Added: State what preservatives were added to the sample.
Analysis Method: Indicate the analytical method used. Record the method number from Chapter 62-160 or Chapter 62-601, F.A.C., or from other sources.
Analysis Result/Units: Record the results of the analysis. If the result was below the minimum detection limit, indicate that. Enter the units associated with the results of the analysis.
Detection Limits/Units: Record the detection limits of the analytical methods used and the units associated with them.
Comments and Explanations: Use this space to make any comments on or explanations of results which are unexpected. If more space is needed, reference all attachments in this area.

Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

RECEIVED
APR 05 1999

March 29, 1999

CERTIFIED MAIL -- RETURN RECEIPT

UNITED WATER FLORIDA

United Water Florida, Inc.
Mr. Gary Mosley, Vice President
1400 Millcoe Road
Jacksonville, Florida. 32225

DEP File No. FL0023604-001
Duval County
Monterey WWTF

NOTICE OF PERMIT REVISION

Enclosed is a revision to Permit Number FL0023604, issued under section(s) 403 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. 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. Attach the modified pages to the permit as they become a part thereof. All other portions of the permit remain in effect and are fully enforceable.

The Department's proposed agency action shall become final unless a timely petition for an administrative hearing is filed under sections 120.569 and 120.57 of the Florida Statutes before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

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

Petitions by the applicant or any of the parties listed below must be filed within fourteen days of receipt of this written notice. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the public notice or receipt of the written notice, whichever occurs first.

Under section 120.60(3) of the Florida Statutes, however, any person who has asked the Department for notice of agency action may file a petition within fourteen days of receipt of such notice, regardless of the date of publication.

The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition or request for mediation 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 (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

(a) The name, address, and telephone number of each petitioner; the name, address, and telephone number of the petitioner's representative, if any; each the Department case or identification number and the county in which the subject matter or activity is located;
(b) A statement of when and how each petitioner received notice of the Department action;
(c) A statement of how each petitioner's substantial interests are affected by the Department action;
(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
(e) A statement of facts that the petitioner contends warrant reversal or modification of the Department action;
(f) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief; and
(g) Demand for relief (sought by the petitioner, stating precisely the action that the petitioner wants the Department to take).

A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise contain the same information as set forth above, as required by rule 28-106.301.

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

In addition to requesting an administrative hearing, any petitioner may elect to pursue mediation. The election may be accomplished by filing with the Department a mediation agreement with all parties to the proceeding (i.e., the applicant, the Department, and any person who has filed a timely and sufficient petition for a hearing). The agreement must contain all the information required by rule 28-106.404. The agreement must be received by the clerk in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, within ten days after the deadline for filing a petition, as set

forth above. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement.

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

Executed in Jacksonville, Florida.

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 REVISION and all copies were mailed by certified mail before the close of business on 4/2, 1999 to the listed persons.

Copies furnished to:

Catharina Stoecklin -- DEP, Tallahassee

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 4/2/99
Date

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]

			Effluent Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow	mgd	Maximum	3.60	-	-	-	Continuous	Meter or Instrument	EFF-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	EFF-01	
Total Suspended Solids	mg/L	Maximum	20	30	45	60	Weekly	8-hour flow-composite	EFF-01	
Fecal Coliform Bacteria	See Permit Condition I. B.5.						Weekly	Grab	EFF-01	See I.B.12.
pH	std. units	Range	-	-	-	6.5 to 8.5	Continuous	Meter or Instrument	EFF-01	See I.B.3.
Dissolved Oxygen	mg/l	Minimum	-	-	-	1.5	Daily, 7/week	Meter or Instrument	EFF-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									

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
EFF-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

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.	PERMIT NUMBER:	FL0023604		
MAILING ADDRESS:	Mr. Gary Mosley, Vice President 1400 Millcoe Road Jacksonville, Florida 32225	MONITORING PERIOD From:		To:	
		LIMIT:	Final	REPORT:	Monthly
		CLASS SIZE:	Major	GROUP:	Domestic
FACILITY:	Monterey WWTF	FACILITY ID:	FL0023604	GMS TEST SITE NO.:	3116X00022
LOCATION:	5802 Harris Street Jacksonville, FL 32211	GMS ID NO.:	3116P01316		
		DISCHARGE POINT NUMBER:	D001		
		PLANT SIZE/TREATMENT TYPE:	IIB		
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. EFF-01	Permit Measurement	3.60 (Ann.Avg.)		mgd						Continuous	Meter or Instrument
Flow	Sample Measurement										
STORET No. 50050 1 Mon.Site No. EFF-01	Permit Measurement	Report (Mo.Avg.)		mgd						Continuous	Meter or Instrument
CBOD5	Sample Measurement										
STORET No. 80082 Y Mon.Site No. EFF-01	Permit Measurement					20.0 (Ann.Avg.)		mg/L		Weekly	8-hour, FPC
CBOD5	Sample Measurement										
STORET No. 80082 1 Mon.Site No. EFF-01	Permit Measurement					25.0 (Mo.Avg.)	60.0 (Max.)	mg/L		Weekly	8-hour, FPC
TSS	Sample Measurement										
STORET No. 00530 Y Mon.Site No. EFF-01	Permit Measurement					20.0 (Ann.Avg.)		mg/L		Weekly	8-hour
TSS	Sample Measurement										
STORET No. 00530 1 Mon.Site No. EFF-01	Permit Measurement					30.0 (Mo.Avg.)	60.0 (Max.)	mg/L		Weekly	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):

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY NAME: Monterey WWTF PERMIT NUMBER: FL0023604 DISCHARGE POINT NUMBER: D001

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
pH	Sample Measurement										
STORET No. 00400 1 Mon.Site No. EFF-01	Permit Measurement				6.5 (Min.)		8.5 (Max.)	S.U.		Continuous	Grab
Fecal Coliform Bacteria	Sample Measurement										
STORET No. 31616 Y Mon.Site No. EFF-01	Permit Measurement					200 (Ann.Avg.)		#/100mL		Weekly	Grab
Fecal Coliform Bacteria	Sample Measurement										
STORET No. 31616 1 Mon.Site No. EFF-01	Permit Measurement					Report (Mo.Geo.Mean)	800 (Max.)	#/100mL		Weekly	Grab
Dissolved Oxygen	Sample Measurement										
STORET No. 00300 1 on. Site No. EFF-01	Permit Measurement				1.5 (Min.)			mg/L		Daily, 7/week	Meter or Instrument
CBOD5	Sample Measurement										
STORET No. 80082 G Mon.Site No. INF-01	Permit Measurement					Report (Mo. Avg.)		mg/L		Weekly	8-hour FPC
TSS	Sample Measurement										
STORET No. 00530 G Mon.Site No. INF-01	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.	PERMIT NUMBER:	FL0023604		
MAILING ADDRESS:	Mr. Gary Mosley, Vice President 1400 Millcoe Road Jacksonville, Florida 32225	MONITORING PERIOD From:	_____	To:	_____
		LIMIT:	Final	REPORT:	Toxicity
		CLASS SIZE:	Major	GROUP:	Domestic
FACILITY:	Monterey WWTF	FACILITY ID:	FL0023604	GMS TEST SITE NO.:	3116X00022
LOCATION:	5802 Harris Street Jacksonville, FL 32211	GMS ID NO.:	3116P01316		
		DISCHARGE POINT NUMBER:	D001		
		PLANT SIZE/TREATMENT TYPE:	IIB		

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. EFF-01	Permit Measurement				30 MIN			Percent		Semi-Annual	4 grab hours
LC50 STATRE 96HOUR ACUTE MYSID.BAHIA (ADDITIONAL)	Sample Measurement										
STORET No. TAN3E Q Mon.Site No. EFF-01	Permit Measurement				30 MIN			Percent		As Required	4 grabs/ 24 hours
LC50 STATRE 96HOUR ACUTE MYSID.BAHIA (ADDITIONAL)	Sample Measurement										
STORET No. TAN3E R Mon.Site No. EFF-01	Permit Measurement				30 MIN			Percent		As Required	4 grabs/ 24 hours
LC50 STATRE 96HOUR ACUTE MYSID.BAHIA (ADDITIONAL)	Sample Measurement										
STORET No. TAN3E S Mon.Site No. EFF-01	Permit Measurement				30 MIN			Percent		As Required	4 grabs/ 24 hours
LC50 STATRE 96HOUR ACUTE M.BERYLLINA (ROUTINE)	Sample Measurement										
STORET No. TAN6B P Mon. Site No. EFF-01	Permit Measurement				30 MIN			Percent		Semi-Annual	4 grabs/ 24 hours
LC50 STATRE 96HOUR ACUTE M.BERYLLINA (ADDITIONAL)	Sample Measurement										
STORET No. TAN6B Q Mon. Site No. EFF-01	Permit Measurement				30 MIN			Percent		As Required	4 grabs/ 24 hours
LC50 STATRE 96HOUR ACUTE M.BERYLLINA (ADDITIONAL)	Sample Measurement										
STORET No. TAN6B R Mon. Site No. EFF-01	Permit Measurement				30 MIN			Percent		As Required	4 grabs/ 24 hours
LC50 STATRE 96HOUR ACUTE M.BERYLLINA (ADDITIONAL)	Sample Measurement										
STORET No. TAN6B S Mon. Site No. EFF-01	Permit Measurement				30 MIN			Percent		As Required	4 grabs/ 24 hours

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.	PERMIT NUMBER:	FL0023604		
MAILING ADDRESS:	Mr. Gary Mosley, Vice President 1400 Millcoe Road Jacksonville, Florida 32225	MONITORING PERIOD From:		To:	
		LIMIT:	Final	REPORT:	Quarterly
		CLASS SIZE:	Major	GROUP:	Domestic
FACILITY:	Monterey WWTF	FACILITY ID:	FL0023604	GMS TEST SITE NO.:	3116X00022
LOCATION:	5802 Harris Street Jacksonville, FL 32211	GMS ID NO.:	3116P01316		
		DISCHARGE POINT NUMBER:	D001		
		PLANT SIZE/TREATMENT TYPE:	IIB		
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. EFF-01	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. EFF-01	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. EFF-01	Permit Measurement						Report (Max)	mg/L		Once/quarter	8-hour FPC
NITROGEN, TOTAL KJELDAHL	Sample Measurement										
STORET No. 00625 1 Mon. Site No. EFF-01	Permit Measurement						Report (Max)	mg/L		Once/quarter	8-hour FPC
AMMONIA, TOTAL AS N	Sample Measurement										
STORET No. 00610 1 Mon.Site No. EFF-01	Permit Measurement						Report (Max)	mg/L		Once/quarter	8-hour F
AMMONIA, UNIONIZED (calculated)	Sample Measurement										
STORET No. 00612 1 Mon.Site No. EFF-01	Permit Measurement						Report (Max)	mg/L		Once/quarter	Calculated

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):

VERSION: 3/2

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY NAME: Monterey WWTF PERMIT NUMBER: FL0023604 DISCHARGE POINT NUMBER: D001

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
PHOSPHORUS, TOTAL	Sample Measurement										
STORET No. 00665 1 Mon.Site No. EFF-01	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-01	Permit Measurement						Report (Max)	mg/L		Once/quarter	8-hour FPC
TEMPERATURE	Sample Measurement										
STORET No. 00010 1 Mon.Site No. EFF-01	Permit Measurement						Report (Max)	°C		Once/quarter	8-hour

DAILY SAMPLE RESULTS - PART B

Facility ID: FL0023604
Month/Year: _____

Three-month Average Daily Flow: _____
Daily Flow % of Permitted Capacity: _____

	Flow (mgd)	CBOD5 (mg/L)	TSS (mg/L)	Fecal Coliform Bacteria (#/100 mL)	pH, min (s.u.)	pH, max (s.u.)	Dissolved Oxygen (mg/L)	Ammonia, Total (mg/L as N)	Ammonia, Un-ionized (mg/L as N)	CBOD5 (mg/L)	TSS (mg/L)
STORET	50050	80082	00530	31615	50060	50060	00600	00610	00665	80082	00530
Mon. Site	EFF-01	EFF-01	EFF-01	EFF-01	EFF-01	EFF-01	EFF-01	EFF-01	EFF-01	INF-01	INF-01
1											
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PLANT STAFFING:

Day Shift Operator	Class: _____	Certificate _____	Name: _____		
Evening Shift Operator	Class: _____	Certificate _____	Name: _____		
Night Shift Operator	Class: _____	Certificate _____	Name: _____		
Lead Operator	Class: _____	Certificate _____	Name: _____		

Type of Effluent Disposal or Reclaimed _____

Limited Wet Weather Discharge Activated: *Yes:* No: *Not Applicable:* *If yes, cumulative days of wet weather* _____

*Attach additional sheets if necessary to list all certified operators.

VERSION: 3/29/99

Department of Environmental Protection

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

RECEIVED
APR 04 1996
UNITED WATER FLORIDA

NOTICE OF PERMIT ISSUANCE

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.

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. (RESD)
Daryll Joyner (DEP)
Beverly Bannister (U.S. EPA)

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 4/3/96
Date

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 communition 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.

PERMITTEE:	**PERMIT NUMBER:** FL0023604
United Water Florida, Inc.	**ISSUANCE DATE:** April 2, 1996
Philip Heil, Vice President	**EXPIRATION DATE:** April 2, 2001
Monterey WWTP	**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 informantion submitted through August 16, 1995 and limitations, monitoring requirements and other conditions set forth in the pages 1 through 24 of this permit.

MITTEE:
...ted 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

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 wastewar 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]

			Effluent Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
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									

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

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 statutorty 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	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:

    a. Nitrite nitrogen (NO2-N) and nitrate nitrogen (NO3-N).
    b. Total nitrogen.
    c. Total Kjeldhal nitrogen.
    d. Organic nitrogen.
    e. Total ammonia.
    f. Unionized ammonia (calculated)
    g. temperature (average of sample time period)
    h. Total phosphorus.
    i. 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, $CBOD_5$, NH_3-N, TKN, NO_2-N and NO_3-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:

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 avereage 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]*

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]

			Effluent Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
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									

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

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 statutorty 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	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:

   a. Nitrite nitrogen (NO2-N) and nitrate nitrogen (NO3-N).
   b. Total nitrogen.
   c. Total Kjeldhal nitrogen.
   d. Organic nitrogen.
   e. Total ammonia.
   f. Unionized ammonia (calculated)
   g. temperature (average of sample time period)
   h. Total phosphorus.
   i. 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, $CBOD_5$, NH_3-N, TKN, NO_2-N and NO_3-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

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 avereage 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]*

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]

			Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maxinum	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

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]*

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]*

Agricultual 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]*

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

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 Acquistion (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.;

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 inaccordance 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]*

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)(q), 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°C

   is 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

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 facilityand 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:

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

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,

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;

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

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, receipt of which is hereby acknowledged.

Clerk 4/3/96
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

FACILITY: Monterey WWTF
LOCATION: 5802 Harris Street
Jacksonville, Florida 32211

PERMIT NUMBER: FL0023604(3116P01316)
MONITORING PERIOD–From: To:
LIMIT: Final
CLASS SIZE: Major
FACILITY ID: FL0023604(3116P01316)
DISCHARGE POINT NUMBER: D001
PLANT SIZE/TREATMENT TYPE: B/2

GROUP: Domestic
GMS ID No.: 3116X00022
WAFR Site No.: 9124

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 (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		mg/L		Weekly	8-hour flow Composite
CBOD5(30 day Average)	Sample Measurement										
Storet No. 80082 Mon. Site No. OUT-01	Permit Requirement					25	60	mg/L		Weekly	8-hour flow Composite
Total Suspended Solids (Annual Average)	Sample Measurement										
Storet No. 00530 Mon. Site No. OUT-01	Permit Requirement					20		mg/L		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	mg/L		Weekly	8-hour flow Composite
CBOD5 (Influent)	Sample Measurement										
Storet No. 80082 Mon. Site No. INF-01	Permit Requirement					Report		mg/L		Weekly	8-hour flow Composite
Total Suspended Solids (Influent)	Sample Measurement										
Storet No. 00530 Mon. Site No. INF-01	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.

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_2)																														
Chlorine Residual after Dechlorination (mg/L as Cl_2)																														
$CBOD_5$ Influent (mg/L as O_2)																														
TSS Influent (mg/L)																														
$CBOD_5$ Effluent (mg/L as O_2)																														
TSS Effluent (mg/L)																														
pH Effluent (standard units)																														
Fecal Coliform (#/100ML)																														
Dissolved Oxygen (mg/L as O_2)																														

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:
*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.
$CBOD_5$: Enter the average $CBOD_5$ 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) Facility ID.: FL0023604 Discharge Point No.: D001

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										

ADDITIONAL SHEET 2 A (To be used if more space is needed) **Facility ID.: FL0023604** **Discharge Point No.: D001 Q**

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			
Total Ammonia Nitrogen, as N	Sample Measurement										
Storet No. 00610 Mon. Site No. OUT-01	Permit Requirement						Report	mg/L		Quarterly	Grab
Nitrate-Nitrite Nitrogen, as N	Sample Measurement										
Storet No. 00630 Mon. Site No. OUT-01	Permit Requirement						Report	mg/L		Quarterly	Grab
Unionized Ammonia, as N	Sample Measurement										
Storet No. 00619 Mon. Site No. OUT-01	Permit Requirement						Report	mg/L		Quarterly	Calc.
Temperature (Degrees C)	Sample Measurement										
Storet No. 00010 Mon. Site No. OUT-01	Permit Requirement						Report	mg/L		Quarterly	Grab
Organic Nitrogen, as N	Sample Measurement										
Storet No. 000605 Mon. Site No. OUT-01	Permit Requirement						Report	mg/L		Quarterly	Grab
Total Phosphorous, as P	Sample Measurement										
Storet No. 000665 Mon. Site No. OUT-01	Permit Requirement						Report	mg/L		Quarterly	Grab
Ortho Phosphorous, as P	Sample Measurement										
Storet No. 70507 Mon. Site No. OUT-01	Permit Requirement						Report	mg/L		Quarterly	Grab
Total Nitrogen	Sample Measurement										
Storet No. 000600 Mon. Site No. OUT-01	Permit Requirement						Report	mg/L		Quarterly	Grab
Total Kjehdal Nitrogen, as N	Sample Measurement										
Storet No. 00630 Mon. Site No. OUT-01	Permit Requirement						Report	mg/L		Quarterly	Grab

ADDITIONAL SHEET 3 A **(To be used if more space is needed)** **Facility ID.: FL0023604** **Discharge Point No.: Du01 SA**

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			
96-hour Acute Static Renewal - Mysidopsis Storet No.TAN3E Mon. Site No. OUT-01	Sample Measurement										
	Permit Requirement						30% Effluent	LC_{50}		Every six months	4 Grab/6 hrs 24 hrs
96-hour Acute Static Renewal - Pimephales promelas Storet No. TAN6C Mon. Site No. OUT-01	Sample Measurement										
	Permit Requirement						30% Effluent	LC_{50}		Every six months	4 Grab/6 hrs 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 communition, 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 locationof 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.
$CBOD_5$, 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		--	--
$CBOD_5$, 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 leedsi. 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
$CBOD_5$	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)[1]	Minimum	62-600.440(4)(b) FAC
TRC (for dechlorination)[1]	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:

Chapter	Effective Date
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
$CBOD_5$	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:

Chapter	Effective Date
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:

Chapter	Effective Date
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 neighboor hood 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 inorder 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 feasiblity study will take approximately 18 months to complete. For more discussion of this, see item 9. below.

8. DISCUSSION OF PREVIOUS PERMIT EFFLUENTLIMITATIONS

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	--	--	--
$CBOD_5$, 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 antidegredation 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 inorder 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 feasiblity 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 Monerey 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 decomissioned due to age and deterioation. One of the existing tanks will be converted to an aerobic digester.

The antidegredation 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 evalution 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 officers 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

Jeb Bush
Governor

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

David B. Struhs
Secretary

RECEIVED
MAR 13 2000
UNITED WATER FLORIDA

March 8, 2000

cc: TMG.
Todd
Scott T.
file

CERTIFIED MAIL- RETURN RECEIPT

In the Matter of an
Application for Permit by:

United Water Florida
Mr. Gary Moseley, Vice President
1400 Millcoe Road
Jacksonville, FL 32225

PA File No. FLA011679-002-DW2P
Nassau County
Nassau Regional WWTF
FLA011679

NOTICE OF PERMIT ISSUANCE

Enclosed is Permit Number FLA011679 to operate and modify an existing 0.187 mgd annual average daily flow (AADF) extended aeration domestic wastewater treatment plant. The initial aeration basin will be modified by addition of a moveable baffle that will divide the basin into two zones. These zones will be operated to achieve nitrogen removal. Disinfected reclaimed water is land applied to 6.05 acres of existing rapid infiltration basins with no discharge to surface waters. Permitted capacity is limited to 0.150 mgd AADF based upon the available capacity of the two on-line infiltration basins. Increase of permitted capacity to match the treatment capacity requires permit revision for construction of piping to allow for effluent disposal to the full 12.1 acre area of the existing infiltration basins. Residuals are aerobically digested and land applied. This permit is issued under section(s) 62-4, 6-600, 62-601, 62-610, 62-620, 62-640, 62-699 of the Florida Administrative Code (FAC) and Chapter 403 of the Florida Statutes.

A person whose substantial interests are affected by the proposed permitting decision of the Department 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 of Environmental Protection, Office of General Counsel, Mail Station

35, 3900 Commonwealth Boulevard, 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 name, address, and telephone number of the petitioner's representative, if any; the Department 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 action;
(c) A statement of how each petitioner's substantial interests are affected by the Department action;
(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
(e) A statement of facts that the petitioner contends warrant reversal or modification of the Department action;
(f) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief; and
(g) 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 final action of the Department 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 action or proposed action. The agreement must be filed in (received by) the Department of Environmental Protection, Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, 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.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

for Jeremy Tyler

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 ,2000 to the listed persons.

Copies furnished to:
Gordon Grimes, P.E.
Nassau County Board of County Commissioners

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 3/9/00 Date

Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

STATE OF FLORIDA
DOMESTIC WASTEWATER FACILITY PERMIT

PERMITTEE:

United Water Florida

PERMIT NUMBER: FLA011679
PA FILE NUMBER: FLA011679-002-DW2P
ISSUANCE DATE: March 8, 2000
EXPIRATION DATE: March 7, 2005

RESPONSIBLE AUTHORITY:
Mr. Gary Moseley, Vice President
1400 Millcoe Road
Jacksonville, Florida 32225
(904) 721-4601

FACILITY:
Nassau Regional WWTF
S.R. 200 (AIA) at Chester Road
O'Neil, Florida 32034
Nassau County
Latitude: 30° 36' 45" N Longitude: 81° 33' 06" W

This permit is issued under the provisions of Chapter 403, Florida Statutes, and applicable rules of the Florida Administrative Code. 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:

To operate and modify an existing 0.187 mgd annual average daily flow (AADF) extended aeration domestic wastewater treatment plant consisting of two aeration basins in series (total volume 187,500 gallons), a single secondary clarifier (surface area of 1000 square feet), and a single 9700 gallon chlorine contact chamber.

Modifications are as follows: The first aeration basin shall be divided into two zones by a moveable baffle. Initially, the baffle will divide the basin into two equal volume zones. The first zone, which receives raw wastewater and recirculated mixed liquor, will be mixed and unaerated to create anoxic conditions conducive to denitrification. Aeration in the second zone may be cycled to alternate between anoxic and oxic conditions. The second aeration basin will be aerated and used to perform nitrification.

Disinfected reclaimed effluent is land applied to two of four existing rapid infiltration basins (total area of 12.09 acres). Permitted capacity is limited to 0.150 mgd AADF based upon the available capacity of the two on-line infiltration basins. Increase of permitted capacity to match the treatment capacity requires permit revision for construction of piping to allow for effluent disposal to the full area of the four existing infiltration basins.

Residuals are aerobically digested (112,200 gallon digester) and land applied.

REUSE:

Land Application: An existing 0.15 mgd AADF permitted capacity land application system (R-001) as referenced above. -001 consists of two rapid infiltration basins located approximately at latitude 30° 36' 45" N, longitude 81° 33' 06" W.

IN ACCORDANCE WITH: The limitations, monitoring requirements and other conditions set forth in Pages 1 through 17 of this permit.

PERMITTEE: United Water Florida

FACILITY Nassau Regional WWTF

PERMIT NUMBER: FLA011679
ISSUANCE DATE: March 8, 2000
EXPIRATION DATE: March 7, 2005
PROJECT NUMBER 002

I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Reuse and Land Application Systems

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to direct reclaimed water to Reuse System R-001. Such reclaimed water shall be limited and monitored by the permittee as specified below:

			Reclaimed Water Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow	mgd	Maximum	0.15	-	-	-	5 Days/Week	Recording flow meters and totalizers	EFA-1	See Cond.I.A.3
BOD, Carbonaceous 5 day, 20C	mg/l	Maximum	20.0	30.0	45.0	60.0	Every Two Weeks	8-hour flow proportioned composite	EFA-1	
Solids, Total Suspended	mg/l	Maximum	20.0	30.0	45.0	60.0	Every Two Weeks	8-hour flow proportioned composite	EFA-1	
pH	s.u.	Range	-	-	-	6.0 to 8.5	5 Days/Week	Grab	EFA-1	
Coliform, Fecal	See Permit Condition I.A.4.						Every Two Weeks	Grab	EFA-1	
Total Residual Chlorine (For Disinfection)	mg/l	Minimum	-	-	-	0.5	5 Days/Week	Grab	EFA-1	See Cond.I.A.5
Nitrogen, Nitrate, Total (as N)	mg/l	Maximum	-	Report	-	12.0	Every Two Weeks	8-hour flow proportioned composite	EFA-1	
Nitrogen, Kjeldahl, Total (as N)	mg/l	Maximum	-	Report	-	-	Every Two Weeks	8-hour flow proportioned composite	EFA-1	

2. Reclaimed water 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
EFA-1	Effluent from chlorine contact chamber

3. Recording flow meters and totalizers shall be utilized to measure flow and calibrated at least annually. *[62-601.200(17) and .500(6), 12-24-96]*

4. The arithmetic mean of the monthly fecal coliform values collected during an annual period shall not exceed 200 per 100 mL of reclaimed water sample. The geometric mean of the fecal coliform values for a minimum of 10 samples of reclaimed water, 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 (the 90th percentile value) 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. Note: To report the 90th percentile value, list the fecal coliform values obtained during the month in ascending order. Report the value of the sample that corresponds to the 90th percentile (multiply the number of samples by 0.9). For example, for 30 samples, report the corresponding fecal coliform number for the 27th value of ascending order. *[62-610.510, 1-9-96 and 62-600.440(4)(c), 12-24-96]*

5. 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. *[62-610.510, 1-9-96 and 62-600.440(4)(b), 12-24-96]*

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:

			Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
BOD, Carbonaceous 5 day, 20C	mg/l	Maximum	-	Report	-	-	Every Two Weeks	8-hour flow proportioned composite	INF-1	See Cond.I.B.3
Solids, Total Suspended	mg/l	Maximum	-	Report	-	-	Every Two Weeks	8-hour flow proportioned composite	INF-1	See Cond.I.B.3
Nitrogen, Kjeldahl, Total (as N)	mg/l	Maximum	-	Report	-	-	Every Two Weeks	8-hour flow proportioned composite	INF-1	

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 wastewater, prior to biological process

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), 12-24-96]*

4. 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. Parameters which must be monitored as a result of a ground water discharge (i.e., underground injection or land application system) shall be analyzed in accordance with Chapter 62-601, F.A.C. *[62-620.610(18), 12-24-96]*

5. The permittee shall provide safe access points for obtaining representative influent, reclaimed water, and effluent samples which are required by this permit. *[62-601.500(5), 12-24-96]*

6. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified on the DMR forms attached to this permit. DMRs shall be submitted for each required monitoring period including months of no discharge. The permittee shall make copies of the attached DMR form(s) and shall submit the completed DMR form(s) to the Department's Northeast District Office at the address specified in Permit Condition I.B.9. by the twenty-eighth (28th) of the month following the month of operation. *[62-620.610(18), 12-24-96][62-601.300(1), (2), and (3), 12-24-96]*

7. During the period of operation authorized by this permit, reclaimed water or effluent shall be monitored annually for the primary and secondary drinking water standards contained in Chapter 62-550, F.A.C., (except for turbidity, total coliforms, color, and corrosivity). Twenty-four hour composite samples shall be used to analyze reclaimed water or effluent for the primary and secondary drinking water standards. These monitoring results shall be reported to the Department annually on the Reclaimed Water or Effluent Analysis Report, Form 62-620.910(15), or in another format if requested by the permittee and if approved by the Department as being compatible with data entry into the Department's computer system. During years when a permit is not renewed, a certification stating that no new non-domestic wastewater dischargers have been added to the collection system since the last reclaimed water or effluent analysis was conducted may be submitted in lieu of the report. The annual reclaimed water or effluent analysis report or the certification shall be completed and submitted in a timely manner so as to be received by the Department's Northeast District Office by January 1 of each year. *[62-601.300(4), 12-24-96][62-601.500(3), 12-24-96]*

8. The permittee shall submit an annual report of reclaimed water utilization using Form 62-610.300(4)(a)2. by January 1 of each year. *[62-610.870(3), 1-9-96]*

9. 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 Northeast District Office at the address specified below:

Florida Department of Environmental Protection
Northeast District Office
7825 Baymeadows Way Suite B200
Jacksonville, Florida 32256-7590

Phone Number - (904) 448-4330
FAX Number - (904) 448-4366
All FAX copies shall be followed by original copies.

A. RESIDUALS MANAGEMENT REQUIREMENTS

1. The method of residuals use or disposal by this facility is land application or disposal in a Class I or II solid waste landfill.

2. The permittee shall be responsible for proper treatment, management, use, and land application or disposal of its residuals. *[62-640.300(5), 3-30-98]*

3. The permittee will not be held responsible for violations resulting from land application of residuals if the permittee can demonstrate that it has delivered residuals that meet the parameter concentrations and appropriate treatment requirements of this rule and the applier (e.g. hauler, contractor, site manager, or site owner) has legally agreed in writing to accept responsibility for proper land application of the residuals. Such an agreement shall state that the applier agrees, upon delivery of residuals that have been treated as required by Chapter 62-640, F.A.C.., that he will accept responsibility for proper land application of the residuals as required by Chapter 62-640, F.A.C., and that the applier agrees that he is aware of and will comply with requirements for proper land application as described in the facility's permit. *[62-640.300(5), 3-30-98]*

4. Disposal of residuals, septage, and other solids in a solid waste landfill, or disposal by placement on land for purposes other than soil conditioning or fertilization, such as at a monofill, surface impoundment, waste pile, or dedicated site, shall be in accordance with Chapter 62-701, F.A.C. *[62-640.100(6)(k)3 & 4, 3-30-98]*

5. Land application of residuals shall be in accordance with the conditions of this permit, the approved Agricultural Use Plan(s), and the requirements of Chapter 62-640, F.A.C. *[62-640, 3-30-98]*

6. The domestic wastewater residuals for this facility are classified as Class B.

7. The permittee shall achieve Class B pathogen reduction by meeting the pathogen reduction requirements in section 503.32(b)(2) (Monitoring of Indicator Organisms) of Title 40 CFR Part 503, revised as of October 25, 1995. *[62-640.600(1)(b), 3-30-98]*

8. The permittee shall achieve vector attraction reduction by meeting the vector attraction reduction requirements in section 503.33(b)(10) (Incorporate biosolids applied to or placed on the land surface within specified time periods after application to or placement on the land surface), of Title 40 CFR Part 503, revised as of October 25, 1995. *[62-640.600(2)(a), 3-30-98]*

9. Treatment of liquid residuals or septage for the purpose of meeting the pathogen reduction or vector attraction reduction requirements set forth in Rule 62-640.600, F.A.C., shall not be conducted in the tank of a hauling vehicle. Treatment of residuals or septage for the purpose of meeting pathogen reduction or vector attraction reduction requirements shall take place at the permitted facility. *[62-640.400(8), 3-30-98]*

10. Sampling and analysis shall be conducted in accordance with Title 40 CFR Part 503, section 503.8 and the U.S. Environmental Protection Agency publication - POTW Sludge Sampling and Analysis Guidance Document, 1989. In cases where disagreements exist between Title 40 CFR Part 503, section 503.8 and the POTW Sludge Sampling and Analysis Guidance Document, the requirements in Title 40 CFR Part 503, section 503.8 will apply. *(62-640.650(1), 62-640.700(1), 62-640.700(3)(b), and 62-640.850(3), 3-30-98)*

11. Grab samples shall be used for pathogens and determinations of percent volatile solids. Composite samples shall be used for metals. *[62-640.650(1)(e), 3-30-98]*

12. The permittee shall sample and analyze the Class A or Class B residuals to monitor for pathogen and vector attraction reduction requirements of Rule 62-640.600, F.A.C., and the parameters listed in the table below at least once every annually.

Parameter	Ceiling Concentrations (Single Sample)	Cumulative Application Limits
Total Nitrogen	(Report only) % dry weight	Not applicable
Total Phosphorus	(Report only) % dry weight	Not applicable
Total Potassium	(Report only) % dry weight	Not applicable
Arsenic	75 mg/kg dry weight	36.6 pounds/acre
Cadmium	85 mg/kg dry weight	34.8 pounds /acre
Copper	4300 mg/kg dry weight	1340 pounds/acre
Lead	840 mg/kg dry weight	268 pounds/acre
Mercury	57 mg/kg dry weight	15.2 pounds/acre
Molybdenum	75 mg/kg dry weight	Not applicable
Nickel	420 mg/kg dry weight	375 pounds/acre
Selenium	100 mg/kg dry weight	89.3 pounds/acre
Zinc	7500 mg/kg dry weight	2500 pounds/acre
PH	(Report only) standard units	Not applicable
Total Solids	(Report only) %	Not applicable

(62-640.650(1), 62-640.700(1), 62-640.700(3)(b), and 62-640.850(3), 3-30-98)

13. Residuals shall not be land applied if a single sample result for any parameter exceeds the ceiling concentrations given in this permit. Residuals shall not be distributed and marketed if the monthly average of sample results for any parameter exceeds the Class AA parameter concentrations given in this permit. Monthly averages of parameter concentrations shall be determined by taking the arithmetic mean of all sample results for the month. *[62-640.650(1)(f), 3-30-98]*

14. The permittee shall submit the results of all residuals monitoring with the permittee's Discharge Monitoring Report under Chapter 62-601, F.A.C. The analytical results from each sampling event shall be submitted with the report for the month in which the sampling event occurs. Copies of all applicable analytical reports shall be submitted with the monitoring results. *[62-640.650(3)(a)&(e), 3-30-98]*

15. Class B residuals shall not be used on unrestricted public access areas. Use of Class B residuals is limited to restricted public access areas such as agricultural sites, forests, and roadway shoulders and medians. *[62-640.600(3)(b), 3-30-98]*

16. Plant nursery use of Class B residuals is limited to plants which will not be sold to the public for 12 months after the last application of residuals. *[62-640.600(3)(b)1., 3-30-98]*

17. Use of Class B residuals on roadway shoulders and medians is limited to restricted public access roads. *[62-640.600(3)(b)2., 3-30-98]*

18. Food crops, feed crops, and fiber crops shall not be harvested for 30 days following the last application of Class B residuals. *[62-640.600(3)(b)6.,3-30-98]*

19. Food crops with harvested parts that touch the residuals/soil mixture and are totally above the land surface shall not be harvested for 14 months after the last application of Class B residuals. *[62-640.600(3)(b)3., 3-30-98]*

20. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of Class B residuals when the residuals remain on the land surface for four months or longer before incorporation into the soil. *[62-640.600(3)(b)4., 3-30-98]*

21. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of Class B residuals when the residuals remain on the land surface for less than four months before incorporation into the soil. *[62-640.600(3)(b)5., 3-30-98]*

22. Animals shall not be grazed on the land for 30 days after the last application of Class B residuals. *[62-640.600(3)(b)7., 3-30-98]*

23. Sod which will be distributed or sold to the public or used on unrestricted public access areas shall not be harvested for 12 months after the last application of Class B residuals. *[62-640.600(3)(b)8., 3-30-98]*

24. The public shall be restricted from application zones for 12 months after the last application of Class B residuals. *[62-640.600(3)(b), 3-30-98]*

25. Residuals that do not meet the requirements of Chapter 62-640, F.A.C., for Class AA designation shall not be used for the cultivation of tobacco or leafy vegetables. *[62-640.400(7), 3-30-98]*

26. Current Agricultural Use Plan(s) identify residuals landspreading on the following sites:

Site Name	Site Type (AG or LR)	Application Area (acres)	Site Location							
			County	Latitude			Longitude			
				DD	MM	SS	DD	MM	SS
Cope Farms	AG	234	Duval	30	30	40	82	49	50

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, unless all of the following conditions are met:

a) The permittee notifies the Department within 24 hours that the site is being used;
b) The site meets the site use restrictions of Rule 62-640.600(3), F.A.C, and the criteria for land application of residuals in Rule 62-640.700, F.A.C.;
c) The permittee submits a new or revised Agricultural Use Plan for the site with a permit application in accordance with Rule 62-640.300(2), F.A.C., within 30 days of beginning use of the site;
d) The permittee does not have another approved land application site, another approved disposal method (e.g. landfilling or incineration), or approved storage facilities available for use; and,
e) The permittee demonstrates during permit application that application of additional residuals to an existing approved application site would have resulted in violation of Department rules, or was not possible due to circumstances beyond the permittee's control.

[62-640.300(2)&(3), 3-30-98]

27. Residuals application rates are limited to agronomic rates based on the site vegetation as identified in the Agricultural Use Plan. *[62-640.750(2), 3-30-98]*

28. Residuals shall be applied with appropriate techniques and equipment to assure uniform application over the application zone. *[62-640.700(2)(c), 3-30-98]*

29. The spraying of liquid domestic wastewater residuals shall be conducted so that the formation of aerosols is minimized. *[62-640.700(2)(d), 3-30-98]*

30. Residuals storage facilities at land application sites shall be subject to applicable setback requirements for residuals application sites. Residuals stored at land application sites shall be stored in a manner that will not cause runoff or seepage from the residuals, objectionable odors, or vector attraction. Storage areas must be fenced or otherwise provided with appropriate features to discourage the entry of animals and unauthorized persons. At the time of application, the stored residuals must meet the parameter concentrations, pathogen and vector attraction reduction requirements, and cumulative application limits of this permit. Residuals storage facilities at land application sites may be used only for temporary storage of stabilized residuals for no more than 30 days during periods of inclement weather or to accommodate agricultural operations, or up to the period (not to exceed two years) specified in the Agricultural Use Plan. *[62-640.700(2)(e), 3-30-98]*

31. Residuals application sites shall be posted with appropriate advisory signs identifying the nature of the project area. *[62-640.700(2)(f), 3-30-98]*

32. The pH of the residuals soil mixture shall be 5.0 or greater at the time residuals are applied. At a minimum, soil pH testing shall be done annually. *[62-640.700(5)(d), 3-30-98]*

33. The permittee shall maintain records of application zones and application rates and shall make these records available for inspection within seven days of request by the Department, or delegated Local Program. The permittee shall maintain record items a. through e. below in perpetuity, and maintain record items f. through k. for five years:

    a. Date of application of the residuals;
    b. Location of the residuals application site as specified in the Agricultural Use Plan;
    c. Identification of each application zone used by the permittee at the application site and the acreage of each zone;
    d. Amount of residuals applied or delivered to each application zone;
    e. Cumulative loading of each application zone;
    f. The names of all other wastewater facilities using each of the application zones identified in item c.;
    g. Method of incorporation (if any);
    h. Measured pH of the residuals soil mixture at the time the residuals are applied (tested at least annually);
    i. Unsaturated depth of soil above the water table level at the time of application;
    j. Concentration of parameters in the residuals as required by this permit, and the date of last analysis; and
    k. The results of any soil testing that is done under Rule 62-640.500(4)(a), F.A.C.

    [62-640.650(2), 3-30-98]

34. The permittee shall submit an annual summary of residuals application activity to the Northeast District Office on Department Form 62-640.210(2)(b) for all residuals applied during the period of January 1 through December 31. The summary for each year shall be submitted by February 19 of the following year. If more than one facility applies residuals to the same application zones, the summary must include a subtotal of each facility's contribution of residuals to the application zones. *[62-640.650(3)(b), 3-30-98]*

35. If residuals that are subject to the cumulative loading limitations of Rule 62-640.700(3), F.A.C., have been applied to an application zone, and the cumulative loading amount of one or more of the pollutants is not known, no further applications of residuals may be made to that application zone. *[62-640.700(3)(f), 3-30-98]*

36. A minimum unsaturated soil depth of two feet above the water table level is required at the time the residuals are applied to the soil. *[62-640.700(6)(a), 3-30-98]*

37. Residuals shall not be applied during rains that cause runoff from the site or when surface soils are saturated. *[62-640.700(7)(a), 3-30-98]*

38. Land application of "other solids" as defined in Chapter 62-640, F.A.C., is only allowed if specifically addressed in the Agricultural Use Plan(s) approved for this facility. Land application of "other solids" is subject to Chapter 62-640, F.A.C., and the permit conditions that apply to land applied residuals. *[62-640.860, 3-30-98]*

39. If the permittee intends to accept residuals from other facilities, a permit revision is required pursuant to Rule 62-640.880(2)(d), F.A.C. *[62-640.880(2)(d), 3-30-98]*

40. Storage of residuals or other solids at the permitted facility shall require prior written notification to the Department. *[62-640.300(4), 3-30-98]*

III. GROUND WATER MONITORING REQUIREMENTS

1. During the period of operation authorized by this permit, the permittee shall conduct ground water monitoring in accordance with this permit and the approved ground water monitoring plan. *[62-522.600, 4-14-94] [62-610.424, 62-610.474, 62-610.524, 62-610.574, 62-610.624, 62-610.660, and 62-610.830(1)(d), 4/2/90]*

2. The following monitoring wells are established for ground water monitoring. *[62-522.600, 4-14-94] [62-610.424, 62-610.474, 62-610.524, 62-610.574, 62-610.624, 62-610.660, and 62-610.830(1)(d), 4/2/90]*

Well Name	*Monitoring Location Site Number*	*Depth (Feet)*	*Approximate Well Location*	*Well Type*	*New or Existing*
MWC-1	10011	12	At the SE corner of WWTF site.	Compliance	Existing
MWC-2	10010	11	Midway along western site margin.	Compliance	Existing
MWI-3	10009	11	Area south of the percolation ponds.	Intermediate	Existing
MWC-4	10008	10	Midway along eastern site margin.	Compliance	Existing
MWB-5	10007	10	At NE corner of percolation ponds.	Background	Existing
MWB-6	10006	21	At NW corner of percolation ponds.	Background	Existing

3. Any ground water monitoring wells identified above as "new", shall be installed within 90 days of issuance of this permit. Within 30 days following the installation of any monitoring well, the permittee shall detail the well construction, surveyed location and casing elevation on DEP Form 62-522.900(3). *[62-522.600, 4-14-94]*

4. All ground water monitoring wells shall have a nominal inside casing diameter of at least 2-inches, and shall conform to the construction and development specifications set forth in ASTM Standard D-5092 and the approved ground water monitoring plan. The permittee shall give at least 72-hours notice to the Ground Water Section of the DEP's Northeast District prior to the installation of any monitor wells detailed in this permit.

5. The following parameters shall be analyzed at the specified frequency for each of the monitoring well(s) identified above: *[62-522.600(11)(b), 4/1/94] [62-601.300(3), 62.601.700, and Figure 3 of 62-601]*

PARAMETER	*STORET*	*SAMPLE TYPE*	*FREQUENCY*
Water level (feet)	82545	in-situ	Quarterly
Nitrite+Nitrate (mg/l as N)	00630	grab	Quarterly
Total Dissolved Solids (mg/l)	70304	grab	Quarterly
Arsenic (ug/l)	01002	grab	Quarterly
Cadmium (ug/l)	01027	grab	Quarterly
Chromium (ug/l)	01034	grab	Quarterly [1]
Lead (ug/l)	01051	grab	Quarterly
Turbidity (NTU)	82079	grab	Quarterly
Chloride (mg/l)	00940	grab	Quarterly
Fecal Coliform (colonies/100 ml)	31616	grab	Quarterly
pH (standard units)	00406	in-situ	Quarterly
Sulfate (mg/l)	00945	grab	Quarterly

6. Ground water sampling and reporting shall conform to the schedule set forth below, with the monitoring results to be submitted on DEP Form 62-620.910(10), or such other format as approved by the Department. *[62-522.600(10) and (11)(b), 4-14-94] [62-601.300(3), 62.601.700, and Figure 3 of 62-601] [62-620.610(18), 12-24-96]*

SAMPLE PERIOD	*Quarterly*	*REPORT DEADLINE*
(January-March)	X	April 28th
(April-June)	X	July 28th
(July-September)	X	October 28th
(October-December)	X	January 28th

7. Water levels shall be recorded prior to purging the well for sample collection. Measurements, referenced to mean sea level, shall include the top of the well casing, depth to ground water, and the calculated ground water elevation at a precision of ±0.1 feet. *[62-610.424(3), 4-2-94]*

8. Ground water monitoring wells shall be purged prior to sampling in order to obtain a representative sample. All sample collection and analytical procedures shall conform to the applicable Quality Assurance/Quality Control requirements of Chapter 62-160, F.A.C. *[62-620.610(18), 12-24-96]*

9. The Permittee shall provide written notice to the Department within 7 days of discovery that a monitor well has been vandalized or otherwise damaged. The notice shall detail the nature and scope of damage as well as any remedial measures taken to prevent a recurrence. Repair or replacement of monitor wells shall be approved in advance by the Department.

10. All correspondence, reports, plans and summaries pertaining to ground water monitoring shall be sent to the attention of the Ground Water Section at the DEP Northeast District Office.

IV. ADDITIONAL REUSE AND LAND APPLICATION REQUIREMENTS

Part IV Rapid Infiltration Basins

1. All ground water quality criteria specified in Chapter 62-520, F.A.C., shall be met at the edge of the zone of discharge. The zone of discharge for this project shall extend horizontally 100 feet from the application site or to the facility's property line, whichever is less, and vertically to the base of the surficial aquifer. *[62-520.200(23), 12-9-96] [62-522.400 and 62-522.410, 12-9-96]*

2. Advisory signs shall be posted around the site boundaries to designate the nature of the project area. *[62-610.518, 1-9-96]*

3. The annual average hydraulic loading rate to the Rapid infiltration basins shall be limited to a maximum of 0.91 inches per day (as applied to the entire bottom area). *[62-610.523(3), 1-9-96]*

4. The rapid infiltration basins normally shall be loaded for 7 days and shall be rested for 7 days. Infiltration ponds, basins, or trenches shall be allowed to dry during the resting portion of the cycle. *[62-610.523(4), 1-9-96]*

5. Rapid infiltration basins shall be routinely maintained to control vegetation growth and to maintain percolation capability by scarification or removal of deposited solids. Basin bottoms shall be maintained to be level. *[62-610.523(6) and (7), 1-9-96]*

6. Routine aquatic weed control and regular maintenance of storage pond embankments and access areas are required. *[62-610.514 and 62-610.414, 1-9-96]*

7. Overflows from emergency discharge facilities on storage ponds or on infiltration ponds, basins, or trenches shall be reported as an abnormal event to the Department's Northeast District Office within 24 hours of an occurrence. The provisions of Rule 62-610.800(9), F.A.C., shall be met. *[62-610.800(9), 1-9-96]*

V. OPERATION AND MAINTENANCE REQUIREMENTS

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

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

   [62-620.630(3), 12-24-96] [62-699.310, 5-20-92] [62-610.462, 1-9-96]

2. A certified operator shall be on call during periods the plant is unattended. *[62-699.311(1), 5-20-92]*

3. The application to renew this permit shall include an updated capacity analysis report prepared in accordance with Rule 62-600.405, F.A.C. *[62-600.405(5), 12-24-96]*

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), 12-24-96]*

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.;

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, 12-24-96][61E12-41.010(1)(e), 11-02-93]

VI. SCHEDULES

The permittee shall comply with all schedules outlined in Consent Order Number 00-0012 unless the permittee requests and is granted a revision to the Consent Order and this permit through a minor revision to permit. The conditions of the Consent Order are incorporated by reference into this permit.

VII. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

This facility is not required to have a pretreatment program at this time. *[62-625.500, 1-8-97]*

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), 12-24-96]*

2. Florida water quality criteria and standards shall not be violated as a result of any discharge or land application of reclaimed water or residuals from this facility. *[62-610.850(1)(a) and (2)(a), 1-9-96][62-640.700(3)(c), 3-1-91]*

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. Additionally, the treatment, management, use or land application of residuals shall not cause a violation of the odor prohibition in Rule 62-296.320(2), F.A.C. *[62-600.410(8), 12-24-96 and 62-640.400(6), 3-30-98]*

4. 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), 12-26-96]*

5. Collection/transmission system overflows shall be reported to the Department in accordance with Permit Condition IX. 20. *[62-604.550, 12-26-96] [62-620.610(20), 12-24-96]*

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.

   [62-604.130(4), 12-26-96]

7. The treatment facility, storage ponds, rapid infiltration basins, and/or infiltration trenches shall be enclosed with a fence or otherwise provided with features to discourage the entry of animals and unauthorized persons. *[62-610.518(1), 1-9-96] [and 62-600.400(2)(b), 12-24-96]*

8. Disposal of screenings and grit from preliminary treatment components of wastewater treatment facilities, solids from sewer line cleaning operations, and solids from lift stations and pump stations shall be disposed in accordance with Chapter 62-701, F.A.C. *[62-640.100(6)(k)8., 3-30-98 and 62-701.300(1)(a),4-23-97]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]

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), 12-24-96]*

11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. *[62-620.610(11), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]

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 (DOH) under Chapter 64E1, 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), 12-24-96]

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), 12-24-96]*

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.

    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), 12-24-96]

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), 12-24-96]*

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), 12-24-96]

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), 12-24-96]

BFW
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Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Jeremy Tyler
for

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

DATE: 3/9/00

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 3/9/00 Date

STATEMENT OF BASIS
FOR
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
DOMESTIC WASTEWATER FACILITY PERMIT

PERMIT NUMBER: FLA011679
FACILITY NAME: Nassau Regional WWTF
FACILITY LOCATION: O'Neil, Nassau County
NAME OF PERMITTEE: United Water Florida
PERMIT WRITER: Tom Potter

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

The following table provides the basis for Part I. A. provisions.

Land Application System R-001

Parameter	Limit	Basis	Rationale
Flow (mgd)	0.15	Annual Average	62-600.400(3)(b) FAC (see Note 1)
BOD, Carbonaceous 5 day, 20C (mg/l)	20.0 30.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample Max.	62-610.510 & 62-600.740(1)(b)1.a. FAC 62-600.740(1)(b)1.b. FAC 62-600.740(1)(b)1.c. FAC 62-600.740(1)(b)1.d. FAC
Solids, Total Suspended (mg/l)	20.0 30.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample Max.	62-610.510 & 62-600.740(1)(b)1.a. FAC 62-600.740(1)(b)1.b. FAC 62-600.740(1)(b)1.c. FAC 62-600.740(1)(b)1.d. FAC
PH (s.u.)	6.0 to 8.5	Minimum and Maximum	62-600.445 FAC
Coliform, Fecal (#/100ml)	200 200 400 800	Annual Average Monthly Geo. Mean 90th Percentile Single Sample Max.	62-610.510 & 62-600.440(4)(c)1. FAC 62-600.440(4)(c)2. FAC 62-600.440(4)(c)3. FAC 62-600.440(4)(c)4. FAC
Total Residual Chlorine (For Disinfection) (mg/l)	0.5	Minimum	62-610.510 & 62-600.440(4)(b) FAC
Nitrogen, Nitrate, Total (as N) (mg/l)	Report 12.0	Monthly Average Single Sample Max.	BPJ, Process control and compliance tracking. The facility has been out of compliance for exceeding effluent nitrate limits. 62-610.510(1) FAC
Nitrogen, Kjeldahl, Total (as N) (mg/l)	Report	Monthly Average	BPJ, Process control and compliance tracking. The facility has been out of compliance for exceeding effluent nitrate limits. Provides assurance that total nitrogen in effluent will not cause nitrate exceedance in groundwater.
Monitoring Frequency and Sample Type	-	All Parameters	62-601 FAC & 62-699 FAC and/or BPJ of permit writer
Sampling Location	-	All Parameters	62-610.513 FAC

Part I.A. Notes:

1. The facility will be limited to a permitted discharge of 0.150 mgd AADF based upon documented existing disposal capacity of basins 1 and 2. (See mounding analysis submitted 8/26/99.) Upon construction of piping to bring existing basins 3 and 4 on-line the allowable disposal capacity can be increased as high as 0.300 mgd based on the submitted report. Further increases in disposal capacity will require submission of an engineering report with supporting analysis and data or additional disposal area design. Treatment design capacity for the facility was originally 0.5 mgd using a contact stabilization process and 0.187 mgd using an extended air process. This application requested an increase to 0.249 mgd as an extended air process. Subsequent to this request, the applicant proposed implementing a pre-denitrification flow scheme by construction of a moveable baffle to create an anoxic zone. This minor modification was proposed to address effluent nitrate violations. Supporting calculations for the modification were submitted using a flow of 0.085 mgd. Based upon the submitted CAR, the current treatment capacity limit of 0.187 mgd is more than sufficient to meet projected demand over the next permitting cycle. A substantial permit modification and public notification will be required in the future to increase disposal capacity above .150 mgd. The permitting of a required increase in treatment capacity above 0.187 mgd in accordance with increased disposal capacity would be appropriate at that time since permitting of a capacity increase also requires a substantial modification application, engineering report, fee and public notification.

The following table provides the basis for Part I. B. provisions.

Other Limitations and Monitoring Requirements:

Parameter	*Limit*	*Basis*	Rationale
BOD, Carbonaceous 5 day, 20C (mg/l)	Report	Monthly Average	62-601.300(1)FAC
Solids, Total Suspended (mg/l)	Report	Monthly Average	62-601.300(1)FAC
Nitrogen, Kjeldahl, Total (as N) (mg/l)	Report	Monthly Average	BPJ, Process control data will allow for estimation of influent C/N ratio. Provide assurance that available carbon source is adequate

RESIDUALS MANAGEMENT

Class B residuals to be disposed of at Cope Farms Land application site or in a solid waste landfill in accordance with Chapter 62-701, F.A.C.. Cope Farms Agricultural Use Plan signed 11/22/99 with final corrected submission made on 12/17/99.

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	62-640.650(1)(b) FAC
Total Phosphorus, % dry weight	Report	62-640.650(1)(b) FAC
Total Potassium, % dry weight	Report	62-640.650(1)(b) FAC
Arsenic, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1), FAC
Cadmium, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Copper, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Lead, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Mercury, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Molybdenum, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Nickel, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Selenium, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Zinc, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
pH, std. units	Report	62-640.650(1)(b) FAC

Parameter		Basis for Limit/Monitoring Requirement
Total Solids, %	Report	62-640.650(1)(b) FAC
Nitrogen, lb/ac/yr	Maximum	62-640.750(2)(b) FAC
Arsenic, lb/ac	Cumulative Maximum	62-640.700(3)(b)
Cadmium, lb/ac	Cumulative Maximum	62-640.700(3)(b) FAC
Copper, lb/ac	Cumulative Maximum	62-640.700(3)(b) FAC
Lead, lb/ac	Cumulative Maximum	62-640.700(3)(b) FAC
Mercury, lb/ac	Cumulative Maximum	62-640.700(3)(b) FAC
Nickel, lb/ac	Cumulative Maximum	62-640.700(3)(b) FAC
Selenium, lb/ac	Cumulative Maximum	62-640.700(3)(b) FAC
Zinc, lb/ac	Cumulative Maximum	62-640.700(3)(b)
Monitoring Frequency	All Parameters	62-640.650 & 650(1)(c) FAC
Pathogen and vector attraction reduction monitoring	All Parameters	62-640.600 & 650(1)(a) FAC
Additional monitoring as determined necessary	All Parameters	62-640.650(1)(b)

INDUSTRIAL PRETREATMENT REQUIREMENTS

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

APPLICABLE RULES

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:

Chapter	Effective Date
62-4	10-16-95
62-520	12-09-96
62-550	12-09-96
62-600	12-24-96
62-601	12-24-96
62-602	12-30-99
62-610	01-09-96
62-620	12-24-96
62-640	03-30-98
62-699	05-20-92

b. FS refers to various portions of the Florida Statutes
c. CFR refers to various portions of the Code of Federal Regulations, Title 40
d. BPJ refers to Best Professional Judgment

PROPOSED SCHEDULE FOR PERMIT ISSUANCE

Effective Date of the Application: December 17, 1999
Notice of Agency Action : March 8, 2000
Proposed Issuance Date of Permit : March 8, 2000

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Northeast District, 7825 Baymeadows Way, Suite B200, Jacksonville, Florida 32256-7590

PERMITTEE NAME:	United Water Florida	PERMIT NUMBER:	FLA011679		
MAILING ADDRESS:	1400 Millcoe Road	LIMIT:	Final	REPORT:	Monthly
	Jacksonville, FL 32225	CLASS SIZE:	N/A	GROUP:	Domestic
FACILITY:	Nassau Regional WWTF	MONITORING GROUP NUMBER:	R-001		
LOCATION:	S.R. 200 (AIA) at Chester Road	PLANT SIZE/TREATMENT TYPE:	IIIC		
	O'Neil, Florida 32034	NO DISCHARGE FROM SITE:	☐		
COUNTY:	Nassau				

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 Y Mon.Site No. EFA-1	Permit Requirement	0.15 (An.Avg.)		mgd						5 Days/Week	Flow meters and totalizers
Flow	Sample Measurement										
PARM Code 50050 1 Mon.Site No. EFA-1	Permit Requirement	Report (Mo.Avg.)		mgd						5 Days/Week	Flow meters and totalizers
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 Y Mon.Site No. EFA-1	Permit Requirement					20.0 (An.Avg.)		mg/l		Every Two Weeks	8-hour FPC
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 1 Mon.Site No. EFA-1	Permit Requirement					Report (Mo.Avg.)	60.0 (Max.)	mg/l		Every Two Weeks	8-hour FPC
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 Y Mon.Site No. EFA-1	Permit Requirement					20.0 (An.Avg.)		mg/l		Every Two Weeks	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):

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY NAME: Nassau Regional WWTF

PERMIT NUMBER: FLA011679

MONITORING GROUP NUMBER: R-001

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 1	Permit Requirement					Report (Mo.Avg.)	60.0 (Max.)	mg/l		Every Two Weeks	8-hour FPC
Mon.Site No. EFA-1											
PH	Sample Measurement										
PARM Code 00400 1	Permit Requirement				6.0 (Min.)		8.5 (Max.)	s.u.		5 Days/Week	Grab
Mon.Site No. EFA-1											
Coliform, Fecal	Sample Measurement										
PARM Code 74055 Y	Permit Requirement					200 (An.Avg.)		#/100ml		Every Two Weeks	Grab
Mon.Site No. EFA-1											
Coliform, Fecal	Sample Measurement										
PARM Code 74055 1	Permit Requirement					Report (Mo.Geo.Mean)	800 (Max.)	#/100ml		Every Two Weeks	Grab
Mon.Site No. EFA-1											
Total Residual Chlorine (For Disinfection)	Sample Measurement										
PARM Code 50060 2 A	Permit Requirement				0.5 (Min.)			mg/l		5 Days/Week	Grab
Mon.Site No. EFA-1											
Nitrogen, Nitrate, Total (as N)	Sample Measurement										
PARM Code 00620 1	Permit Requirement					Report (Mo.Avg.	12.0 (Max.)	mg/l		Every Two Weeks	8-hour FPC
Mon.Site No. EFA-1											
Nitrogen, Kjeldahl (as N)	Sample Measurement										
PARM Code 00625 1	Permit Requirement					Report (Mo.Avg.)		mg/l		Every Two Weeks	8-hour FPC
Mon.Site No. EFA-1											
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 G	Permit Requirement					Report (Mo.Avg.)		mg/l		Every Two Weeks	8-hour FPC
Mon.Site No. INF-1											
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 G	Permit Requirement					Report (Mo.Avg.)		mg/l		Every Two Weeks	8-hour FPC
Mon.Site No. INF-1											
Nitrogen, Kjeldahl (as N)	Sample Measurement										
PARM Code 00625 G	Permit Requirement					Report (Mo.Avg.)		mg/l		Every Two Weeks	8-hour FPC
Mon.Site No. INF-1											

DAILY SAMPLE RESULTS - PART B

PermitNumber: FLA011679 Nassau Regional WWTF, Nassau County

Three-month Average Daily Flow:

Monitoring Period From: _____ To: _____

(TMADF/Permitted Capacity)x100:

	Flow (mgd)	CBOD5 (mg/l)	CBOD5 (mg/l)	TSS (mg/l)	TSS (mg/l)	pH (s.u.)	Fecal Coliform Bacteria (#/100ml)	TRC (For Disinfect.) (mg/l)	Nitrogen, Nitrate, Total (as N) (mg/l)	TKN (mg/l)	TKN (mg/l)
Code	50050	80082	80082	00530	00530	00400	74055	50060	00620	00625	00625
Mon. Site	EFA-1	EFA-1	INF-1	EFA-1	INF-1	EFA-1	EFA-1	EFA-1	EFA-1	EFA-1	INF-1
1											
2											
3											
4											
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PLANT STAFFING:

Day Shift Operator Class: _____ Certificate No: _____ Name: _____

Evening Shift Operator Class: _____ Certificate No: _____ Name: _____

Night Shift Operator Class: _____ Certificate No: _____ Name: _____

' Operator Class: _____ Certificate No: _____ Name: _____

of Effluent Disposal or Reclaimed Water Reuse: _____

Limited Wet Weather Discharge Activated: Yes: No: Not Applicable: If yes, cumulative days of wet weather _____

*Attach additional sheets if necessary to list all certified operators.

INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT

The DMR consists of four parts--A, B, C, and D--all of which may or may not be applicable to every facility. Facilities may have one or more Part A's for reporting effluent data. All domestic wastewater facilities will have a Part B for reporting daily sample results. Part C is only applicable for domestic wastewater facilities with limited wet weather discharges permitted under Chapter 62-610.860, F.A.C. Part D is used for reporting ground water monitoring well data.

Hard copies and/or electronic copies of the required parts of the DMR were provided with the permit. All required information shall be typed or printed in ink.

In addition to filling in numerical results on various parts of the DMR, the following codes should be used and an explanation provided where appropriate. Note: Codes used by the lab for raw data may be different.

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

CODE	DESCRIPTION/INSTRUCTIONS
NOD	No discharge from/to site.
OPS	Operations were shutdown so no sample could be taken.
OTH	Other. Please enter an explanation of why monitoring data were not available.
SEF	*Sampling equipment failure.*
TNTC	Too numerous too count (for fecal coliform bacteria only).

When *reporting analytical results that fall below* a laboratory's reported method detection limits or practical quantification limits, the following instructions and code should be used:

CODE	DESCRIPTION/INSTRUCTIONS
<	If the sampled value is less than the method detection limit (MDL), enter a less than sign followed by the laboratory's MDL value, e.g. < 0.001. *In cases where a laboratory reports a value which is less* than the parameter's practical quantification limit (PQL), but, not less than the MDL, the value should be reported as the laboratory's MDL value. For example, where the MDL = 0.001, the PQL = 0.005 and the laboratory reports <0.005 (the PQL), *the value of 0.001 should be reported on the* DMR.

PART A -*DISCHARGE MONITORING REPORT* (DMR)

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

No Discharge From Site: Check this box if no discharge occurs and, as a result, there are no data or codes to be entered for all of the parameters on the DMR for *the entire monitoring group number.* If there was no discharge of effluent for a particular outfall, reuse, or land application system and the DMR monitoring group includes other monitoring locations (e.g., influent sampling); the "NOD" code should be used to individually denote those parameters for which there was no discharge.
Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.
Sample Measurement: Before filling in sample measurements in the table, check to see that the data collected correspond to the limit indicated on the DMR (i.e. interim or final) and that the data correspond to the monitoring group number in the header. Enter the data or calculated results for each parameter on this row. Be sure the result being entered corresponds to the appropriate statistical base code (e.g. *annual average*, monthly average, single sample maximum, etc.).
No. Ex.: Enter the number of sample measurements during the monitoring period that exceeded the *permit limit for each parameter. If none*, enter zero.
Frequency of Analysis: The shaded areas in this column contain the minimum number of times the measurement is required to be made according to the permit. Enter the actual number of times the measurement was made in the space above the *shaded area.*
Sample Type: The shaded areas in this column contain the type of sample (e.g. grab, composite, continuous) required by the permit. Enter the actual sample type that was taken in the space above the *shaded area.*
Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.
Comment and Explanation of Any Violations: Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation. If more space is needed, reference all attachments in this area.

PART B - DAILY SAMPLE RESULTS

Month/Year: Enter the month and year during which the data on this report were collected and analyzed.
Three-month Average Daily Flow: Calculate and enter the three-month average daily flow to the treatment facility.
(TMADF/Permitted Capacity) x 100: Divide the three-month average daily flow by the permitted capacity of the treatment facility, multiply by 100, and enter this value.
Daily Monitoring Results: Record the results of daily monitoring for the parameters required to be sampled by your permit. Record the data in the units indicated.
Plant Staffing: List the name, certificate number, and class of all state certified operators operating the facility during the monitoring period. Use additional sheets as necessary.
Type of Effluent Disposal or Reclaimed Water Reuse: Enter the type of effluent disposal or reclaimed water reuse (e.g. 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).
Limited Wet Weather Discharge Activated: If this plant does not have a limited wet weather discharge permitted under the provision of Rule 62-610.860, F.A.C., check 'Not Applicable.' If the plant activated the wet weather discharge during the reporting month, check 'Yes' and attach PART C - LIMITED WET WEATHER DISCHARGE.

PART C - LIMITED WET WEATHER DISCHARGE

This part is to be completed and submitted each month reclaimed water or effluent is discharged by a limited wet weather discharge permitted under Rule 62-610.860, F.A.C. *For months with no discharge, Part C need not be* submitted. All information is to be provided for each day on which the limited wet weather discharge was activated.

Month/Year: Enter the month and year during which the data on this report were collected and analyzed.
Rainfall Information: *Enter the name and location of the rainfall gauging station, the source of climatological (normal rainfall)* data, the cumulative rainfall for the average rainfall year, and the cumulative rainfall to date for this calendar year. The cumulative rainfall for the average rainfall year 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. The cumulative rainfall to date for this calendar year is the total amount of rain, in inches, that has been recorded since January 1 of the current year through the month for which this DMR contains data.
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 hr. = 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 (converted into days). 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 actual 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.*
$CBOD_5$: Enter the average $CBOD_5$ 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.
Total P: Enter the cumulative number of days since January 1 of the current year during which the limited wet weather discharge was activated divided by the total number of days since January 1 of the current year multiplied by *100%*.
Reason for Discharge: Provide a brief explanation of the factors contributing to the need to activate the limited wet weather discharge.

PART D - GROUND WATER MONITORING REPORT

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.
Date Sample Obtained: Enter the date the sample was taken. Also, check whether or not the well was purged before sampling.
Sampling Methods: Indicate the procedure used to collect the sample (e.g. airlift, bucket/bailer, centrifugal pump, etc.)
Samples Filtered: Indicate whether the sample obtained was filtered by laboratory (L), filtered in field (F), or unfiltered (N).
Preservatives Added: State what preservatives were added to the sample.
Analysis Method: Indicate the analytical method used. Record the method number from Chapter 62-160 or Chapter 62-601, F.A.C., or from other sources.
Analysis Result/Units: Record the results of the analysis. If the result was below the minimum detection limit, indicate that. Enter the units associated with the results of the analysis.
Detection Limits/Units: Record the detection limits of the analytical methods used and the units associated with them.
Comments and Explanations: Use this space to make any comments on or explanations of results which are unexpected. If more space is needed, reference all attachments in this area.

GROUNDWATER MONITORING REPORT

Facility ID (Permit No): FLA011679 Facility Name: Nassau Regional WWTF Testsite Name: MWC-1

Report Period: WAFR Testsite ID: 10011

Sample Date: Well Type: Compliance

Was well purged before sample collection? Ground Water Classification: G-II

Parameter	STORET Code	Sample Method	Samples Filtered (Y/N)	Preservative Added	Analysis Method	Analysis Result/Units	Detection Limit/Units
Water Level (NGVD)	82545					feet	± 0.1 feet
Nitrite+Nitrate (as N)	00630					mg/L	mg/L
Total Dissolved Solids	70304					mg/L	mg/L
Arsenic	01002					ug/L	ug/L
Cadmium	01027					ug/L	ug/L
Chromium	01034					ug/L	ug/L
Lead	01051					ug/L	ug/L
Turbidity	82078					mg/L	mg/L
Chloride	00940					mg/L	mg/L
Fecal Coliform	31616					#/100mL	#/100mL
pH (field)	00406					S.U.	S.U.
Sulfate	00945					mg/L	mg/L

Comments & Explanations:

GROUNDWATER MONITORING REPORT

Facility ID (Permit No): FLA011679 Facility Name: Nassau Regional WWTF Testsite Name: MWC-2

Report Period: WAFR Testsite ID: 10010

Sample Date: Well Type: Compliance

Was well purged before sample collection? Ground Water Classification: G-II

Parameter	STORET Code	Sample Method	Samples Filtered (Y/N)	Preservative Added	Analysis Method	Analysis Result/Units	Detection Limit/Units
Water Level (NGVD)	82545					feet	± 0.1 feet
Nitrite+Nitrate (as N)	00630					mg/L	mg/L
Total Dissolved Solids	70304					mg/L	mg/L
Arsenic	01002					ug/L	ug/L
Cadmium	01027					ug/L	ug/L
Chromium	01034					ug/L	ug/L
Lead	01051					ug/L	ug/L
Turbidity	82078					mg/L	mg/L
Chloride	00940					mg/L	mg/L
Fecal Coliform	31616					#/100mL	#/100mL
pH (field)	00406					S.U.	S.U.
Sulfate	00945					mg/L	mg/L

Comments & Explanations:

GROUNDWATER MONITORING REPORT

Facility ID (Permit No): FLA011679 Facility Name: Nassau Regional WWTF Testsite Name: MWI-3

Report Period: WAFR Testsite ID: 10009

Sample Date: Well Type: Intermediate

Was well purged before sample collection? Ground Water Classification: G-II

Parameter	STORET Code	Sample Method	Samples Filtered (Y/N)	Preservative Added	Analysis Method	Analysis Result/Units	Detection Limit/Units
Water Level (NGVD)	82545					feet	± 0.1 feet
Nitrite+Nitrate (as N)	00630					mg/L	mg/L
Total Dissolved Solids	70304					mg/L	mg/L
Arsenic	01002					ug/L	ug/L
Cadmium	01027					ug/L	ug/L
Chromium	01034					ug/L	ug/L
Lead	01051					ug/L	ug/L
Turbidity	82078					mg/L	mg/L
Chloride	00940					mg/L	mg/L
Fecal Coliform	31616					#/100mL	#/100mL
pH (field)	00406					S.U.	S.U.
Sulfate	00945					mg/L	mg/L

Comments & Explanations:

GROUNDWATER MONITORING REPORT

Facility ID (Permit No): FLA011679 Facility Name: Nassau Regional WWTF Testsite Name: MWC-4

Report Period: WAFR Testsite ID: 10008

Sample Date: Well Type: Compliance

Was well purged before sample collection? Ground Water Classification: G-II

Parameter	STORET Code	Sample Method	Samples Filtered (Y/N)	Preservative Added	Analysis Method	Analysis Result/Units	Detection Limit/Units
Water Level (NGVD)	82545					feet	± 0.1 feet
Nitrite+Nitrate (as N)	00630					mg/L	mg/L
Total Dissolved Solids	70304					mg/L	mg/L
Arsenic	01002					ug/L	ug/L
Cadmium	01027					ug/L	ug/L
Chromium	01034					ug/L	ug/L
Lead	01051					ug/L	ug/L
Turbidity	82078					mg/L	mg/L
Chloride	00940					mg/L	mg/L
Fecal Coliform	31616					#/100mL	#/100mL
pH (field)	00406					S.U.	S.U.
Sulfate	00945					mg/L	mg/L

Comments & Explanations:

GROUNDWATER MONITORING REPORT

Facility ID (Permit No): FLA011679 Facility Name: Nassau Regional WWTF Testsite Name: MWB-5

Report Period: WAFR Testsite ID: 10007

Sample Date: Well Type: Background

Was well purged before sample collection? Ground Water Classification: G-II

Parameter	STORET Code	Sample Method	Samples Filtered (Y/N)	Preservative Added	Analysis Method	Analysis Result/Units	Detection Limit/Units
Water Level (NGVD)	82545					feet	± 0.1 feet
Nitrite+Nitrate (as N)	00630					mg/L	mg/L
Total Dissolved Solids	70304					mg/L	mg/L
Arsenic	01002					ug/L	ug/L
Cadmium	01027					ug/L	ug/L
Chromium	01034					ug/L	ug/L
Lead	01051					ug/L	ug/L
Turbidity	82078					mg/L	mg/L
Chloride	00940					mg/L	mg/L
Fecal Coliform	31616					#/100mL	#/100mL
pH (field)	00406					S.U.	S.U.
Sulfate	00945					mg/L	mg/L

Comments & Explanations:

GROUNDWATER MONITORING REPORT

Facility ID (Permit No): FLA011679 Facility Name: Nassau Regional WWTF Testsite Name: MWB-6

Report Period: WAFR Testsite ID: 10006

Sample Date: Well Type: Background

Was well purged before sample collection? Ground Water Classification: G-II

Parameter	STORET Code	Sample Method	Samples Filtered (Y/N)	Preservative Added	Analysis Method	Analysis Result/Units	Detection Limit/Units
Water Level (NGVD)	82545					feet	± 0.1 feet
Nitrite+Nitrate (as N)	00630					mg/L	mg/L
Total Dissolved Solids	70304					mg/L	mg/L
Arsenic	01002					ug/L	ug/L
Cadmium	01027					ug/L	ug/L
Chromium	01034					ug/L	ug/L
Lead	01051					ug/L	ug/L
Turbidity	82078					mg/L	mg/L
Chloride	00940					mg/L	mg/L
Fecal Coliform	31616					#/100mL	#/100mL
pH (field)	00406					S.U.	S.U.
Sulfate	00945					mg/L	mg/L

Comments & Explanations:

State of Florida
Department of Environmental Protection

GROUNDWATER MONITORING REPORT

Facility Name: **Nassau Regional WWTF** County: Nassau
Address: State Road 200 (A1A) at Chester Road
City: O'Neil State: Florida ZIP:
Telephone No: (904) 721-4600
DEP Permit No: FLA011679
Authorized Representative: Kenneth A. Snyder Title: Certified Operator
Address: United Water Florida, 1400 Millcoe Road
City: Jacksonville State: Florida ZIP: 32239-8004
Telephone No: (904) 721-4600
Type of Discharge: Domestic
Method of Discharge: Percolation Ponds (Restricted Access)

CERTIFICATION

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.

Signature of Owner or Authorized Representative Date

Sample Organization Comp QAP#:
Analytical Lab Comp QAP #/HRS Certification #:
Comp QAP #/HRS Certification #:
Laboratory Name:
Address:
City: State: ZIP:
Telephone No:

cc: Scott
Don Hoover
Doug
Mick K.

Department of Environmental Protection

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

April 2, 1998

CERTIFIED MAIL -- RETURN RECEIPT

RECEIVED
APR 06 1998
UNITED WATER FLORIDA

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

NOTICE OF PERMIT REVISION

Dear Mr. Sambamurthi:

Duval County - Domestic Wastewater
Ortega Hills WWTF - FL0025828

The Department hereby revises Permit Number FL0025828 to operate the subject wastewater treatment plant issued pursuant to Section(s) 403, Florida Statutes. In addition, please find the enclosed updated discharge monitoring report (DMR). In accordance with the application received on March 6, 1998, from Mr. Gordon Grimes, P.E. of United Water Florida, specific condition number VI.2. has been revised. The condition was revised to grant additional time on the self improvement schedule as indicated below:

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. Prepare Preliminary Engineering Report (PER) evaluating the continued use of the WWTF vs. diverting flows to alternative treatment facilities.	June 30, 1998
2. Based on the results of the PER, the proposed schedule is:	
a. Divert flow to another facility:	
1. Property easement acquisition	July 30, 1999
2. Prepare preliminary plans	December 31, 1998
3. Final plans and specifications complete	February 28, 1999
4. Begin construction	May 15, 1999
5. End construction	February 15, 2000
6. Divert flows	February 28, 2000
7. Operational level -- system flows fully diverted	July 30, 1999
b. Continue discharge to Ortega River	
1. Perform baseline monitoring	June 30, 1999
2. Prepare antidegradation analysis and preliminary design report	August 15, 1999
3. Prepare and submit permit application	September 15, 1999
4. Final plans and specifications completed	April 15, 2000
5. Begin construction	June 15, 2000
6. Complete construction	March 15, 2001
7. Operational level attained	April 30, 2001

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 substantial modification must be submitted along with the appropriate fee to the Department.

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

Please attach this notice of permit revision 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.

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 M. Owen, P.E.
Water Facilities Administrator

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT REVISION and all copies were mailed before the close of business on 4/7, 1998, to the listed persons.

Copies furnished to:

RESD, AWQD

FILING AND ACKNOWLEDGEMENT
FILED on this date, pursuant to S120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.
4/7/98

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	PERMIT NUMBER:	FL0025828		
MAILING ADDRESS:	1400 Millcoe Road	MONITORING PERIOD From:		To:	
	Jacksonville, Florida 32225	LIMIT:	Final	REPORT:	Monthly
		CLASS SIZE:	Minor	GROUP:	Domestic
FACILITY:	Ortega Hills Wastewater Facility	FACILITY ID:	FL0025828	WAFR SITE NO.:	29122
LOCATION:	5033 Greenway Drive	GMS ID NO.:	3116P00334	GMS TEST SITE NO.:	3116X10687
	Ortega Hills Subdivision	DISCHARGE POINT NUMBER:	D001		
		PLANT SIZE/TREATMENT TYPE:	IIIC		
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. EFD-1	Permit Requirement	0.220 (Ann.Avg.)		mgd						Continuous	Flow Meter & Totalizer
Flow	Sample Measurement										
STORET No. 50050 1 Mon.Site No. EFD-1	Permit Requirement	Report (Mo.Avg.)		mgd						Continuous	Flow Meter & Totalizer
CBOD5	Sample Measurement										
STORET No. 80082 Y Mon.Site No. EFD-1	Permit Requirement					4.0 (Ann.Avg.)		mg/L		Every 2 Weeks	8-hr flow composite
CBOD5	Sample Measurement										
STORET No. 80082 1 Mon.Site No. EFD-1	Permit Requirement					4.0 (Mo.Avg.)	8.0 (Max.)	mg/L		Every 2 Weeks	8-hr flow composite
TSS	Sample Measurement										
STORET No. 00530 Y Mon.Site No. EFD-1	Permit Requirement					20.0 (Ann.Avg.)		mg/L		Every 2 Weeks	8-hr flow composite
TSS	Sample Measurement										
STORET No. 00530 1 Mon.Site No. EFD-1	Permit Requirement					30.0 (Mo.Avg.)	60.0 (Max.)	mg/L		Every 2 Weeks	8-hr flow composite
pH	Sample Measurement										
STORET No. 00400 1 Mon.Site No. EFD-1	Permit Requirement				6.0 (Min.)		8.5 (Max.)	S.U.		Daily, 5/week	Meter

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):

Revised: April 2, 1998

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY NAME: Ortega Hills WWTP PERMIT NUMBER: FL0025828 DISCHARGE POINT NUMBER: D001 WAFR SITE No.:29122

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Fecal Coliform Bacteria	Sample Measurement										
STORET No. 31615 Y Mon.Site No. EFD-1	Permit Requirement					200 (An.Avg.)		#/100mL		Every 2 Weeks	Grab
Fecal Coliform Bacteria	Sample Measurement										
STORET No. 31613 1 Mon.Site No. EFD-1	Permit Requirement					Report (Mo.Geo.Mean)	800 (Max.)	#/100mL		Every 2 Weeks	Grab
TRC for disinfection	Sample Measurement										
STORET No. 50060 A Mon.Site No. EFA-1	Permit Requirement				0.5 (Min.)			mg/L		Daily, 5/week	Grab
TRC for dechlorination	Sample Measurement										
STORET No. 50060 1 Mon.Site No. EFD-1	Permit Requirement						0.01 (Max.)	mg/L		Daily, 5/week	Grab
Total Kjeldahl Nitrogen	Sample Measurement										
STORET No. 00625 Y Mon. Site No. EFD-1	Permit Requirement					8.8 (Ann.Avg.)		mg/L as N		Every 2 Weeks	8-hr flow composite
Total Kjeldahl Nitrogen	Sample Measurement										
STORET No. 00625 1 Mon. Site No. EFD-1	Permit Requirement					8.8 (Mo. Avg.)	17.6 (Max.)	mg/L as N		Every 2 Weeks	8-hr flow composite
Dissolved Oxygen	Sample Measurement										
STORET No. 00300 1 Mon. Site No. EFD-1	Permit Requirement				7.0 (Min.)			mg/L		Daily, 5/week	Grab
TEMPERATURE, DEG F	Sample Measurement										
STORET No. 00010 1 Mon.Site No. EFD-1	Permit Requirement						Report (Max)	DEG F		Every 2 Weeks	Grab
AMMONIA, TOTAL AS N	Sample Measurement										
STORET No. 00610 1 Mon.Site No. EFD-1	Permit Requirement						Report (Max)	mg/L		Every 2 Weeks	8-hr flow composite
CBOD5	Sample Measurement										
STORET No. 80082 Q Mon.Site No. INF-1	Permit Requirement					Report (Mo.Avg.)		mg/L		Every 2 Weeks	8-hr flow composite
TSS	Sample Measurement										
STORET No. 00530 Q Mon.Site No. INF-1	Permit Requirement					Report (Mo.Avg.)		mg/L		Every 2 Weeks	8-hr flow composite

Revised: April 2, 1998

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	PERMIT NUMBER:	FL0025828		
MAILING ADDRESS:	1400 Millcoe Road	MONITORING PERIOD From:		To:	
	Jacksonville, Florida 32225	LIMIT:	Final	REPORT:	Quarterly
		CLASS SIZE:	Minor	GROUP:	Domestic
FACILITY:	Ortega Hills Wastewater facility	FACILITY ID:	FL0025828	WAFR SITE NO.:	29122
LOCATION:	5033 Greenway Drive	GMS ID NO.:	3116P00334	GMS TEST SITE NO.:	3116X10687
	Ortega Hills Subdivision	DISCHARGE POINT NUMBER:	D001		
		PLANT SIZE/TREATMENT TYPE:	IIIC		
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. EFD-1	Permit Requirement						Report (Max)	mg/L		Once/quarter	8-hr flow composite
ORGANIC NITROGEN, TOTAL AS N	Sample Measurement										
STORET No. 00605 1 Mon.Site No. EFD-1	Permit Requirement						Report (Max)	mg/L		Once/quarter	8-hr flow composite
PHOSPHOROUS, TOTAL AS P	Sample Measurement										
STORET No. 00665 1 Mon.Site No. EFD-1	Permit Requirement						Report (Max)	mg/L		Once/quarter	8-hr flow composite
PHOSPHOROUS, ORTHO- AS P	Sample Measurement										
STORET No. 70507 1 Mon.Site No. EFD-1	Permit Requirement						Report (Max)	mg/L		Once/quarter	8-hr flow composite

Revised: April 2, 1998

DAILY SAMPLE RESULTS - PART B

Facility ID: FL0025828

Month/Year: _____

Three-month Average Daily Flow: _____

Daily Flow % of Permitted Capacity: _____

	Flow (mgd)	CBOD5 (mg/L)	TSS (mg/L)	Fecal Coliform Bacteria (#/100 mL)	pH, min (s.u.)	pH, max (s.u.)	TKN (mg/L)	Ammonia, Total (mg/L as N)	Dissolved Oxygen (mg/L)	Temp. (deg. F)	CBOD5 (mg/L)	TSS (mg/L)
STORET	50050	80082	00530	31615	50060	50060	00625	00610	00300	00010	80082	00530
Mon. Site	EFD-1	EFD-1	EFD-1	EFD-1	EFD-1	EFD-1	EFD-1	EFD-1	EFD-1	EFD-1	INF-1	INF-1
1												
2												
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PLANT STAFFING:

Day Shift Operator	Class: _____	Certificate _____	Name: _____		
Evening Shift Operator	Class: _____	Certificate _____	Name: _____		
Night Shift Operator	Class: _____	Certificate _____	Name: _____		
Lead Operator	Class: _____	Certificate _____	Name: _____		

Type of Effluent Disposal or Reclaimed Water _____

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.

Revised: April 2, 1998

GRIFFIS / GRIMES
file
cc: DON HOUSEN
SCOTT TURNER
Griffis
file

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

RECEIVED
UNITED WATER FLORIDA

CERTIFIED MAIL - RETURN RECEIPT

February 4, 1997

Mr. Munipalli Sambamurthi, Vice president, Manager
United Water Florida
1400 Millcoe Road
Jacksonville, Florida 32225

Duval -- Domestic Wastewater
Ortega Hills Wastewater Facility

Enclosed is a revision to Permit Number FL0025828 to operate a 0.220 MGD contact stabilization wastewater treatment plant with effluent disposal to the Ortega River 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 October 25, 1995. 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. Attach the modified pages to 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;

(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.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

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 6 1997 to the listed persons.

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 2/6/97
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]

			Effluent Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow	MGD	Maximum	0.220	--	--	--	Continuous	Flow meter & totalizer	EFD-1	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	EFD-1	See Item I.A.7
Total Suspended Solids	mg/L	Maximum	20	30	45	60	Every two weeks	8 hour, flow proportioned composite	EFD-1	See Item I.A.7
Fecal Coliform Bacteria	See Permit Condition I. A. 6						Every two weeks	Grab	EFD-1	
Total Chlorine Residual (For Disinfection)	See Permit Condition I. A. 8						5 days per week	Grab or continuous	EFD-1	
Total Chlorine Residual (For Dechlorination)	See Permit Condition I. A. 9						Every two weeks	Grab or continuous	EFA-1	
pH	std. units	Range	-	-	-	6.5 to 8.5	5 days per week	Grab or continuous	EFD-1	

I. A. continued

			Effluent Limitations				Monitoring Requirements			
Annual Average	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
TKN	mg/L	Maximum	8.8	8.8	13.2	17.6	Every two weeks	8 hour, flow proportioned composite	EFD-1	See Item I.A.7
Dissolved Oxygen	mg/L	Minimum	--	--	--	7.0	Daily	Grab or instrument	EFD-1	
NH3-N Total	mg/L	Report	--	--	--	--	Every two weeks	8 hour, flow proportioned composite	EFD-1	
Temperature	o F	Report	--	--	--	--	Every two weeks	Grab at time of sample collection	EFD-1	
Whole Effluent Toxicity	See Permit Condition I. A.10						--	--	EFD-1	
Nutrient Monitoring	See Permit Condition I. A.12						--	--	EFD-1	

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
EFA-1	Effluent, after disinfection
EFD-1	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

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]

			Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	-	-	-	-	-	Every two weeks	8 hour, flow-proportioned composite	INF-1	See Item I.B.3
Total Suspended Solids	mg/L	-	-	-	-	-	Every two weeks	8 hour, flow proportioned composite	INF-1	See Item 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, prior to any biological treatment

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. 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]*

5. The permittee shall provide safe access points for obtaining representative influent, and effluent samples which are required by this permit. *[62-601.500(5), 5-31-93]*

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	PERMIT NUMBER:	FL0025828		
MAILING ADDRESS:	1400 Millcoe Road	MONITORING PERIOD From:	_____	To:	_____
	Jacksonville, Florida 32225	LIMIT:	Final	REPORT:	Monthly
		CLASS SIZE:	Minor	GROUP:	Domestic
FACILITY:	Ortega Hills Wastewater facility	FACILITY ID:	FL0025828	WAFR SITE NO.:	9005
LOCATION:	5033 Greenway Drive	GMS ID NO.:	3116P00334	GMS TEST SITE NO.:	3116X10687
	Ortega Hills Subdivision	DISCHARGE POINT NUMBER:	D001		
		PLANT SIZE/TREATMENT TYPE:	IIIC		
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. EFD-1	Permit Measurement	0.220 (Ann.Avg.)		mgd						Daily, 5/week	Elapsed T Meter
Flow	Sample Measurement										
STORET No. 50050 1 Mon.Site No. EFD-1	Permit Measurement	Report (Mo.Avg.)		mgd						Daily, 5/week	Elapsed Time Meter
CBOD5	Sample Measurement										
STORET No. 80082 Y Mon.Site No. EFD-1	Permit Measurement				4.0 (Ann.Avg.)			mg/L		Every 2 Weeks	8-hr COMP
CBOD5	Sample Measurement										
STORET No. 80082 1 Mon.Site No. EFD-1	Permit Measurement				4.0 (Mo.Avg.)		8.0 (Max.)	mg/L		Every 2 Weeks	8-hr COMP
TSS	Sample Measurement										
STORET No. 00530 Y Mon.Site No. EFD-1	Permit Measurement				20.0 (Ann.Avg.)			mg/L		Every 2 Weeks	8-hr COMP
TSS	Sample Measurement										
STORET No. 00530 1 Mon.Site No. EFD-1	Permit Measurement				30.0 (Mo.Avg.)		60.0 (Max.)	mg/L		Every 2 Weeks	8-hr COMP
pH	Sample Measurement										
STORET No. 00406 1 Mon.Site No. EFD-1	Permit Measurement					6.0 (Min.)	8.5 (Max.)	S.U.		Daily, 5/week	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: Ortega Hills WWTP | PERMIT NUMBER: FL0025828 | DISCHARGE POINT NUMBER: D001 | WAFR SITE No.:9005

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Fecal Coliform Bacteria	Sample Measurement										
STORET No. 31615 Y Mon.Site No. EFD-1	Permit Measurement				200 (An.Avg.)			#/100mL		Every 2 Weeks	Grab
Fecal Coliform Bacteria	Sample Measurement										
STORET No. 31615 1 Mon.Site No. EFD-1	Permit Measurement				Report (Mo.Geo.Mean)		800 (Max.)	#/100mL		Every 2 Weeks	Grab
TRC for disinfection	Sample Measurement										
STORET No. 50060 A Mon.Site No. EFA-1	Permit Measurement					0.5 (Min.)		mg/L		Daily, 5/week	Grab
TRC for dechlorination	Sample Measurement										
STORET No. 50060 1 Mon.Site No. EFD-1	Permit Measurement						0.01 (Max.)	mg/L		Daily, 5/week	Grab
TKN	Sample Measurement										
STORET No. 00625 Y Mon.Site No. EFD-1	Permit Measurement				8.8 (Ann.Avg.)			mg/L		Every 2 Weeks	8-hr COMP
TKN	Sample Measurement										
STORET No. 00625 1 Mon.Site No. EFD-1	Permit Measurement				8.8 (Mo. Avg.)		17.6 (Max.)	mg/L		Every 2 Weeks	8-hr COMP
DISSOLVED OXYGEN	Sample Measurement										
STORET No. 00300 1 Mon.Site No. EFD-1	Permit Measurement					7.0 (Min.)		mg/L		Daily, 5/week	Grab
TEMPRATURE, DEG F	Sample Measurement										
STORET No. 00010 1 Mon.Site No. EFD-1	Permit Measurement						Report (Max)	DEG F		Every 2 Weeks	Grab
AMMONIA, TOTAL AS N	Sample Measurement										
STORET No. 00610 1 Mon.Site No. EFD-1	Permit Measurement						Report (Max)	mg/L		Every 2 Weeks	8-hr COMP
CBOD5	Sample Measurement										
STORET No. 80082 G Mon.Site No. INF-1	Permit Measurement				Report (Mo.Avg.)			mg/L		Every 2 Weeks	8-hr COMP
TSS	Sample Measurement										
STORET No. 00530 G Mon.Site No. INF-1	Permit Measurement				Report (Mo.Avg.)			mg/L		Every 2 Weeks	8-hr COMP

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, Florida 32225

PERMIT NUMBER: FL0025828
MONITORING PERIOD From: _____ To: _____
LIMIT: Final REPORT: Quarterly
CLASS SIZE: Minor GROUP: Domestic

FACILITY: Ortega Hills Wastewater facility
LOCATION: 5033 Greenway Drive
Ortega Hills Subdivision

FACILITY ID: FL0025828 WAFR SITE NO.: 9005
GMS ID NO.: 3116P00334 GMS TEST SITE NO.: 3116X10687
DISCHARGE POINT NUMBER: D001
PLANT SIZE/TREATMENT TYPE: IIIC

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. EFD-1	Permit Measurement						Report (Max)	mg/L		Once/quarter	8-hr COMP
ORGANIC NITROGEN, TOTAL AS N	Sample Measurement										
STORET No. 00605 1 Mon.Site No. EFD-1	Permit Measurement						Report (Max)	mg/L		Once/quarter	8-hr COMP
PHOSPHOROUS, TOTAL AS P	Sample Measurement										
STORET No. 00665 1 Mon.Site No. EFD-1	Permit Measurement						Report (Max)	mg/L		Once/quarter	8-hr COMP
PHOSPHOROUS, ORTHO- AS P	Sample Measurement										
STORET No. 70507 1 Mon.Site No. EFD-1	Permit Measurement						Report (Max)	mg/L		Once/quarter	8-hr COMP

DAILY SAMPLE RESULTS - PART B

Facility ID:
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

NOTICE OF PERMIT REVISION

RECEIVED
DEC 04 1995
UNITED WATER FLORIDA

CERTIFIED - RETURN RECEIPT

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.

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 M. Owen

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

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.

Clerk 11-29-95
Date

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]

			Effluent Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
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.
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	

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]

Department of Environmental Protection

RECEIVED
MAR 18 1996
FLORIDA

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

March 15, 1996

In the Matter of an Application
for Permit by:

DEP File No. 283439

Permit Fails - Ortega Hills WWTP
cc Tom Caffis
Scott Thomas
Don Haven

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

Dear Mr. Heil:

Duval County - Domestic Waste
Ortega Hills WWTP

Enclosed is a revision to Permit Number FL0025828 to modify the approved residuals land application site issued pursuant to Section(s) 403.087, Florida Statutes. All other portions of this permit remain in effect and are fully enforceable. Specific condition II.12 is revised as follows:

12. 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
Maguire Timber	50	St. Augustine	St. Johns
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 3340 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]

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.

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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

JMO/DJB/rms
cc: David Neldner

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 15, 1996 to the listed persons.

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 3/15/96
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

RECEIVED
DEC 04 1995
UNITED WATER FLORIDA

CERTIFIED - RETURN RECEIPT

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.

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(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

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(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.

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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 M. Owen

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.

BFW

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 §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Mary Ann Schiller 11-29-95
Clerk Date

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]

			Effluent Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
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	

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]

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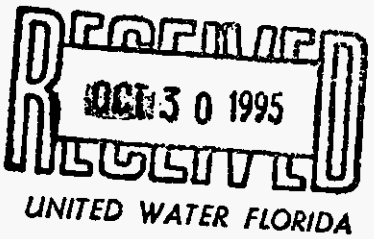
Department of Environmental Protection

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

NOTICE OF PERMIT



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) 10/26/95 (Date)

DPW

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 Millcoe 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.

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

Printed on recycled paper.

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]

			Effluent Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
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						5 days per week	Grab or continuous	D001	
pH	std. units	Range	-	-	-	6.5 to 8.5	5 days per week	Grab or continuous	D001	

I. A. continued

			Effluent Limitations				Monitoring Requirements			
Annual Average	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
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

4. Hourly measurement during the period of required operator attendance may be substituted for continuous measurement. *[Chapter 62-601, Figure 2, Footnotes 1 and 2, 5-31-93]*

5. A weir, a continuous flowmeter and totalizer shall be utilized to measure flow. The flow measurement device shall be calibrated at least once annually. *[62-601.200(17) and .500(6), 5-31-93]*

6. 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 800 fecal coliform values per 100 mL of sample. *[62-600.440(4)(c), 6-8-93]*

7. This facility shall comply with both concentration and mass loading limitations. The mass loading values are based upon an average annual daily flow limitation of 0.170 MGD. The CBOD5 limit is 5.67 lb./day, the TSS limit is 28.36 lb./day, and the TKN limit is 12.48 lb./day. The waste load allocation for this source is 81.4 lb./day Ultimate Oxygen Demand (UOD) as a maximum 30 day average limit.

8. 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]*

9. The final total chlorine residual of the effluent prior to discharge to the receiving water shall be 0.01 mg/L or less and shall be demonstrated in accordance with approved standard methods. Florida water quality criteria and standards shall not be violated as a result of the discharge (see Item number I.A.11 below). *[Chapter 62-600.500, 6-8-93]*

10. The Department reserves the right to require a series of tests (such as acute screening static renewal toxicity tests) to evaluate whole effluent toxicity of the discharge from outfall D001, in accordance with Rule 62-302.500(1)(d) FAC. All test species, procedures and quality assurance criteria used would be in accordance with Methods for Measuring the Acute Toxicity of Effluent to Freshwater and Marine Organisms, EPA/600/4-90/027 (4th edition) , or the most current edition. If toxicity tests are required, the Department shall notify the permittee and modify this permit accordingly.

11. 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 effluent results shall be in accordance with DEP 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
Copper	5.0	25.0	200.7
Lead	1.0	5.0	239.2
Nickel	10.0	50.0	200.7
Zinc	5.0	50.0	200.7 or
	5.0	25.0	289.1
Dissolved Oxygen	100.0	500.0	360.1 or 360.2
Total chlorine residual	10.0	10.0	330.1 or
	200.0	200.0	330.5

Units are microgram per liter. Alternative EPA methods and the resulting recommended MDL and target PQL are subject to approval by the Department. *[Chapter 62-160 FAC, 2-27-94, and Rule 62-4.246 FAC, 7-4-95]*

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]

			Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
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

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
I001	Influent, prior to any biological treatment

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. 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]*

5. The permittee shall provide safe access points for obtaining representative influent, and effluent samples which are required by this permit. *[62-601.500(5), 5-31-93]*

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]*

5. The permittee shall sample and analyze the residuals at least once every 6 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

4. 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]*

5. 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]*

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

7. 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]*

8. 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]*

9. 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]*

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)

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 C and operators with appropriate certification must be on the site as follows: A Class C or higher operator 6 hours/day for 5 days/week and one visit on each weekend day. The lead operator must be a Class C operator, or higher. *[62-699, 5-20-94] [62-620.630(3), 11-29-94][62- 699.310, 5-20-92] [62-610.462(2), 4-2-90]*

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. *[62-699.311(10) and (5), 5-20-92]*

3. A certified operator shall be on call during periods the plant is unattended. *[62-699.311(1), 5-20-92]*

Capacity Analysis Report and Operation and Maintenance Performance Report Requirements

4. An updated capacity analysis report shall be submitted to the Department with the application for permit renewal. 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]*

5. 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

6. The permittee shall maintain the following records and make them available for inspection on the site of the permitted facility or at the following address: 1400 Millcoe Road, Jacksonville, Florida.

   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]*

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]

PERMITTEE:
United Water Florida

PERMIT/FACILITY I.D. # : FL0025828
ISSUANCE DATE: OCTOBER 25, 1995
EXPIRATION DATE: OCTOBER 25, 2000
APPLICATION NO.: 270241

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]*

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 62-601, 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,

        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;

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

Jerry Owen, P.E.
Water Facilities Administrator

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

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: 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: GROUP: Domestic
FACILITY ID: FL0025828, (3116P00334, 3116X10687)
DISCHARGE POINT NUMBER: D001
PLANT SIZE/TREATMENT TYPE: 1C

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 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 GROUP: Domestic
FACILITY ID: FL0025828, (3116P00334, 3116X10687)
DISCHARGE POINT NUMBER: D001
PLANT SIZE/TREATMENT TYPE: 1C

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			
TOTAL CHLORINE RESIDUAL	Sample Measurement										
(For Disinfection) (900243)	Permit Requirement				0.5			mg/L		DAILY	GRAB
CBOD5	Sample Measurement										
INFLUENT	Permit Requirement				Report			mg/L		Every two weeks	8 hour, flow proportioned composite
TSS	Sample Measurement										
INFLUENT	Permit Requirement				Report			mg/L		Every two weeks	8 hour, flow proportioned composite
FECAL COLIFORM	Sample Measurement										
BACTERIA (031616)	Permit Requirement					200	800	per 100 mL		Every two weeks	GRAB
	Sample Measurement										
pH (900241, 900242)	Permit Requirement				6.5		8.5	Standard Units		Daily	GRAB
TOTAL CHLORINE RESIDUAL	Sample Measurement										
(After Dechlorination) (900244)	Permit Requirement				0.01			mg/L		Every two weeks	GRAB
TOTAL KJELDAHL NITROGEN	Sample Measurement										
(as N) (900177)	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)
		( )	

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

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

ADDITIONAL SHEET 1B

PERMITTEE NAME: Philip Heil
MAILING ADDRESS: United Water Florida
1400 Millcoe 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	Units			
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
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_2)																														
Chlorine Residual after Dechlorination (mg/L as Cl_2)																														
$CBOD_5$ Influent (mg/L as O_2)																														
TSS Influent (mg/L)																														
$CBOD_5$ Effluent (mg/L as O_2)																														
$CBOD_5$ 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 t 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 yo 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 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 discharg 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 t 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 t 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 t 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.

ART B - DAILY SAMPLE RESULTS contd.

nter 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, sorption field, underground injection).

this plant does not have a limited wet weather discharge permitted under the provision of Rule 62-610.860, F.A.C., check not applicable. If the plant activated the wet weather discharge during the reporting month, check yes d attach PART C - *LIMITED WET WEATHER DISCHARGE.*

ART C - GROUNDWATER MONITORING REPORT

his part is applicable only to groundwater monitoring wells. Type or print in ink the required data. All samples shall be collected and analyzed in accordance with Chapter 62-160, F.A.C. Laboratory reports shall be kept on e in the location indicated in your permit and made available for inspection upon request by the Department.

acility ID: This is the identification number of the facility assigned by the Department.
est Site ID: This is the identification number of the sampling site listed in your permit.
lonth/Year: This is the period during which the data on this report was collected and analyzed. If the period is greater than one month, indicate beginning month to ending month.
/ell Type: Indicate if the well being sampled is background, intermediate, compliance, or other. If other, explain in the comment section.
ate Sample Obtained: This is the date the sample was taken.
round Water Class: This is the classification of the ground water under Chapter 62-522, F.A.C.
arameter: Analyze the parameters the permit requires. List any additional parameters from the permit which are not pre-listed here. If there are any parameters listed here which are not required by your permit, enter *NT* at line.
toret Code: Enter the Storet Code associated with the parameter.
ampling Method: Describe the sampling method used.
amples Filtered: Indicate whether the sample obtained was filtered (Y) or unfiltered (N).
reservatives Added: State what preservatives were added to the sample.
nalysis Method: Indicate the analytical method used. Record the number from Chapter *62-160* or Chapter *62-601*, F.A.C., or from *other sources.*
nalysis Result/Units: Record the results of the analysis. If the result was below the minimum detection limit, indicate that. Enter the units associated with the results of the analysis.
etection Limits/Units: Record the detection limits and the units associated with them.
omments and Explanations: Use this space to make any comments on or *explanations of results which are unexpected.*

Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

cc Barry Jackson
Scott T.
Todd Mackey
Mike M

RECEIVED
DEC 27 1999
UNITED WATER FLORIDA

December 22, 1999

CERTIFIED MAIL—RETURN RECEIPT

In the Matter of an
Application for Permit by:

United Water Florida
Mr. Gary R. Moseley, Vice President
1400 Millcoe Road
Jacksonville, FL 32225

PA File No. FLA011773-001-DW3P
St. Johns County
Ponce De Leon WWTF
FLA011773

file: PA WWTP permit

NOTICE OF PERMIT ISSUANCE

Enclosed is Permit Number FLA011773 to operate an existing 0.095 mgd annual average daily flow (AADF) permitted capacity extended aeration wastewater treatment facility (WWTF). Disinfected reclaimed water is land applied to two percolation ponds with a total area of 0.597 acres with no surface water discharge. Residuals are land applied at the Cope Farm land application site. The design capacity of the facility is 0.35 mgd and permitted capacity must be increased through a substantial permit revision application to be submitted after the 3 month average daily flow exceeds 0.090 mgd. This permit is issued under rules 62-4, 62-600, 62-601, 62-610, 62-620, 62-640, 62-699 of the Florida Administrative Code (FAC) and section 403 of the Florida Statutes.

A person whose substantial interests are affected by the proposed permitting decision of the Department 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 of Environmental Protection, Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, 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 FAC.

A petition must contain the following information:

(a) The name, address, and telephone number of each petitioner; the name, address, and telephone number of the petitioner's representative, if any; the Department 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 action;
(c) A statement of how each petitioner's substantial interests are affected by the Department action;
(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
(e) A statement of facts that the petitioner contends warrant reversal or modification of the Department action;
(f) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief; and
(g) 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 final action of the Department 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 action or proposed action. The agreement must be filed in (received by) the Department of Environmental Protection, Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, 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) 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;
(g) The name of each party's representative who shall have authority to settle or recommend settlement; 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.

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 12/21 ,1999 to the listed persons.

BTW
JMD

Copies furnished to: St. Johns County Health Department

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 12/21/99
Date

Jeb Bush
Governor

Department of Environmental Protection

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

David B. Struhs
Secretary

STATE OF FLORIDA
DOMESTIC WASTEWATER FACILITY PERMIT

PERMITTEE:

United Water Florida

RESPONSIBLE AUTHORITY:

Mr. Gary R. Moseley
Vice President
1400 Millcoe Road
Jacksonville, FL 32225

(904) 721-4600

PERMIT NUMBER: FLA011773
PA FILE NUMBER: FLA011773-001-DW3P
ISSUANCE DATE: December 22, 1999
EXPIRATION DATE: December 21, 2004

FACILITY:

Ponce De Leon WWTF
3152 South Ponte Vedra Blvd.
Goodwin Beach, Florida
St. Johns County
Latitude: 29° 58' 15" N Longitude: 81° 18' 40" W

This permit is issued under the provisions of Chapter 403, Florida Statutes, and applicable rules of the Florida Administrative Code. 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:

An existing 0.095 mgd annual average daily flow (AADF) permitted capacity extended aeration wastewater treatment facility (WWTF) consisting of 187, 000 gallons of aeration tankage (two tanks in series), a single 31.5 foot diameter circular secondary clarifier, a 9100 gallon chlorine contact chamber and a 34,300 gallon aerobic digestor. Chlorination is accomplished by dosing with commercial hypochlorite solution. Disinfected reclaimed water is land applied to two percolation ponds with a total area of 0.597 acres. Residuals are land applied at the Cope Farms land application site. The design capacity of the facility stated in the permit application is 0.35 mgd. Permitted capacity must be increased through a substantial modification permit application to be submitted after the 3 month average daily flow exceeds 0.090 mgd.

REUSE:

Land Application: An existing 0.095 mgd AADF permitted capacity land application system (R-001). R-001 consists of two rapid infiltration basins (ponds 1A and 1B) located approximately at latitude 29° 58' 15" N, longitude 81° 18' 40" W.

IN ACCORDANCE WITH: The limitations, monitoring requirements and other conditions set forth in Pages 1 through 15 of this permit.

I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Reuse and Land Application Systems

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to direct reclaimed water to Reuse System R-001. Such reclaimed water shall be limited and monitored by the permittee as specified below:

			Reclaimed Water Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow	mgd	Maximum	0.095	-	-	-	5 Days/Week	Elapsed time meters on pumps	EFA-1	See Cond.I.A.3
pH	s.u.	Range	-	-	-	6.0 to 8.5	5 Days/Week	Grab	EFA-1	
Total Residual Chlorine (For Disinfection)	mg/l	Minimum	-	-	-	0.5	5 Days/Week	Grab	EFA-1	See Cond.I.A.5
Coliform, Fecal	See Permit Condition I.A.4.						Monthly	Grab	EFA-1	
BOD, Carbonaceous 5 day, 20C	mg/l	Maximum	20.0	30.0	45.0	60.0	Monthly	Grab	EFA-1	
Solids, Total Suspended	mg/l	Maximum	20.0	30.0	45.0	60.0	Monthly	Grab	EFA-1	
Nitrogen, Nitrate, Total (as N)	mg/l	Maximum	-	-	-	12.0	Monthly	Grab	EFA-1	

2. Reclaimed water 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
EFA-1	Effluent from chlorine contact chamber

3. Elapsed time meters on pumps shall be utilized to measure flow and calibrated at least annually. *[62-601.200(17) and .500(6), 12-24-96]*

4. The arithmetic mean of the monthly fecal coliform values collected during an annual period shall not exceed 200 per 100 mL of reclaimed water sample. The geometric mean of the fecal coliform values for a minimum of 10 samples of reclaimed water, 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 (the 90th percentile value) 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. Note: To report the 90th percentile value, list the fecal coliform values obtained during the month in ascending order. Report the value of the sample that corresponds to the 90th percentile (multiply the number of samples by 0.9). For example, for 30 samples, report the corresponding fecal coliform number for the 27th value of ascending order. *[62-610.510, 1-9-96 and 62-600.440(4)(c), 12-24-96]*

5. 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. *[62-610.510, 1-9-96 and 62-600.440(4)(b), 12-24-9*

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:

			Limitations				Monitoring Requirements			
Parameter	*Units*	*Max/Min*	*Annual Average*	*Monthly Average*	*Weekly Average*	*Single Sample*	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
BOD, Carbonaceous 5 day, 20C	mg/l	Maximum	-	Report	-	-	Monthly	Grab	INF-1	See Cond.I.B.
Solids, Total Suspended	mg/l	Maximum	-	Report	-	-	Monthly	Grab	INF-1	See Cond.I.B.

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 wastewater prior to biological treatment

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), 12-24-96]*

4. 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. Parameters which must be monitored as a result of a ground water discharge (i.e., underground injection or land application system) shall be analyzed in accordance with Chapter 62-601, F.A.C. *[62-620.610(18), 12-24-96]*

5. The permittee shall provide safe access points for obtaining representative influent, reclaimed water, and effluent samples which are required by this permit. *[62-601.500(5), 12-24-96]*

6. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified on the DMR forms attached to this permit. DMRs shall be submitted for each required monitoring period including months of no discharge. The permittee shall make copies of the attached DMR form(s) and shall submit the completed DMR form(s) to the Department's Northeast District Office at the address specified in Permit Condition I.B.7. by the twenty-eighth (28th) of the month following the month of operation. *[62-620.610(18), 12-24-96][62-601.300(1), (2), and (3), 12-24-96]*

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 Northeast District Office at the address specified below:

   Florida Department of Environmental Protection
   Northeast District Office
   7825 Baymeadows Way Suite B200
   Jacksonville, Florida 32256-7590

   Phone Number - (904) 448-4330
   FAX Number - (904) 448-4366
   All FAX copies shall be followed by original copies.

II. RESIDUALS MANAGEMENT REQUIREMENTS

1. The method of residuals use or disposal by this facility is land application or disposal in a Class I or II solid waste landfill.

2. The permittee shall be responsible for proper treatment, management, use, and land application or disposal of its residuals. *[62-640.300(5), 3-30-98]*

3. The permittee will not be held responsible for violations resulting from land application of residuals if the permittee can demonstrate that it has delivered residuals that meet the parameter concentrations and appropriate treatment requirements of this rule and the applier (e.g. hauler, contractor, site manager, or site owner) has legally agreed in writing to accept responsibility for proper land application of the residuals. Such an agreement shall state that the applier agrees, upon delivery of residuals that have been treated as required by Chapter 62-640, F.A.C.., that he will accept responsibility for proper land application of the residuals as required by Chapter 62-640, F.A.C., and that the applier agrees that he is aware of and will comply with requirements for proper land application as described in the facility's permit.
   [62-640.300(5), 3-30-98]

4. Disposal of residuals, septage, and other solids in a solid waste landfill, or disposal by placement on land for purposes other than soil conditioning or fertilization, such as at a monofill, surface impoundment, waste pile, or dedicated site, shall be in accordance with Chapter 62-701, F.A.C. *[62-640.100(6)(k)3 & 4, 3-30-98]*

5. Land application of residuals shall be in accordance with the conditions of this permit, the approved Agricultural Use Plan(s), and the requirements of Chapter 62-640, F.A.C. *[62-640, 3-30-98]*

6. The domestic wastewater residuals for this facility are classified as Class B.

7. The permittee shall achieve Class B pathogen reduction by meeting the pathogen reduction requirements in section 503.32(b)(2) (Monitoring of Indicator Organisms) of Title 40 CFR Part 503, revised as of October 25, 1995. *[62-640.600(1)(b), 3-30-98]*

8. The permittee shall achieve vector attraction reduction by meeting the vector attraction reduction requirements in section 503.33(b)(10) (Incorporate biosolids applied to or placed on the land surface within specified time periods after application to or placement on the land surface), of Title 40 CFR Part 503, revised as of October 25, 1995. *[62-640.600(2)(a), 3-30-98]*

9. Treatment of liquid residuals or septage for the purpose of meeting the pathogen reduction or vector attraction reduction requirements set forth in Rule 62-640.600, F.A.C., shall not be conducted in the tank of a hauling vehicle. Treatment of residuals or septage for the purpose of meeting pathogen reduction or vector attraction reduction requirements shall take place at the permitted facility. *[62-640.400(8), 3-30-98]*

10. The permittee shall sample and analyze the Class A or Class B residuals to monitor for pathogen and vector attraction reduction requirements of Rule 62-640.600, F.A.C., and the parameters listed in the table below at least once every twelve (12) months.

Parameter	Ceiling Concentrations (Single Sample)	Cumulative Application Limits
Total Nitrogen	(Report only) % dry weight	Not applicable
Total Phosphorus	(Report only) % dry weight	Not applicable
Total Potassium	(Report only) % dry weight	Not applicable
Arsenic	75 mg/kg dry weight	36.6 pounds/acre
Cadmium	85 mg/kg dry weight	34.8 pounds /acre
Copper	4300 mg/kg dry weight	1340 pounds/acre
Lead	840 mg/kg dry weight	268 pounds/acre
Mercury	57 mg/kg dry weight	15.2 pounds/acre
Molybdenum	75 mg/kg dry weight	Not applicable
Nickel	420 mg/kg dry weight	375 pounds/acre
Selenium	100 mg/kg dry weight	89.3 pounds/acre
Zinc	7500 mg/kg dry weight	2500 pounds/acre
pH	(Report only) standard units	Not applicable
Total Solids	(Report only) %	Not applicable

(62-640.650(1), 62-640.700(1), 62-640.700(3)(b), and 62-640.850(3), 3-30-98)

11. Sampling and analysis shall be conducted in accordance with Title 40 CFR Part 503, section 503.8 and the U.S. Environmental Protection Agency publication - POTW Sludge Sampling and Analysis Guidance Document, 1989. In cases where disagreements exist between Title 40 CFR Part 503, section 503.8 and the POTW Sludge Sampling and Analysis Guidance Document, the requirements in Title 40 CFR Part 503, section 503.8 will apply. *(62-640.650(1), 62-640.700(1), 62-640.700(3)(b), and 62-640.850(3), 3-30-98)*

12. Grab samples shall be used for pathogens and determinations of percent volatile solids. Composite samples shall be used for metals. *[62-640.650(1)(e), 3-30-98]*

13. Residuals shall not be land applied if a single sample result for any parameter exceeds the ceiling concentrations given in this permit. Residuals shall not be distributed and marketed if the monthly average of sample results for any parameter exceeds the Class AA parameter concentrations given in this permit. Monthly averages of parameter concentrations shall be determined by taking the arithmetic mean of all sample results for the month. *[62-640.650(1)(f), 3-30-98]*

14. The permittee shall submit the results of all residuals monitoring with the permittee's Discharge Monitoring Report under Chapter 62-601, F.A.C. The analytical results from each sampling event shall be submitted with the report for the month in which the sampling event occurs. Copies of all applicable analytical reports shall be submitted with the monitoring results. *[62-640.650(3)(a)&(e), 3-30-98]*

15. Class B residuals shall not be used on unrestricted public access areas. Use of Class B residuals is limited to restricted public access areas such as agricultural sites, forests, and roadway shoulders and medians. *[62-640.600(3)(b), 3-30-98]*

16. Plant nursery use of Class B residuals is limited to plants which will not be sold to the public for 12 months after the last application of residuals. *[62-640.600(3)(b)1., 3-30-98]*

17. Use of Class B residuals on roadway shoulders and medians is limited to restricted public access roads. *[62-640.600(3)(b)2., 3-30-98]*

18. Food crops, feed crops, and fiber crops shall not be harvested for 30 days following the last application of Class B residuals. *[62-640.600(3)(b)6.,3-30-98]*

19. Food crops with harvested parts that touch the residuals/soil mixture and are totally above the land surface shall not be harvested for 14 months after the last application of Class B residuals. *[62-640.600(3)(b)3., 3-30-98]*

20. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of Class B residuals when the residuals remain on the land surface for four months or longer before incorporation into the soil. *[62-640.600(3)(b)4., 3-30-98]*

21. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of Class B residuals when the residuals remain on the land surface for less than four months before incorporation into the soil. *[62-640.600(3)(b)5., 3-30-98]*

22. Animals shall not be grazed on the land for 30 days after the last application of Class B residuals. *[62-640.600(3)(b)7., 3-30-98]*

23. Sod which will be distributed or sold to the public or used on unrestricted public access areas shall not be harvested for 12 months after the last application of Class B residuals. *[62-640.600(3)(b)8., 3-30-98]*

24. The public shall be restricted from application zones for 12 months after the last application of Class B residuals. *[62-640.600(3)(b), 3-30-98]*

25. Residuals that do not meet the requirements of Chapter 62-640, F.A.C., for Class AA designation shall not be used for the cultivation of tobacco or leafy vegetables. *[62-640.400(7), 3-30-98]*

26. Current Agricultural Use Plan(s) identify residuals landspreading on the following sites:

Site Name	Site Type (AG or LR)	Application Area (acres)	Site Location						
			County	Latitude			Longitude		
				DD	MM	SS	DD	MM	SS
Cope Farm	AG	234	Duval	30	30	40	82	49	50

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, unless all of the following conditions are met:

a) The permittee notifies the Department within 24 hours that the site is being used;

b) The site meets the site use restrictions of Rule 62-640.600(3), F.A.C, and the criteria for land application of residuals in Rule 62-640.700, F.A.C.;
c) The permittee submits a new or revised Agricultural Use Plan for the site with a permit application in accordance with Rule 62-640.300(2), F.A.C., within 30 days of beginning use of the site;
d) The permittee does not have another approved land application site, another approved disposal method (e.g. landfilling or incineration), or approved storage facilities available for use; and,
e) The permittee demonstrates during permit application that application of additional residuals to an existing approved application site would have resulted in violation of Department rules, or was not possible due to circumstances beyond the permittee's control.

[62-640.300(2)&(3), 3-30-98]

27. Residuals application rates are limited to agronomic rates based on the site vegetation as identified in the Agricultural Use Plan. *[62-640.750(2), 3-30-98]*

28. Residuals shall be applied with appropriate techniques and equipment to assure uniform application over the application zone. *[62-640.700(2)(c), 3-30-98]*

29. The spraying of liquid domestic wastewater residuals shall be conducted so that the formation of aerosols is minimized. *[62-640.700(2)(d), 3-30-98]*

30. Residuals storage facilities at land application sites shall be subject to applicable setback requirements for residuals application sites. Residuals stored at land application sites shall be stored in a manner that will not cause runoff or seepage from the residuals, objectionable odors, or vector attraction. Storage areas must be fenced or otherwise provided with appropriate features to discourage the entry of animals and unauthorized persons. At the time of application, the stored residuals must meet the parameter concentrations, pathogen and vector attraction reduction requirements, and cumulative application limits of this permit. Residuals storage facilities at land application sites may be used only for temporary storage of stabilized residuals for no more than 30 days during periods of inclement weather or to accommodate agricultural operations, or up to the period (not to exceed two years) specified in the Agricultural Use Plan. *[62-640.700(2)(e), 3-30-98]*

31. Residuals application sites shall be posted with appropriate advisory signs identifying the nature of the project area. *[62-640.700(2)(f), 3-30-98]*

32. The pH of the residuals soil mixture shall be 5.0 or greater at the time residuals are applied. At a minimum, soil pH testing shall be done annually. *[62-640.700(5)(d), 3-30-98]*

33. The permittee shall maintain records of application zones and application rates and shall make these records available for inspection within seven days of request by the Department, or delegated Local Program. The permittee shall maintain record items a. through e. below in perpetuity, and maintain record items f. through k. for five years:

a. Date of application of the residuals;
b. Location of the residuals application site as specified in the Agricultural Use Plan;
c. Identification of each application zone used by the permittee at the application site and the acreage of each zone;
d. Amount of residuals applied or delivered to each application zone;
e. Cumulative loading of each application zone;
f. The names of all other wastewater facilities using each of the application zones identified in item c.;
g. Method of incorporation (if any);
h. Measured pH of the residuals soil mixture at the time the residuals are applied (tested at least annually);
i. Unsaturated depth of soil above the water table level at the time of application;
j. Concentration of parameters in the residuals as required by this permit, and the date of last analysis; and
k. The results of any soil testing that is done under Rule 62-640.500(4)(a), F.A.C.

[62-640.650(2), 3-30-98]

34. The permittee shall submit an annual summary of residuals application activity to the Northeast District Office on Department Form 62-640.210(2)(b) for all residuals applied during the period of January 1 through December 31. The summary for each year shall be submitted by February 19 of the following year. If more than one facility applies residuals to the same application zones, the summary must include a subtotal of each facility's contribution of residuals to the application zones. *[62-640.650(3)(b), 3-30-98]*

35. If residuals that are subject to the cumulative loading limitations of Rule 62-640.700(3), F.A.C., have been applied to an application zone, and the cumulative loading amount of one or more of the pollutants is not known, no further applications of residuals may be made to that application zone. *[62-640.700(3)(f), 3-30-98]*

36. A minimum unsaturated soil depth of two feet above the water table level is required at the time the residuals are applied to the soil. *[62-640.700(6)(a), 3-30-98]*

37. Residuals shall not be applied during rains that cause runoff from the site or when surface soils are saturated. *[62-640.700(7)(a), 3-30-98]*

38. Land application of "other solids" as defined in Chapter 62-640, F.A.C., is only allowed if specifically addressed in the Agricultural Use Plan(s) approved for this facility. Land application of "other solids" is subject to Chapter 62-640, F.A.C., and the permit conditions that apply to land applied residuals. *[62-640.860, 3-30-98]*

39. If the permittee intends to accept residuals from other facilities, a permit revision is required pursuant to Rule 62-640.880(2)(d), F.A.C. *[62-640.880(2)(d), 3-30-98]*

40. Storage of residuals or other solids at the permitted facility shall require prior written notification to the Department. *[62-640.300(4), 3-30-98]*

III. GROUND WATER MONITORING REQUIREMENTS

A ground water monitoring plan shall be submitted with any permit revision application to increase the permitted capacity of the facility above 0.095 mgd AADF.

IV. ADDITIONAL REUSE AND LAND APPLICATION REQUIREMENTS

Part IV Rapid Infiltration Basins

1. All ground water quality criteria specified in Chapter 62-520, F.A.C., shall be met at the edge of the zone of discharge. The zone of discharge for this project shall extend horizontally 100 feet from the application site or to the facility's property line, whichever is less, and vertically to the base of the surficial aquifer. *[62-520.200(23), 12-9-96] [62-522.400 and 62-522.410, 12-9-96]*

2. Advisory signs shall be posted around the site boundaries to designate the nature of the project area. *[62-610.518, 1-9-96]*

3. The annual average hydraulic loading rate to the ponds 1A and 1B shall be limited to a maximum of 5.8 inches per day (as applied to the entire bottom area). *[62-610.523(3), 1-9-96]*

4. The ponds 1A and 1B normally shall be loaded for 7 days and shall be rested for 7 days. Infiltration ponds, basins, or trenches shall be allowed to dry during the resting portion of the cycle. *[62-610.523(4), 1-9-96]*

5. Rapid infiltration basins shall be routinely maintained to control vegetation growth and to maintain percolation capability by scarification or removal of deposited solids. Basin bottoms shall be maintained to be level. *[62-610.523(6) and (7), 1-9-96]*

6. Routine aquatic weed control and regular maintenance of storage pond embankments and access areas are required. *[62-610.514 and 62-610.414, 1-9-96]*

7. Overflows from emergency discharge facilities on storage ponds or on infiltration ponds, basins, or trenches shall be reported as an abnormal event to the Department's Northeast District Office within 24 hours of an occurrence. The provisions of Rule 62-610.800(9), F.A.C., shall be met. *[62-610.800(9), 1-9-96]*

V. OPERATION AND MAINTENANCE REQUIREMENTS

1. During the period of operation authorized by this permit, the wastewater facilities shall be operated under the supervision of a(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 III, Class C facility and, at a minimum, operators with appropriate certification must be on the site as follows:

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

   [62-620.630(3), 12-24-96] [62-699.310, 5-20-92] [62-610.462, 1-9-96]

2. A certified operator shall be on call during periods the plant is unattended. *[62-699.311(1), 5-20-92]*

3. The application to renew this permit shall include an updated capacity analysis report prepared in accordance with Rule 62-600.405, F.A.C. *[62-600.405(5), 12-24-96]*

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), 12-24-96]*

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.;

   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, 12-24-96][61E12-41.010(1)(e), 11-02-93]

VI. SCHEDULES

Section VI is not applicable to this facility.

VII. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

This facility is not required to have a pretreatment program at this time. *[62-625.500, 1-8-97]*

VIII. OTHER SPECIFIC CONDITIONS

1. Prior to placing the modifications to existing facilities 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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

4. Florida water quality criteria and standards shall not be violated as a result of any discharge or land application of reclaimed water or residuals from this facility. *[62-610.850(1)(a) and (2)(a), 1-9-96][62-640.700(3)(c), 3-1-91]*

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. Additionally, the treatment, management, use or land application of residuals shall not cause a violation of the odor prohibition in Rule 62-296.320(2), F.A.C. *[62-600.410(8), 12-24-96 and 62-640.400(6), 3-30-98]*

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), 12-26-96]*

7. Collection/transmission system overflows shall be reported to the Department in accordance with Permit Condition IX. 20. *[62-604.550, 12-26-96] [62-620.610(20), 12-24-96]*

8. 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.

   [62-604.130(4), 12-26-96]

9. The treatment facility, storage ponds, rapid infiltration basins, and/or infiltration trenches shall be enclosed with a fence or otherwise provided with features to discourage the entry of animals and unauthorized persons. *[62-610.518(1), 1-9-96] [and 62-600.400(2)(b), 12-24-96]*

10. Disposal of screenings and grit from preliminary treatment components of wastewater treatment facilities, solids from sewer line cleaning operations, and solids from lift stations and pump stations shall be disposed in accordance with Chapter 62-701, F.A.C. *[62-640.100(6)(k)8., 3-30-98 and 62-701.300(1)(a),4-23-97]*

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

    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), 12-24-96]*

12. The permittee will submit an application for substantial modification to increase the permitted capacity of the facility within 60 days of the end of the month in which the 3-month daily average flow exceeds 0.090 mgd. The application should include a capacity analysis report and groundwater monitoring plan. Design plans for modification of the chlorination system (current capacity 0.120 mgd) and land application system (current capacity 0.095 mgd for two ponds) to meet requested permitted capacity should also be submitted or reasonable assurance of adequate capacity demonstrated. *[62-600.405, 1-30-91]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]

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), 12-24-96]*

11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. *[62-620.610(11), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]

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 (DOH) under Chapter 64E1, 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), 12-24-96]

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), 12-24-96]*

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.

    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), 12-24-96]

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), 12-24-96]*

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), 12-24-96]

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), 12-24-96]

BPW/JMD Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

DATE: 12/21/99

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 12/21/99

STATEMENT OF BASIS
FOR
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
DOMESTIC WASTEWATER FACILITY PERMIT

PERMIT NUMBER: FLA011773
FACILITY NAME: Ponce De Leon WWTF
FACILITY LOCATION: Goodwin Beach , St.Johns County
NAME OF PERMITTEE: United Water Florida
PERMIT WRITER: Tom Potter

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

The following table provides the basis for Part I. A. provisions.

Land Application System R-001

Parameter	Limit	Basis	Rationale
Flow (mgd)	0.095	Annual Average	62-600.400(3)(b) FAC
BOD, Carbonaceous 5 day, 20C (mg/l)	20.0 30.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample Max.	62-610.510 & 62-600.740(1)(b)1.a. FAC 62-600.740(1)(b)1.b. FAC 62-600.740(1)(b)1.c. FAC 62-600.740(1)(b)1.d. FAC
Solids, Total Suspended (mg/l)	20.0 30.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample Max.	62-610.510 & 62-600.740(1)(b)1.a. FAC 62-600.740(1)(b)1.b. FAC 62-600.740(1)(b)1.c. FAC 62-600.740(1)(b)1.d. FAC
pH (s.u.)	6.0 to 8.5	Minimum and Maximum	62-600.445 FAC
Coliform, Fecal (#/100ml)	200 200 400 800	Annual Average Monthly Geo. Mean 90th Percentile Single Sample Max.	62-610.510 & 62-600.440(4)(c)1. FAC 62-600.440(4)(c)2. FAC 62-600.440(4)(c)3. FAC 62-600.440(4)(c)4. FAC
Total Residual Chlorine (For Disinfection) (mg/l)	0.5	Minimum	62-610.510 & 62-600.440(4)(b) FAC
Nitrogen, Nitrate, Total (as N) (mg/l)	12.0	Single Sample Max.	62-610.510(1) FAC
Monitoring Frequency and Sample Type	-	All Parameters	62-601 FAC & 62-699 FAC and/or BPJ of permit writer
Sampling Location	-	All Parameters	62-610.513 FAC

The following table provides the basis for Part I. B. provisions.

Other Limitations and Monitoring Requirements:

Parameter	Limit	Basis	Rationale
BOD, Carbonaceous 5 day, 20C(mg/l)	Report	Monthly Average	62-601.300(1)FAC
Solids, Total Suspended (mg/l)	Report	Monthly Average	62-601.300(1)FAC

RESIDUALS MANAGEM

Residuals will be disposed in a solid waste landfill in accordance with Chapter 62-701, F.A.C.

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	62-640.650(1)(b) FAC
Total Phosphorus, % dry weight	Report	62-640.650(1)(b) FAC
Total Potassium, % dry weight	Report	62-640.650(1)(b) FAC
Arsenic, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1), FAC
Cadmium, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Copper, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Lead, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Mercury, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Molybdenum, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Nickel, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Selenium, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Zinc, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
pH, std. units	Report	62-640.650(1)(b) FAC
Total Solids, %	Report	62-640.650(1)(b) FAC
Nitrogen, lb/ac/yr	Maximum	62-640.750(2)(b) FAC
Arsenic, lb/ac	Cumulative Maximum	62-640.700(3)(b)
Cadmium, lb/ac	Cumulative Maximum	62-640.700(3)(b) FAC
Copper, lb/ac	Cumulative Maximum	62-640.700(3)(b) FAC
Lead, lb/ac	Cumulative Maximum	62-640.700(3)(b) FAC
Mercury, lb/ac	Cumulative Maximum	62-640.700(3)(b) FAC
Nickel, lb/ac	Cumulative Maximum	62-640.700(3)(b) FAC
Selenium, lb/ac	Cumulative Maximum	62-640.700(3)(b) FAC
Zinc, lb/ac	Cumulative Maximum	62-640.700(3)(b)
Monitoring Frequency	All Parameters	62-640.650 & 650(1)(c) FAC
Pathogen and vector attraction reduction monitoring	All Parameters	62-640.600 & 650(1)(a) FAC
Additional monitoring as determined necessary	All Parameters	62-640.650(1)(b)

Residual are only to be disposed of at the Cope Farm site. Ag Use Plan was submitted for this site only. Permit revision required to use other sites.

INDUSTRIAL PRETREATMENT REQUIREMENTS

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

OTHER LIMITATIONS/SPECIAL CONDITIONS

A specific condition was added to Section VIII requiring an application for substantial permit revision to increase permitted capacity when the 3-month average daily flow exceeds 0.90 mgd (approximately 5% less than permitted capacity). The submitted CAR stated that permitted capacity would be exceeded by 2006, greater than 5 years from permit issuance but less than 10 year. Exceedance of design capacity will not occur within the next 10 years. In lieu of requiring an annual CAR, it seemed appropriate that a substantial permit revision to increase permitted flow capacity should be required rather than annual capacity analysis. The 0.090 mgd threshold for revision is based on a projected 6 month lead time for application submission prior to exceedence of the 0.095 mgd limit. This projection was based on the predicted rate of increase of flow given in the CAR.

The specific condition includes a requirement to submit a groundwater monitoring plan (required for permitted flows greater than 0.100 mgd) and to submit plans for modification of effluent disposal and chlorination systems to meet requested permitted capacity. The current infiltration basins (ponds 1a and 1b) have a permitted capacity of 0.095 mgd. Additional ponds will have to be hooked up or increased capacity documented for a capacity increase. The current chlorination system has a capacity of 0.120 mgd based upon information provided in this application.

APPLICABLE RULES

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:

Chapter	Effective Date
62-4	10-16-95
62-302	12-26-96
62-520	12-09-96
62-550	12-09-96
62-600	12-24-96
62-601	12-24-96
62-610	01-09-96
62-620	12-24-96
62-640	03-30-98
62-650	12-24-96
62-699	05-20-92

b. FS refers to various portions of the Florida Statutes
c. CFR refers to various portions of the Code of Federal Regulations, Title 40
d. BPJ refers to Best Professional Judgment

PROPOSED SCHEDULE FOR PERMIT ISSUANCE

Effective Date of the Application:	December 10, 1999
Notice of Agency Action :	December 22, 1999
Proposed Issuance Date of Permit :	December 22, 1999

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PAR

When Completed mail this report to: Department of Environmental Protection, Northeast District, 7825 Baymeadows Way, Suite B200, Jacksonville, Florida 32256-7590

PERMITTEE NAME:	United Water Florida	PERMIT NUMBER:	FLA011773		
MAILING ADDRESS:	*1400 Millcoe Road* Jacksonville, FL 32225	LIMIT: CLASS SIZE:	Final Minor	REPORT: GROUP:	Monthly Domestic
FACILITY:	Ponce De Leon WWTF	MONITORING GROUP NUMBER:	R-001		
LOCATION:	*3152 South Ponte Vedra Blvd.* Goodwin Beach , FL	PLANT SIZE/TREATMENT TYPE: NO DISCHARGE FROM SITE:	IIIC ☐		
COUNTY:	St.Johns				

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Samp
Flow	Sample Measurement										
PARM Code 50050 Y Mon Site No EFA-1	Permit Requirement	0.095 (An.Avg.)		mgd						5 Days/Week	Pumps
Flow	Sample Measurement										
PARM Code 50050 Mon Site No EFA-1	Permit Requirement	Report (Mo.Avg.)		mgd						5 Days/Week	Pumps
Total Residual Chlorine (For Disinfection)	Sample Measurement										
PARM Code 50060 A Mon Site No EFA-1	Permit Requirement				0.5 (Min.)			mg/L		5 Days/Week	Grab
pH	Sample Measurement										
PARM Code 00400 Mon Site No EFA-1	Permit Requirement				6.0 (Min.)		8.5 (Max.)	S.U.		5 Days/Week	Grab
Coliform, Fecal	Sample Measurement										
PARM Code 74055 Y Mon Site No EFA-1	Permit Requirement					200 (An.Avg.)		#/100ml		Monthly	Gr
Coliform, Fecal	Sample Measurement										
PARM Code 74055 Mon Site No EFA-1	Permit Requirement					Report (Mo.Geo.Mean)	800 (Max.)	#/100ml		Monthly	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 b
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/D

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

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY NAME: Ponce De Leon WWTF | PERMIT NUMBER: FLA011773 | MONITORING GROUP NUMBER: R-001

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 Y Mon.Site No. EFA-1	Permit Requirement					20.0 (An.Avg.)		mg/l		Monthly	Grab
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 I Mon.Site No. EFA-1	Permit Requirement					Report (Mo.Avg.)	60.0 (Max.)	mg/l		Monthly	Grab
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 Y Mon.Site No. EFA-1	Permit Requirement					20.0 (An.Avg.)		mg/l		Monthly	Grab
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 I Mon.Site No. EFA-1	Permit Requirement					Report (Mo.Avg.)	60.0 (Max.)	mg/l		Monthly	Grab
Nitrogen, Nitrate, Total (as N)	Sample Measurement										
PARM Code 00620 I Mon.Site No. EFA-1	Permit Requirement						12.0 (Max.)	mg/l		Monthly	Grab
BOD, Carbonaceous 5 day, 20C (Influent wastewater)	Sample Measurement										
PARM Code 80082 G Mon.Site No. INF-1	Permit Requirement					Report (Mo.Avg.)		mg/L		Monthly	Grab
Solids, Total Suspended (Influent wastewater)	Sample Measurement										
PARM Code 00530 G Mon.Site No. INF-1	Permit Requirement					Report (Mo.Avg.)		mg/L		Monthly	Grab

Monitoring Period From: _____ To: _____ (TM /Permitted Capacity)x100:

	Flow	TRC (For Disinfect.)	pH	Coliform, Fecal	CBOD5	TSS	Nitrogen, Nitrate, Total (as N)	CBOD5	TSS
	(mgd)	(mg/l)	(s.u.)	(#/100ml)	(mg/l)	(mg/l)	(mg/l)	(mg/L)	(mg/L)
ode	50050	50060	00400	74055	80082	00530	00620	80082	00530
Mon. Site	EFA-1	EFA-1	EFA-1	EFA-1	EFA-1	EFA-1	EFA-1	INF-1	INF-1
1									
2									
3									
4									
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31									

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 _____

*Attach additional sheets if necessary to list all certified operators.

INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT

The DMR consists of four parts--A, B, C, and D--all of which may or may not be applicable to every facility. Facilities may have one or more Part A's for reporting effluent data. All domestic wastewater facilities will have a Part B for reporting daily sample results. Part C is only applicable for domestic wastewater facilities with limited wet weather discharges permitted under Chapter 62-610.860, F.A.C. Part D is used for reporting ground water monitoring well data.

Hard copies and/or electronic copies of the required parts of the DMR were provided with the permit. All required information shall be typed or printed in ink.

In addition to filling in numerical results on various parts of the DMR, the following codes should be used and an explanation provided where appropriate. Note: Codes used by the lab for raw data may be different.

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

CODE	DESCRIPTION/INSTRUCTIONS
NOD	No discharge from/to site.
OPS	Operations were shutdown so no sample could be taken.
OTH	Other. Please enter an explanation of why monitoring data were not available.
SEF	Sampling equipment failure.
TNTC	Too numerous too count (for fecal coliform bacteria only).

When reporting analytical results that fall below a laboratory's reported method detection limits or practical quantification limits, the following instructions and code should be used:

CODE	DESCRIPTION/INSTRUCTIONS
<	If the sampled value is less than the method detection limit (MDL), enter a less than sign followed by the laboratory's MDL value, e.g. < 0.001. In cases where a laboratory reports a value which is less than the parameter's practical quantification limit (PQL), but, not less than the MDL, the value should be reported as the laboratory's MDL value. For example, where the MDL = 0.001, the PQL = 0.005 and the laboratory reports <0.005 (the PQL), the value of 0.001 should be reported on the DMR.

PART A -DISCHARGE MONITORING REPORT (DMR)

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

No Discharge From Site: Check this box if no discharge occurs and, as a result, there are no data or codes to be entered for all of the parameters on the DMR for the entire monitoring group number. If there was no discharge of effluent for a particular outfall, reuse, or land application system and the DMR monitoring group includes other monitoring locations (e.g., influent sampling); the "NOD" code should be used to individually denote those parameters for which there was no discharge.
Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.
Sample Measurement: Before filling in sample measurements in the table, check to see that the data collected correspond to the limit indicated on the DMR (i.e. interim or final) and that the data correspond to the monitoring group number in the header. Enter the data or calculated results for each parameter on this row. Be sure the result being entered corresponds to the appropriate statistical base code (e.g. annual average, monthly average, single sample maximum, etc.).
No. Ex.: Enter the number of sample measurements during the monitoring period that exceeded the permit limit for each parameter. If none, enter zero.
Frequency of Analysis: The shaded areas in this column contain the minimum number of times the measurement is required to be made according to the permit. Enter the actual number of times the measurement was made in the space above the shaded area.
Sample Type: The shaded areas in this column contain the type of sample (e.g. grab, composite, continuous) required by the permit. Enter the actual sample type that was taken in the space above the shaded area.
Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.
Comment and Explanation of Any Violations: Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation. If more space is needed, reference all attachments in this area.

PART B - MONTHLY SAMPLE RESULTS

Month/Year: Enter the month and year during which the data on *this report were collected and analyzed.*
Three-month Average Daily Flow: Calculate and enter the three-month average daily flow to the treatment facility.
(TMADF/Permitted Capacity) x 100: Divide the three-month average daily flow by the permitted capacity of the treatment facility, multiply by 100, and enter this value.
Daily Monitoring Results: Record the results of daily monitoring for the parameters required to be sampled by your permit. Record the data in *the units indicated.*
Plant Staffing: List the name, certificate number, and class of all state certified operators operating the facility during the monitoring period. Use additional sheets as necessary.
Type of *Effluent Disposal* or *Reclaimed Water Reuse:* *Enter* the type of effluent disposal or reclaimed water reuse (e.g. surface water discharge, ocean outfall, slow rate land application-public access, slow rate land appl restricted public access, rapid rate land application, absorption field, underground injection).
Limited Wet Weather Discharge Activated: If this plant does not have a limited wet weather discharge permitted under the provision of Rule 62-610.860, F.A.C., check 'Not Applicable.' If the plant activated the wet discharge during the reporting month, check 'Yes' and attach PART C - LIMITED WET WEATHER DISCHARGE.

PART C - *LIMITED WET WEATHER DISCHARGE*

This part is to be completed and submitted each month reclaimed water or effluent is discharged by a limited wet weather discharge permitted under Rule 62-610.860, F.A.C. For months with no discharge, Part C nee submitted. All information is to be provided for each day on which *the limited wet weather discharge was activated.*

Month/Year: Enter the month and year during which the data on this report were collected and analyzed.
Rainfall Information: Enter the name and location of the rainfall gauging station, the source of climatological (normal rainfall) data, the cumulative rainfall for the *average rainfall year, and* the cumulative rainfall calendar year. The cumulative rainfall for the average rainfall year 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. The cur rainfall to date for this calendar year is the total amount of rain, *in inches, that has been recorded since* January 1 of the current year through the month for which this DMR contains data.
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 hr. = 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 (converted into days). 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 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 actual 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.
$CBOD_5$: Enter the average $CBOD_5$ 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.
Total P: *Enter the cumulative* number of days since January 1 of the current year during which the limited wet weather discharge was activated divided by the total number of days since January 1 of the current year multi 100%.
Reason for Discharge: Provide a brief explanation of the factors contributing to the need to activate the limited wet weather discharge.

PART D - GROUND WATER MONITORING REPORT

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which *the data on this report were collected* and analyzed.
Date Sample Obtained: Enter the date the sample was taken. Also, check whether or not the well was purged before sampling.
Sampling Methods: *Indicate the procedure used to collect the sample* (e.g. airlift, bucket/bailer, centrifugal pump, etc.)
Samples Filtered: Indicate whether the sample obtained was filtered by laboratory (L), filtered in field (F), or unfiltered (N).
Preservatives Added: State what preservatives were added to the sample.
Analysis Method: Indicate the analytical method used. Record the method number from Chapter 62-160 or Chapter *62-601, F.A.C., or from other sources.*
Analysis Result/Units: Record the results of the analysis. If the result was below the minimum detection limit, indicate that. Enter the units associated with the results of the analysis.
Detection Limits/Units: Record the detection limits of the analytical methods used and the units associated with them.
Comments and Explanations: Use this space to make any comments on or explanations of results which are unexpected. If more space is needed, reference all attachments in this area.

Department of Environmental Protection

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

Jeb Bush
Governor

David B. Struhs
Secretary

RECEIVED
AUG 16 1999
UNITED WATER FLORIDA

cc Todd M.
Scott T.
Mike K.

CERTIFIED MAIL - RETURN RECEIPT

August 11, 1999

In the Matter of an Application
for Permit by:

file Permit File

Mr. Gary Mosley, P.E.
Vice President
United Water Florida
1400 Millcoe Road
Jacksonville, FL 32225

Dear Mr. Mosley:

St. Johns County - Domestic Wastewater
Permit Number FL0117951
Ponte Vedra WWTF- FL0117951

NOTICE OF PERMIT REVISION

Enclosed is revised Permit Number FL0117951 to operate the subject wastewater facility issued under section(s) (403) of the Florida Statutes.

In accordance with the letter received August 2, 1999, from Mr. David Bolam, P.E., Gee and Jenson Engineers, Inc., interim dates of the compliance schedule and ground water monitoring specific conditions have been changed. Specific Condition III. (Groundwater Monitoring) on pages 14 and 15, and Specific Condition VI. 2 of page 20 have been revised and are attached. These pages replace the previously issued pages 14,15, and 20. All other conditions of the permit remain the same and fully enforceable. Enclosed is the new ground water monitoring Discharge Monitoring Report (DMR) forms.

The Department's proposed agency action shall become final unless a timely petition for an administrative hearing is filed under sections 120.569 and 120.57 of the Florida Statutes before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

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

Petitions by the applicant or any of the parties listed below must be filed within fourteen days of receipt of this written notice. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the notice or within fourteen days of receipt of the written notice, whichever occurs first.

Under section 120.60(3) of the Florida Statutes, however, any person who has asked the Department for notice of agency action may file a petition within fourteen days of receipt of such notice, regardless of the date of publication.

The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition or request for mediation 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. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

(a) The name, address, and telephone number of each petitioner; the Department 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 action;
(c) A statement of how each petitioner's substantial interests are affected by the Department 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 action;
(f) A statement of which rules or statutes the petitioner contends require reversal or modification of the Department action; and
(g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take.

A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by rule 28-106.301.

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

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

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

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Jerry Owen, P.E.
Water Facilities Administrator

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT REVISION and all copies were mailed by certified mail before the close of business on 8/13, 1999 to the listed persons.

enclosure KAS
Copies furnished to:
David Bolam, P..E.
John Coates, P.E.

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.
Laura Smith 8/13/99

38. Residuals shall not be applied during rains that cause runoff from the site or when surface soils are saturated. *[62-640.700(7)(a), 3-30-98]*

39. Storage of residuals or other solids at the permitted facility shall require prior written notification to the Department if the storage lasts longer than 30 days. *[62-640.300(4), 3-30-98]*

III. GROUNDWATER MONITORING REQUIREMENTS

1. During the period of operation authorized by this permit, the permittee shall conduct ground water monitoring in accordance with this permit. *[62-522.600, 4/14/94] [62-610.424, 62-610.474, 62-610.524, 62-610.574, 62-610.624, 62-610.660, and 62-610.830(1)(d), 4/2/90]*

2. The following monitoring wells are established for ground water monitoring. *[62-522.600, 4/14/94] [62-610.424, 62-610.474, 62-610.524, 62-610.574, 62-610.624, 62-610.660, and 62-610.830(1)(d), 4/2/90]*

Well Name	*Monitoring Location Site Number*	*Depth (Feet)*	*Approximate Well Location*	*Well Type*	*New or Existing*
MWB-1	10532	10	150 feet east and 90 feet south from the NW corner of site.	Background	Existing
MWC-5	34920	10	At SE corner of the reject pond(s).	Compliance	New

3. Any ground water monitoring wells identified above as "new", shall be installed within 90 days of issuance of this permit. Within 30 days following the installation of any monitoring well, the permittee shall detail the well construction, surveyed location and casing elevation on DEP Form 62-522.900(3). *[62-522.600, 4/14/94]*

4. All ground water monitoring wells shall have a nominal inside casing diameter of at least 2-inches, and shall conform to the construction and development specifications set forth in ASTM Standard D-5092 and the approved ground water monitoring plan. The permittee shall give at least 72-hours notice to the Ground Water Section of the DEP's Northeast District prior to the installation of any monitor wells detailed in this permit.

5. The following parameters shall be analyzed at the specified frequency for each of the monitoring well(s) identified above: *[62-522.600(11)(b), 4/1/94] [62-601.300(3), 62.601.700, and Figure 3 of 62-601]*

PARAMETER	*STORET*	*SAMPLE TYPE*	*FREQUENCY*
Water level (feet)	82545	in-situ	Quarterly
Nitrite+Nitrate (mg/l as N)	00630	grab	Quarterly
Total Dissolved Solids (mg/l)	70304	grab	Quarterly
Chloride (mg/l)	00940	grab	Quarterly
Fecal Coliform (colonies/100 ml)	31616	grab	Quarterly
pH (standard units)	00406	in-situ	Quarterly
Sulfate (mg/l)	00945	grab	Quarterly

6. Ground water sampling and reporting shall conform to the schedule set forth below, with the monitoring results to be submitted on DEP Form 62-620.910(10), or such other format as approved by the Department. *[62-522.600(10) and (11)(b), 4/14/94] [62-601.300(3), 62.601.700, and Figure 3 of 62-601] [62-620.610(18), 12-24-96]*

SAMPLE PERIOD	*Quarterly*	*REPORT DEADLINE*
(January-March)	X	April 28th
(April-June)	X	July 28th
(July-September)	X	October 28th
(October-December)	X	January 28th

7. Water levels shall be recorded prior to purging the well for sample collection. Measurements, referenced to mean sea level, shall include the top of the well casing, depth to ground water, and the calculated ground water elevation at a precision of ±0.1 feet. *[62-610.424(3), 4-2-94]*

8. Ground water monitoring wells shall be purged prior to sampling in order to obtain a representative sample. All sample collection and analytical procedures shall conform to the applicable Quality Assurance/Quality Control requirements of Chapter 62-160, F.A.C. *[62-620.610(18), 12-24-96]*

9. The Permittee shall provide written notice to the Department within 7 days of discovery that a monitor well has been vandalized or otherwise damaged. The notice shall detail the nature and scope of damage as well as any remedial measures taken to prevent a recurrence. Repair or replacement of monitor wells shall be approved in advance by the Department.

7. All correspondence, reports, plans and summaries pertaining to ground water monitoring shall be sent to the attention of the Ground Water Section at the DEP Northeast District Office.

V. ADDITIONAL REUSE AND LAND APPLICATION REQUIREMENTS

Part III Public Access System(s)

1. Use of reclaimed water is authorized within the Permittee's Public Service Commission general service area. A current binding agreement shall be submitted to the department in accordance with specific condition number VI. *[62-620.630(10)(d), 11-29-94]*

2. This reuse system includes the following major users (i.e., using 0.1 mgd or more of reclaimed water):

User Name	User Type	Capacity (mgd)	Acreage
Ponte Vedra Inn & Club	Golf Course	0.600	120
PonteVedra Inn	Common areas, Lanscape areas	0.319	80
	Total	0.917	200

[62-610.800(5), 1-9-96][62-620.630(10)(b), 11-29-94]

3. All ground water quality criteria specified in Chapter 62-520, F.A.C., shall be met at the edge of the zone of discharge. For major users of reclaimed water (i.e., using 0.1 mgd or more), the zone of discharge shall extend horizontally 100 feet from the application site or to user's site property line,

VI. COMPLIANCE SCHEDULES AND SELF-IMPOSED IMPROVEMENT SCHEDULES

1. Before placing the reuse system into operation, the following shall be submitted to the department for approval:

   a. Map identifying the reuse water service area.
   b. Binding agreements with each individual reuse water user.
   c. Operating protocol.
   d. Cross-connection control and inspection program.

[62-610.490, 62-610.463(2), 62-610.469, FAC. 1-9-96]

2. The following construction schedule for the facilities shall be followed, unless notification of a schedule revision is provided and acceptable to the Department:

	Implementation Step	Completion Date
1	Prepare and submit for approval the updated capacity analysis report. See specific condition V.4.	July 1, 1999
2	Prepare and submit for approval the binding agreement, cross connection control program and the revised ground water monitoring plan.	July 1, 1999
3	Prepare and submit for approval an Operation Protocol for the Reclaimed Water Facilities.	July 1, 1999
4	Complete construction of WWTF improvements. The Permittee shall make available public access quality reclaimed water to the Ponte Vedra Inn and Club Golf Course. Place reuse system into operation provided specific condition VI.1 has been completed.	September 1, 1999
5	Submit as-built drawings and O and M Manual Certification to the DEP. Review the initial operating protocol and provide a revised and updated protocol if necessary based upon sample results, parameter ratio analysis and operation practices.	December 1, 1999
6	Prepare and submit to the Department by this date the results of the study to evaluate the feasibility of the APRICOT rule or Limited Wet Weather Discharge for a surface water discharge (see specific condition number IV.16).	February 1, 2000
7	Prepare and submit to the Department by this date a permit application to pursue the APRICOT rule or Limited Wet Weather Discharge if the study in item 6 above determines that this is necessary.	April 1, 2000

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

VII. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

1. This facility is not required to have a pretreatment program at this time. [62-625.500, 11-29-94]

State of Florida
Department of Environmental Protection

GROUNDWATER MONITORING REPORT

Facility Name: **Ponte Vedra WWTF** County: St. Johns

Address: 200 Ponce de Leon Blvd

City: Ponte Vedra Beach State: Florida ZIP:

Telephone No: (904) 285-1551

DEP Permit No: FLO117951

Authorized Representative: Gary Mosley Title: Vice President

Address: United Water of Florida, 1400 Mill Cove Road

City: Jacksonville State: Florida ZIP: 32225

Telephone No: (904) 721-4600

Type of Discharge: Domestic reclaimed water

Method of Discharge: Slow-rate public access via golf course pond

CERTIFICATION

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.

Signature of Owner or Authorized Representative Date

Sample Organization Comp QAP#:

Analytical Lab Comp QAP #/HRS Certification #:

Comp QAP #/HRS Certification #:

Laboratory Name:

Address:

City: State: ZIP:

Telephone No:

GROUNDWATER MONITORING REPORT

Facility ID (Permit No): FLO117951 Facility Name: Ponte Vedra WWTF Testsite Name: MWB-1

Report Period: WAFR Testsite ID: 10532

Sample Date: Well Type: Background

Was well purged before sample collection? Ground Water Classification: G-II

Parameter	STORET Code	Sample Method	Samples Filtered (Y/N)	Preservative Added	Analysis Method	Analysis Result/Units	Detection Limit/Units
Water Level (NGVD)	82545					feet	± 0.1 feet
Nitrite+Nitrate (as N)	00630					mg/L	mg/L
Total Dissolved Solids	70304					mg/L	mg/L
Chloride	00940					mg/L	mg/L
Fecal Coliform	31616					#/100mL	#/100mL
pH (field)	00406					S.U.	S.U.
Sulfate	00945					mg/L	mg/L

Comments & Explanations:

GROUNDWATER MONITORING REPORT

Facility ID (Permit No): FLO117951 Facility Name: Ponte Vedra WWTF Testsite Name: MWC-5

Report Period: WAFR Testsite ID: 34920

Sample Date: Well Type: Compliance

Was well purged before sample collection? Ground Water Classification: G-II

Parameter	STORET Code	Sample Method	Samples Filtered (Y/N)	Preservative Added	Analysis Method	Analysis Result/Units	Detection Limit/Units
Water Level (NGVD)	82545					feet	± 0.1 feet
Nitrite+Nitrate (as N)	00630					mg/L	mg/L
Total Dissolved Solids	70304					mg/L	mg/L
Chloride	00940					mg/L	mg/L
Fecal Coliform	31616					#/100mL	#/100mL
pH (field)	00406					S.U.	S.U.
Sulfate	00945					mg/L	mg/L

Comments & Explanations:

Florida Department of Environmental Protection
Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

MONITOR WELL COMPLETION REPORT

DATE: _____

FACILITY NAME: **Ponte Vedra WWTF**

FACILITY ID (PERMIT NO): **FLO117951**

WELL NAME: _____ WELL DESIGNATION: Background _____

WELL WAFR NUMBER: _____ Intermediate _____

Compliance _____

WELL LOCATION: Latitude: _____ Longitude: _____

Section: _____ Township: _____ Range: _____

INSTALLATION METHOD: _____ AQUIFER MONITORED: _____

INSTALLED BY: _____

TOTAL DEPTH: _____ (bls) BOTTOM OF SCREEN: _____ (bls)

SCREEN LENGTH: _____ SCREEN SLOT SIZE: _____ SCREEN TYPE: _____

CASING DIAMETER: _____ CASING TYPE: _____

CASING LENGTH: _____ FILTER PACK MATERIAL: _____

TOP OF CASING ELEV: _____ (MSL) GROUND SURFACE ELEVATION: _____ (MSL)

WELL COMPLETION DATE: _____

WELL DEVELOPMENT: _____
(narrative description)

POST DEVELOPMENT WATER ELEV: _____ (MSL) DATE & TIME MEASURED: _____

REMARKS: _____
(soils information, stratigraphy, etc.)

REPORT PREPARED BY: _____
(name, company, phone number)

NOTE: PLEASE ATTACH DRILLER'S LOG & SCALED WELL LOCATION PLAN.

(bls) = Below Land Surface
(MSL) = Mean Sea Level

Interoffice Memorandum

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northeast District Office - Jacksonville

TO: Jeff Martin, P.E.
Domestic Wastewater Section

THROUGH: Kristen Smeltzer, P.E.

FROM: John Davis, P.G.
Technical Support/Ground Water

DATE: July 26, 1999

SUBJECT: Ponte Vedra WWTF
Permit Conditions for Ground Water Monitoring
St. Johns County - Facility No. FLO117951

The following conditions shall constitute ground water monitoring for the Ponte Vedra WWTF (see attached Memo to File, dated July 14, 1999).

III. Groundwater Monitoring Requirements

1. During the period of operation authorized by this permit, the permittee shall conduct ground water monitoring in accordance with this permit. *[62-522.600, 4/14/94] [62-610.424, 62-610.474, 62-610.524, 62-610.574, 62-610.624, 62-610.660, and 62-610.830(1)(d), 4/2/90]*

2. The following monitoring wells are established for ground water monitoring. *[62-522.600, 4/14/94] [62-610.424, 62-610.474, 62-610.524, 62-610.574, 62-610.624, 62-610.660, and 62-610.830(1)(d), 4/2/90]*

Well Name	*Monitoring Location Site Number*	*Depth (Feet)*	*Approximate Well Location*	*Well Type*	*New or Existing*
MWB-1	10532	10	150 feet east and 90 feet south from the NW corner of site.	Background	Existing
MWC-5	34920	10	At SE corner of the reject pond(s).	Compliance	New

3. Any ground water monitoring wells identified above as "new", shall be installed within 90 days of issuance of this permit. Within 30 days following the installation of any monitoring well, the permittee shall detail the well construction, surveyed location and casing elevation on DEP Form 62-522.900(3). *[62-522.600, 4/14/94]*

4. All ground water monitoring wells shall have a nominal inside casing diameter of at least 2-inches, and shall conform to the construction and development specifications set forth in ASTM Standard D-5092 and the approved ground water monitoring plan. The permittee shall give at least 72-hours notice to the Ground Water Section of the DEP's Northeast District prior to the installation of any monitor wells detailed in this permit.

5. The following parameters shall be analyzed at the specified frequency for each of the monitoring well(s) identified above: *[62-522.600(11)(b), 4/1/94] [62-601.300(3), 62.601.700, and Figure 3 of 62-601]*

PARAMETER	*STORET*	*SAMPLE TYPE*	*FREQUENCY*
Water level (feet)	82545	in-situ	Quarterly
Nitrite+Nitrate (mg/l as N)	00630	grab	Quarterly
Total Dissolved Solids (mg/l)	70304	grab	Quarterly
Chloride (mg/l)	00940	grab	Quarterly
Fecal Coliform (colonies/100 ml)	31616	grab	Quarterly
pH (standard units)	00406	in-situ	Quarterly
Sulfate (mg/l)	00945	grab	Quarterly

6. Ground water sampling and reporting shall conform to the schedule set forth below, with the monitoring results to be submitted on DEP Form 62-620.910(10), or such other format as approved by the Department. *[62-522.600(10) and (11)(b), 4/14/94] [62-601.300(3), 62.601.700, and Figure 3 of 62-601] [62-620.610(18), 12-24-96]*

SAMPLE PERIOD	*Quarterly*	*REPORT DEADLINE*
(January-March)	X	April 28th
(April-June)	X	July 28th
(July-September)	X	October 28th
(October-December)	X	January 28th

7. Water levels shall be recorded prior to purging the well for sample collection. Measurements, referenced to mean sea level, shall include the top of the well casing, depth to ground water, and the calculated ground water elevation at a precision of ±0.1 feet. *[62-610.424(3), 4-2-94]*

8. Ground water monitoring wells shall be purged prior to sampling in order to obtain a representative sample. All sample collection and analytical procedures shall conform to the applicable Quality Assurance/Quality Control requirements of Chapter 62-160, F.A.C. *[62-620.610(18), 12-24-96]*

9. The Permittee shall provide written notice to the Department within 7 days of discovery that a monitor well has been vandalized or otherwise damaged. The notice shall detail the nature and scope of damage as well as any remedial measures taken to prevent a recurrence. Repair or replacement of monitor wells shall be approved in advance by the Department.

10. All correspondence, reports, plans and summaries pertaining to ground water monitoring shall be sent to the attention of the Ground Water Section at the DEP Northeast District Office.

IV. Additional Reuse and Land Application Requirements

1. All ground water quality criteria specified in Chapter 62-520, F.A.C., shall be met at the edge of the zone of discharge. The zone of discharge for this project shall extend horizontally 100 feet beyond the margin of application, or to the property line where less, and vertically to the base of the surficial aquifer. *[62-520.200(23), 4/14/94] [62-522.400 and 62-522.410, 4/14/94]*

Department of

Memorandum **Environmental Protection**

Northeast District Office

TO: UWF- Ponte Vedra WWTF

FROM: Jeff Martin, P.E.

John Davis, P.G.

SUBJECT: Ground water monitoring

DATE: July 14, 1999

We conferred with Jerry Owen about the ground water monitoring requirements for the Ponte Vedra WWTF. As a follow-up to the April 26 meeting at the SJRWMD office attended by Ernie Frey, Jerry, Henry Dean, UWF , Ponte Vedra golf course staff, St. John Service Company staff and others, it has been determined that golf course monitoring at the Ponte Vedra holding pond will not be required.

Ground water monitoring is currently being conducted by UWF at the existing ponds located at the Ponte Vedra WWTF site. The revised permit issued for this facility (FL0117951) calls for the addition of UV disinfection and filtration to meet Part III public access reclaimed water to be reused a the Ponte Vedra golf course and common areas. The new scenario will abandon the existing percolation ponds, but will retain one other pond for the purpose of holding reject water form the wastewater treatment plant. The reclaimed water meeting standards will be piped to an isolated storage pond at the Ponte Vedra golf course site.

The existing groundwater monitoring well (BW-1) will be retained as a background well, and a new compliance well will be constructed near the reject pond as indicated in the table below.

Well Name	*Monitoring Location Site Number*	*Depth (Feet)*	*Approximate Well Location*	*Well Type*	*New or Existing*
BW-1	10532	10	150 feet east and 90 feet south of the northwest corner of the site boundary.	Background	Existing
CW-5	~~To be issued~~ 34920	10	At SE corner of the reject pond(s).	Compliance	New

In lieu of requiring a compliance well at the golf course storage pond, it is requested that a twenty-four hour composite sample of the final treated reclaimed water be analyzed on an annual basis. The analysis shall include the primary and secondary drinking water standards contained in Chapter 62-550, F.A.C., (except for asbestos, color, and corrosivity). These monitoring results shall be reported to the Department annually on the Reclaimed Water or Effluent Analysis Report, Form 62-601.900(4), or in another format if requested by the permittee and if approved by the Department as being compatible with data entry into the Department's computer system. The annual reclaimed water or effluent analysis report or the certification shall be completed and submitted in a timely manner so as to be received by the Department's Northeast District Office by October 1st of each year. *[62-601.300(4), 5-31-93][62-601.500(3), 5-31-93]*

In addition, a virus sampling program plan will be submitted to the department as part of the operation protocol verification process. The protocol analysis shall verify set points and procedures concerning normal operation, reject and return to normal operation for reuse of reclaimed water to the public access reuse system.

The permittee has submitted certification of completion for the new facilities along with the operating protocol. I am scheduling a site inspection in the next 2 weeks to review the new construction and new monitoring well location. July 26 is the tentative day for inspection.

n:dw/counties/st.johns/GW_MON.DOC

RECEIVED
MAY 12 1999
UNITED WATER FLORIDA

Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

CERTIFIED MAIL - RETURN RECEIPT

May 10, 1999

Ltl -
Permits - Ponte Vedra

In the Matter of an Application
for Permit by:

Mr. Gary Mosley, P.E.
Vice President
United Water Florida
1400 Millcoe Road
Jacksonville, FL 32225

Dear Mr. Mosley:

St. Johns County - Domestic Wastewater
Permit Number FL0117951
Ponte Vedra WWTF- FL0117951

NOTICE OF PERMIT REVISION

Enclosed is revised Permit Number FL0117951 to operate the subject wastewater facility issued under section(s) (403) of the Florida Statutes.

In accordance with the letter received April 22, 1999, from Mr. David Bolam, P.E., Gee and Jenson Engineers, Inc., interim dates of the compliance schedule have been revised. Specific Condition number VI. 2 of Page 20 has been revised and is attached. This page replaces the previously issued Page 20. All other conditions of the permit remain the same and fully enforceable.

The Department's proposed agency action shall become final unless a timely petition for an administrative hearing is filed under sections 120.569 and 120.57 of the Florida Statutes before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

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

Petitions by the applicant or any of the parties listed below must be filed within fourteen days of receipt of this written notice. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the notice or within fourteen days of receipt of the written notice, whichever occurs first.

Under section 120.60(3) of the Florida Statutes, however, any person who has asked the Department for notice of agency action may file a petition within fourteen days of receipt of such notice, regardless of the date of publication.

The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition or request for mediation 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. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

(a) The name, address, and telephone number of each petitioner; the Department 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 action;
(c) A statement of how each petitioner's substantial interests are affected by the Department 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 action;
(f) A statement of which rules or statutes the petitioner contends require reversal or modification of the Department action; and
(g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take.

A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by rule 28-106.301.

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

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

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

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Jerry Owen, P.E.
Water Facilities Administrator

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT REVISION and all copies were mailed by certified mail before the close of business on 5/11, 1999 to the listed persons.

Copies furnished to:
David Bolam, P..E.
John Coates, P.E.

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

5/11/99
Date

VI. COMPLIANCE SCHEDULES AND SELF-IMPOSED IMPROVEMENT SCHEDULES

1. Before placing the reuse system into operation, the following shall be submitted to the department for approval:

   a. Map identifying the reuse water service area.
   b. Binding agreements with each individual reuse water user.
   c. Operating protocol.
   d. Cross-connection control and inspection program.

   [62-610.490, 62-610.463(2), 62-610.469, FAC. 1-9-96]

2. The following construction schedule for the facilities shall be followed, unless notification of a schedule revision is provided and acceptable to the Department:

	Implementation Step	Completion Date
1	Prepare and submit for approval the updated capacity analysis report. See specific condition V.4.	July 1, 1999
2	Prepare and submit for approval the binding agreement, cross connection control program and the revised ground water monitoring plan.	July 1, 1999
3	Prepare and submit for approval an Operation Protocol for the Reclaimed Water Facilities.	July 1, 1999
4	Complete construction of WWTF improvements. The Permittee shall make available public access quality reclaimed water to the Ponte Vedra Inn and Club Golf Course. Place reuse system into operation provided specific condition VI.1 has been completed.	August 1, 1999
5	Submit as-built drawings and O and M Manual Certification to the DEP. Review the initial operating protocol and provide a revised and updated protocol if necessary based upon sample results, parameter ratio analysis and operation practices.	December 1, 1999
6	Prepare and submit to the Department by this date the results of the study to evaluate the feasibility of the APRICOT rule or Limited Wet Weather Discharge for a surface water discharge (see specific condition number IV.16).	February 1, 2000
7	Prepare and submit to the Department by this date a permit application to pursue the APRICOT rule or Limited Wet Weather Discharge if the study in item 6 above determines that this is necessary.	April 1, 2000

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

VII. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

1. This facility is not required to have a pretreatment program at this time. [62-625.500, 11-29-94]

Department of Environmental Protection

cc Todd Mick K. Scott T. Don H file.

Jeb Bush
Governor

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

David B. Struhs
Secretary

March 16, 1999

RECEIVED

MAR 19 1999

UNITED WATER FLORIDA

CERTIFIED MAIL -- RETURN RECEIPT

In the Matter of an
Application for Permit by:

Mr. Gary Mosely, P.E. Vice President
United Water Florida
1400 Millcoe Road
Jacksonville, Florida 32225

DEP File No. FL00117951-001
St. Johns County
UWF - Ponte Vedra WWTF

NOTICE OF PERMIT

Enclosed is Permit Number FL00117951-DW1P/NR-001 to operate an existing 0.50 mgd annual average daily flow (AADF) activated sludge advanced secondary wastewater treatment facility. The facility provides reuse of reclaimed water to the Ponte Vedra Inn and Club and Ponte Vedra Golf Course with the interim discharge to the Ponte Vedra Lake System. The permit is issued pursuant to Section(s) 403 Florida Statutes and 62-4, 62-302, 62-600, 62-601, 62-620, 62-640, and 62-699 Florida Administrative Code.

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.

BFW JM Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

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

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 3/18/99 Date

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 3/18, 1999 to the listed persons.

Copies furnished to:
David Bolam, P.E. -- Gee & Jenson, Inc.
St. Johns River Water Management District
David York, P.E., Ph.D.

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 3/18/99 Date

Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

STATE OF FLORIDA
DOMESTIC WASTEWATER FACILITY PERMIT

PERMITTEE:
United Water Florida
1400 Millcoe Road
Jacksonville, FL 32225
(904) 721-4600

PERMIT NUMBER: FL0117951-DW1P/NR-001
ISSUANCE DATE: November 12, 1996
REVISION DATE: March 16, 1999
EXPIRATION DATE: November 12, 2001
FACILITY ID NO.: FL0117951
APPLICATION No.: 276521

RESPONSIBLE AUTHORITY:

Mr. Gary Mosley, P.E., Vice President

FACILITY:

Ponte Vedra WWTF
200 State Road A1A
St. Johns County
Ponte Vedra Beach, FL 32082
Latitude: 30° 14' 24" N Longitude: 81° 23' 21" 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 0.500 MGD AADF activated sludge WWTP consisting of an influent bar screen, a 187,000 gallon aeration basin, a 1,150 sf secondary clarifier (38.33 ft diameter), chlorination, 18,800 gallon chlorine contact chamber discharging to two (2) holding ponds (for dechlorination) followed by two (2) percolation ponds which partially drain to adjacent perimeter ditches thence to surface waters. Domestic residuals are aerobically digested in a 108,400 gallon digester and hauled for land application at an approved land application site.

To construct and operate dual (2) effluent automatic backwash traveling bridge filters (0.900 MGD design), with a total surface area of 324 SF, with standby chemical feed system, a single channel ultraviolet disinfection system with nine (9) light bank modules in series to produce a minimum dosage of 140 mW-s/cm^2 at the peak flow rate, and one (1) aerobic digester (approx. 200,000 gallons). The permitted capacity shall be 0.500 MGD AADF.

To construct and operate a proposed 0.600 MGD AADF advanced wastewater treatment plant consisting of a single influent rotary screen, two (2) sequencing batch reactors (approx. 400,000 gallons each) and two (2) effluent equalization basins (approx. 75,000 gallons each). After completion of the new WWTF, the final total facility design capacity will be 0.600 MGD AADF and the permitted capacity will be 0.600 MGD AADF.

The filtration and disinfection system is designed to meet high-level disinfection criteria and Class I reliability. Continuous recording instruments for turbidity will be provided as well as continuous UV intensity monitoring with set points for automatic reject of off-spec effluent. The existing percolation ponds shall be taken out of service. The existing holding ponds will be converted to reject ponds with a capacity of 9.0 MG. Rejected effluent from the reject ponds shall be returned to the WWTF for further treatment. The reclaimed water will be delivered to an isolated holding pond with a 3 day holding capacity of 2.8 MG. After completion of construction, there shall be no discharge to surface waters.

EFFLUENT DISPOSAL:

Surface Water Discharge: An existing 0.5 MGD annual average daily flow (AADF) permitted discharge to an unnamed ditch leading to the Ponte Vedra Lake System (Class III waters) from the percolation ponds perimeter drainage system. The existing perimeter drainage system outfall (D001) is located approximately at latitude 30° 14' 24" N, longitude 81° 23' 21" W. Upon completion of construction as detailed in this permit, the percolation ponds will be taken out of service and will no longer be used.

REUSE:

Land Application: A proposed 0.917 MGD annual average daily flow (AADF) permitted capacity Public Access Reuse System (R001) within the utility service area including the golf course at the Ponte Vedra Inn & Club consisting of:

User Name	User Type	Capacity (MGD)	Acreage
Ponte Vedra Golf Course	Golf Courses	0.600	120
Ponte Vedra Inn and Club	Landscape and Common Areas	0.317	80
Total		0.917	200

IN ACCORDANCE WITH: The limitations, monitoring requirements and other conditions as set forth in Pages 1 through 27 of this permit. The application and engineering reports for this permit revision was signed and sealed by David Bolam, P.E. through August 20, 1998.

PERMITTEE:
United Water Florida
Ponte Vedra WWTF

PERMIT NUMBER: FL0117951-DW1P/NR-001
REVISION DATE: March 16, 1999
EXPIRATION DATE: November 12, 2001
FACILITY ID No.: FL00117951
APPLICATION No.: 276521

I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Interim Surface Water Discharges

1. During the period beginning on the issuance date and lasting until completion and start-up of the 0.6 MGD WWTF, the permittee is authorized to discharge *effluent from Outfall D001 to unnamed ditch leading to the Ponte Vedra Lake System* at underdrain discharge. Such discharge shall be limited and monitored by the permittee as specified below:

			Effluent Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow (Interim)	mgd	Maximum	0.50				5 Days/Week	*Recording flow meters and* totalizers	EFA-1	See Cond.I.A.3
Flow (Final)	mgd	Maximum	0.60				5 Days/Week	Recording flow meters and totalizers	EFA-1	See Cond.I.A.3
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	20.0	25.0	40.0	60.0	Weekly	8-hour flow proportioned composite	EFA-1	
Total Suspended Solids	mg/L	Maximum	20.0	30.0	45.0	60.0	Weekly	8-hour flow proportioned composite	EFA-1	
Fecal Coliform Bacteria	See Permit Condition I.A.4.						Weekly	Grab	EFA-1	
pH	std. *units*	Range				6.0 to 8.5	5 Days/Week	Grab	EFD-1	
Total Residual Chlorine (For Disinfection)	mg/L	Minimum				0.5	5 Days/Week	Grab	EFA-1	See Cond.I.A.5
Total Residual Chlorine (For Dechlorination)	mg/L	Maximum				0.01	Weekly	Grab	EFD-1	
Nutrient Monitoring	See Permit Condition I.A. 8.									
Lake Monitoring	See Permit Condition I.A.7.									
Ammonia, Total as N	mg/L as N	Maximum	1.0	1.0	1.5	2.0	Weekly	Grab	EFD-1	
NO3-Nitrogen, Total as N	mg/L as N	Maximum				12.0	Weekly	8-hour flow proportioned composite	EFA-1	

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
EFA-1	discharge from chlorine contact chamber to percolation ponds
EFD-1	discharge from eastern underdrain to perimeter ditch

3. 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]*

4. 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 (the 90th percentile value) 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. Note: To report the 90th percentile value, list the fecal coliform values obtained during the month in ascending order. Report the value of the sample that corresponds to the 90th percentile (multiply the number of samples by 0.9). For example, for 30 samples, report the corresponding fecal coliform number for the 27th value of ascending order. *[62-600.440(4)(c), 6-8-93]*

5. 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]*

6. 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. *[62-620.320(9), 11-29-94][62-302.510(5), 2-27-95]*

7. Regular surface water monitoring of the Ponte Vedra Lake System is not required for the UWF Ponte Vedra WWTF. The permitted reuse system is designed to be no discharge to surface waters.

8. 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:

   a. Nitrite nitrogen (NO2-N) and nitrate nitrogen (NO3-N).
   b. Total nitrogen.
   c. Total Kjeldhal nitrogen.
   d. Organic nitrogen.
   e. Total ammonia.
   f. Unionized ammonia (calculated)
   g. temperature (of effluent at time of grab sample)
   h. Total phosphorus.
   i. Orthophosphorus.(Filtered grab sample.)

   A grab sample shall be taken at least once every quarter until further notice is received from the Department from the discharge of the underdrain (EFD-1). 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]*

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.

B. Final Reuse of Reclaimed Water Discharge

This is a Problem

1. During the period beginning upon completion of construction of modifications to the WWTF and lasting through the expiration of this permit, the permittee is authorized to discharge to reuse system R001 to the Ponte Vedra service area reclaimed water to the Public Access Reuse System. Such discharge shall be limited and monitored by the permittee as specified below:

			Effluent Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow through WWTP (Interim)	mgd	Maximum	0.500	Report			Continuous	Recording flow meter and totalizers	EFA-1	See Cond.I.B.3
Flow through WWTP (Final)	mgd	Maximum	0.600	Report			Continuous	Recording flow meter and totalizers	EFA-1	See Cond.I.B.3
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	20.0	30.0	45.0	60.0	Weekly	16-hour flow proportioned composite	EFA-1	
Total Suspended Solids	mg/L	Maximum				5.0	7 Days/Week	Grab	EFB-1	
Fecal Coliform Bacteria	See Permit Condition I.B.4.						5 Days/Week	Grab	EFA-1	
pH	std. units	Range				6.0 to 8.5	5 Days/Week	Grab	EFA-1	
Disinfection	See Permit Condition I.A. 7.									
Ground water monitoring	See Permit Condition I.A.6. and III.									
Turbidity	NTUs	Maximum	See Permit Condition I.B.8.		Report		Continuous	Meter and recorder	EFB-1	

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
EFA-1	immediately following disinfection contact chamber
EFB-1	prior to disinfection

3. 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]*

4. Over a 30 day period, 75 percent of the fecal coliform values (the 75th percentile value) shall be below the detection limits. Any one sample shall not exceed 25 fecal coliform values per 100 mL of sample. Any one sample shall not exceed 5.0 milligrams per liter of total suspended solids (TSS) at a point before application of the disinfectant. Note: To report the 75th percentile value, list the fecal coliform values obtained during that month in ascending order. Report the value of the sample that corresponds to the 75th percentile (multiply the number of samples by 0.75). For example, for 30 samples, report the corresponding fecal coliform value for the 23rd value of ascending order. *[62-600.440(5)(f), 6-8-93]*

5. A minimum of 1.0 mg/L total residual chlorine must be maintained for a minimum contact time of 15 minutes based on peak hourly flow. *[62-600.440(5)(b) and (6)(b), 6-8-93]*

6. 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. *[62-620.320(9), 11-29-94][62-302.510(5), 2-27-95]*

7. This facility shall provide ultraviolet disinfection. The system shall be designed as a single channel ultraviolet disinfection system with nine light bank modules in series each module containing 40 lamps to produce a minimum dosage of 140 mW-s/cm^2 at peak flow rate (1.2 MGD). Transmittance through the wastewater shall be 55 % minimum. The UV system shall be fully automated with flow pacing (module to module) capabilities. Program logic controller shall be set to activate banks to turn on or off in response to an electronic signal from the flow meter. The system will also be capable of automatic dosage compensation for failed lamps, UV transmittance and intensity. If intensity falls below 100 mW-s/cm^2 an alarm condition will be activated and reject will occur if the UV dose falls below 80 mW-s/cm^2. Daily record keeping, routine cleaning and daily system checks shall be maintained. In addition, a virus sampling program plan shall be submitted to the department as part of the operation protocol verification process. The protocol analysis shall verify set points and procedures concerning normal operation, reject and return to normal operation for reuse of reclaimed water to the public access reuse system. See specific condtion number VI.

   Desgn 0.600 mgd

   [62-610.320(6) and 62-610.463), 1-9-96, and 62-600.440, 12-24-96]

8. The maximum turbidity shall be limited as described in the approved operating protocol, such that the permit limitations for total suspended solids and fecal coliforms will be achieved. *[62-610.463(2), 1-9-96]*

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:

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

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-1	Following influent screening unit

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. 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]*

5. The permittee shall provide safe access points for obtaining representative influent, reclaimed water, and effluent samples which are required by this permit. *[62-601.500(5), 5-31-93]*

6. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department on a monthly basis Discharge Monitoring Report(s) (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

62-620.610(18),[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 District Office at the address specified below:

   Florida Department of Environmental Protection
   Northeast District Office District Office
   Florida Dept. of Environmental Protection 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.

II. RESIDUALS MANAGEMENT REQUIREMENTS

Basic Management Requirements

1. The method of residuals use or disposal by this facility is by land application.

2. The permittee shall be responsible for proper treatment, management, use, and land application or disposal of its residuals. *[62-640.300(5), 3-30-98]*

3. The permittee will not be held responsible for violations resulting from land application of residuals if the permittee can demonstrate that it has delivered residuals that meet the parameter concentrations and appropriate treatment requirements of this rule and the applier (e.g. hauler, contractor, site manager, or site owner) has legally agreed in writing to accept responsibility for proper land application of the residuals. Such an agreement shall state that the applier agrees, upon delivery of residuals that have been treated as required by Chapter 62-640, F.A.C., that he will accept responsibility for proper land application of the residuals as required by Chapter 62-640, F.A.C., and that the applier agrees that he is aware of and will comply with requirements for proper land application as described in the facility's permit. *[62-640.300(5), 3-30-98]*

4. Land application of "other solids" as defined in Chapter 62-640, F.A.C., is only allowed if specifically addressed in the Agricultural Use Plan(s) approved for this facility. Land application of "other solids" is subject to Chapter 62-640, F.A.C., and the permit conditions that apply to land applied residuals. *[62-640.860, 3-30-98]*

5. Disposal of residuals, septage, and other solids in a solid waste landfill, or disposal by placement on land for purposes other than soil conditioning or fertilization, such as at a monofill, surface impoundment, waste pile, or dedicated site, shall be in accordance with Chapter 62-701, F.A.C. *[62-640.100(6)(k)3&4, 3-30-98]*

6. Land application of residuals shall be in accordance with the conditions of this permit, the approved Agricultural Use Plan(s), and the requirements of Chapter 62-640, F.A.C. *[62-640, 3-30-98]*

7. The domestic wastewater residuals for this facility are classified as Class B.

8. The permittee shall achieve Class B pathogen reduction by meeting the pathogen reduction requirements in section 503.32(b)(3) *("Alternative 2")* of Title 40 CFR Part 503, revised as of October 25, 1995. *[62-640.600(1)(b), 3-30-98]*

9. The permittee shall achieve vector attraction reduction by meeting the vector attraction reduction requirements in section 503.33(b)(10) *("Option 10" -Incorporate biosolids applied to or placed on the land surface within specified time periods after application to or placement on the land surface))* of Title 40 CFR Part 503, revised as of October 25, 1995.

10. Treatment of liquid residuals or septage for the purpose of meeting the pathogen reduction or vector attraction reduction requirements set forth in Rule 62-640.600, F.A.C., shall not be conducted in the tank of a hauling vehicle. Treatment of residuals or septage for the purpose of meeting pathogen reduction or vector attraction reduction requirements shall take place at the permitted facility*[62-640.400(8), 3-30-98]*

11. The permittee shall sample and analyze the Class A or Class B residuals to monitor for pathogen and vector attraction reduction requirements of Rule 62-640.600, F.A.C., and the parameters listed in the table below at least once every 12 months for facilities generating greater than zero but less than 320 dtpy. The following parameters shall be sampled and analyzed:

Parameter	Ceiling Concentrations (Single Sample)	Cumulative Application Limits
Total Nitrogen	(Report only) % dry weight	Not applicable
Total Phosphorus	(Report only) % dry weight	Not applicable
Total Potassium	(Report only) % dry weight	Not applicable
Arsenic	75 mg/kg dry weight	36.6 pounds/acre
Cadmium	85 mg/kg dry weight	34.8pounds /acre
Copper	4300 mg/kg dry weight	1340 pounds/acre
Lead	840 mg/kg dry weight	268 pounds/acre
Mercury	57 mg/kg dry weight	15.2 pounds/acre
Molybdenum	75 mg/kg dry weight	Not applicable
Nickel	420 mg/kg dry weight	375 pounds/acre
Selenium	100 mg/kg dry weight	89.3 pounds/acre
Zinc	7500 mg/kg dry weight	2500 pounds/acre
pH	(Report only) standard units	Not applicable
Total Solids	(Report only) %	Not applicable

(62-640.650(1), 62-640.700(1), 62-640.700(3)(b), and 62-640.850(3), 3-30-98)

12. Sampling and analysis shall be conducted in accordance with Title 40 CFR Part 503, section 503.8 and the U.S. Environmental Protection Agency publication - POTW Sludge Sampling and Analysis Guidance Document, 1989. In cases where disagreements exist between Title 40 CFR Part 503, section 503.8 and the POTW Sludge Sampling and Analysis Guidance Document, the requirements in Title 40 CFR Part 503, section 503.8 will apply. *(62-640.650(1), 62-640.700(1), 62-640.700(3)(b), and 62-640.850(3), 3-30-98)*

13. Grab samples shall be used for pathogens and determinations of percent volatile solids. Composite samples shall be used for metals. *[62-640.650(1)(e), 3-30-98]*

14. Residuals shall not be land applied if a single sample result for any parameter exceeds the ceiling concentrations given in this permit. Residuals shall not be distributed and marketed if the monthly average of sample results for any parameter exceeds the Class AA parameter concentrations given in this permit. Monthly averages of parameter concentrations shall be determined by taking the arithmetic mean of all sample results for the month. *[62-640.650(1)(f), 3-30-98]*

15. The permittee shall submit the results of all residuals monitoring with the permittee's Discharge Monitoring Report under Chapter 62-601, F.A.C. The analytical results from each sampling event shall be submitted with the report for the month in which the sampling event occurs. Copies of all applicable analytical reports shall be submitted with the monitoring results. *[62-640.650(3)(a)&(e), 3-30-98]*

16. Class B residuals shall not be used on unrestricted public access areas. Use of Class B residuals is limited to restricted public access areas such as agricultural sites, forests, and roadway shoulders and medians*[62-640.600(3)(b), 3-30-98]*

17. Plant nursery use of Class B residuals is limited to plants which will not be sold to the public for 12 months after the last application of residuals. *[62-640.600(3)(b)1., 3-30-98]*

18. Use of Class B residuals on roadway shoulders and medians is limited to restricted public access roads. *[62-640.600(3)(b)2., 3-30-98]*

19. Food crops with harvested parts that touch the residuals/soil mixture and are totally above the land surface shall not be harvested for 14 months after the last application of Class B residuals. *[62-640.600(3)(b)3., 3-30-98]*

20. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of Class B residuals when the residuals remain on the land surface for four months or longer before incorporation into the soil. *[62-640.600(3)(b)4., 3-30-98*

21. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of Class B residuals when the residuals remain on the land surface for less than four months before incorporation into the soil. *[62-640.600(3)(b)5., 3-30-98]*

22. Food crops, feed crops, and fiber crops shall not be harvested for 30 days following the last application of Class B residuals. *[62-640.600(3)(b)6.,3-30-98]*

23. Animals shall not be grazed on the land for 30 days after the last application of Class B residuals. *[62-640.600(3)(b)7., 3-30-98]*

24. Sod which will be distributed or sold to the public or used on unrestricted public access areas shall not be harvested for 12 months after the last application of Class B residuals. *[62-640.600(3)(b)8., 3-30-98]*

25. The public shall be restricted from application zones for 12 months after the last application of Class B residuals. *[62-640.600(3)(b), 3-30-98]*

26. Residuals that do not meet the requirements of Chapter 62-640, F.A.C., for Class AA designation shall not be used for the cultivation of tobacco or leafy vegetables. *[62-640.400(7), 3-30-98]*

27. Current Agricultural Use Plan(s) identify residuals landspreading on the following sites:

Site Name	Application Area (Acres)	Site Location	
		City	County
Cope Farm	134.4	Jacksonville	Duval

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, unless all of the following conditions are met:

a) The permittee notifies the Department within 24 hours that the site is being used;
b) The site meets the site use restrictions of Rule 62-640.600(3), F.A.C, and the criteria for land application of residuals in Rule 62-640.700, F.A.C.;
c) The permittee submits a new or revised Agricultural Use Plan for the site with a permit application in accordance with Rule 62-640.300(2), F.A.C., within 30 days of beginning use of the site;
d) The permittee does not have another approved land application site, another approved disposal method (e.g. landfilling or incineration), or approved storage facilities available for use; and,
e) The permittee demonstrates during permit application that application of additional residuals to an existing approved application site would have resulted in violation of Department rules, or was not possible due to circumstances beyond the permittee's control.

[62-640.300(2)&(3), 3-30-98]

28. Residuals application rates are limited to agronomic rates based on the site vegetation as identified in the Agricultural Use Plan. *[62-640.750(2), 3-30-98]*

29. Residuals shall be applied with appropriate techniques and equipment to assure uniform application over the application zone. *[62-640.700(2)(c), 3-30-98]*

30. The spraying of liquid domestic wastewater residuals shall be conducted so that the formation of aerosols is minimized. *[62-640.700(2)(d), 3-30-98]*

31. Residuals storage facilities at land application sites shall be subject to applicable setback requirements for residuals application sites. Residuals stored at land application sites shall be stored in a manner that will not cause runoff or seepage from the residuals, objectionable odors, or vector attraction. Storage areas must be fenced or otherwise provided with appropriate features to discourage the entry

of animals and unauthorized persons. At the time of application, the stored residuals must meet the parameter concentrations, pathogen and vector attraction reduction requirements, and cumulative application limits of this permit. Residuals storage facilities at land application sites may be used only for temporary storage of stabilized residuals for no more than 30 days during periods of inclement weather or to accommodate agricultural operations, or up to the period (not to exceed two years) specified in the Agricultural Use Plan. *[62-640.700(2)(e), 3-30-98]*

32. Residuals application sites shall be posted with appropriate advisory signs identifying the nature of the project area. *[62-640.700(2)(f), 3-30-98]*

33. The pH of the residuals soil mixture shall be 5.0 or greater at the time residuals are applied. At a minimum, soil pH testing shall be done annually. *[62-640.700(5)(d), 3-30-98]*

34. The permittee shall maintain records of application zones and application rates and shall make these records available for inspection within seven days of request by the Department, or delegated Local Program. The permittee shall maintain record items a. through e. below in perpetuity, and maintain record items f. through k. for five years::

    a. Date of application of the residuals;
    b. Location of the residuals application site as specified in the Agricultural Use Plan;
    c. Identification of each application zone used by the permittee at the application site and the acreage of each zone;
    d. Amount of residuals applied or delivered to each application zone;e. Cumulative loading of each application zone;
    f. The names of all other wastewater facilities using each of the application zones identified in item c.;
    g. Method of incorporation (if any),;
    h. Measured pH of the residuals soil mixture at the time the residuals are applied (tested at least annually);
    i. Unsaturated depth of soil above the water table level at the time of application;
    j. Concentration of parameters in the residuals as required by this permit, and the date of last analysis; and
    k. The results of any soil testing that is done under Rule 62-640.500(4)(a), F.A.C.

    [62-640.650(2)3-30-98]

35. The permittee shall submit an annual summary of residuals application activity to the District Office on Department Form 62-640.210(2)(b) for all residuals applied during the period of January 1 through December 31. The summary for each year shall be submitted by February 19 of the following year. If more than one facility applies residuals to the same application zones, the summary must include a subtotal of each facility's contribution of residuals to the application zones.
[62-640.650(3)(b), 3-30-98]

36. If residuals that are subject to the cumulative loading limitations of Rule 62-640.700(3), F.A.C., have been applied to an application zone, and the cumulative loading amount of one or more of the pollutants is not known, no further applications of residuals may be made to that application zone.
[62-640.700(3)(f), 3-30-98]

37. A minimum unsaturated soil depth of two feet above the water table level is required at the time the residuals are applied to the soil. *[62-640.700(6)(a), 3-30-98]*

38. Residuals shall not be applied during rains that cause runoff from the site or when surface soils are saturated. *[62-640.700(7)(a), 3-30-98]*

39. Storage of residuals or other solids at the permitted facility shall require prior written notification to the Department if the storage lasts longer than 30 days. *[62-640.300(4), 3-30-98]*

III. GROUNDWATER MONITORING REQUIREMENTS

1. During the period of operation authorized by this permit, the permittee shall sample ground water in accordance with this permit and the approved ground water monitoring plan prepared in accordance with Rule 62-522.600, F.A.C. *[62-522.600, 4/14/94] [62-610.424, 62-610.474, 62-610.524, 62-610.574, 62-610.624, 62-610.660, and 62-610.830(1)(d), 4/2/90]*

2 The following monitoring wells shall be sampled quarterly. *[62-522.600, 4/14/94] [62-610.424, 62-610.474, 62-610.524, 62-610.574, 62-610.624, 62-610.660, and 62-610.830(1)(d), 4/2/90]*

Well Name	*Monitoring Location Site Number*	*Depth (Feet)*	*Approximate Well Location*	*Well Type*	*New or Existing*
BW-1	3155A12837	10	150 feet east and 90 feet south of the northwest corner of the site boundary.	Background	Existing
CW-1	3155A12838	12	680 feet south of the northeast corner of Pond No. 2 at the toe of the berm.	Intermediate	Existing
BW-2	3155A12839	12	70 feet west and 210 feet south of the northwest corner of Pond No. 1.	Compliance	Existing
BW-3	3155A12840	12	130 feet north and 25 feet east of the southwest corner of the site boundary.	Compliance	Existing
CW-2	3155A12841	12	140 feet north and 470 feet east of the southwest corner of the site boundary.	Compliance	Existing
CW-3	3155A12842	12	25 feet east and 30 feet north of the southeast corner of Pond No. 2.	Compliance	Existing

3. Ground water monitoring parameters shall be analyzed in accordance with Chapter 62-601, F.A.C. *[62-620.610(18), 11-29-94]*

4. Ground water monitoring test results shall be submitted on Part D of Form 62-620.910(10). Results shall be submitted with the April, July, October, and January DMR for each year during the period of operation allowed by this permit. *[62-522.600(10) and (11)(b), 4/14/94] [62-601.300(3), 62.601.700, and Figure 3 of 62-601] [62-620.610(18), 11-29-94]*

5. The following parameters shall be analyzed quarterly for each of the monitoring well(s) identified above: *[62-522.600(11)(b), 4/1/94] [62-601.300(3), 62.601.700, and Figure 3 of 62-601]*

PARAMETER	*STORET*	*SAMPLE TYPE*
Water level (feet)	82545	in-situ
Nitrite+Nitrate (mg/l as N)	00630	grab
Total Dissolved Solids (mg/l)	70304	grab
Chloride (mg/l)	00940	grab
Fecal Coliform (colonies/100 ml)	31616	grab
pH (standard units)	00406	in-situ
Sulfate (mg/l)	00945	grab
Total Phosphorous (mg/l)	00665	grab

6. Ground water monitoring wells shall be purged prior to sampling to obtain representative samples. *[62-601.700(5), 5-31-93]*

7. In accordance with Part D of Form 62-620.910(10), water levels shall be recorded before evacuating wells for sample collection. Elevation references shall include the top of the well casing and land surface at each well site (NVGD allowable) at a precision of plus or minus 0.1 foot. *[62-610.424(3), 4-2-94]*

8. All ground water quality criteria specified in Chapter 62-520, F.A.C., shall be met at the edge of the zone of discharge. The zone of discharge for this project shall extend horizontally to the site property line and vertically to the base of the surficial aquifer. *[62-520.200(23), 4/14/94] [62-522.400 and 62-522.410, 4/14/94]*

9. An updated ground water monitoring plan shall be submitted to address the reuse service area as well as for the reject pond that will utilized at the WWTF. See specific condition number VI.

IV. ADDITIONAL REUSE AND LAND APPLICATION REQUIREMENTS

Part III Public Access System(s)

1. Use of reclaimed water is authorized within the Permittee's Public Service Commission general service area. A current binding agreement shall be submitted to the department in accordance with specific condition number VI. *[62-620.630(10)(d), 11-29-94]*

2. This reuse system includes the following major users (i.e., using 0.1 mgd or more of reclaimed water):

User Name	User Type	Capacity (mgd)	Acreage
Ponte Vedra Inn & Club	Golf Course	0.600	120
PonteVedra Inn	Common areas, Lanscape areas	0.319	80
	Total	0.917	200

[62-610.800(5), 1-9-96][62-620.630(10)(b), 11-29-94]

3. All ground water quality criteria specified in Chapter 62-520, F.A.C., shall be met at the edge of the zone of discharge. For major users of reclaimed water (i.e., using 0.1 mgd or more), the zone of discharge shall extend horizontally 100 feet from the application site or to user's site property line,

whichever is less, and vertically to the base of the surficial aquifer. For other users, the zone of discharge shall extend horizontally to the boundary of the general service area and vertically to the base of the surficial aquifer. *[62-520.200(23), 4/14/94] [62-522.400 and 62-522.410; 4/14/94]*

4. New major users of reclaimed water (i.e., using 0.1 mgd or more) may be added to the reuse system using the general permit described in Rule 62-610.890, F.A.C., if the requirements in this rule are complied with. Application for use of this general permit shall be made using Form 62-610.910(7). *[62-610.890, 1/9/96]*

5. The treatment facilities shall be operated in accordance with the approved operating protocol. Only reclaimed water that meets the criteria established in the approved operating protocol may be released to system storage or to the reuse system. Reclaimed water that fails to meet the criteria in the approved operating protocol shall be directed to the following permitted alternate discharge system: 9.0 MG reject ponds. The initial operating protocol shall be submitted prior to facility startup and shall be submitted as detailed as under specific condition number VI. The operating protocol shall be reviewed and updated periodically (at least once each year) to ensure continuous compliance with the minimum treatment and disinfection requirements. Updated operating protocols shall be submitted to the Department's Northeast District Office for review and approval. *[62-610.320(6) and 62-610.463(2), 1-9-96]*

6. Cross-connections to the potable water system are prohibited. *[62-610.469(7), 1-9-96]]*

7. A cross-connection control program shall be implemented and/or remain in effect within the areas where reclaimed water will be provided for use. *[62-610.469(7), 1-9-96]]*

8. Maximum obtainable separation of reclaimed water lines and potable water lines shall be provided and the minimum separation distances specified in Rule 62-610.469(7), F.A.C., shall be provided. Reuse facilities shall be color coded or marked. Underground piping which is not manufactured of metal or concrete shall be color coded using Pantone Purple 522C using light stable colorants. Underground metal and concrete pipe shall be color coded or marked using purple as the predominant color. *[62-610.469(7), 1-9-96]*

9. In constructing reclaimed water distribution piping, the permittee shall maintain a 75-foot setback distance from a reclaimed water transmission facility to public water supply wells. No setback distances are required to other potable water supply wells or to any nonpotable water supply wells. *[62-610.471(3), 1-9-96]*

10. A setback distance of 75 feet shall be maintained between the edge of the wetted area and potable water supply wells, unless the utility adopts and enforces an ordinance prohibiting potable water supply wells within the reuse service area. No setback distances are required to any nonpotable water supply well, to any surface water, to any developed areas, or to any private swimming pools, hot tubs, spas, saunas, picnic tables, barbecue pits, or barbecue grills. *[62-610.471(1), (2), (5), and (7), 1-9-96]*

11. The public shall be notified of the use of reclaimed water. This shall be accomplished by posting of advisory signs in areas where reuse is practiced, notes on scorecards, or other methods. *[62-610.468(2), 4/2/94]*

12. Reclaimed water shall not be used to fill swimming pools, hot tubs, or wading pools. *[62-610.469(4), 1-9-96]*

13. Low trajectory nozzles, or other means to minimize aerosol formation shall be used within 100 feet from outdoor public eating, drinking, or bathing facilities. *[62-610.471(6), 1-9-96]*

14. A setback distance of 100 feet shall be maintained from indoor aesthetic features using reclaimed water to adjacent indoor public eating and drinking facilities. *[62-610.471(8), 1-9-96]*

15. Routine aquatic weed control and regular maintenance of storage pond embankments and access areas are required. *[62-610.414 and 62-610.464, 1-9-96]*

16. Based on the binding agreement and the PSC certificated service area, United Water Florida has the first call to send reclaimed water to the Ponte Vedra reclaimed water holding pond. Discharge of reclaimed water to the isolated holding pond at Ponte Vedra Golf and Country Club shall only occur when the elevation of the water in the lake is less than or equal to 6.0 feet M.S.L. Daily observations of the pond shall be made to verify pond elevation. If reclaimed water has been delivered to the pond and a discharge occurs over the pond weir, the discharge shall be sampled for all parameters indicated in specific condition number I.A.1. A record shall be made of all days during a month on which a discharge occurs, and the approximate number of hours of discharge shall be reported to the department. A study is underway to pursue and evaluate the feasibility of the APRICOT rule or limited wet weather discharge for a surface water discharge (see specific condtion number VI). In the interim, this facility shall retain the NPDES designation (FL). After the evaluation period, the permittee will submit the results of the study to the Department for review. The permittee may pursue converting this permit to strictly a land application system (FLA designation). *[62-610.870(3), 1-9-96]*

17. Reclaimed water shall only be released to the system storage or reuse system during periods of operator attendance in compliance with the approved operating protocol. *[62-610.462(2), 1-9-96*

18. The permittee shall submit an annual report of reclaimed water utilization using Form 62-610.300(4)(a)2. by January 1 of each year for the previous federal fiscal year (October 1 through September 30). *[62-610.870(3), 1-9-96]*

V. OPERATION AND MAINTENANCE REQUIREMENTS

Staffing Requirements

1. During the period of operation authorized by this permit until the proposed wastewater treatment facilities are placed into operation, 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 C facility and, at a minimum, operators with appropriate certification must be on the site as follows:

   A Class C or higher operator 6 hours/day for 5 days/week and one visit on each weekend day. The lead operator must be a Class C operator, or higher.
   [62-699, 5-20-94] [62-620.630(3), 11-29-94] [62-699.310, 5-20-92] [62-610.462(2), 4-2-90]

2. During the period of operation authorized by this permit beginning upon completion of the modifications to the WWTF and lasting through the expiration of 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 16 hours/day for 7 days/week. The lead operator must be a Class B operator, or higher.

3. A certified operator shall be on call during periods the plant is unattended. *[62-699.311(1), 5-20-92]*

Capacity Analysis Report and Operation and Maintenance Performance Report Requirements

4. An updated capacity analysis report shall be submitted to the Department annually by May 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]*

5. 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

6. 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.;

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. Before placing the reuse system into operation, the following shall be submitted to the department for approval:

   a. Identification of the reuse water service area.
   b. Binding agreements with each individual reuse water user.
   c. Operating protocol.
   d. Cross-connection control and inspection program.

[62-610.490, 62-610.463(2), 62-610.469, FAC. 1-9-96]

2. The following construction schedule for the facilities shall be followed, unless notification of a schedule revision is provided and acceptable to the Department:

	Implementation Step	Completion Date
1	Prepare and submit for approval the updated capacity analysis report. See specific condition V.4. GAS	May 1, 1999
2	Prepare and submit for approval the binding agreement, cross connection control program and the revised ground water monitoring plan.	May 1, 1999
3	Prepare and submit for approval an Operation Protocol for the Reclaimed Water Facilities. GAS	May 1, 1999
4	Complete construction of WWTF improvements and place system into operation. The Permittee shall make available public access quality reclaimed water to the Ponte Vedra Inn and Club Golf Course.	June 1, 1999
5	Submit as-built drawings and O and M Manual Certification to the DEP. Review the initial operating protocol and provide a revised and updated protocol if necessary based upon sample results, parameter ratio analysis and operation practices. GAS	December 1, 1999
6	Prepare and submit to the Department by this date the results of the study to evaluate the feasibility of the APRICOT rule or Limited Wet Weather Discharge for a surface water discharge (see specific condition number IV.16). GAS	February 1, 2000
7	Prepare and submit to the Department by this date a permit application to pursue the APRICOT rule or Limited Wet Weather Discharge if the study in item 6 above determines that this is necessary. GAS	April 1, 2000

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

VII. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

1. This facility is not required to have a pretreatment program at this time. [62-625.500, 11-29-94]

VIII. OTHER SPECIFIC CONDITIONS

1. Prior to placing the newly constructed facilities 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]*

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)(q), 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 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.

[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

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:

   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 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]*

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.

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;

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

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

FILING AND ACKNOWLEDGEMENT
... Florida ...
... the ... Clerk, ...
... receipt ... is hereby acknowledged.
Roxanne Smith 3/18/99

STATEMENT OF BASIS
FOR
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
DOMESTIC WASTEWATER FACTILITY PERMIT

PERMIT NUMBER: FL0117951

FACILITY NAME: Ponte Vedra WWTP

FACILITY LOCATION: Ponte Vedra Beach, St.Johns County

NAME OF PERMITTEE: United Water Florida

PERMIT WRITER: Jeff Martin, P.E., (DJB originally)

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

The statement of basis is being prepared to address the changes to the proposed reuse of reclaimed water Part III public access reuse system .

Existing Surface Discharge Capacity:	0.50	mgd
Proposed Increase in Approved Capacity:	0.50	mgd
Proposed Total Approved Capacity:	0.50	mgd
Existing Reuse Permitted Capacity:	0.600	mgd
Proposed Increase in Permitted Capacity:	0.317	mgd
Proposed Total Permitted Capacity:	0.917	mgd

R001 - Part III reuse site at the Ponte Vedra Golf and Inn
D001 - Underdrain discharge to surface waters.

The following table provides the basis for Part I. A. provisions:
For public access reuse system, R001, the following limitations apply:

Parameters	Effluent or Reclaimed Water Limitations				
	Maximum /Minimum	Annual Average	Monthly Average	Weekly Average	Single Sample
Flow, MGD	Maximum	0.500		--	--
$CBOD_5$, mg/L	Maximum	20	30	45	60
TSS, mg/L	Maximum				5.0
Fecal Coliform, #/100 ml	Maximum	< 1		--	25
TRC (for disinfection), mg/L	Minimum	--	--	--	1.0
pH, std. units	Range	6.0 to 8.5			
Groundwater Monitoring	Report				

Outfall D001

Parameter	Basis	Rationale
Ammonia, Total as N	Weekly Average Monthly Average Annual Average Single Sample Max.	62-600.740(1)(b)2.c. FAC 62-650 FAC 62-650 FAC 62-600.740(1)(b)2.d. FAC
Carbonaceous Biochemical Oxygen Demand (5 day)	Annual Average Monthly Average Weekly Average Single Sample Max.	62-600.420(2) or 430 or 510 FAC, 62-650 FAC & 62-600.740(1)(b)2.a. FAC 40 CFR 133.102(a)(4)(i) 40 CFR 133.102(a)(4)(i) 62-600.740(1)(b)1.d. FAC
Fecal Coliform Bacteria	90th Percentile Monthly Geo. Mean. Single Sample Max. Annual Average	62-600.440(4)(c)3. FAC 62-600.440(4)(c)2. FAC 62-600.440(4)(c)4. FAC 62-600.440(4)(c)1. FAC
Flow	Annual Average	62-600.400(3)(b) FAC
Monitoring Frequency and Sample Type	All Parameters	62-601 FAC & 62-699 FAC and/or BPJ of permit writer
NO3-Nitrogen, Total as N	Single Sample Max.	62-610 FAC
pH	Minimum and Maximum	62-302.530(52) FAC
Sampling Location	All Parameters	62-601 FAC and/or BPJ of permit writer
Total Residual Chlorine (For Dechlorination)	Single Sample Max.	62-660.440(2) FAC & 62-302.530(19) FAC
Total Residual Chlorine (For Disinfection)	Minimum	62-660.440(4)(b) FAC
Total Suspended Solids	Single Sample Max. Weekly Average Monthly Average Annual Average	62-600.740(1)(b)1.d. FAC 62-600.740(1)(b)1.c. FAC 62-600.740(1)(b)1.b. FAC 62-600.420(2) or 430 or 510 FAC, 62-650 FAC & 62-600.740(1)(b)2.a. FAC

Other Limitations and Monitoring Requirements:

Parameter	Basis	Rationale
CBOD5	Monitor & Report	62-601.300(1)FAC
TSS	Monitor & Report	62-601.300(1)FAC

RESIDUALS MANAGEMENT

Class of residuals stabilization to be provided: B

Proposed method of residuals use or disposal: land application

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

Site Name	Application Area (Acres)	Site Location	
		City	County
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	62-640.650(1)(b) F.A.C.
Total Phosphorus, % dry weight	Report	62-640.650(1)(b) F.A.C.
Total Potassium, % dry weight	Report	62-640.650(1)(b) F.A.C.
Arsenic, mg/kg dry weight	Maximum	62-640.650(1)(b) F.A.C. & 700(1) F.A.C.
Cadmium, mg/kg dry weight	Maximum	62-640.650(1)(b) F.A.C. & 700(1) F.A.C.
Copper, mg/kg dry weight	Maximum	62-640.650(1)(b) F.A.C.
Lead, mg/kg dry weight	Maximum	62-640.650(1)(b) F.A.C.
Mercury, mg/kg dry weight	Maximum	62-640.650(1)(b) F.A.C. & 700(1) F.A.C.
Molybdenum, mg/kg dry weight	Maximum	62-640.650(1)(b) F.A.C. & 700(1) F.A.C.
Nickel, mg/kg dry weight	Maximum	62-640.650(1)(b) F.A.C.
Selenium, mg/kg dry weight	Maximum	62-640.650(1)(b) F.A.C. & 700(1) F.A.C.
Zinc, mg/kg dry weight	Maximum	62-640.650(1)(b) F.A.C.
pH, std. units	Report	62-640.650(1)(b) F.A.C.
Total Solids, %	Report	62-640.650(1)(b) F.A.C.
Nitrogen, lb/ac/yr	Maximum	62-640.650(1)(b) F.A.C.
Arsenic, lb/ac	Cumulative Maximum	62-640.700(3)(b) F.A.C.
Cadmium, lb/ac	Cumulative Maximum	62-640.700(3)(b) F.A.C.
Copper	Cumulative Maximum	62-640.700(3)(b) F.A.C.
Lead, lb/ac	Cumulative Maximum	62-640.700(3)(b) F.A.C.
Mercury, lb/ac	Cumulative Maximum	62-640.700(3)(b) F.A.C.
Nickel, lb/ac	Maximum Cumulative	62-640.700(3)(b) F.A.C.
Selenium, lb/ac	Maximum Cumulative	62-640.700(3)(b) F.A.C.
Zinc, lb/ac	Cumulative Maximum	62-640.700(3)(b) F.A.C.
Pathogen and vector attraction reduction monitoring	All Parameters	62-640.600 & 650(1)(1) F.A.C.
Additional monitoring as determined necessary	All Parameters	62-640.650(1)(b) F.A.C.
Monitoring Frequency	All Parameters	62-640.650 & 650(1)(c) F.A.C.

NEW OR EXPANDED DISCHARGES TO SURFACE WATERS; ANTIDEGRADATION REQUIREMENTS

The existing percolation/evaporation pond system with the under drain discharge to surface waters will be inactivated following the completion of construction of the modifications to the WWTF to meet Part III reuse criteria. The remaining pond near the WWTF will be used as a reject pond.

The permittee and the Department have determined that reuse of reclaimed water on the Ponte Vedra Golf Course is technically and economically feasible. The permit requires the applicant to make available the entire proposed permitted flow capacity of 0.500 MGD to the Ponte Vedra Inn and Golf Course as Public Access Reclaimed Water for irrigation purposes. Since the permitted reuse site is being expanded from 0.500 MGD to 0.917 MGD, then a public notice is required. The reuse service area will have a total design capacity of 0.917 MGD AADF and a permitted capacity of 0.500 MGD AADF.

Based on the binding agreement and the PSC certificated service area, United Water Florida has the first call to send reclaimed water to the Ponte Vedra reclaimed water holding pond. Discharge of reclaimed water to the isolated holding pond at Ponte Vedra Golf and Country Club shall only occur when the elevation of the water in the lake is less than or equal to 6.0 feet M.S.L. Daily observations of the pond shall be made to verify pond elevation. If reclaimed water has been delivered to the pond and a discharge occurs over the pond weir, the discharge shall be sampled for all parameters indicated in specific condition number I.A.1. A record shall be made of all days during a month on which a discharge occurs, and the approximate number of hours of discharge shall be reported to the department. A study is underway to pursue and evaluate the feasibility of the APRICOT rule or limited wet weather discharge for a surface water discharge (see specific condition number VI). In the interim, this facility shall retain the NPDES designation (FL). After the evaluation period, the permittee will submit the results of the study to the Department for review. The permittee may pursue converting this permit to strictly a land application system (FLA designation).

SCHEDULE OF PERMIT ISSUANCE

Process Elements	Projected Date of Completion
Effective Date of the Application:	August 20, 1998
Draft Permit to Applicant for Review:	September 11, 1998
Publication of notice:	September 18, 1998
Begin/End Public Comment Period:	September 18/ October 18, 1998
Notice of Agency Action:	March 16, 1999
Final Department Action:	March 16, 1999

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	PERMIT NUMBER:	FL0117951		
MAILING ADDRESS:	1400 Millcoe Road	MONITORING PERIOD From:		To:	
	Jacksonville, FL 32225	LIMIT:	Interim	REPORT:	Monthly
		CLASS SIZE:	Minor	GROUP:	Domestic
FACILITY:	Ponte Vedra WWTP	FACILITY ID:	FL0117951		
LOCATION:	200 State Road A1A	GMS ID NO.:	3155P05998	GMS TEST SITE NO.:	3155X10696
	Ponte Vedra Beach, FL 32082	DISCHARGE POINT NUMBER:	D001		
COUNTY:	St.Johns	PLANT SIZE/TREATMENT TYPE:	IIC	[ ] - check if no discharge for reporting period	

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. EFA-1	Permit Measurement	0.5 (Ann.Avg.)		mgd						5 Days/Week	Flow Meters
Flow	Sample Measurement										
STORET No. 50050 1 Mon.Site No. EFA-1	Permit Measurement	Report (Mo.Avg.)		mgd						5 Days/Week	Flow Meters
CBOD5	Sample Measurement										
STORET No. 80082 Y Mon.Site No. EFA-1	Permit Measurement					20.0 (Ann.Avg.)		mg/L		Weekly	8-hour FPC
CBOD5	Sample Measurement										
STORET No. 80082 1 Mon.Site No. EFA-1	Permit Measurement					25.0 (Mo.Avg.)	60.0 (Max.)	mg/L		Weekly	8-hour FPC
TSS	Sample Measurement										
STORET No. 00530 Y Mon.Site No. EFA-1	Permit Measurement					20.0 (Ann.Avg.)		mg/L		Weekly	8-hour FPC
TSS	Sample Measurement										
STORET No. 00530 1 Mon.Site No. EFA-1	Permit Measurement					30.0 (Mo.Avg.)	60.0 (Max.)	mg/L		Weekly	8-hour FPC
TRC for dechlorination	Sample Measurement										
STORET No. 50060 1 Mon.Site No. EFD-1	Permit Measurement						0.01 (Max.)	mg/L		Weekly	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: Ponte Vedra WWTP | PERMIT NUMBER: FL0117951 | DISCHARGE POINT NUMBER: D001

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
TRC for disinfection	Sample Measurement										
STORET No. 50060 A Mon.Site No. EFA-1	Permit Measurement				0.5 (Min.)			mg/L		5 Days/Week	Grab
pH	Sample Measurement										
STORET No. 00400 1 Mon.Site No. EFD-1	Permit Measurement				6.0 (Min.)		8.5 (Max.)	S.U.		5 Days/Week	Grab
Fecal Coliform Bacteria	Sample Measurement										
STORET No. 31615 Y Mon.Site No. EFA-1	Permit Measurement					200 (Ann.Avg.)		#/100mL		Weekly	Grab
Fecal Coliform Bacteria	Sample Measurement										
STORET No. 31615 1 Mon.Site No. EFA-1	Permit Measurement					Report (Mo.Geo.Mean)	800 (Max.)	#/100mL		Weekly	Grab
TSS	Sample Measurement										
STORET No. 00530 G Mon.Site No. INF-1	Permit Measurement					Report (Mo.Avg.)		mg/L		Weekly	16-hour FPC
CBOD5	Sample Measurement										
STORET No. 80082 G Mon.Site No. INF-1	Permit Measurement					Report (Mo.Avg.)		mg/L		Weekly	16-hour FPC
NO3-Nitrogen, Total as N	Sample Measurement										
STORET No. 00620 1 Mon.Site No. EFA-1	Permit Measurement						12.0 (Max.)	mg/L as N		Weekly	8-hour FPC
Ammonia, Total as N	Sample Measurement										
STORET No. 00610 Y Mon.Site No. EFD-1	Permit Measurement					1.0 (Ann.Avg.)		mg/L as N		Weekly	Grab
Ammonia, Total as N	Sample Measurement										
STORET No. 00610 1 Mon.Site No. EFD-1	Permit Measurement					1.0 (Mo. Avg.)	2.0 (Max.)	mg/L as N		Weekly	Grab

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	PERMIT NUMBER:	FL0117951		
MAILING ADDRESS:	1400 Millcoe Road	MONITORING PERIOD From:		To:	
	Jacksonville, FL 32225	LIMIT:	Final	REPORT:	Quarterly
		CLASS SIZE:	Minor	GROUP:	Domestic
FACILITY:	Ponte Vedra WWTP	FACILITY ID:	FL0117951		
LOCATION:	200 State Road A1A	GMS ID NO.:	3155P05998	GMS TEST SITE NO.:	3155X10696
	Ponte Vedra Beach, FL 32082	DISCHARGE POINT NUMBER:	D001		
		PLANT SIZE/TREATMENT TYPE:	IIC		
COUNTY:	St.Johns	[ ] - check if no discharge for reporting period			

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. EFD-1	Permit Measurement						Report (Max)	mg/L		Once/quarter	16-hour FPC
ORGANIC NITROGEN, TOTAL AS N	Sample Measurement										
STORET No. 00605 1 Mon.Site No. EFD-1	Permit Measurement						Report (Max)	mg/L		Once/quarter	16-hour FPC
NITROGEN, NITRITE+NITRATE AS N	Sample Measurement										
STORET No. 00630 1 Mon.Site No. EFD-1	Permit Measurement						Report (Max)	mg/L		Once/quarter	16-hour FPC
UNIONIZED AMMONIA AS N	Sample Measurement										
STORET No. 00612 1 Mon.Site No. EFD-1	Permit Measurement						Report (Max)	mg/L		Once/quarter	calculation
PHOSPHOROUS, TOTAL AS P	Sample Measurement										
STORET No. 00665 1 Mon.Site No. EFD-1	Permit Measurement						Report (Max)	mg/L		Once/quarter	16-hour FPC
PHOSPHOROUS, ORTHO- AS P	Sample Measurement										
STORET No. 70507 1 Mon.Site No. EFD-1	Permit Measurement						Report (Max)	mg/L		Once/quarter	16-hour FPC
NITROGEN, TOTAL KJELDAHL	Sample Measurement										
STORET No. 00625 1 Mon. Site No. EFD-1	Permit Measurement						Report (Max)	mg/L		Once/quarter	16-hour FPC
TEMPERATURE DEG C	Sample Measurement										
STORET No. 00010 1 Mon. Site No. EFD-1	Permit Measurement						Report (Max)	DEG C		Once/quarter	Instrument

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):

DAILY SAMPLE RESULTS - PART B

Facility ID: FL0117951 GMS Test Site #: 3155X10696 Three-month Average Daily Flow: _____

Month/Year: Daily Flow % of Permitted Capacity:

	Flow (MGD) Ponte Vedra WWTF	$CBOD_5$	$CBOD_5$	TSS	TSS	TRC for dechlor	TRC for disinfection	pH	Fecal Coliform Bacteria	NO3 Nitrogen, Total as N	Ammonia, Total as N
STORET	50050	80082	80082	00530	00530	50060	50060	00400	031615	00620	00610
Mon. Site	EFA-1	EFA-1	INF-1	EFA-1	INF-1	EFD-1	EFA-1	EFD-1	EFA-1	EFA-1	EFD-1
1											
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PLANT STAFFING:

Day Shift Operator Class: _____ Certificate _____ Name: _____

Evening Shift Operator Class: _____ Certificate _____ Name: _____

Night Shift Operator Class: _____ Certificate _____ Name: _____

Lead Operator Class: _____ Certificate _____ Name: _____

Type of Effluent Disposal or Reclaimed _____

Limited Wet Weather Discharge Activated: Yes: No: Not Applicable: If yes, cumulative days of wet weather discharge: _____

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

FACILITY: Ponte Vedra WWTP
LOCATION: 200 State Road A1A
Ponte Vedra Beach, FL 32082

COUNTY: St.Johns

PERMIT NUMBER: FL0117951
MONITORING PERIOD From: To:
LIMIT: Final REPORT: Monthly
CLASS SIZE: Minor GROUP: Domestic
FACILITY ID: FL0117951
GMS ID NO.: 3155P05998
DISCHARGE POINT NUMBER: R001
PLANT SIZE/TREATMENT TYPE: IIC

Parameter		Quantity or Loading			Quality or Concentration				No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
FLOW, To REUSE System	Sample Measurement										
STORET No. 50050 Y Mon.Site No. RFD-1	Permit Measurement	0.917 ANN AVG		MGD						Continuous	Flow meter
FLOW, To REUSE System	Sample Measurement										
STORET No. 50050 1 Mon.Site No. EFD-1	Permit Measurement	Report MO AVG		MGD						Continuous	Flow meter
SOLIDS, TOTAL SUSPENDED	Sample Measurement										
STORET No. 00530 1 Mon.Site No. EFB-1	Permit Measurement						5.0 MAX	MG/L		7 Days/Week	Grab
CHLORINE, TOTAL RESIDUAL (For Disinfection)	Sample Measurement										
STORET No. 50060 1 Mon.Site No. EFA-1	Permit Measurement				1.0 MIN			MG/L		Continuous	Instrument
Fecal Coliform Bacteria	Sample Measurement										
STORET No. 31615 1 Mon.Site No. EFA-1	Permit Measurement					NON-DETECTABLE (75th percentile)	25 MAX	#/100ML		5 Days/Week	Grab
pH	Sample Measurement										
STORET No. 00400 1 Mon.Site No. EFD-1	Permit Measurement				6.0 MIN		8.5 MAX	S.U.		5 Days/Week	Grab
Turbidity, (NTU), Ponte Vedra	Sample Measurement										
STORET No. 82078 1 Mon.Site No. EFB-1	Permit Measurement						REPORT MAX	NTU		Continuous	Instrument
CBOD5	Sample Measurement										
STORET No. 80082 Y Mon.Site No. EFD-1	Permit Measurement					20.0 (Ann.Avg.)		mg/L		Weekly	16-hour FPC
CBOD5	Sample Measurement										
STORET No. 80082 1 Mon.Site No. EFD-1	Permit Measurement					30.0 (Mo.Avg.)	60.0 (Max.)	mg/L		Weekly	16-hour FPC

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 ubmitted 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):

DAILY SAMPLE RESULTS - PART B

Facility ID: FL0117951

Three-mon. . erage Daily Flow: _____

Month/Year:

Daily Flow % of Permitted Capacity:

	Flow (MGD) Reuse	TSS	TRC for disinfection	Fecal Coliform Bacteria	pH	Turbidity Ponte Vedra	CBOD5					
STORET	50050	00530	50060	31615	00400	82078	080082					
Mon. Site	EFD-1	EFB-1	EFA-1	EFA-1	EFD-1	EFB-1	EFD-1					
1												
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PLANT STAFFING:

Day Shift Operator Class: _____ Certificate _____ Name: _____

Evening Shift Operator Class: _____ Certificate _____ Name: _____

Night Shift Operator Class: _____ Certificate _____ Name: _____

Lead Operator Class: _____ Certificate _____ Name: _____

Type of Effluent Disposal or Reclaimed Water _____

Limited Wet Weather Discharge Activated: Yes: No: Not Applicable: If yes, cumulative days of wet weather discharge: _____

Department of Environmental Protection

CC Howard Hall Scott Tom File

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

RECEIVED
MAR 1997
UNITED WATER FLORIDA

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTICE OF PERMIT ISSUANCE

CERTIFIED MAIL - RETURN RECEIPT

March 10, 1997

In the Matter of an Application
for Permit by:
United Water Florida
1400 Millcoe Road
Jacksonville, Florida 32225

DEP File No. 274745
Duval County
San Jose WWTF

Enclosed is Permit Number FL0023663 to operate a 2.25 MGD Complete Mix activated sludge WWTF with final effluent disposal to the St. Johns River issued under Chapters 62-4, 62-302, 62-600, 62-601, 62-620, 62-650, 62-699 of the Florida Administrative Code (F.A.C.) and Chapter 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;

(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.

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 March // , 1997 to the listed persons.

Copies furnished to: Mitchell Griffin, Ph.D., P.E.
Douglas Mundrick, P.E., EPA
Nam Huynh, P.E., RESD

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. Hanson Clerk 3/11/97 Date

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: **FL0023663**
ISSUANCE DATE: **March 10, 1997**
EXPIRATION DATE: **March 10, 2002**
APPLICATION No.: **274745**

RESPONSIBLE AUTHORITY:
M. Sambumurthi, P.E., Vice President

FACILITY:
San Jose WWTF
7128 Balboa Road
Jacksonville, Florida 32217

Latitude: 30° 14' 50" N Longitude: 81° 37' 13" 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 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 2.25 MGD AADF complete mix activated sludge wastewater treatment plant with bar screen and grit removal, complete mix aeration basins and secondary clarification, with the final disinfected and dechlorinated effluent discharged to the St. Johns River (Class III waters). Wastewater treatment plant residuals are thickened and stabilized by aerobic digestion prior to hauling to a land application site.

EFFLUENT DISPOSAL:

Surface Water Discharge: An existing 2.25 MGD AADF permitted discharge to the St. Johns River (Class III) through (1) a 5,000 foot, 15-inch diameter vitrified clay gravity pipeline to outfall D001, a 15-inch diameter vitrified clay pipeline extending approximately 250 feet from the eastern shoreline and terminating wth an upturned elbow and (2) a 5,000 foot, 16-inch diameter polyethylene force main to outfall D002, a 16-inch polyethylene pipeline extending approximately 250 feet from the eastern shoreline and terminating with an upturned elbow.

IN ACCORDANCE WITH: The application received on July 24, 1995, additional informantion submitted through September 29, 1995 and limitations, monitoring requirements and other conditions set forth in the pages 1 through 17 of this permit.

Permittee:
U[illegible]Water Florida, Inc.
San Jose WWTF

Permit Number: FL0023663
Issuance Date: March 10, 1997
Expiration Date: March 10, 2002
Application No.: 274745

I. Effluent Limitations and Monitoring Requirements

A. Surface Water Discharge Limits

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 Outfalls D001 and D002 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]

			Effluent Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow	mgd	Maximum	2.25	-	-	-	Continuous	Meter or Instrument	EFD-1	See I.A.4.
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	10.0	12.5	15.0	20.0	Weekly	16-hour flow-composite	EFD-1	
Total Suspended Solids	mg/L	Maximum	20.0	30.0	45.0	60.0	Weekly	16-hour flow-composite	EFD-1	
Fecal Coliform Bacteria	See Permit Condition I. A.5.						Weekly	Grab	EFD-1	
pH	std. units	Range	-	-	-	6.5 to 8.5	Continuous	Meter or Instrument	EFD-1	See I.A.3.
Total Residual Chlorine (For Disinfection)	mg/L	Minimum	-	-	-	0.5	Continuous	Meter or Instrument	EFA-1	See I.A.3. , 6., and 10.
Total Residual Chlorine (For Dechlorination)	mg/L	Maximum	-	-	-	0.01	Daily, 7/week	Grab	EFD-1	See I.A.10.
Dissolved Oxygen	mg/l	Minimum	-	-	-	Report	Daily, 7/week	Grab	EFD-1	See I.A.10
Whole Effluent Toxicity	See Permit Condition I.A.7 and 8.									
Nutrient Monitoring	See Permit Condition I.A.11									
Stream Monitoring	See Permit Condition I.A.12									
Benthic Monitoring	See Permit Condition I.A.13									

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
EFD-1	After final treatment prior to discharge to the St. Johns River.
EFA-1	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. Mortalities of 50% or greater in a sample of 100% effluent in a test of 96 hours duration or less will constitute a violation of Florida Administrative Code (FAC) and the terms of this permit. The testing for this requirement must conform with Permit Condition I.A.8. of this permit. 62-4.244(3)(a) , 10-16-95.

8. WHOLE EFFLUENT TOXICITY TESTING

In accordance with Rules 62-302.500(1)(d) and 62-302.200(1) FAC , the Permittee shall initiate the series of tests described below to evaluate whole effluent toxicity of the discharge from outfalls D001 and D002. Tests shall be conducted in accordance with the Utility's existing bioassay testing schedule. 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 salinity of the control water and the effluent used will be adjusted using artificial sea salts as described in EPA/600/4-90/027F, Section 9, or the most current edition. The tests salinity shall be 20ppt for the mysid shrimp and for the inland silverside minnow. 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. Any deviation from the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use.

a. ROUTINE TEST REQUIREMENTS

1. The permittee shall conduct 96 hour acute static renewal toxicity tests using the mysid shrimp, Mysidopsis bahia and the inland silverside minnow, Menidia beryllina . All 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.

2. 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, 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.

3. The Toxicity tests specified above shall be conducted using a control (0% effluent) and a test concentration of 100% final effluent and shall be conducted once every six months in accordance with the Utility's existing bioassay testing schedule. These tests are referred to as "routine tests".

4. Results from "routine" tests shall be reported according to EPA/600/4-90/027F, Section 12, Report Preparation (or the most current edition), and shall be submitted within thirty (30) days to:

Florida Department of Environmental Protection
Northeast District
7825 Baymeadows Way Suite B-200
Jacksonville, Florida 32256

The results 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, "<100%" shall be entered on the DMR for that species. If 50% or greater survival occurs in all four separate grab sample tests, ">100%" shall be entered.

b. ADDITIONAL TESTING REQUIREMENTS

1. If a violation of acute toxicity occurs (greater than 50% mortality in any grab sample of 100% effluent) in a routine test, the permittee shall conduct a minimum of three (3) valid additional 96 hour acute static renewal definitive tests on the specie(s) indicating toxicity. The first test shall begin within 7 days of the failed routine and be conducted weekly thereafter until three valid additional tests are complete. The additional tests sample collection requirements and test acceptability criteria specified in paragraphs 'a.1' and 'a.2' above must be met for the tests to be considered valid. All additional definitive tests shall be conducted with a control (0% effluent) and effluent concentrations of 6.25%, 12.5%, 25%, 50%, and 100%. 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

2. Results for each additional test will include the determination of LC50 values with 95% confidence limits. Results from the additional tests, required due to an acute toxicity violation 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 a continued violation of toxicity, the permitee will meet with the Department within 30 days of the report submittal to identify corrective actions necessary to remedy the permit violation.

3. Should the results from the additional tests indicate the characteristic of toxicity, and the Permittee has no reasonable explanation (with supporting data) for the test failures, 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, along with total and unionized ammonia, nitrate and nitrite nitrogen, TKN and total and ortho phosphorus.

4. 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 additional tests and preferably, prior to meeting with the Department to identify corrective actions as required under I.9.b.2 above. The Permittee shall implement the

agreed upon plan of study within 30 days of receipt of written Department's authorization to proceed. 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), FAC]*

9. 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. Additionally, a showing that new information, which shall include any significant information derived from effluent testing required after permit issuance, received by the Department that was not available at the time of permit issuance and would have justified the application of different permit conditions at the time of issuance is considered good and just cause for the Department to require the permittee to conform to new or additional permit conditions. The Department shall allow the permittee a reasonable time to conform to the new permit conditions. *[Chapter 62-620.320(9), 62-620.325(1)(e), and 62-302.510(5), FAC]*

10. 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(6)(a)through(e), FAC. Each effluent parameter has an applicable method detection limit (MDL) and a practical quantification limit (PQL). 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 less than the PQL and deemed equal to the MDL. Results less than the MDL shall be reported as less than the MDL.

    For Dissolved Oxygen, use EPA methods 360.1 or 360.2. For total chlorine residual, use EPA methods 330.1 or 330.5. Analysis of total residual chlorine shall be conducted to the practical quantification limit of the available equipment but not to exceed a method detection limit of 0.1 mg/L. The Department reserves the right to provide a recommended MDL and a target PQL. Equivalent methods are subject to approval by the Department for each effluent parameter. See permit general condition IX.18. *[62-4.246 FAC, 4-30-95]*

11. 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:

    a. Nitrite nitrogen (NO2-N) and nitrate nitrogen (NO3-N).
    b. Organic nitrogen.
    c. Total nitrogen.
    d. Total Ammonia.
    e. Total Kjeldahl nitrogen.
    f. Orthophosphorus.
    g. Total phosphorus.

    An 16-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) FAC, 8-8-94]*

12. 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
    #2 approximately 300 feet downstream of the outfall

The parameters to be measured shall include the following:

DO, pH, temperature, conductivity, salinity, Secchi Disk, $CBOD_5$, NH_3-N, TKN, NO_2-N and NO_3-N, TP, Ortho-Phosphorus, Chlorophyll A, tide stage, alkalinity, color, chloride

Metered parameters (DO, pH, temperature, conductivity, salinity) shall be sampled at the surface. 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]*

13. 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:

Transect #1
- SWB-1 approximately 300 feet upstream of the outfall and 20 feet from the eastern shoreline
- SWB-2 approximately 300 feet upstream of the outfall and 500 feet from the eastern shoreline

Transect #2
- SWB-3 approximately 300 feet downstream of the outfall and 20 feet from the eastern shoreline
- SWB-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. A 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]*

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]

			Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	-	-	-	-	-	Weekly	16-hour composite	INF-01	See I.B.3
Total Suspended Solids	mg/L	-	-	-	-	-	Weekly	16-hour composite	INF-01	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	Following preliminary treatment (i.e. screening) in 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(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]*

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 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.

[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]*

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 12 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 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
Higgenbotham	263	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 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 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 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 Acquistion (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.;

   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. In accordance with Jacksonville Environmental Protection Board (EPB) Rule 3.409C.2., the Master Plan For Regional Sewerage Development for San Jose WWTF 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. 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 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 $40^{o}C$

is prohibited.

[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]*

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:

   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 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,
        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;
   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

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, receipt of which is hereby acknowledged.

Judy H. Branson 3/11/97
Clerk Date

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

Permit Number: FL0023663

Application Date: July 24, 1995

Application Complete: September 29, 1995

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

Public Notice Date: January 17, 1997

1. SYNOPSIS OF APPLICATION

a. Name and Address of Applicant

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

For:

San Jose WWTF
7128 Balboa Road
Jacksonville, Florida 32217

b. Type of Facility

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

c. Facility Capacity

Existing Design Capacity:	2.25 MGD AADF
Proposed Increase in Design Capacity:	0.00 MGD AADF
Proposed Total Design Capacity:	2.25 MGD AADF
Existing Permitted Capacity:	2.25 MGD AADF
Proposed Increase in Permitted Capacity:	0.00 MGD AADF
Proposed Total Permitted Capacity:	2.25 MGD AADF

d. Description of Facilities

To operate a 2.25 MGD AADF complete mix activated sludge wastewater treatment plant with bar screen and grit removal, complete mix aeration basins and secondary clarification, with the final disinfected and dechlorinated effluent discharged to the St. Johns River (Class III waters). Wastewater treatment plant residuals are thickened and stabilized by aerobic digestion prior to hauling to a land application site.

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

Surface Water Discharge: An existing 2.25 MGD AADF permitted discharge to the St. Johns River (Class III) through (1) a 5,000 foot, 15-inch diameter vitrified clay gravity pipeline to outfall D001, a 15-inch diameter vitrified clay pipeline extending approximately 250 feet from the eastern shoreline and terminating wth an upturned elbow and (2) a 5,000 foot, 16-inch diameter polyethylene force main to outfall D002, a 16-inch polyethylene pipeline extending approximately 250 feet from the eastern shoreline and terminating with an upturned elbow.

Latitude: 30° 14' 50" N Longitude: 81° 37' 13" 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 Numbers D001 and D002:

Annual Average Daily Flow (MGD): 2.033

pH Range (Standard Units): 6.5 to 6.8 (Average Daily Value last year)

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. (last year)	Lowest Monthly Avg.	Maximum Daily Value
$CBOD_5$, mg/L	2.5	--	16.2
TSS, mg/L	6.7	--	50.7
Fecal Coliform, #/100 ml	16	--	68
TRC (for dechlorination), mg/L	0.01	--	0.03

2. PROPOSED EFFLUENT LIMITATIONS

Effluent limitations are based on the previous State Operation and Federal NPDES permits. The anti-backsliding provisions of .402(o)(1) of the Clean Water Act and 40CFR .122.44(1) have been followed.

Outfall Serial Numbers D001 and D002:

Parameters	Effluent or Reclaimed Water Limitations				
	Maximum/ Minimum	Annual Average	Monthly Average	Weekly Average	Single Sample
Flow, MGD (Interim)	Maximum	2.25			
$CBOD_5$, mg/L	Maximum	10	12.5	15	20
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	6.5 to 8.5			
Dissolved Oxygen, mg/L	Minimum	--	--	--	Report
Whole Effluent Toxicity	See discussion below.				

The Permittee shall conduct a 96-hour acute static toxicity tests using the Mysidopsis bahia (mysid or possum shrimp) and a 96-hour acute static-renewal toxicity tests using the Menidia beryllina (tidewater silverside) using effluent salinity adjusted to 20 ppt for each test species. 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. Results of the four tests are not to be combined or averaged, but reported separately. The toxicity tests specified above shall be conducted using a control (0% effluent) and test concentration of 100% final effluent. An LC_{50} of 100% or less in a test of 96 hours duration or less will constitute a violation of Florida Administrative Code (FAC) and the terms of this permit.

The limits for TSS have been changed to reflect secondary treatment standards as requested by the Permittee. The former CBOD5 and total suspended solids limitations were established based on an Antidegradation Response provided with an application for the relocation of the Royal Lakes outfall to the St. Johns River. At that time, the justification for the new Royal Lakes discharge was based on the combined loading that represented a level previously permitted for the San Jose WWTP.

The final permit may be opened and the effluent limits modified if the results of the on-going Total Mass Design Loading (TMDL) study for the St. Johns River show different limits are more appropriate.

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. and I.B. provisions.

Outfalls D001and D002:

Parameter		Basis for Limit/Monitoring Requirement
Flow	Annual ADF	62-600.400(3)(b) FAC
$CBOD_5$	Annual Average	62-650 and 62-302.300 FAC
	Monthly Average	62-650 and 62-302.300 FAC
	Weekly Average	62-650 and 62-302.300 FAC
	Single Sample Max.	62-650 and 62-302.300 FAC
TSS	Annual Average	62-600.420(1)(b)2. & .740(1)(b)4. 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)	Minimum	62-600.440(4)(b) FAC
TRC (for dechlorination)	Single Sample Max.	62-600.440(2) FAC & 62-302.530(19) FAC
Acute Whole Effluent Toxicity	Single Sample Max.	62-302.500(1)(e), FAC
Dissolved Oxygen	Report	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:

Chapter	Effective Date
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

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
$CBOD_5$	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:

Chapter	Effective Date
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
Cope Farm	134.4	Jacksonville	Duval
Higgenbottom	263	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

5. INDUSTRIAL PRETREATMENT REQUIREMENTS

There are no industrial pretreatment requirements for this facility.

6. REQUESTED VARIANCES OR ALTERNATIVES TO REQUIRED STANDARDS

There are no requested variances or alternatives to the required standards.

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

The only compliance schedule is for submittal of a Master Sewage Plan update to RESD.

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	2.25	--	--	--
$CBOD_5$, mg/L	Maximum	10	12.5	15	20
TSS, mg/L	Maximum	10	12.5	15	20
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	6.5 to 8.5			
Whole Effluent Toxicity	See discussion below.				

The whole effluent toxicity testing requirements in the former NPDES permit required 48-hour acute static screening toxicity tests using the Mysidopsis bahia (mysid shrimp) and the Menidia beryllina (inland silverside). This testing was referenced in the former State operation permit as well. This condition has been changed to reflect current EPA policy and methodology as described in Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms, EPA/600/4-90/027F (4th edition), as well as State policy regarding test duration.

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
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. PROPOSED SCHEDULE FOR PERMIT ISSUANCE

Process Elements	**Projected Date of Completion**
Effective Date of the Application:	September 29, 1995
Draft Permit to Applicant and EPA for Review:	December 18, 1995
Receive comments from Applicant on Draft Permit:	March 4, 1996
2nd Draft Permit to Applicant and EPA for Review:	April 10, 1996
Receive comments from Applicant on 2nd Draft Permit:	May 15, 1996
3rd Draft Permit to Applicant and EPA for Review:	July 16, 1996
Receive comments from Applicant on 3rd Draft Permit:	August 26, 1996
4th Draft Permit to Applicant and EPA for Review:	October 14, 1996
Receive comments from Applicant on 4th Draft Permit:	December 2, 1996
5th Draft Permit to Applicant and EPA for Review:	December 23, 1996
Begin/End Public Comment Period:	January 17 to February 17, 1997
Notice of Agency Action:	March 10, 1997
Final Department Action:	March 10, 1997

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

a. Public Comment Period

The Notice of Public Comment Period for this permit application and draft permit was advertised in the Florida News and Daily Record on January 17, 1997. No requests for a public meeting or written comments were received during the 30 day public comment period.

b. Public Meeting

Because no requests were received for a public meeting, the Department will not hold a public meeting for the draft permit.

c. Issuance of the Permit

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. 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 officers 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, Inc.	PERMIT NUMBER:	FL0023663		
MAILING ADDRESS:	Mr. Munipalli Sambamurthi, Vice President, Manager 1400 Millcoe Road Jacksonville, Florida 32225	MONITORING PERIOD From:		To:	
		LIMIT:	Final	REPORT:	Monthly
		CLASS SIZE:	Major	GROUP:	Domestic
FACILITY:	San Jose WWTF	FACILITY ID:	FL0023663	WAFR SITE NO.:	9153
LOCATION:	7128 Balboa Road Jacksonville, FL 32217	GMS ID NO.:	3116P01471	GMS TEST SITE NO.:	3116X00023
		DISCHARGE POINT NUMBER:	D001 & D002		
COUNTY:	Duval	PLANT SIZE/TREATMENT TYPE:	IIB		

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. EFD-1	Permit Measurement	2.25 (Ann.Avg.)		mgd						Continuous	Meter or Instrume
Flow	Sample Measurement										
STORET No. 50050 1 Mon.Site No. EFD-1	Permit Measurement	Report (Mo.Avg.)		mgd						Continuous	Meter or Instrument
CBOD5	Sample Measurement										
STORET No. 80082 Y Mon.Site No. EFD-1	Permit Measurement				10.0 (Ann.Avg.)			mg/L		Weekly	16-hour FPC
CBOD5	Sample Measurement										
STORET No. 80082 1 Mon.Site No. EFD-1	Permit Measurement				12.5 (Mo.Avg.)		20.0 (Max.)	mg/L		Weekly	16-hour FPC
TSS	Sample Measurement										
STORET No. 00530 Y Mon.Site No. EFD-1	Permit Measurement				20.0 (Ann.Avg.)			mg/L		Weekly	16-hour FPC
TSS	Sample Measurement										
STORET No. 00530 1 Mon.Site No. EFD-1	Permit Measurement				30.0 (Mo.Avg.)		60.0 (Max.)	mg/L		Weekly	16-hour FPC
pH	Sample Measurement										
STORET No. 00406 1 Mon.Site No. EFD-1	Permit Measurement					6.5 (Min.)	8.5 (Max.)	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: San Jose WWTF | PERMIT NUMBER: FL0023663 | DISCHARGE POINT NUMBER:D001&D002 | WAFR SITE No.:9153

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. EFD-1	Permit Measurement				200 (Ann.Avg.)			#/100mL		Weekly	Grab
Fecal Coliform Bacteria	Sample Measurement										
STORET No. 31616 1 Mon.Site No. EFD-1	Permit Measurement				Report (Mo.Geo.Mean)		800 (Max.)	#/100mL		Weekly	Grab
Dissolved Oxygen	Sample Measurement										
STORET No. 00300 1 Mon. Site No. EFD-1	Permit Measurement					Report (Min.)		mg/L		Daily, 7/week	Grab
Total Chlorine Residual (for Disinfection)	Sample Measurement										
STORET No. 50060 1 Mon. Site No. EFA-1	Permit Measurement					0.5 (Min.)		mg/L		Continuous	Meter or Instrument
Total Chlorine Residual (for Dechlorination)	Sample Measurement										
STORET No. 50060 1 Mon. Site No. EFD-1	Permit Measurement					0.01 (Max.)		mg/L		Daily, 7/week	Grab
CBOD5	Sample Measurement										
STORET No. 80082 G Mon.Site No. INF-1	Permit Measurement				Report (Mo. Avg.)			mg/L		Weekly	16-hour FPC
TSS	Sample Measurement										
STORET No. 00530 G Mon.Site No. INF-1	Permit Measurement				Report (Mo. Avg.)			mg/L		Weekly	16-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.	PERMIT NUMBER:	FL0023663		
MAILING ADDRESS:	Mr. Munipalli Sambamurthi, Vice President, Manager 1400 Millcoe Road Jacksonville, Florida 32225	MONITORING PERIOD From:		To:	
		LIMIT:	Final	REPORT:	Toxicity
		CLASS SIZE:	Major	GROUP:	Domestic
FACILITY:	San Jose WWTF	FACILITY ID:	FL0023663	WAFR SITE NO.:	9153
LOCATION:	7128 Balboa Road Jacksonville, FL 32217	GMS ID NO.:	3116P01471	GMS TEST SITE NO.:	3116X00023
		DISCHARGE POINT NUMBER:	D001 & D002		
COUNTY:	Duval	PLANT SIZE/TREATMENT TYPE:	IIB		

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. EFD-1	Permit Measurement				100 (Min)			Percent		Semi-Annual	4 Grabs/24 hours
LC50 STATRE 96HOUR ACUTE MYSID.BAHIA (DEFINITIVE)*	Sample Measurement										
STORET No. TAN3E Q Mon.Site No. EFD-1	Permit Measurement				100 (Min)			Percent		As Required	4 Grabs/24 hours
LC50 STATRE 96HOUR ACUTE MENIDIA (ROUTINE)	Sample Measurement										
STORET No. TAN6B P Mon.Site No. EFD-1	Permit Measurement				100 (Min)			Percent		Semi-Annual	4 Grabs/24 hours
LC50 STATRE 96HOUR ACUTE MENIDIA (DEFINITIVE)*	Sample Measurement										
STORET No. TAN6B Q Mon.Site No. EFD-1	Permit Measurement				100 (Min)			Percent		As Required	4 Grabs/24 hours

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.	PERMIT NUMBER:	FL0023663
MAILING ADDRESS:	Mr. Munipalli Sambamurthi, Vice President, Manager 1400 Millcoe Road Jacksonville, Florida 32225	MONITORING PERIOD From:	To:
		LIMIT: Final	REPORT: Quarterly
		CLASS SIZE: Major	GROUP: Domestic
FACILITY:	San Jose WWTF	FACILITY ID: FL0023663	WAFR SITE NO.: 9153
LOCATION:	7128 Balboa Road Jacksonville, FL 32217	GMS ID NO.: 3116P01471	GMS TEST SITE NO.: 3116X00023
COUNTY:	Duval	DISCHARGE POINT NUMBER: D001 & D002	
		PLANT SIZE/TREATMENT TYPE: IIB	

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. EFD-1	Permit Measurement				Report (Max)			mg/L		Once/quarter	16-hour FPC
ORGANIC NITROGEN, TOTAL AS N	Sample Measurement										
STORET No. 00605 1 Mon.Site No. EFD-1	Permit Measurement				Report (Max)			mg/L		Once/quarter	16-hour FPC
NITROGEN, NITRITE+NITRATE AS N	Sample Measurement										
STORET No. 00630 1 Mon.Site No. EFD-1	Permit Measurement				Report (Max)			mg/L		Once/quarter	16-hour FPC
AMMONIA, TOTAL AS N	Sample Measurement										
STORET No. 00610 1 Mon.Site No. EFD-1	Permit Measurement				Report (Max)			mg/L		Once/quarter	16-hour FPC
PHOSPHOROUS, TOTAL AS P	Sample Measurement										
STORET No. 00665 1 Mon.Site No. EFD-1	Permit Measurement				Report (Max)			mg/L		Once/quarter	16-hour FPC
PHOSPHOROUS, ORTHO- AS P	Sample Measurement										
STORET No. 70507 1 Mon.Site No. EFD-1	Permit Measurement				Report (Max)			mg/L		Once/quarter	16-hour FPC
NITROGEN, TOTAL KJELDAHL	Sample Measurement										
STORET No. 00625 1 Mon. Site No. EFD-1	Permit Measurement				Report (Max)			mg/L		Once/quarter	16-hour FPC

Facility ID: FL( )
Month/Year:

DAILY SAMPL[redacted]SULTS - PART B

( )

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.

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).

If this plant does not have a limited wet weather discharge permitted under the provision of Rule 62-610.860, F.A.C., check not applicable. If the plant activated the wet weather discharge during the reporting month, check yes and attach PART C - LIMITED WET WEATHER DISCHARGE.

PART C - LIMITED WET WEATHER DISCHARGE

This part is applicable only to limited wet weather discharges from reuse systems describe in Rule 62-610.860, F.A.C. If applicable, this part is to be completed and submitted each month reclaimed water or effluent is discharged by a limited wet weather discharge. For months with no discharge, Part C need not be submitted. All information is to be provided for each day on which the limited wet weather discharge was activated. All information is to be typed or printed in ink.

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**.
CBOD5: Enter the average $CBOD_5$ 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.

PART D - GROUNDWATER MONITORING REPORT

This part is applicable only to groundwater monitoring wells. Type or print in ink the required data. All samples shall be collected and analyzed in accordance with Chapter 62-160, F.A.C. Laboratory reports shall be kept on file in the location indicated in your permit and made available for inspection upon request by the Department.

Facility ID: This is the identification number of the facility assigned by the Department.
Test Site ID: This is the identification number of the sampling site listed in your permit.
Month/Year: This is the period during which the data on this report was collected and analyzed. If the period is greater than one month, indicate beginning month to ending month.
Well Type: Indicate if the well being sampled is background, intermediate, compliance, or other. If other, explain in the comment section.
Date Sample Obtained: This is the date the sample was taken.
Ground Water Class: This is the classification of the ground water under Chapter 62-522, F.A.C.
Parameter: Analyze the parameters the permit requires. List any additional parameters from the permit which are not pre-listed here. If there are any parameters listed here which are not required by your permit, enter NR on that line.
Storet Code: Enter the Storet Code associated with the parameter.
Sampling Method: Describe the sampling method used.
Samples Filtered: Indicate whether the sample obtained was filtered (Y) or unfiltered (N).
Preservatives Added: State what preservatives were added to the sample.
Analysis Method: Indicate the analytical method used. Record the number from Chapter 62-160 or Chapter 62-601, F.A.C., or from other sources.
Analysis Result/Units: Record the results of the analysis. If the result was below the minimum detection limit, indicate that. Enter the units associated with the results of the analysis.
Detection Limits/Units: Record the detection limits and the units associated with them.
Comments and Explanations: Use this space to make any comments on or explanations of results which are unexpected.

Department of Environmental Protection

Toward File Copy Hyden Hall

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

RECEIVED
DEC 19 1997
UNITED WATER FLORIDA

San Pablo

CERTIFIED MAIL-RETURN RECEIPT

December 15, 1997

In the Matter of an Application
for Permit by:

DEP File No. 269271
Duval County

Mr. M. Sambamurthi, P.E., Vice President
United Water Florida
1400 Millcoe Road
Jacksonville, Florida 32225-4442

NOTICE OF PERMIT ISSUANCE

Enclosed is Permit Number FL0024767 to operate a domestic wasteater treatment facility issued under section(s) [403] of the Florida Statutes.

The Department's proposed agency action shall become final unless a timely petition for an administrative hearing is filed under sections 120.569 and 120.57 of the Florida Statutes before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

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

Petitions by the applicant or any of the parties listed below must be filed within fourteen days of receipt of this written notice. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the notice or within fourteen days of receipt of the written notice, whichever occurs first.

Under section 120.60(3) of the Florida Statutes, however, any person who has asked the Department for notice of agency action may file a petition within fourteen days of receipt of such notice, regardless of the date of publication.

The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition or request for mediation 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. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

(a) The name, address, and telephone number of each petitioner; the Department 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 action;
(c) A statement of how each petitioner's substantial interests are affected by the Department 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 action;
(f) A statement of which rules or statutes the petitioner contends require reversal or modification of the Department action; and
(g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take.

A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by rule 28-106.301.

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

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

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

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Jerry M. Owen, P.E.
Water Facilities Administrator
7825 Baymeadows Way, Suite, B200
Jacksonville, FL 32256

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 12/18/99 to the listed persons.

Copies furnished to:
Nam Huynh, P.E., RESD-WQD
Don Maurer, P.E., CDM
Jan Mandrup-Poulsen

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 12/18/99

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

PERMIT/FACILITY NO.	FL0024767
ISSUANCE DATE	December 15, 1997
EXPIRATION DATE	December 14, 2002
APPLICATION NO.	269271

RESPONSIBLE AUTHORITY:
Mr. M. Sambamurthi, P.E., Vice President
1400 Millcoe Road
Jacksonville, FL 32225 (904) 721-4610

FACILITY:

San Pablo WWTF
14738 Marshview Drive, (Blue Water Drive)
Duval County
Jacksonville, FL Minor Facility
Latitude: 30° 16' 45" N Longitude: 81° 26' 15" 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 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:

An existing 0.499 MGD annual average daily flow (AADF) permitted capacity extended aeration activated sludge domestic wastewater treatment plant providing secondary treatment consisting of influent screening, aeration (.750 MG volume), secondary clarification, aerobic digestion (62,500 gallon volume), chlorine disinfection, and dechlorination.

This permit also allows for the construction of a residuals management system know as the Micronair Solids Management system or comparable solids management system that provides aerobic digestion, a system of rotary drum screens and cyclones that removes inerts, trash and sand for collection and disposal to an approved landfill. This permit allows for the re-rating of the facility from 0.499 MGD annual average daily flow (AADF), to a permitted discharge of 0.640 MGD annual average daily flow. The chlorination disinfection system shall be replaced by an ultraviolet disinfection (UV) system consisting of 80 lamps in two vertical array units. The UV system is designed to meet basic level disinfection. Upon notification of completion of the UV disinfection system to the Department, the permitted capacity shall be 0.750 MGD AADF. The point of discharge shall remain the same with:

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EFFLUENT DISPOSAL:

Surface Water Discharge: An existing 0.499 MGD annual average daily flow (AADF) permitted discharge to a canal to Pablo Creek (Class III marine waters) at D001 (Intracoastal Waterway). The D001 (Intracoastal Waterway) outfall line is approximately 243 feet in length, discharging at a depth of approximately 3 feet and the point of discharge is located approximately at latitude 30° 16' 45" N, longitude 81° 26' 15" W.

For the expansion of the rated capacity of the discharge from 0.499 MGD annual average daily flow (AADF), to a permitted discharge of 0.640 MGD annual average daily flow. The chlorination disinfection system shall be replaced by an ultraviolet disinfection (UV) system. Upon notification of completion of the UV disinfection system to the Department, the permitted capacity shall be 0.750 MGD AADF. The point of discharge shall remain the same.

IN ACCORDANCE WITH: The application, additional information provided through June 30, 1997, the limitations, monitoring requirements and other conditions as set forth in Pages 1 through 20 of this permit.

I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Surface Water Discharges

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 Pablo Creek (Intracoastal Waterway). Such discharge shall be limited and monitored by the permittee as specified below:

			Effluent Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow (Interim)	mgd	Maximum	0.64				Continuous	Recording flow meters and totalizers	EFD-1	See Cond.I.A.4
Flow (Final)	mgd	Maximum	0.75				Continuous	Recording flow meters and totalizers	EFD-1	See Cond.I.A.4
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	10.0	12.5	15.0	20.0	Weekly	8-hour flow proportioned composite	EFD-1	
Total Suspended Solids	mg/L	Maximum	20.0	30.0	45.0	60.0	Weekly	8-hour flow proportioned composite	EFD-1	
Fecal Coliform Bacteria	See Permit Condition I.A.5.						Weekly	Grab	EFD-1	
pH	std. units	Range				6.5 to 8.5	Five days per week	Grab or instrument	EFD-1	See Cond. I.A.3
Total Residual Chlorine (For Interim Disinfection)	mg/L	Minimum				0.5	Five days per week	Grab or instrument	EFA-1	See Cond.I.A.5
Total Residual Chlorine (For Interim Dechlorination)	mg/L	Maximum				0.01	Five days per week	Grab	EFD-1	
UV Disinfection (Final Disinfection)	--	Monitor					Seven days per week	Instrument	EFD-1	See Cond. I.A.6
Whole Effluent Toxicity	See Permit Condition I.A.11									
Oxygen, Dissolved (DO)	mg/L	Report					Five days per week	Grab	EFD-1	See Cond I.A.9

I.A.1 continued

			Effluent Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Total Recoverable Copper	ug/L	Report					Weekly	8-hour flow proportioned composite	EFD-1	
Nitrogen, Total Kjeldahl as N	mg/L as N	Maximum	4.0	5.0	6.0	8.0	Weekly	8-hour flow proportioned composite	EFD-1	See Cond I.A.13
Nitrogen, Ammonia, Total as N	mg/L as N	Report	-	-	-	--	Quarterly	8-hour flow proportioned composite	EFD-1	See Cond I.A.13
Organic Nitrogen, Total as N	mg/L as N	Report	-	-	-	--	Quarterly	8-hour flow proportioned composite	EFD-1	See Cond I.A.13
Phosphorus, Total as P	mg/L as P	Report	-	-	-	--	Quarterly	8-hour flow proportioned composite	EFD-1	See Cond I.A.13
Phosphorus in Total Orthophosphate as P	mg/L as P	Report	-	-	-	--	Quarterly	8-hour flow proportioned composite	EFD-1	See Cond I.A.13
Nitrogen, Total as N	mg/L as N	Report	--	--	--	--	Quarterly	8-hour flow proportioned composite	EFD-1	See Cond I.A.13
NO2+NO3-Nitrogen, Total as N	mg/L as N	Report	-	-	-	--	Quarterly	8-hour flow proportioned composite	EFD-1	See Cond. I.A.13

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
EFA-1	Sample point immediately after disinfection
EFD-1	Sample point immediately after dechlorination

3. Hourly measurement of pH and total residual chlorine for disinfection during the period of required operator attendance may be substituted for continuous measurement. *[Chapter 62-601, Figure 2, Footnotes 1 and 2, 5-31-93]*

4. Recording flow meters and totalizers shall be utilized to measure flow and calibrated at least annually. Upon completion of the UV disinfection system, the permitted capacity shall be rated at 0.750 MGD AADF. See permit section VI. *[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 (the 90th percentile value) 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. Note: To report the 90th percentile value, list the fecal coliform values obtained during the month in ascending order. Report the value of the sample that corresponds to the 90th percentile (multiply the number of samples by 0.9). For example, for 30 samples, report the corresponding fecal coliform number for the 27th value of ascending order. *[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. Upon completion of the ultraviolet disinfection (UV) system and approval by the Department, the permittee shall place the UV system into operation. Chlorine residual will not need to be monitored once the UV system is placed in operation. This UV system shall be monitored on a daily basis and the intensity and unit operation shall be verified. Operation and maintenance shall be performed on a regular basis in accordance with the manufacturer recommendations for an adequate factor of safety. Routine cleaning and bulb replacement practices shall be maintained. *[62-600.440(4)(b), 6-8-93]*

7. The wasteload allocation for this source is 170 lb. per day ultimate oxygen demand, as a maximum 30 day average limit. *[62-620.320(9), 11-29-94] and [62-302.510(5), 2-27-95]*

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. In accordance with the dissolved oxygen (DO) standard of Chapter 62-302.530(31) FAC, for Class III marine waters, the DO shall be reported and measured in accordance with condition I.A.11. Florida water quality criteria and standards shall not be violated as a result of the discharge at monitoring locations EFD-1. *[62-620.320(9), 11-29-94][62-302.510(5), 2-27-95]*

10. In accordance with Rule 62-302.500(1)(d) FAC, the Department reserves the right to require a series of tests to evaluate whole effluent toxicity of the discharge from outfalls. If required, the Department shall provide notice to the permittee by issuing a permit modification.

11. 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).

Parameter	Analytical Method	MDL (units)	PQL (units)
$CBOD_5$	405.1	0.2 (mg/L)	1.0 (mg/L)
TKN	351.3	1.0 (mg/L)	1.0 (mg/L)
TSS	160.2	4.0 (mg/L)	4.0 (mg/L)
pH	150.1	0.10 (s.u.)	0.10 (s.u.)
Fecal Coliform	600/8-78-017	1/100 mL	2/100 mL
TRC (disinfection) or	330.1	0.01 (mg/L)	0.01 (mg/L)
TRC (disinfection) or	330.4	0.1 (mg/L)	0.1 (mg/L)
TRC (disinfection)	330.5	0.2 (mg/L)	0.2 (mg/L)
TRC(dechlorination)	330.1	0.01 (mg/L)	0.01 (mg/L)
Dissolved Oxygen or	360.1	0.10 (mg/L)	0.10 (mg/L)
Dissolved Oxygen	360.2	0.20 (mg/L)	0.20 (mg/L)
Copper, total recoverable	220.2	1.0 (ug/L)	5.0 (ug/L)
Nitrogen, Total	351.2 and 353.2	0.1 (mg/l)	0.2 (mg/l)
Phosphorus, Total	365.1	0.02 (mg/l)	0.05 (mg/l)
Ammonia, Total	350.1	0.02 (mg/l)	0.04 (mg/l)
Nitrate+Nitrite	353.2	0.05 (mg/l)	0.1 (mg/l)
Orthophosphorus	365.1	0.02 (mg/l)	0.05 (mg/l)
Organic Nitrogen	calculated	-	-

The MDLs and PQLs listed above shall constitute the minimum reporting levels for the duration of this permit. Equivalent methods are subject to approval by the Department for each effluent parameter. The Department shall not accept results for which the laboratory's MDLs or PQLs are greater than those listed above. Equivalent methods are subject to approval by the Department for each effluent parameter. See permit specific condition number I.A.9 and general condition IX.18.. Unless otherwise specified, sample results shall be reported as follows:

a) Results greater than or equal to the PQL shall be reported as the measured quantity.

b) Results less than the PQL and greater than or equal to the MDL shall be reported as the PQL followed by the lab code "m" and shall be deemed equal to the MDL when necessary to calculate an average for that parameter.

c) 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 FAC, 10-13-95]

12. 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:

a. Nitrite nitrogen (NO2-N) and nitrate nitrogen (NO3-N).
b. Organic nitrogen.
c. Total nitrogen.
d. Total Ammonia.

e. Total Kjeldahl nitrogen.
f. Orthophosphorus.
g. 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) FAC, 8-8-94]*

13. The Permittee shall initiate regular monitoring of the segment of the Intracoastal Waterway (Pablo Creek) near the outfall, D001, for maintaining data on the impact of the discharge to the water quality of the surface water body. The monitoring sites are described as follows:

STORET SITE	LOCATION	LATITUDE/LONGITUDE
27010118	Upstream of D001, between channel marker 39 and 40	301600.7 / 812524.3
27010117	Downstream of D001, at channel marker 36	301647.8 / 812519.9

The permittee shall coordinate the specific site locations with the DEP, Northeast District office. The parameters to be measured shall include the following:

DO, pH, temperature, conductivity, salinity, $CBOD_5$, NH_3-N, TKN, NO_2-N and NO_3-N, Total Phosphorous, Ortho-Phosphorus, Chlorophyll A, tide stage, velocity.

Metered parameters (DO, temperature, conductivity, salinity) shall be sampled at the surface, mid-depth and at the bottom. The pH parameter can be sampled only at the surface. Grab samples at mid depth for the other parameters is adequate. The sample shall be taken at the same time as the quarterly nutirent sampling event, as defined in I.A.1 above. The results for each quarterly instream sampling are due to be received at the Jacksonville DEP domestic waste section office by the following dates each year 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

[62-4.240(3)(c), 4-30-95]

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:

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

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. 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]*

5. The permittee shall provide safe access points for obtaining representative influent, reclaimed water, and effluent samples which are required by this permit. *[62-601.500(5), 5-31-93]*

6. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department on a monthly basis Discharge Monitoring Report(s) (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

   [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 District Office at the address specified below:

   Florida Department of Environmental Protection
   Northeast District Office District Office
   Florida Dept. of Environmental Protection 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.

II. RESIDUALS MANAGEMENT REQUIREMENTS

Basic Management Requirements

1. The method of residuals use or disposal by this facility is land application. However, this facility will utilize the Micronair Residuals system (or equivalent solids management system) and the land application of residuals will be very infrequent.

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]*

3. The domestic wastewater residuals for this facility are classified as Class B. The Department recognizes that this facility is constructing the Micronair Residuals Management system. The grit, sand and other inert material shall be taken to a permitted solid waste landfill. See specific condition VIII.8.

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 6 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]*

Agricultural Sites

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

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 12 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 land application sites. The facilities 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(s) identifies residuals land spreading on the following sites: *[62-620.330, 11-29-94]*

Site Name	Application Area (Acres)	Site Location	
		City	County
M.G. Higgenbotham	700	Jacksonville	Duval
Kennedy	100	Jacksonville	Duval

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 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 and annual summaries, including copies of applicable analytical laboratory reports for the wastewater residuals analysis for that period, shall be submitted to the Northeast District Office by 6/1 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 III, Class C facility and, at a minimum, operators with appropriate certification must be on the site as follows:

   A Class C or higher operator 6 hours/day for 5 days/week and one visit on each weekend day. The lead operator must be a Class C operator, or higher. In accordance with Jacksonville Environmental Protection Board (EPB) Rule 3.409B.3., a privately owned regional WWTP with a permitted capacity of less than 1.0 MGD must comply with the operator staffing requirements for a WWTP with a permitted capacity of greater than 1.0 MGD.
   [62-699, 5-20-94] [62-620.630(3), 11-29-94] [62-699.310, 5-20-92] [62-610.462(2), 4-2-90]

2. A certified operator shall be on call during periods the plant is unattended. *[62-699.311(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 May 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 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.;

   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 permittee shall conduct and implement according to the following schedule:

	Implementation Step	Completion Date
1	Submit the notification of completion of the residuals treatment system	6/1/98
2	Submit a summary report and analysis of the results of copper sampling.	12/1/98
3	Submit the notification of completion of the UV disinfection system.	12/1/98
4	Perform and submit results for one additional benthic macroinvertibrate community assessment for the four sites as detailed in the March 10, 1997, ESI report.	12/1/2001

[62-620, 11-29-94]

2. Prior to placing newly constructed facilities 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]*

3. 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]*

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 storm water in any amount into collection/transmission systems designed solely for the introduction (and conveyance) of domestic/industrial wastewater; or the deliberate introduction of storm water 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]*

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 acceptance by the operating authority of a collection/transmission system and/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°C is prohibited. *[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. Prior to placing the Micronair system into operation or any of the proposed 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]*

11. Within six months after the facility modification 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]*

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:

   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 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]*

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.

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;

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]

X. Local Environmental Program Requirements

1. In accordance with Jacksonville Environmental Protection Board (EPB) Rule 3.409 C.2, San Pablo WWTP is a regional sewerage system. The master plan for Regional Sewerage Development for United Water Florida shall be updated in accordance with EPB Rule 3.409 C.3, at least once every two years and submitted to Jacksonville Regulatory and Environmental Services Department (RESD), Air and Water Quality Division, 421 West Church Street, Suite 422, Jacksonville, Florida 32202-4111.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

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

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

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

Permit Number: 269271
FL0024767

Application Date: April 17, 1995

Additional Information: August 17, 1995
October 16, 1995
11/16/95, 4/22/96,
8/21/96, 4/21/97
6/30/97

Permit Writer: Jeff Martin, P.E.

Public Notice Date: Draft - July 25, 1997

1. SYNOPSIS OF APPLICATION

a. Name and Address of Applicant

United Water Florida
1400 Millco Road
Jacksonville, Florida 32225

Attn: M. Sambamurthi, P.E., Vice President

For:

San Pablo WWTP
14738 Marshview Drive
Jacksonville, Florida , Duval County

b. Type of Facility

Domestic Wastewater Treatment Plant
Publicly -owned treatment works - Minor
This facility has one domestic outfall.
Standard Industrial Classification Code: 4952.

c. Facility Capacity

Existing Design Capacity:	0.499 MGD AADF
Proposed Increase in Design Capacity:	0.249 MGD AADF
Proposed Total Design Capacity:	0.750 MGD AADF
Existing Permitted Capacity:	0.499 MGD AADF
Proposed Increase in Permitted Capacity:	0.249 MGD AADF
Proposed Total Permitted Capacity:	0.750 MGD AADF

d. Description of Facilities

To operate an existing 0.499 MGD annual average daily flow (AADF) permitted capacity extended aeration activated sludge domestic wastewater treatment plant providing secondary treatment consisting of

influent screening, aeration (.750 MG volume), secondary clarification, aerobic digestion (62,500 gallon volume), chlorine disinfection, and dechlorination.

This permit also allows for the construction of a residuals management system know as the Micronair Solids Management system, or comparable solids management system that provides aerobic digestion, a system of rotary drum screens and cyclones that removes inerts, trash and sand for collection and disposal to an approved landfill. The facility has an existing 0.499 MGD annual average daily flow (AADF) permitted discharge to a canal to Pablo Creek (Class III waters).

This permit also allows for the expansion of the rated capacity of the discharge from 0.499 MGD annual average daily flow (AADF), to a permitted discharge of 0.640 MGD annual average daily flow. The chlorination disinfection system shall be replaced by an ultraviolet disinfection system consisting of 80 lamps in two vertical array units. Upon notification of completion of the UV disinfection system to the Department, the permitted capacity shall be 0.750 MGD AADF. The point of effluent discharge shall remain the same.

e. Applicant's Effluent Disposal and Reuse Location(s)
Surface Water Discharge:
Receiving Waters: Outfall D001: Pablo Creek, Intracoastal Waterway, Class III waters
Latitude: 30 ° 16 ' 45 "
Longitude: 81 ° 26 ' 15 "

See Attachment A for a map showing the location(s) of the receiving waters and discharge location(s).

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

Outfall Serial Number D001
AADF Flow (MGD): 0.335 MGD
pH Range (Standard Units): 6.0 to 7.4

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.
BOD_5, mg/L	1.82	3.5	5.6
TSS, mg/L	3.51	4.0	7.6
Fecal Coliform, #/100 ml	33	--	244
TRC (for disinfection), mg/L	-	0.5	-
TRC (for dechlorination), mg/L	0.003	0	0.01
TKN, mg/L	4.0		

2. PROPOSED EFFLUENT OR RECLAIMED WATER 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	0.640	--	--	--
Flow, MGD (final)	Maximum	0.750	--	--	--
TKN, mg/L	Maximum	4.0	5.0	6.0	8.0
$CBOD_5$, mg/L	Maximum	10	12.5	15	20
TSS, mg/L	Maximum	20	30	45	60
Fecal Coliform, #/100 ml	Maximum	200	200	400	800
TRC (for disinfection), mg/L	Minimum	--	--	--	0.5
TRC (for dechlorination), mg/L	Maximum	--	--	--	0.01
pH, std. units	Range	6.5 to 8.5			
Dissolved Oxygen mg/L	Report				

The biomonitoring testing was not in the previously issued EPA NPDES permits and has not been required for this permit because this is a minor facility. The DEP has performed fifth year studies and analysis for pesticides and nutrients and satisfactory results were reported. However, the copper and silver parameters exceeded the standards for Class III marine waters as listed . The silver standard was revised in December 1995, and the facility sample was less than the standard, thus in compliance. Since this is marine waters it is not hardness based. Additional sampling for copper is underway and will require a report in one year to evaluate and address the copper issue if levels are beyond the standard. The permittee shall sample on a monthly basis to evaluate the copper levels present in the effluent and the receiving stream.

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

See the table below for the rationale for the Part I.A provisions.

Outfall D001 :

Parameter		Basis for Limit/Monitoring Requirement
Flow	Annual ADF	62-600.400(3)(b) FAC
	3-Month ADF	62-600.400(3)(b) FAC
	Monthly ADF	62-600.400(3)(b) FAC
$CBOD_5$ (WQBEL, *non-ocean discharge*)	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	62-600.740(1)(b)1.c. FAC
	Single Sample Max.	62-600.740(1)(b)1.d. FAC
TKN (WQBEL, *non-ocean discharge*)	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	62-600.740(1)(b)1.c. FAC
	Single Sample Max.	62-600.740(1)(b)1.d. FAC
TSS (*Secondary, TBEL,*	Annual Average	62-600.420(1)(a) & .740(1)(b)1.a. FAC
	Monthly Average	62-600.740(1)(b)1.b. FAC

non-ocean discharge)	Weekly Average	62-600.740(1)(b)1.c. FAC
	Single Sample Max.	62-600.740(1)(b)1.d. FAC
Fecal Coliform (*Basic disinfection*)	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 (*non-WQBEL*)	Minimum and Maximum	62-600.445 FAC or Applicable Water Quality Standard from 62-302.530 FAC
TRC (for disinfection) (*Basic disinfection*)	Minimum	62-600.440(4)(b) FAC
TRC (for dechlorination)	Single Sample Max.	62-600.440(2) FAC & 62-302.530(19) FAC
Acute Whole Effluent Toxicity	Reserve the right to monitor	Rule 62-302.530 FAC
Dissolved Oxygen (*non-WQBEL*)	Monitor and report	62-302.530(31) 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:

(*Include applicable Chapters.*)

Chapter	Effective Date
62-4	02-02-94
62-302	02-27-95
62-550	09-07-94
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

B. FS refers to various portions of the Florida Statutes

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

D. BPJ refers to Best Professional Judgment

See the table below for the rationale for the Part I.B provisions.

Other Limitations and Monitoring Requirements:

Parameter		Basis for Limit/Monitoring Requirement
Flow	Annual ADF	62-600.400(3)(b) FAC
	3-Month ADF	62-600.400(3)(b) FAC
	Monthly ADF	62-600.400(3)(b) FAC
$CBOD_5$ *(Influent Monitoring)*	Monitor & Report	62-601.300(1) FAC
TSS *(Influent Monitoring)*	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

4. RESIDUALS MANAGEMENT

This permit also allows for the construction of a residuals management system know as the Micronair Solids Management system that provides aerobic digestion, a system of rotary drum screens and cyclones that removes inerts, trash and sand for collection and disposal to an approved landfill.

Class of residuals stabilization to be provided: Class B
Proposed method of residuals use or disposal: Landfill is prinmary, land application as back-up.
The residuals are to be disposed by truck to the Trailridge Ridge Landfill in Duval County.
It is important for the permittee to contact the US EPA concerning any sludge requirements of the CFR 503 criteria and under the US EPA sludge only permit program.

It is recommended that the treated residuals have the following parameters analyzed for on a semi-annual basis to verify the metals, nutrient and solids content:

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:

(Include applicable Chapters.)

Chapter	Effective Date
62-640	03-01-91

5. INDUSTRIAL PRETREATMENT REQUIREMENTS

The permittee/facility is not required to develop an industrial pretreatment program. The utility indicates that no categorical industries are identified in the service area.

6. DISCUSSION OF PREVIOUS PERMIT EFFLUENT OR RECLAIMED WATER LIMITATIONS

The current wastewater facility permit DO16-162840 was issued on July 19, 1990 and expired May 31, 1995. The consolidated permit had an expiration date of July 3, 1995. The permittee had submitted a permit renewal to EPA prior to the delegation date of May 1, 1995. The current permit contains the following effluent limits:

For *Surface Water Discharge*:

Parameters	Effluent or Reclaimed Water Limitations				
	Maximum/ Minimum	Annual Average	Monthly Average	Weekly Average	Single Sample
Flow, MGD	Maximum	0.499	--	--	--
$CBOD_5$, mg/L	Maximum	10	12.5	15	20
TSS, mg/L	Maximum	20	30	45	60
Fecal Coliform, #/100 ml	Maximum	200	200	400	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			
TKN, mg/L	Maximum	4.0	5.0	6.0	8.0

7. NEW OR EXPANDED DISCHARGES TO SURFACE WATERS; ANTIDEGRADATION REQUIREMENTS

The applicant has submitted an Antidegradation report in accordance with Rules 62-302.300 and 62-4.242 F.A.C. The report reviews existing uses, State surface water quality standards and considers a public interest test. The public interest test includes a balancing test and an options review. The reports conclude that existing uses will be maintained, that surface water quality standards will not be violated and that the public interest test has been satisfied. The expansion from 0.499 MGD AADF to 0.750 MGD AADF has been approved. Through June 30, 1997, the following reports were submitted for United Water by Camp Dresser, McKee: capacity analysis report, benthic macroinvertibrate community assessment, and a level I WQBEL. The reuse feasibility report was submitted by CH2M Hill.

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

As this is an existing surface water discharger in the major category, the discharge has not and will not adversely affect any threatened or endangered species. The Department does not anticipate adverse impacts on any threatened or endangered species as a result of permit renewal or as a result of the expanded discharge. The DEP reserves the right to require biomonitoring. The DEP will require nutrient monitoring of the discharge as well as stream monitoring at the outfall, D001.

9. DEP CONTACT

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

Jeff Martin, P.E.
Department of Environmental Protection , Northeast District Office
8725 Baymeadows Way , Suite 200 B
Jacksonville, Florida 32256

Telephone No.: (904) 448-4330

10. 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.

11. PROPOSED SCHEDULE FOR PERMIT ISSUANCE

Draft permit to Applicant for reivew.....July 25, 1997

Proposed Public Comment Period ..... Beginning: September 5, 1997
Ending: October 5, 1997

Notice of Agency Action ..... December 15, 1997

Final Department Action..... December 15, 1997

12. 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:

Department of Environmental Protection, Northeast District Office
7825 Baymeadows Way, Suite 200B
Jacksonville, Florida 32256
Attn: Jeff Martin, P.E.

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

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

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

(1) The commenter's name, address and telephone number, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;

(2) A statement of how and when notice of the draft permit was received;

(3) A description of any changes the commenter proposes for the draft permit;

(4) A full explanation of the factual and legal reasons for each proposed change to the draft permit; and

(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 officers 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 San Pablo	PERMIT NUMBER:	FL0024767
MAILING ADDRESS:	1400 Millcoe Road Jacksonville, FL 32225-4442	MONITORING PERIOD From:	To:
		LIMIT: *Final*	REPORT: Monthly
FACILITY:	San Pablo WWTF	CLASS SIZE: Minor	
LOCATION:	*14738 Marshview Drive* Jacksonville, Florida 32250	FACILITY ID: FL0024767	GROUP: Domestic
		GMS ID NO.: *3116P01984*	GMS TEST SITE NO.: 3116X00031
COUNTY:	Duval	DISCHARGE POINT NUMBER: D001	WAFR SITE NO.: 9635
		PLANT SIZE/TREATMENT TYPE: IC	

Parameter		Quantity or Loading			Quality or Concentration				No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
BOD, CARBONACEOUS 5 DAY, 20 C	Sample Measurement										
STORET No. 80082 Y Mon.Site No. EFD-1	Permit Measurement					10.0 ANN AVG		MG/L		Weekly	8-hour Flow Composite
BOD, CARBONACEOUS 5 DAY, 20 C	Sample Measurement										
STORET No. 80082 1 Mon.Site No. EFD-1	Permit Measurement					12.5 MO AVG	20.0 MAX	MG/L		Weekly	8-hour Flow Composite
SOLIDS, TOTAL SUSPENDED	Sample Measurement										
STORET No. 00530 Y Mon.Site No. EFD-1	Permit Measurement					20.0 ANN AVG		MG/L		Weekly	8-hour Flow Composite
SOLIDS, TOTAL SUSPENDED	Sample Measurement										
STORET No. 00530 1 Mon.Site No. EFD-1	Permit Measurement					30.0 MO AVG	60.0 MAX	MG/L		Weekly	8-hour Flow Composite
pH	Sample Measurement										
STORET No. 00400 1 Mon.Site No. EFD-1	Permit Measurement				6.5 MIN		8.5 MAX	S.U.		Continuous	Instrument
Fecal Coliform Bacteria	Sample Measurement										
STORET No. 31616 Y Mon.Site No. EFD-1	Permit Measurement					200 ANN AVG		#/100mL		Weekly	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):

12/18/97

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY NAME: United Water Florida San Pablo WWTF PERMIT NUMBER: FL0024767 DISCHARGE POINT NUMBER: D001 WAFR SITE No.: 9635

Parameter		Quantity or Loading			Quality or Concentration				No. Ex.	Frequency of Analysis	Sample Type
	No. Ex.	Average	Maximum	Units	Minimum	Average	Maximum	Units			
Fecal Coliform Bacteria	Sample Measurement										
STORET No. 31616 1 Mon.Site No. EFD-1	Permit Measurement					Report MO GEO MEAN	800 MAX	#/100mL		Weekly	Grab
CHLORINE, TOTAL RESIDUAL (for dechlorination)	Sample Measurement										
STORET No. 50060 1 Mon.Site No. EFD-1	Permit Measurement						0.01 MAX	MG/L		Daily	Meter/Total
CHLORINE, TOTAL RESIDUAL (for disinfection)	Sample Measurement										
STORET No. 50060 A Mon.Site No. EFA-1	Permit Measurement				0.5 MIN			MG/L		Continuous	Meter/Total
Nitrogen, Total Kjeldahl as N	Sample Measurement										
STORET No. 00625 Y Mon.Site No. EFD-1	Permit Measurement					4.0 ANN AVG		MG/L as N		Weekly	8-hour Flow Composite
Nitrogen, Total Kjeldahl as N	Sample Measurement										
STORET No. 00625 1 Mon.Site No. EFD-1	Permit Measurement					6.0 MO AVG	8.0 MAX	MG/L as N		Weekly	8-hour Flow Composite
Oxygen, Dissolved (DO)	Sample Measurement										
STORET No. 00300 1 Mon.Site No. EFD-1	Permit Measurement				REPORT MIN			MG/L		Daily	Instrument
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	Sample Measurement										
STORET No. 50050 Y Mon.Site No. EFA-1	Permit Measurement	0.640 ANN AVG		MGD						Continuous	Flow Meter
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	Sample Measurement										
STORET No. 50050 1 Mon.Site No. EFA-1	Permit Measurement	Report MO AVG		MGD						Continuous	Flow Meter
BOD, CARBONACEOUS 5 DAY, 20 C	Sample Measurement										
STORET No. 80082 G Mon.Site No. INF-1	Permit Measurement	Report MO AVG		MG/L						Weekly	8-hour Flow Composite
SOLIDS, TOTAL SUSPENDED	Sample Measurement										
STORET No. 00530 G Mon.Site No. INF-1	Permit Measurement	Report MO AVG		MG/L						Weekly	8-hour Flow Composite
COPPER, Total Recoverable	Sample Measurement										
STORET No. 01042 1 Mon.Site No. EFD-1	Permit Measurement					REPORT MO AVG	REPORT MAX	ug/L		Weekly	8-hour Flow Composite

DAILY SAMPLE RESULTS - PART B

Facility ID:
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 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 San Pablo	PERMIT NUMBER:	FL0024767
MAILING ADDRESS:	1400 Millcoe Road Jacksonville, FL 32225-4442	MONITORING PERIOD From:	To:
		LIMIT:	Final
FACILITY:	San Pablo WWTF	REPORT:	QUARTERLY
LOCATION:	14738 Marshview Drive Jacksonville, Florida 32250	CLASS SIZE:	Minor
		FACILITY ID:	FL0024767
COUNTY:	Duval	GMS ID NO.:	3116P01984
		GROUP:	Domestic
		GMS TEST SITE NO.:	3116X00031
		DISCHARGE POINT NUMBER:	D001
		WAFR SITE NO.:	9635
		PLANT SIZE/TREATMENT TYPE:	IC

Parameter		Quantity or Loading			Quality or Concentration				No. Ex.	Frequency of Analysis	Sample Type
		Avg.	Max.	Units	Min./Other	Avg.	Max.	Units			
TOTAL NITROGEN	Sample Measurement										
Storet No. 00600 1 Mon. Site No. EFD-1	Permit Requirement						Report	mg/L		Quarterly	8 hour flow proportioned composite
ORGANIC NITROGEN	Sample Measurement										
Storet No. 00605 1 Mon. Site No. EFD-1	Permit Requirement						Report	mg/L		Quarterly	8 hour flow proportioned composite
NITRITE + NITRATE NITROGEN	Sample Measurement										
Storet No. 00630 1 Mon. Site No. EFD-1	Permit Requirement						Report	mg/L		Quarterly	8 hour flow proportioned composite
TOTAL AMMONIA	Sample Measurement										
Storet No. 00610 1 Mon. Site No. EFD-1	Permit Requirement						Report	mg/L		Quarterly	8 hour flow proportioned composite
TOTAL KJELDAHL NITROGEN (TKN)	Sample Measurement										
Storet No. 00625 1 Mon. Site No. EFD-1	Permit Requirement						Report	mg/L		Quarterly	8 hour flow proportioned composite
TOTAL PHOSPHOROUS	Sample Measurement										
Storet No. 00665 1 Mon. Site No. EFD-1	Permit Requirement						Report	mg/L		Quarterly	8 hour flow proportioned composite
ORTHO PHOSPHOROUS	Sample Measurement										
Storet No. 00671 1 Mon. Site No. EFD-1	Permit Requirement						Report	mg/L		Quarterly	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	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO.	DATE(YY/MM/DD)

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

12/12/97

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A QUARTERLY

PART A Continued

FACILITY NAME: United Water Florida San Pablo WWTF FACILITY ID: FL0024767 STORET STATION: 27010118 DISCHARGE POINT #: D001 WAFR Site No. 35

Please read instructions before completing this form.

Parameter		Quantity or Loading			Quality or Concentration				No. Ex.	Frequency of Analysis	Sample Type
		Avg.	Max.	Units	Min./Other	Avg.	Max.	Units			
$CBOD_5$	Sample Measurement										
Storet No. 80082 5 Mon. Site No. SWU-1	Permit Requirement						REPORT	mg/L		Quarterly	Grab
ORGANIC NITROGEN	Sample Measurement										
Storet No. 00605 5 Mon. Site No. SWU-1	Permit Requirement						REPORT	mg/L		Quarterly	Grab
NITRITE + NITRATE NITROGEN	Sample Measurement										
Storet No. 00630 5 Mon. Site No. SWU-1	Permit Requirement						REPORT	mg/L		Quarterly	Grab
TOTAL AMMONIA	Sample Measurement										
Storet No. 00610 5 Mon. Site No. SWU-1	Permit Requirement						REPORT	mg/L		Quarterly	Grab
TOTAL KJELDAHL NITROGEN (TKN)	Sample Measurement										
Storet No. 00625 5 Mon. Site No. SWU-1	Permit Requirement						REPORT	mg/L		Quarterly	Grab
Chlorophyll A	Sample Measurement										
Storet No. 32230 5 Mon. Site No. SWU-1	Permit Requirement						REPORT	mg/L		Quarterly	Grab
VELOCITY	Sample Measurement										
Storet No. 46570 5 Mon. Site No. SWU-1	Permit Requirement					REPORT		FT/S		Quarterly	Grab
TOTAL PHOSPHOROUS	Sample Measurement										
Storet No. 00665 5 Mon. Site No. SWU-1	Permit Requirement						REPORT	mg/L		Quarterly	Grab
ORTHO PHOSPHOROUS	Sample Measurement										
Storet No. 00674 5 Mon. Site No. SWU-1	Permit Requirement						REPORT	mg/L		Quarterly	Grab

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A QUARTERLY

PART A continued

FACILITY NAME: United Water Florida San Pablo WWTF FACILITY ID: FL0024767 STORET STATION: 27010118 DISCHARGE POINT #: D001 WAFR Site No.: 9635

Please read instructions before completing this form.

Parameter		Quantity or Loading			Quality or Concentration				No. Ex.	Frequency of Analysis	Sample Type
		Avg.	Max.	Units	Min./Other	Avg.	Max.	Units			
Dissolved Oxygen (mid depth)	Sample Measurement										
Storet No. 00300 5 Mon. Site No. SWU-1	Permit Requirement				REPORT			mg/L		Quarterly	Grab
Temperature o C (mid depth)	Sample Measurement										
Storet No. 00010 5 Mon. Site No. SWU-1	Permit Requirement						REPORT	Std. units		Quarterly	Grab
SALINITY	Sample Measurement										
Storet No. 00480 5 Mon. Site No. SWU-1	Permit Requirement						REPORT	Degrees C		Quarterly	Grab
TIDE STAGE	Sample Measurement										
Storet No. 00067 5 Mon. Site No. SWU-1	Permit Requirement				REPORT			Degrees C		Quarterly	Grab
pH	Sample Measurement										
Storet No. 00100 5 Mon. Site No. SWU-1	Permit Requirement						REPORT	Degrees C		Quarterly	Grab
Conductivity	Sample Measurement										
Storet No. 82561 5 Mon. Site No. SWU-1	Permit Requirement						REPORT	umohms		Quarterly	Grab

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

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A QUARTERLY

PART A Continued

FACILITY NAME: United Water Florida WWTF FACILITY ID: FL0024767 STORET STATION: 27010117 DISCHARGE POINT #: D001 WAFR Site No.: 9635

Please read instructions before completing this form.

Parameter		Quantity or Loading			Quality or Concentration				No. Ex.	Frequency of Analysis	Sample Type
		Avg.	Max.	Units	Min./Other	Avg.	Max.	Units			
$CBOD_5$	Sample Measurement										
Storet No. 80082 6 Mon. Site No. SWD-1	Permit Requirement						REPORT	mg/L		Quarterly	Grab
ORGANIC NITROGEN	Sample Measurement										
Storet No. 00605 6 Mon. Site No. SWD-1	Permit Requirement						REPORT	mg/L		Quarterly	Grab
NITRITE + NITRATE NITROGEN	Sample Measurement										
Storet No. 00630 6 Mon. Site No. SWD-1	Permit Requirement						REPORT	mg/L		Quarterly	Grab
TOTAL AMMONIA	Sample Measurement										
Storet No. 00610 6 Mon. Site No. SWD-1	Permit Requirement						REPORT	mg/L		Quarterly	Grab
TOTAL KJELDAHL NITROGEN (TKN)	Sample Measurement										
Storet No. 00625 6 Mon. Site No. SWD-1	Permit Requirement						REPORT	mg/L		Quarterly	Grab
Chlorophyll A	Sample Measurement										
Storet No. 32230 6 Mon. Site No. SWD-1	Permit Requirement						REPORT	mg/L		Quarterly	Grab
VELOCITY	Sample Measurement										
Storet No. 46570 6 Mon. Site No. SWD-1	Permit Requirement					REPORT		FT/S		Quarterly	Grab
TOTAL PHOSPHOROUS	Sample Measurement										
Storet No. 00665 6 Mon. Site No. SWD-1	Permit Requirement						REPORT	mg/L		Quarterly	Grab
ORTHO PHOSPHOROUS	Sample Measurement										
Storet No. 00674 6 Mon. Site No. SWD-1	Permit Requirement						REPORT	mg/L		Quarterly	Grab

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A QUARTERLY

PART A continued

FACILITY NAME:United Water Florida San Pablo WWTF FACILITY ID: FL0024767 STORET STATION: 27010117 DISCHARGE POINT #: D001 WAFR Site No.: 9635

Please read instructions before completing this form.

Parameter		Quantity or Loading			Quality or Concentration				No. Ex.	Frequency of Analysis	Sample Type
		Avg.	Max.	Units	Min./Other	Avg.	Max.	Units			
Dissolved Oxygen (mid depth)	Sample Measurement										
Storet No. 00300 6 Mon. Site No. SWD-1	Permit Requirement				REPORT			mg/L		Quarterly	Grab
TEMPERATURE o C (mid depth)	Sample Measurement										
Storet No. 00010 6 Mon. Site No. SWD-1	Permit Requirement						REPORT	Std. units		Quarterly	Grab
SALINITY	Sample Measurement										
Storet No. 00480 5 Mon. Site No. SWU-1	Permit Requirement						REPORT	Degrees C		Quarterly	Grab
TIDE STAGE	Sample Measurement										
Storet No. 00067 5 Mon. Site No. SWU-1	Permit Requirement				REPORT			Degrees C		Quarterly	Grab
pH	Sample Measurement										
Storet No. 00400 6 Mon. Site No. SWD-1	Permit Requirement						REPORT	Degrees C		Quarterly	Grab
Conductivity	Sample Measurement										
Storet No. 82561 6 Mon. Site No. SWD-1	Permit Requirement						REPORT	umohms		Quarterly	Grab

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

C00D107

cc Gary Todd

Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

RECEIVED
NOV 29 1999
UNITED WATER FLORIDA

NOTICE OF PERMIT ISSUANCE

CERTIFIED MAIL - RETURN RECEIPT

Mr. Gary R. Moseley, VP-General Manager
United Water Florida
1400 Millcoe Road
Jacksonville, Florida 32225

Dear Mr. Moseley:

St. Johns County - Potable Water
Roberts Road Water Main
St. Johns North WTP

Enclosed is permit 0080394-013-DS, dated November 23, 1999, to construct new water distribution piping, issued pursuant to Section(s) 403.087, Florida Statutes (F.S.).

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) at the Department's Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station #35, 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, 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.

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 l4 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 l20.57, 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, Florida Administrator Code (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-l03.070, 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 l20.68, 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, 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 the Final Order is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

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

JMO:SMT:BRR:MJI
Permitting File

Copies furnished to:
Mr. Gordon E. Grimes, P.E.
St. Johns County Department of Health

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on Nov. 24, 1999 to the listed persons.

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 11/24/99 Date

Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

PERMITTEE:

Mr. Gary R. Moseley, VP–General Manager
United Water Florida
1400 Millcoe Road
Jacksonville, Florida 32225

I.D. Number: 2554345
Permit/Cert Number: 0080394-013-DS
Date of Issue: November 23, 1999
Expiration Date: November 23, 2001
County: St. Johns
Sec/Town/Rge: 17/5S/27E
Lat/Long: 30° 05' 30" N; 81° 36' 25" W
Project: Roberts Road Water Main
Plant: St. Johns North WTP

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapter 62-555 (formerly 17-22). 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:

Description: The extension of a 16 inch water main approximately 7,500 feet to serve the new Bartram Trails High School, Bartram Trails Plantation Subdivision, and any future developments.

Location: Along Roberts Road south to Greenbriar Road, in St. Johns County, Florida.

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

Printed on recycled paper.

PERMITTEE:

Mr. Gary R. Moseley
United Water Florida

Permit/Cert Number: 0080394-013-DS
Date of Issue: November 23, 1999
Expiration Date: November 23, 2001
Project: Roberts Road Water Main

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. 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 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 Permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

6. Permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by Permittee to achieve compliance with the conditions of this permit, and 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.

GENERAL CONDITIONS:

7. 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 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, Permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, 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. 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, 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 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.

PERMITTEE:

Mr. Gary R. Moseley
United Water Florida

Permit/Cert Number: 0080394-013-DS
Date of Issue: November 23, 1999
Expiration Date: November 23, 2001
Project: Roberts Road Water Main

GENERAL CONDITIONS:

10. Permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, 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.

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. 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:

    ( ) Determination of Best Available Control Technology (BACT)

    ( ) Determination of Prevention of Significant Deterioration (PSD)

    ( ) Certification of compliance with state Water Quality Standards (Section 401, PL 92-500)

    ( ) Compliance with New Source Performance Standards

14. Permittee shall comply with the following:

    a. Upon request, 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. 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.

GENERAL CONDITIONS:

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, Permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If 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. Gary R. Moseley
United Water Florida

Permit/Cert Number: 0080394-013-DS
Date of Issue: November 23, 1999
Expiration Date: November 23, 2001
Project: Roberts Road Water Main

SPECIFIC CONDITIONS:

1. This approval for construction is given with the understanding that, upon the installation of such works, the operation shall be placed under the care of a competent person, whose qualifications are approved by the Department. Operation of the facility shall be carried out according to best accepted practice and in accordance with the requirements of the rules and regulations of the Department. Permittee shall ensure, not only the provision of continuing essential funds for proper operation and maintenance of this project, but also the funds necessary to comply with all regulatory, monitoring, and statutory requirements.

2. Water supply facilities, including mains, shall be installed in accordance with the latest applicable AWWA Standards and Department rules and regulations. The system shall be pressure and leak tested in accordance with AWWA Standard C600 and disinfected in accordance with AWWA Standard C651, as well as, in accordance with Rule 62-555.340, F.A.C.

3. Permittee shall maintain a minimum vertical clearance of 18 inches and a minimum horizontal separation of 10 feet between water mains and sanitary sewers, storm sewers, etc. unless approved otherwise by the Department, as provided in Rule 62-555.314, F.A.C., and Section 8.6 of *Recommended Standards for Water Works*, a manual adopted by reference in Rule 62-555.330(3), F.A.C.

4. Prior to placing this project into service, Permittee shall submit, at a minimum, all of the following to the Department for evaluation and approval for operation, as provided in Rules 62-555.340 and 62-555.345, F.A.C.:

   a. the engineer's *Certification of Construction Completion and Request for a Letter of Clearance to Place a Public Drinking Water Facility into Service* {DEP Form 62-555.900(9)};

   b. certified record drawings, if there are any changes noted for the permitted project.

   c. two consecutive days of satisfactory bacteriological analytical results.

   In order to facilitate the issuance of a letter of clearance, the Department requests that all of the above information be submitted as one package.

PERMITTEE:

Mr. Gary R. Moseley
United Water Florida

Permit/Cert Number: 0080394-013-DS
Date of Issue: November 23, 1999
Expiration Date: November 23, 2001
Project: Roberts Road Water Main

SPECIFIC CONDITIONS:

5. All PVC piping shall bear the National Sanitation Foundation (NSF) International seal of approval for potable water pipe.

6. All products, including paints, which shall come into contact with potable water, either directly or indirectly, shall conform with American National Standards Institute (ANSI), National Sanitation Foundation (NSF) International, and American Water Works Association (AWWA) Standards, as provided in Rule 62-555.320(4), F.A.C.

7. Permittee shall ensure that there shall be no cross-connection with any non-potable water source in accordance with Rule 62-555.360, F.A.C.

8. Permittee shall install backflow prevention devices in accordance with Rule 62-555.360, F.A.C.; *Recommended Practice for Backflow Prevention and Cross-Connection Control (M-14),* a manual adopted by reference in Rule 62-555.330(6), F.A.C.; and *Cross Connections and Backflow Prevention,* a manual adopted by reference in Rule 62-555.330(7), F.A.C.

9. Permittee shall follow the guidelines of Chapters 62-550, 62-555, and 62-560, F.A.C., regarding public drinking water system standards, monitoring, reporting, permitting, construction, and operation.

10. This project shall be completed prior to the expiration date of this permit. Otherwise, Permittee shall submit a written request to the Department at least thirty days prior to the expiration date requesting an extension of the permit or Permittee must reapply for a new permit.

11. The water treatment facility to which this distribution system will be connected shall have the capacity and water quality as required by the standards set forth in Chapters 62-550, 62-555, and 62-560, F.A.C. for public water systems.

PERMITTEE:

Mr. Gary R. Moseley
United Water Florida

Permit/Cert Number: 0080394-013-DS
Date of Issue: November 23, 1999
Expiration Date: November 23, 2001
Project: Roberts Road Water Main

12. All future customers to be connected to this line must obtain a general permit using DEP Form 62-555.900(7), F.A.C., "Notification for Use of the General Permit for Construction of an Extension to a Public Drinking Water Distribution System" before beginning construction to connect.

Issued this 24TH day of NOVEMBER 1999

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

for Michael J. Fitzsimmons
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, receipt of which is hereby acknowledged.

Clerk

11/24/99
Date

REMINDER TO CLEAR SYSTEM BEFORE

PLACING IT INTO SERVICE

After construction of the drinking water system and prior to placing the water system into use, you must submit the following items to the Department for approval and obtain a clearance letter from this office:

a. **Certified record drawings of the system signed and sealed by engineer of record, if there are deviations from the original plans;**

b. **Engineer's Certification of Completion of Construction and Request for Letter of Release, submitted on DEP form 62-555.900(9) signed and sealed by the engineer of record and the utility or the person accepting responsibility for the maintenance of the water system;**

c. **Satisfactory analysis results from bacteriological samples collected on two consecutive days, immediately downstream of the water plants and at least one sample from the beginning and end of each new main or branch line. In case of long water mains one sample shall be collected every 1000 feet along the main. Note that bacteriological sample results shall have been collected within 30 days of request for clearance letter;**

d. **Any additional chemical analyses necessary for the clearance of the system;**

e. **Any additional information requested in the specific conditions of the permit, if applicable.**

Please note, that failure to provide the required information and obtain a clearance letter from the Department before placing the system into service, will result in enforcement action which will include civil penalties.

If you have any questions please call the Potable Water Section at (904) 448-4330. Thank you for your cooperation in this matter.

COOP102

C99X004
Roberts Rd Sewer F

Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

RECEIVED
NOV 22 1999
UNITED WATER FLORIDA

November 16, 1999

CERTIFIED -- RETURN RECEIPT

Gary R. Moseley
Vice President
United Water Florida
1400 Millcoe Road
Jacksonville, Florida 32225

NOTICE OF PERMIT ISSUANCE

Dear Mr. Moseley:

St. Johns County - Domestic Waste
Blacks Ford WWTF
Roberts Road Force Main

Enclosed is Permit Number 143628-018-DWC to construct the subject sewage collection/transmission system, 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.

The Department will issue the permit with the attached conditions unless a timely petition for an administrative hearing is filed under sections 120.569 and 120.57 of the Florida Statutes before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

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

Petitions by the applicant or any of the parties listed below must be filed within fourteen days of receipt of this written notice. Petitions filed by any persons other than those entitled to

written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the public notice or receipt of the written notice, whichever occurs first.

Under section 120.60(3) of the Florida Statutes, however, any person who has asked the Department for notice of agency action may file a petition within fourteen days of receipt of such notice, regardless of the date of publication.

The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition or request for mediation 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 (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

a) The name, address, and telephone number of each petitioner; the name, address, and telephone number of the petitioner's representative, if any; each the Department case or identification number and the county in which the subject matter or activity is located;
b) A statement of when and how each petitioner received notice of the Department action;
c) A statement of how each petitioner's substantial interests are affected by the Department action;
d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
e) A statement of facts that the petitioner contends warrant reversal or modification of the Department action;
f) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief; and
g) Demand for relief (sought by the petitioner, stating precisely the action that the petitioner wants the Department to take).

A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise contain the same information as set forth above, as required by rule 28-106.301.

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

In addition to requesting an administrative hearing, any petitioner may elect to pursue mediation. The election may be accomplished by filing with the Department a mediation agreement with all parties to the proceeding (i.e., the applicant, the Department, and any person who has filed a timely and sufficient petition for a hearing). The agreement must contain all the information

required by rule 28-106.404. The agreement must be received by the clerk in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, within ten days after the deadline for filing a petition, as set forth above. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement.

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

Executed in Jacksonville, Florida.

Sincerely,

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

BFW
KP
JMO/:kjp

Enclosure

cc: St. Johns County H.D.
Gordon Grimes, P.E.

CERTIFICATE OF SERVICE

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 11/19, 1999 to the listed persons.

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 11/19/99
Date

Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

PERMITTEE:
Gary R. Moseley
Vice President
United Water Florida
1400 Millcoe Road
Jacksonville, Florida 32225

I.D. Number: FL0174441
Permit/Cert Number: 143628-018-DWC
Date of Issue: November 16, 1999
Date of Expiration: November 15, 2004
Lat/Long:
Section/Township/Range:
Project: Roberts Road Force Main

This permit is issued under the provisions of Chapter 403, Florida Statutes (FS), and Florida Administrative Code (FAC) Rule(s) 62-4, 62-604, 62-301, 62-302, 62-600, 62-601, 62-610, 62-640, 62-650, 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 construction of a sewage collection/transmission system consisting of 7065 linear feet of 12-inch PVC force main piping and required appurtenances to serve 147 single family homes and the Bartram Trails High School. The average daily flow associated with this project is 80,700 gpd. This sewage collection/ transmission system will connect to the Blacks Ford WWTF.

The project will be located in the vicinity of Julington Creek, St. Johns County.

In accordance with the application received November 9, 1999.

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 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 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 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.

PERMITTEE:
Gary R. Moseley
Vice President
United Water Florida
1400 Millcoe Road
Jacksonville, Florida 32225

I.D. Number: FL0174441
Permit/Cert Number: 143628-018-DWC
Date of Issue: November 16, 1999
Date of Expiration: November 15, 2004
Project: Roberts Road Force Main

SPECIFIC CONDITIONS:

1. A collection/transmission system addressed under Section 62-604.400, FAC, shall not be placed into operation without prior approval of the Department. A "Certificate of Completion of Construction", DEP Form 62-604.300(7)(b), shall be submitted for Department approval along with the record drawings by an engineer.

2. The collection/transmission system shall be operated and maintained so as to provide uninterrupted service as required by Section 62-604.400, FAC.

3. All equipment necessary for the collection/transmission of domestic wastewater, including equipment provided pursuant to Rule 62-604.400(2), FAC, shall be maintained so as to function as intended. In the event odor, noise or lighting adversely affect neighboring developed areas at levels prohibited by Rule 62-604.400(2)(c), FAC, corrective action (which may include modifications of the collection/transmission system) shall be taken by the Permittee. Other corrective action may be required to ensure compliance with rules of the Department.

4. Copies of record drawings pursuant to Rule 62-604.600(2)(d), FAC, and the approved operation and maintenance manual pursuant to Rule 62-604.600(2)(f), FAC, shall be kept available at a site acceptable to the Department for use by operation and maintenance personnel and for inspection by Department personnel.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

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

FILING AND ACKNOWLEDGEMENT
... on this date, pursuant to §120.52 ... Florida
... with the designated Department Clerk,
... which is hereby acknowledged.
11/19/99
Clerk Date

Jeb Bush
Governor

Department of Environmental Protection

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

RECEIVED
APR - 7 2000
UNITED WATER FLORIDA

Secretary

NOTICE OF PERMIT ISSUANCE

April 5, 2000

CERTIFIED MAIL-RETURN RECEIPT

In the Matter of an Application
for Permit by:

Mr. Gary Moseley, Vice President
United Water Florida
1400 Millcoe Road
Jacksonville, Florida 32225

DEP File No. FL0026751
Duval County
Royal Lakes WWTF

Enclosed is renewal Permit Number FL0026751 to operate an existing 3.25 mgd Annual Average Daily Flow (AADF) WWTF. The discharge to the St. Johns River (Class III fresh waters) is located approximately at latitude 30° 13' 38" N, longitude 81° 37' 28" W.

The Department has permitting jurisdiction under sections 62-4, 62-302, 62-600, 62-601, 62-620, 62-640, 62-650, and 62-699 of the Florida Administrative Code and section 403 of the Florida Statutes. The project is not exempt from permitting procedures. The Department has determined that a wastewater permit is required.

The Department's proposed agency action shall become final unless a timely petition for an administrative hearing is filed under sections 120.569 and 120.57 of the Florida Statutes before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

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

Petitions by the applicant or any of the parties listed below must be filed within fourteen days of receipt of this written notice. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the notice or within fourteen days of receipt of the written notice, whichever occurs first.

Under section 120.60(3) of the Florida Statutes, however, any person who has asked the Department for notice of agency action may file a petition within fourteen days of receipt of such notice, regardless of the date of publication.

The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition or request for mediation 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. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

(a) The name, address, and telephone number of each petitioner; the Department 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 action;
(c) A statement of how each petitioner's substantial interests are affected by the Department 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 action;
(f) A statement of which rules or statutes the petitioner contends require reversal or modification of the Department action; and
(g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take.

A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by rule 28-106.301.

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

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

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

of the dispute, the Department shall notify all parties in writing that the administrative hearing processes under sections 120.569 and 120.57 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.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

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

JMO:IMC

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 4/6/00 to the listed persons.

Copies furnished to:
Roosevelt Childress – EPA, Region IV
City of Jacksonville, RESD, AWQD
Elsa Potts, FDEP, Tallahassee

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.
Roxanne Smith 4/6/00
Clerk Date

Jeb Bush
Governor

Department of Environmental Protection

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

David B. Struhs
Secretary

STATE OF FLORIDA
DOMESTIC WASTEWATER FACILITY PERMIT

PERMITTEE:
United Water Florida

RESPONSIBLE AUTHORITY:
Gary R. Moseley
Vice President
1400 Millcoe Road
Jacksonville, FL 32225
(904) 721-4600

PERMIT NUMBER: FL0026751 (Major)
ISSUANCE DATE: April 5, 2000
EXPIRATION DATE: April 4, 2005
FACILITY I.D. NO.: FL0026751 (3116P05360)
PROJECT NO.: 001

FACILITY:

Royal Lakes WWTF
5509 Western Way
Jacksonville, FL 32256
Duval County
Latitude: 30° 12' 42" N Longitude: 81° 33' 46" 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 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:

An existing 3.25 mgd annual average daily flow (AADF) permitted capacity conventional activated sludge WWTF consisting of the following process units:

- A mechanically-cleaned influent bar rack that is two feet wide.
- Two aeration tanks with a total volume of approximately 1.179 million gallons.
- Two secondary clarifiers with a total surface area of 5,660 square feet and a total volume of approximately 0.48 million gallons.
- One chlorine contact chamber with a total volume of approximately 0.043 million gallons to be used for emergency situations.
- Ultraviolet disinfection with associated appurtenances.
- A waste activated sludge holding tank with a volume of approximately 0.087 million gallons.
- A gravity sludge thickener with a volume of approximately 0.085 million gallons and a surface area of 1,000 square feet.
- A thickened sludge digester tank with a volume of approximately 0.175 million gallons.
- A digested sludge holding tank in Plant 1with a volume of approximately 0.328 million gallons.
- Two 18 hp effluent pumps for pumping to the St. Johns River.

Digested residuals are hauled for land application.

PERMITTEE:	United Water Florida	PERMIT NUMBER:	FL0026751
		ISSUE DATE:	April 5, 2000
FACILITY:	Royal Lakes WWTF	EXPIRATION DATE:	April 4, 2005
		PROJECT NO.:	001

EFFLUENT DISPOSAL:

Surface Water Discharge: An existing 3.25 mgd AADF permitted discharge to St. Johns River (Class III fresh waters) at Discharge Location (D001). The outfall is approximately 880 feet in length and discharges at a depth of approximately 15 feet. The point of discharge is located approximately at latitude 30° 13' 38" N, longitude 81° 37' 28" W.

A mixing zone has been established for the discharge for total recoverable silver and un-ionized ammonia. The mixing zone for each parameter is an area with a circular shape centered at the point of discharge. The size of the mixing zone is the same for both pollutants. The mixing zone has a radius of 2.03 meters and an area of 12.9 square meters.

IN ACCORDANCE WITH: The limitations, monitoring requirements and other conditions set forth in Pages 1 through 23 of this permit.

PJ ITTEE: United Water Florida

FACILITY: Royal Lakes WWTF

PERMIT NUMBER: FL0026751
ISSUE DATE: April 5, 2000
EXPIRATION DATE: April 4, 2005
PROJECT NO.: 001

I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Surface Water Discharges – Final Limits

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 St. Johns River. Such discharge shall be limited and monitored by the permittee as specified below:

			Effluent Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow, in conduit or thru treatment plant	mgd	Maximum	3.25	Report	-	-	Continuous	Recording flow meters and totalizers	EFD-1	See Cond. I.A.4
BOD, Carbonaceous 5 day, 20C	mg/L	Maximum	10.0	12.5	15.0	20.0	Weekly	16-hour flow proportioned composite	EFD-1	
Solids, Total Suspended	mg/L	Maximum	10.0	12.5	15.0	20.0	Weekly	16-hour flow proportioned composite	EFD-1	
Nitrogen, Ammonia, Total (as N)	mg/L as N	Maximum	-	-	-	Report	Weekly	Grab	EFD-1	See Cond. I.A.8
Un-ionized Ammonia	mg/Las NH_3	Maximum	-	-	-	0.04	Weekly	Calculated	EFD-1	See Cond. I.A.8
Silver, Total Recoverable	µg/L	Maximum	-	-	-	0.14	Monthly	16-hour flow proportioned composite	EFD-1	
pH	s.u.	Range	-	-	-	6.0 to 8.5	Continuous	Meter	EFD-1	See Cond. I.A.3
Coliform, Fecal	See Permit Condition I.A.5.						Weekly	Grab	EFD-1	
Total Kjeldahl Nitrogen	mg/L as N	Maximum	-	-	-	Report	Monthly	16-hour flow proportioned composite	EFD-1	

D001 continued:

			Effluent Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Organic Nitrogen	mg/L as N	Maximum	-	-	-	Report	Monthly	16-hour flow proportioned composite	EFD-1	
Nitrate + Nitrite	mg/L as N	Maximum	-	-	-	Report	Monthly	16-hour flow proportioned composite	EFD-1	
Total Nitrogen, as N	mg/L as N	Maximum	-	-	-	Report	Monthly	16-hour flow proportioned composite	EFD-1	
Total Phosphorous, as P	mg/L	Maximum	-	-	-	Report	Monthly	16-hour flow proportioned composite	EFD-1	
Orthophosphorous	mg/L	Maximum	-	-	-	Report	Monthly	Grab – Filtered	EFD-1	
Acute Whole Effluent Toxicity	See Permit Condition I.A.7									
Receiving Stream Monitoring	See Permit Condition I.A.9									

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
EFD-1	Final effluent, after dechlorination
EFA-1	Post-disinfection, prior to dechlorination

3. Hourly measurement of pH and total residual chlorine for disinfection during the period of required operator attendance may be substituted for continuous measurement. *[Chapter 62-601, Figure 2, Footnotes 1 and 2, 12-24-96]*

4. Recording flow meters and totalizers shall be utilized to measure flow and calibrated at least annually. *[62-601.200(17) and .500(6), 12-24-96]*

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 (the 90th percentile value) 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. Note: To report the 90th percentile value, list the fecal coliform values obtained during the month in ascending order. Report the value of the sample that corresponds to the 90th percentile (multiply the number of samples by 0.9). For example, for 30 samples, report the corresponding fecal coliform number for the 27th value of ascending order. *[62-600.440(4)(c), 12-24-96]*

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), 12-24-96]*

7. The permittee shall initiate the series of tests described below beginning within 6 months of 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 Acute Toxicity of Effluents to Freshwater and Marine Organisms, EPA/600/4-90/027F, or the most current edition. The control water and dilution water used will be moderately hard water as described in EPA/600/4-90/027F, Table 6, 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 toxicity tests shall be submitted with the discharge monitoring report (DMR). Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use.

   a. 1. The permittee shall conduct 96-hour acute static renewal toxicity tests using the daphnid, **Ceriodaphnia dubia**, and the bannerfin shiner, **Cyprinella leedsi**. All tests will be conducted on four separate grab samples collected at evenly-spaced (6-hr) 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.

   2. If control mortality exceeds 10% for either species in any test, and the mortality in the effluent sample exceeds 50% in the same test, the test 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.

b. 1. The toxicity tests specified above shall be conducted once every six months for the duration of the permit. These tests are referred to as "routine" tests.

2. Results from "routine" tests shall be reported according to EPA/600/4-90/027F, Section 12, Report Preparation (or the most current edition), and shall be submitted to:

Florida Department of Environmental Protection
Northeast District Office
7825 Baymeadows Way Suite B200
Jacksonville, Florida 32256-7590

c. 1. All "routine" tests shall be conducted using a control (0% effluent) and a test concentration of 100% final effluent.

2. Mortalities of greater than 50% in a 100% effluent in any "routine" sample or an LC50 of less than 100% effluent in any additional definitive test will constitute a violation of these permit conditions, and Rule 62-302.200(1), Rule 62-302.500(1)(a)4. and Rule 62-4.244(3)(a), F. A. C.

d. 1. If unacceptable acute toxicity (greater than 20% mortality of either test species in any grab sample test) is found in a "routine" test, the permittee shall conduct three additional tests on each species indicating unacceptable toxicity. The first additional test will include four grab samples taken as described in a.1. and run as four separate definitive analyses. The second and third additional definitive tests will be run on a single grab sample collected on the day and time when the greatest toxicity was identified in the "routine" test. Results for each additional test will include the determination of LC50 values with 95% confidence limits.

2. The first 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. 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 and two dilutions below the target toxicity and a control (0% effluent) are run.

3. For each additional test, the sample collection requirements and the test acceptability criteria specified in section a. 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 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.

4. Results from additional tests, required due to unacceptable acute toxicity in the "routine" tests, shall be submitted in a single report prepared according to EPA/600/4-90/027F, Section 12, or the most current edition and submitted within 45 days of completion of the third additional, valid test. Upon completion of the third additional test, the permittee will meet with the Department within 30 days of the report submittal to identify corrective actions necessary to remedy the unacceptable acute toxicity.

8. The pH and temperature of the effluent shall be taken at the time of total ammonia sample collection. The un-ionized ammonia fraction shall be calculated based on the total ammonia, pH, and temperature.

9. The Permittee shall initiate regular monitoring of the segment of the St. Johns River near the outfall, D001, for maintaining data on the impact of the discharge to the water quality of the surface water body. The information provided is part of the on-going Water Quality Based Effluent Limitation (WQBEL) study for the St. Johns River. If a new WQBEL is developed for this facility which requires the effluent limits to be revised, the permittee shall be informed in writing by a notice of permit revision and afforded the right to appeal. Monitoring shall be on a semi-annual basis and shall coincide with the nutrient monitoring of the facility effluent discharge as described in I.A.1 above.

The monitoring sites are described as follows:

STORET SITE	LOCATION
SWU-1 (20030539)	East bank of St. Johns River, 200 feet north of outfall, 800 feet from the shoreline
SWD-1 (20030541)	East bank of St. Johns River, north of Christopher Creek, 1,200 feet from the shoreline

The permittee shall coordinate the specific site locations with the DEP Northeast District Office. The parameters to be measured shall include the following:

total recoverable silver, dissolved oxygen, pH, temperature, conductivity, salinity, chloride, $CBOD_5$, total ammonia, total Kjeldahl nitrogen, nitrite+nitrate, organic nitrogen, total phosphorous, ortho-phosphorus, chlorophyll a + phaetophytin (Standard Methods 10200G(Mod.)), algal growth potential (EPA 600-19-78-018(Mod.)), total taxa (Standard Methods 1002F.1 and 1002F.2), and tide stage

Metered parameters shall be taken at the surface, mid-depth, and bottom. Grab samples shall be taken at mid-depth at the specified locations. Orthophosphorous samples shall be filtered immediately after collection. Total recoverable silver shall be analyzed according to the condition I.B.4 below. The samples shall be taken on the same day as an effluent sampling event, as defined in I.A.1 above. The results for each in-stream sampling shall be summarized in a report. The reports shall be received at the Jacksonville DEP domestic wastewater section by the following dates each year for the duration of this permit:

First semi-annual report: no later than July 28
Second semi-annual report: no later than January 28 of the following year

[62-4.240(3)(c), 4-30-95]

10. The Department reserves the right to reopen this permit to revise effluent limits based on a water-quality based effluent limitation study. This may include revising the mixing zones for total recoverable silver and un-ionized ammonia. Following compilation of one year of data for silver and/or un-ionized ammonia, the permittee may request by minor revision to the permit, reduction of sampling for either of these parameters.

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:

			Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
BOD, Carbonaceous 5 day, 20C	mg/L	Report	-	-	-	-	Weekly	16-hour flow proportioned composite	INF-1	See Cond. I.B.3
Solids, Total Suspended	mg/L	Report	-	-	-	-	Weekly	16-hour flow proportioned composite	INF-1	See Cond. 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, prior to biological treatment

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), 12-24-96]*

4. 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)
$CBOD_5$	Standard Methods 5210B	2.0 (mg/L)	2.0 (mg/L)
TSS	160.2	4.0 (mg/L)	4.0 (mg/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)
Total Recoverable Silver	272.2	0.10 (µg/L)	0.50 (µg/L)

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:

a. Results greater than or equal to the PQL shall be reported as the measured quantity.

b. 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.

c. 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.

[62-620.610(18), 12-24-96]

5. The permittee shall provide safe access points for obtaining representative influent, reclaimed water, and effluent samples which are required by this permit. *[62-601.500(5), 12-24-96]*

6. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department on a monthly basis Discharge Monitoring Report(s) (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 Management Section, Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

[62-620.610(18), 12-24-96][62-601.300(1),(2), and (3), 12-24-96]

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 B200
Jacksonville, Florida 32256-7590

Phone Number - (904) 448-4330
FAX Number - (904) 448-4366
All FAX copies shall be followed by original copies.

II. RESIDUALS MANAGEMENT REQUIREMENTS

1. The method of residuals use or disposal by this facility is land application or disposal in a Class I or II solid waste landfill.

2. The permittee shall be responsible for proper treatment, management, use, and land application or disposal of its residuals. *[62-640.300(5), 3-30-98]*

3. The permittee will not be held responsible for violations resulting from land application of residuals if the permittee can demonstrate that it has delivered residuals that meet the parameter concentrations and appropriate treatment requirements of this rule and the applier (e.g. hauler, contractor, site manager, or site owner) has legally agreed in writing to accept responsibility for proper land application of the residuals. Such an agreement shall state that the applier agrees, upon delivery of residuals that have been treated as required by Chapter 62-640, F.A.C.., that he will accept responsibility for proper land application of the residuals as required by Chapter 62-640, F.A.C., and that the applier agrees that he is aware of and will comply with requirements for proper land application as described in the facility's permit.
[62-640.300(5), 3-30-98]

4. Disposal of residuals, septage, and other solids in a solid waste landfill, or disposal by placement on land for purposes other than soil conditioning or fertilization, such as at a monofill, surface impoundment, waste pile, or dedicated site, shall be in accordance with Chapter 62-701, F.A.C. *[62-640.100(6)(k)3 & 4, 3-30-98]*

5. Land application of residuals shall be in accordance with the conditions of this permit, the approved Agricultural Use Plan(s), and the requirements of Chapter 62-640, F.A.C. *[62-640, 3-30-98]*

6. The domestic wastewater residuals for this facility are classified as Class B.

7. The permittee shall achieve Class B pathogen reduction by meeting the pathogen reduction requirements in section 503.32(b)(2) (Monitoring of Indicator Organisms) of Title 40 CFR Part 503, revised as of October 25, 1995. *[62-640.600(1)(b), 3-30-98]*

8. The permittee shall achieve vector attraction reduction by meeting the vector attraction reduction requirements in section 503.33(b)(10) (Incorporate biosolids applied to or placed on the land surface within specified time periods after application to or placement on the land surface), of Title 40 CFR Part 503, revised as of October 25, 1995. *[62-640.600(2)(a), 3-30-98]*

9. Treatment of liquid residuals or septage for the purpose of meeting the pathogen reduction or vector attraction reduction requirements set forth in Rule 62-640.600, F.A.C., shall not be conducted in the tank of a hauling vehicle. Treatment of residuals or septage for the purpose of meeting pathogen reduction or vector attraction reduction requirements shall take place at the permitted facility. *[62-640.400(8), 3-30-98]*

10. The permittee shall sample and analyze the Class A or Class B residuals to monitor for pathogen and vector attraction reduction requirements of Rule 62-640.600, F.A.C., and the parameters listed in the table below at least once every three (3) months.

Parameter	Ceiling Concentrations (Single Sample)	Cumulative Application Limits
Total Nitrogen	(Report only) % dry weight	Not applicable
Total Phosphorus	(Report only) % dry weight	Not applicable
Total Potassium	(Report only) % dry weight	Not applicable
Arsenic	75 mg/kg dry weight	36.6 pounds/acre
Cadmium	85 mg/kg dry weight	34.8 pounds /acre
Copper	4300 mg/kg dry weight	1340 pounds/acre
Lead	840 mg/kg dry weight	268 pounds/acre
Mercury	57 mg/kg dry weight	15.2 pounds/acre
Molybdenum	75 mg/kg dry weight	Not applicable
Nickel	420 mg/kg dry weight	375 pounds/acre
Selenium	100 mg/kg dry weight	89.3 pounds/acre
Zinc	7500 mg/kg dry weight	2500 pounds/acre
pH	(Report only) standard units	Not applicable
Total Solids	(Report only) %	Not applicable

(62-640.650(1), 62-640.700(1), 62-640.700(3)(b), and 62-640.850(3), 3-30-98)

11. Sampling and analysis shall be conducted in accordance with Title 40 CFR Part 503, section 503.8 and the U.S. Environmental Protection Agency publication - POTW Sludge Sampling and Analysis Guidance Document, 1989. In cases where disagreements exist between Title 40 CFR Part 503, section 503.8 and the POTW Sludge Sampling and Analysis Guidance Document, the requirements in Title 40 CFR Part 503, section 503.8 will apply. *(62-640.650(1), 62-640.700(1), 62-640.700(3)(b), and 62-640.850(3), 3-30-98)*

12. Grab samples shall be used for pathogens and determinations of percent volatile solids. Composite samples shall be used for metals. *[62-640.650(1)(e), 3-30-98]*

13. Residuals shall not be land applied if a single sample result for any parameter exceeds the ceiling concentrations given in this permit. Residuals shall not be distributed and marketed if the monthly average of sample results for any parameter exceeds the Class AA parameter concentrations given in this permit. Monthly averages of parameter concentrations shall be determined by taking the arithmetic mean of all sample results for the month. *[62-640.650(1)(f), 3-30-98]*

14. The permittee shall submit the results of all residuals monitoring with the permittee's Discharge Monitoring Report under Chapter 62-601, F.A.C. The analytical results from each sampling event shall be submitted with the report for the month in which the sampling event occurs. Copies of all applicable analytical reports shall be submitted with the monitoring results. *[62-640.650(3)(a)&(e), 3-30-98]*

15. Class B residuals shall not be used on unrestricted public access areas. Use of Class B residuals is limited to restricted public access areas such as agricultural sites, forests, and roadway shoulders and medians. *[62-640.600(3)(b), 3-30-98]*

16. Plant nursery use of Class B residuals is limited to plants which will not be sold to the public for 12 months after the last application of residuals. *[62-640.600(3)(b)1., 3-30-98]*

17. Use of Class B residuals on roadway shoulders and medians is limited to restricted public access roads. *[62-640.600(3)(b)2., 3-30-98]*

18. Food crops, feed crops, and fiber crops shall not be harvested for 30 days following the last application of Class B residuals. *[62-640.600(3)(b)6.,3-30-98]*

19. Food crops with harvested parts that touch the residuals/soil mixture and are totally above the land surface shall not be harvested for 14 months after the last application of Class B residuals. *[62-640.600(3)(b)3., 3-30-98]*

20. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of Class B residuals when the residuals remain on the land surface for four months or longer before incorporation into the soil. *[62-640.600(3)(b)4., 3-30-98]*

21. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of Class B residuals when the residuals remain on the land surface for less than four months before incorporation into the soil. *[62-640.600(3)(b)5., 3-30-98]*

22. Animals shall not be grazed on the land for 30 days after the last application of Class B residuals. *[62-640.600(3)(b)7., 3-30-98]*

23. Sod which will be distributed or sold to the public or used on unrestricted public access areas shall not be harvested for 12 months after the last application of Class B residuals. *[62-640.600(3)(b)8., 3-30-98]*

24. The public shall be restricted from application zones for 12 months after the last application of Class B residuals. *[62-640.600(3)(b), 3-30-98]*

25. Residuals that do not meet the requirements of Chapter 62-640, F.A.C., for Class AA designation shall not be used for the cultivation of tobacco or leafy vegetables. *[62-640.400(7), 3-30-98]*

26. Current Agricultural Use Plan(s) identify residuals landspreading on the following sites:

Site Name	Site Type (AG or LR)	Application Area (acres)	Site Location							
			County	Latitude			Longitude			
				DD	MM	SS	DD	MM	SS
Cope Farm	AG	134.4	Duval	30	23	15	81	51	34
J. R. Wainwright Ranch	AG	33.7	Bradford	29	56	50	82	03	58
Shady Grove Dairy Farms	AG	255	Nassau	30	34	31	81	48	26
Williams Ranch	AG	545.5	Putnam	29	32	65	82	00	04

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, unless all of the following conditions are met:

a) The permittee notifies the Department within 24 hours that the site is being used;
b) The site meets the site use restrictions of Rule 62-640.600(3), F.A.C, and the criteria for land application of residuals in Rule 62-640.700, F.A.C.;
c) The permittee submits a new or revised Agricultural Use Plan for the site with a permit application in accordance with Rule 62-640.300(2), F.A.C., within 30 days of beginning use of the site;
d) The permittee does not have another approved land application site, another approved disposal method (e.g. landfilling or incineration), or approved storage facilities available for use; and,
e) The permittee demonstrates during permit application that application of additional residuals to an existing approved application site would have resulted in violation of Department rules, or was not possible due to circumstances beyond the permittee's control.

[62-640.300(2)&(3), 3-30-98]

27. Residuals application rates are limited to agronomic rates based on the site vegetation as identified in the Agricultural Use Plan. *[62-640.750(2), 3-30-98]*

28. Residuals shall be applied with appropriate techniques and equipment to assure uniform application over the application zone. *[62-640.700(2)(c), 3-30-98]*

29. The spraying of liquid domestic wastewater residuals shall be conducted so that the formation of aerosols is minimized. *[62-640.700(2)(d), 3-30-98]*

30. Residuals storage facilities at land application sites shall be subject to applicable setback requirements for residuals application sites. Residuals stored at land application sites shall be stored in a manner

that will not cause runoff or seepage from the residuals, objectionable odors, or vector attraction. Storage areas must be fenced or otherwise provided with appropriate features to discourage the entry of animals and unauthorized persons. At the time of application, the stored residuals must meet the parameter concentrations, pathogen and vector attraction reduction requirements, and cumulative application limits of this permit. Residuals storage facilities at land application sites may be used only for temporary storage of stabilized residuals for no more than 30 days during periods of inclement weather or to accommodate agricultural operations, or up to the period (not to exceed two years) specified in the Agricultural Use Plan. *[62-640.700(2)(e), 3-30-98]*

31. Residuals application sites shall be posted with appropriate advisory signs identifying the nature of the project area. *[62-640.700(2)(f), 3-30-98]*

32. The pH of the residuals soil mixture shall be 5.0 or greater at the time residuals are applied. At a minimum, soil pH testing shall be done annually. *[62-640.700(5)(d), 3-30-98]*

33. The permittee shall maintain records of application zones and application rates and shall make these records available for inspection within seven days of request by the Department, or delegated Local Program. The permittee shall maintain record items a. through e. below in perpetuity, and maintain record items f. through k. for five years:

    a. Date of application of the residuals;
    b. Location of the residuals application site as specified in the Agricultural Use Plan;
    c. Identification of each application zone used by the permittee at the application site and the acreage of each zone;
    d. Amount of residuals applied or delivered to each application zone;
    e. Cumulative loading of each application zone;
    f. The names of all other wastewater facilities using each of the application zones identified in item c.;
    g. Method of incorporation (if any);
    h. Measured pH of the residuals soil mixture at the time the residuals are applied (tested at least annually);
    i. Unsaturated depth of soil above the water table level at the time of application;
    j. Concentration of parameters in the residuals as required by this permit, and the date of last analysis; and
    k. The results of any soil testing that is done under Rule 62-640.500(4)(a), F.A.C.

    [62-640.650(2), 3-30-98]

34. The permittee shall submit an annual summary of residuals application activity to the Northeast District Office on Department Form 62-640.210(2)(b) for all residuals applied during the period of January 1 through December 31. The summary for each year shall be submitted by February 19 of the following year. If more than one facility applies residuals to the same application zones, the summary must include a subtotal of each facility's contribution of residuals to the application zones. *[62-640.650(3)(b), 3-30-98]*

35. If residuals that are subject to the cumulative loading limitations of Rule 62-640.700(3), F.A.C., have been applied to an application zone, and the cumulative loading amount of one or more of the pollutants is not known, no further applications of residuals may be made to that application zone. *[62-640.700(3)(f), 3-30-98]*

36. A minimum unsaturated soil depth of two feet above the water table level is required at the time the residuals are applied to the soil. *[62-640.700(6)(a), 3-30-98]*

37. Residuals shall not be applied during rains that cause runoff from the site or when surface soils are saturated. *[62-640.700(7)(a), 3-30-98]*

38. Land application of "other solids" as defined in Chapter 62-640, F.A.C., is only allowed if specifically addressed in the Agricultural Use Plan(s) approved for this facility. Land application of "other solids" is subject to Chapter 62-640, F.A.C., and the permit conditions that apply to land applied residuals. *[62-640.860, 3-30-98]*

39. If the permittee intends to accept residuals from other facilities, a permit revision is required pursuant to Rule 62-640.880(2)(d), F.A.C. *[62-640.880(2)(d), 3-30-98]*

40. Storage of residuals or other solids at the permitted facility shall require prior written notification to the Department. *[62-640.300(4), 3-30-98]*

III. GROUND WATER MONITORING REQUIREMENTS

Section III is not applicable to this facility.

IV. ADDITIONAL REUSE AND LAND APPLICATION REQUIREMENTS

Section IV is not applicable to this facility.

V. OPERATION AND MAINTENANCE REQUIREMENTS

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

   A Class B or higher operator for no less than seven days per week and for no less than eight hours per day. The department will allow eight hour per day operator attendance (instead of the sixteen hour per day attendance requirement specified in FAC Rule 62-699.310(3)(b) for Category II, Class B treatment process, currently utilized by this WWTF). Reduced operator staffing hours are granted because the permittee has provided the department with reasonable assurance that the Supervisor Control and Data Acquisition (SCADA) System complies with the requirements of Chapter 62-602.375(3). The permittee shall properly maintain the SCADA System to ensure continuous, reliable operations.

   The department reserves the right to require the permittee to meet the following operator coverage if the facility does not maintain compliance with the effluent limits in Part I.A.1 of the permit:

   A Class C or higher operator 16 hours/day for 7 days/week. The lead operator must be a Class B operator, or higher.

   [62-620.630(3), 12-24-96] [62-699.310, 5-20-92] [62-610.462, 1-9-96] [62-602, 12-30-99]

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]*

3. An updated capacity analysis report shall be submitted to the Department annually by July 1 of each year beginning July 1, 2001. The updated capacity analysis report shall be prepared in accordance with Rule 62-600.405, F.A.C. *[62-600.405(5), 12-24-96]*

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), 12-24-96]*

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.;

   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, 12-24-96][61E12-41.010(1)(e), 11-02-93]

6. The UV nominal average intensity shall be as provided in the facility's generated computer calculation, 4760 μWatts/cm^2. The permittee's operator shall track the intensity and the bulb "life". Daily record keeping, routine cleaning and daily system checks shall be maintained.

VI. SCHEDULES

The permittee shall conduct and implement the following items according to the following schedule:

	Implementation Step	Completion Date
1	Submit an updated capacity analysis report	October 1, 2000 or with permit revision request
2	Repair influent pipe from splitter box to each treatment unit	December 31, 2000

[62-620.320(1) and (2), 12-24-96] [62-4.070(3), 10-16-95]

VII. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

This facility is not required to have a pretreatment program at this time. *[62-625.500, 1-8-97]*

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), 12-24-96]*

2. Florida water quality criteria and standards shall not be violated as a result of any discharge or land application of reclaimed water or residuals from this facility. *[62-620.320(9), 12-24-96 and 62-302.500(2)(e), 12-26-96][62-640.700(3)(c), 3-1-91]*

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. Additionally, the treatment, management, use or land application of residuals shall not cause a violation of the odor prohibition in Rule 62-296.320(2), F.A.C. *[62-600.410(8),12-24-96 and 62-640.400(6), 3-30-98]*

4. 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), 12-26-96]*

5. Collection/transmission system overflows shall be reported to the Department in accordance with Permit Condition IX. 20. *[62-604.550, 12-26-96] [62-620.610(20), 12-24-96]*

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.

[62-604.130(4), 12-26-96]

7. The treatment facility, storage ponds, rapid infiltration basins, and/or infiltration trenches shall be enclosed with a fence or otherwise provided with features to discourage the entry of animals and unauthorized persons. *[62-600.400(2)(b), 12-24-96]*

8. Disposal of screenings and grit from preliminary treatment components of wastewater treatment facilities, solids from sewer line cleaning operations, and solids from lift stations and pump stations shall be in accordance with Chapter 62-701, F.A.C. *[62-640.100(6)(k)8., 3-30-98 and 62-701.300(1)(a),4-23-97]*

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), 12-24-96]

10. In accordance with Jacksonville Environmental Protection Board (JEPB) Rule 3.409C.2., the Master Plan For Regional Sewerage Development for the Royal Lakes Wastewater Treatment Facility Certificated Area of Service shall be updated no less than every two years and submitted to Jacksonville Regulatory and Environmental Services Department (RESD), Air and Water Quality Division (AWQD), 117 West Duval Street, Suite 225, Jacksonville, Florida 32202. The Master Plan shall address the requirements of JEPB Rule 3.409C.3.

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]

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), 12-24-96]*

11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. *[62-620.610(11), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]*

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), 12-24-96]

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 (DOH) under Chapter 64E1, 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), 12-24-96]

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), 12-24-96]*

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.

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), 12-24-96]

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), 12-24-96]*

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), 12-24-96]

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), 12-24-96]

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

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

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

FACT SHEET
FOR
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
DOMESTIC WASTEWATER FACILITY PERMIT
(Amended 4/4/00)

PERMIT NUMBER:	FL0026751
FACILITY NAME:	Royal Lakes WWTF
FACILITY LOCATION:	Jacksonville Duval County
NAME OF PERMITTEE:	United Water Florida
PERMIT WRITER:	Jon M. Dinges, P.E.
	Amended by: Mark Cadenhead, P.E.

1. SYNOPSIS OF APPLICATION

a. Chronology of Application

Application Date:	October 17, 1997
Additional Information:	May 26, 1998
	August 12, 1998
	September 21, 1998
Public Notice Date:	January 21, 2000

b. Type of Facility

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

c. Facility Capacity

Existing Design Capacity:	3.25	mgd	AADF
Proposed Increase in Design Capacity:	0.0	mgd	AADF
Proposed Total Design Capacity:	3.25	mgd	AADF
Existing Permitted Capacity:	3.25	mgd	AADF
Proposed Increase in Permitted Capacity:	0.0	mgd	AADF
Proposed Total Permitted Capacity:	3.25	mgd	AADF

d. Description of Effluent or Reclaimed Water Discharges (as reported by applicant)

See attached map(s) for the location(s) of effluent disposal and land application sites.

Outfall Serial Number D-001

Annual Average Daily Flow (mgd): 2.26

pH Range (Standard Units): 6.7 - 7.3

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.
Fecal Coliform Bacteria (No./100 mL)	-	-	270.0
CBOD5 (mg/L)	4.3	2.5	7.0
Total Residual Chlorine (for disinfection – mg/L)	0.6	0.5	1.1
TSS (mg/L)	5.8	2.2	11.3
Total Ammonia (mg/L as N)	2.0	0.3	27.0
TKN (mg/L as N)	2.4	1.0	5.3
Nitrate (mg/L as N)	5.8	4.2	7.7
Total Phosphorous (mg/L)	4.2	2.6	6.0

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

The following table provides the basis for Part I. A. provisions.

Outfall D-001

Parameter	Limit	Basis	Rationale
Flow, in conduit or thru treatment plant (mgd)	3.25	Annual Average	62-600.400(3)(b) FAC
BOD, Carbonaceous 5 day, 20C (mg/L)	10.0	Annual Average	62-600.430, 62-650, & 62-600.740(1)(b)2.a. FAC 62-600.740(1)(b)2.b. FAC
	12.5	Monthly Average	62-600.740(1)(b)2.c. FAC
	15.0	Weekly Average	62-600.740(1)(b)2.d. FAC
	20.0	Single Sample Max.	
Nitrogen, Ammonia, Total (as N) (mg/L)	Report	Single Sample Max.	62-302.530(3) FAC See notes below.
Nitrogen, Ammonia, Total unionized (as N) (mg/L)	0.04	Single Sample Max.	62-302.530(3) FAC See notes below.
Solids, Total Suspended (mg/L)	10.0	Annual Average	62-600.430, 62-650, & 62-600.740(1)(b)2.a. FAC 62-650 FAC

Parameter	Limit	Basis	Rationale
	12.5 15.0 20.0	Monthly Average Weekly Average Single Sample Max.	62-600.740(1)(b)2.c. FAC 62-600.740(1)(b)2.d. FAC
pH (s.u.)	6.0 to 8.5	Minimum and Maximum	62-302.530(52)(c) FAC

D-001 continued

Coliform, Fecal (#/100ml)	200 200 400 800	Annual Average Monthly Geo. Mean 90th Percentile Single Sample Max.	62-600.440(4)(c)1. FAC 62-600.440(4)(c)2. FAC 62-600.440(4)(c)3. FAC 62-600.440(4)(c)4. FAC
Total Residual Chlorine (For Dechlorination) (mg/L)	0.01	Single Sample Max.	62-600.440(2) FAC & 62-302.530(19) FAC
Total Residual Chlorine (For Disinfection) (mg/L)	0.5	Minimum	62-600.440(4)(b) FAC
Silver, Total Recoverable (µg/L)	0.14	Single Sample Max.	62-302.530(60) FAC See notes below.
Acute whole effluent toxicity	LC50 > 100%	Minimum	62-302.500(1)(a)4. FAC See notes below.
Nutrient and receiving stream monitoring	-	All Parameters	62-4.240(3)(c) FAC See notes below.
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 BPJ of permit writer

Notes on requirements for D-001:

1. The receiving water body (St. Johns River) in the vicinity of the discharge has been classified as fresh waters. A November 5, 1993 memorandum from the DEP point-source evaluation section stated that the St. Johns River at the mouth of Goodby's Creek (in the vicinity of the WWTF discharge) had chloride concentrations of less than 1,500 mg/L 65.1 percent of the time. According to 62-302 FAC, predominately fresh waters are defined as having chloride concentrations of less than or equal to 1,500 mg/L.

2. The CBOD5 and TSS limitations are both 10.0 mg/L on an annual average basis. A minimum percent removal is not required for either parameter because both limits are more stringent than the 20.0 mg/L limitations for secondary treatment. The limits are continued from both the previous state and NPDES permits.

3. An un-ionized ammonia limit of 0.04 mg/L has been established for the discharge. Un-ionized ammonia is a toxic compound present in domestic wastewater discharges. The limit is necessary to protect the receiving waters from the toxic effects of ammonia. The limit was derived from the 62-302 FAC surface water quality standard of 0.02 mg/L for un-ionized ammonia and a dilution factor of 2.0. See the discussion in part 4 of this fact sheet on mixing zones. Total ammonia must be monitored in order to calculate the un-ionized ammonia fraction in the discharge.

4. The pH range for the discharge in the previous NPDES permit was 6.5 to 8.5, based on a marine receiving water body classification. A 6.0 to 8.5 range is required in the renewed permit based on the fresh water classification discussed above.

5. The Royal Lakes WWTF discharge has periodically contained levels of silver above the fresh water quality standard (0.07 µg/L) since a July 1995 DEP sampling inspection. The following silver data have been collected from the discharge:

DATE	RESULT	ANALYTICAL METHOD
7-24-95	0.17 µg/L	272.2
2-15-96	0.24 µg/L	272.2
3-14-96	0.40 µg/L	272.2
7-8-98	< 0.01 mg/L	200.7
7-16-98	< 0.01 mg/L	200.7
7-23-98	< 0.01 mg/L	200.7
7-30-98	< 0.01 mg/L	200.7
8-6-98	< 0.01 mg/L	200.7
8-13-98	< 0.01 mg/L	6010

In accordance with the requirements of 40 CFR 122.44(d)(1), a permit must have effluent limitations for any parameter that causes or has a reasonable potential to cause or contribute to in-stream violations of water quality standards. The data listed above, and their corresponding method detection limits (MDLs) and practical quantification limits (PQLs) according to the analytical method, were put into a reasonable potential analysis following the methodology in EPA/505/2-90-001 (*Technical Support Document For Water Quality-Based Toxics Control).* The results of the analysis indicated that silver in the effluent had a reasonable potential to exceed the 0.07 µg/L water quality standard with a maximum expected silver of 0.26 µg/L. Thus, a limit was included in the permit.

The final limit for total recoverable silver in the permit is 0.14 µg/L. This limit was derived from the 62-302 FAC surface water quality standard of 0.07 µg/L and a dilution factor of 2.0. See the discussion in part 4 of this fact sheet on mixing zones. The 0.14 µg/L limit is below the values listed above for the reported data points. The method detection limit (MDL) and practical quantification limit (PQL) for the silver analyses are 0.10 µg/L and 0.50 µg/L, respectively. Thus, the reported data and the permit limit fall between the MDL and PQL. According to 62-4.246 FAC, if the permit limit is between the MDL and PQL and the compliance measurement is less than the PQL, compliance with the permit limit has been demonstrated. All the data listed above fall below the PQL. The reasonable potential analysis indicates a maximum expected silver of 0.26 µg/L, which is also below the PQL. Based on the given data, the analysis verifies that there is a reasonable assurance that the discharge will comply with the silver limit. Any compliance measurement for silver that falls below the PQL of 0.50 µg/L will comply with the permit limit.

6. The renewed permit contains effluent nutrient and receiving stream monitoring requirements. These requirements are continued from the previous state permit, DO16-230626. Both requirements are authorized by rule 62-4.240(3)(c) FAC.

7. The proposed effluent limitations were determined to be appropriate based on a Level I WQBEL developed by the permit writer. The WQBEL document is available in the District permit files. The segment of the St. Johns River that receives the discharge from the Royal Lakes WWTF is on the 303(d) list for coliforms, mercury, and nutrients. The discharge should not cause or contribute to a violation of coliform standards because the facility has been in compliance with disinfection requirements. Mercury has not been detected in the effluent, therefore the discharge should not cause or contribute to a violation of the mercury water quality standard. The discharge does contain a significant quantity of nutrients (oxidized forms of nitrogen in particular). The facility does not have nutrient removal

capacity at this time. The impact of the nutrients in the discharge has not yet been quantified, therefore a limit would not be appropriate at this time. As the TMDL process continues a nitrogen limitation for this discharge may be required.

8. In order to provide reasonable assurance that the discharge will not adversely affect the designated use of the receiving water, whole effluent acute toxicity testing is required for the discharge. The toxicity testing requirements and limits are continued from the previous NPDES permit. The testing frequency will be semi-annual because the facility has passed every toxicity test since January 1995.

The following table provides the basis for Part I. B. provisions.

Other Limitations and Monitoring Requirements:

Parameter	Limit	Basis	Rationale
BOD, Carbonaceous 5 day, 20C (mg/L)	-	Monitor & Report	62-601.300(1)FAC
Solids, Total Suspended (mg/L)	-	Monitor & Report	62-601.300(1)FAC

3. RESIDUALS MANAGEMENT

Residuals will be land applied or disposed of in a solid waste landfill in accordance with Chapter 62-701, F.A.C. The application completion date for the Royal Lakes WWTF is September 21, 1998, therefore the facility will be regulated by the most recent version of 62-640 FAC for land application of residuals.

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	62-640.650(1)(b) FAC
Total Phosphorus, % dry weight	Report	62-640.650(1)(b) FAC
Total Potassium, % dry weight	Report	62-640.650(1)(b) FAC
Arsenic, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1), FAC
Cadmium, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Copper, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Lead, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Mercury, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Molybdenum, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Nickel, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Selenium, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
Zinc, mg/kg dry weight	Maximum	62-640.650(1)(b) & 700(1) FAC
pH, std. units	Report	62-640.650(1)(b) FAC
Total Solids, %	Report	62-640.650(1)(b) FAC
Nitrogen, lb./ac/yr.	Maximum	62-640.750(2)(b) FAC

Residuals limits continued...

Arsenic, lb./ac	Cumulative Maximum	62-640.700(3)(b)
Cadmium, lb./ac	Cumulative Maximum	62-640.700(3)(b) FAC
Copper, lb./ac	Cumulative Maximum	62-640.700(3)(b) FAC
Lead, lb./ac	Cumulative Maximum	62-640.700(3)(b) FAC
Mercury, lb./ac	Cumulative Maximum	62-640.700(3)(b) FAC
Nickel, lb./ac	Cumulative Maximum	62-640.700(3)(b) FAC
Selenium, lb./ac	Cumulative Maximum	62-640.700(3)(b) FAC
Zinc, lb./ac	Cumulative Maximum	62-640.700(3)(b)
Monitoring Frequency	All Parameters	62-640.650 & 650(1)(c) FAC
Pathogen and vector attraction reduction monitoring	All Parameters	62-640.600 & 650(1)(a) FAC
Additional monitoring as determined necessary	All Parameters	62-640.650(1)(b)

4. MIXING ZONES

The applicant provided information on a proposed mixing zone for un-ionized ammonia and total recoverable silver. The information was provided because the Department did not have reasonable assurance that the discharge would meet the 62-302 FAC water quality standards at the "end of pipe". The information provided by the applicant indicated that a dilution factor of approximately 2.0 is needed for both silver and un-ionized ammonia. The 2.0 dilution factor is necessary to achieve the amount of dilution required for the discharge to meet the limits for silver and un-ionized ammonia. See the discussion in section 2 of this fact sheet.

The dilution was modeled with a simple initial discharge-induced dilution screening equation because the amount of dilution needed is small. The equation used is found on page 75 of the *Technical Support Document For Water Quality-Based Toxics Control*. The equation is as follows:

$$S = 0.3\ (x/d)$$

where
S = flux-averaged dilution
x = distance from outfall
d = diameter of outfall

This equation can be inverted to solve for x, which becomes the radius of a circular mixing zone for an estuarine receiving water. Knowing that the required dilution factor (Df) is 2.0, the flux-averaged dilution then becomes 1.0 (S = Df – 1). The diameter of the outfall is 2 feet. Solving for x in the equation gives:

$$x = Sd/0.3 = (1)(2\text{ ft})/0.3 = 6.67\text{ ft or } 2.03\text{ meters}$$

Thus, the circular mixing zone has a radius of 2.03 meters and an area of 12.9 square meters.

The equation listed above is useful only for a conservative estimate of initial dilution. It is valid for only a short distance from the outfall (up to two or three water depths). The centerline of the outfall is located approximately five feet below minimum low water. Thus, the dilution equation would apply up to a distance of 15 feet from the outfall. In this case, the mixing zone is small; the boundary is less than ½ the maximum distance at which the equation would apply.

The calculated dilution factor of 2.0 at a distance of 2.03 meters is a conservative estimate. The equation is conservative because the equation is based on the assumptions that outlet velocity is zero and the discharge is neutrally buoyant. Actual dilution of the discharge would most likely be somewhat higher than the estimate. Staff in the DEP Tallahassee office confirmed the available dilution with the PLUMES model. The model indicated a dilution factor of greater than 2.0 under worse case conditions.

Rule 62-4.244 lists requirements for approval of mixing zones. The following factors were considered for approval of the mixing zone for silver and un-ionized ammonia:

- The pollutants should not have synergistic effects with other substances in the receiving waters.
- To the permit writer's knowledge there are no other mixing zones in the vicinity of the discharge. There should be no cumulative effects with other mixing zones.
- The mixing zone does not include an existing drinking water supply intake. The St. Johns River is not used as a potable water source.
- The mixing zone does not include a nursery area of indigenous aquatic life or an area approved by the Department for shellfish harvesting. This was confirmed by the 1995 biological assessment of the biological community around the discharge.
- The mixing zone is much smaller than the maximum area of 125,600 square meters.
- The mixing zone is no larger than necessary to meet water quality standards.
- The mixing zone should not cause or contribute to an impairment of the receiving waters. The mixing zone is relief from water quality standards for pollutants that have been historically found in the discharge. No additional increase in the discharge of pollutants is being permitted. The 1995 biological assessment states that the quantitative measures of benthic macroinvertebrate community health indicated that the facility was having no adverse effects on the receiving water biota.

5. INDUSTRIAL PRETREATMENT REQUIREMENTS

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

6. REQUESTED VARIANCES OR ALTERNATIVES TO REQUIRED STANDARDS

No variances were requested for this facility.

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

The permit requires the permittee to comply with the following items:

	Implementation Step	Completion Date
1	Submit an updated capacity analysis report	October 1, 2000
2	Repair influent pipe from splitter box to each treatment unit	December 31, 2000

8. DISCUSSION OF PREVIOUS PERMIT EFFLUENT OR RECLAIMED WATER LIMITATIONS

The previous NPDES wastewater permit for this facility FL0026751 (expiration January 31, 1998) contains the following effluent or reclaimed water limits:

For Surface Water Serial Number D-001:

Parameters	Effluent or Reclaimed Water Limitations				
	Maximum/ Minimum	Annual Average	Monthly Average	Weekly Average	Single Sample
Flow (mgd)	Maximum	3.8	Report	Report	Report
CBOD5 (mg/L)	Maximum	10.0	12.5	15.0	20.0
TSS (mg/L)	Maximum	10.0	12.5	15.0	20.0
Fecal Coliform (No./100 mL)	Maximum	200.0	-	-	800.0
pH (s.u.)	Range	-	-	-	6.5 - 8.5
Total Residual Chlorine, final effluent (mg/L)	Maximum	-	-	-	0.01
Acute Whole Effluent Toxicity	Minimum	-	-	-	LC 50 < 100% effluent

The previous state-issued wastewater permit for this facility DO16-230626 (expiration April 15, 1998) contains the following effluent or reclaimed water limits:

For surface water discharge:

Parameters	Effluent or Reclaimed Water Limitations				
	Maximum/ Minimum	Annual Average	Monthly Average	Weekly Average	Single Sample
Flow (mgd)	Maximum	3.25	Report	Report	Report
CBOD5 (mg/L)	Maximum	10.0	12.5	15.0	20.0
TSS (mg/L)	Maximum	10.0	12.5	15.0	20.0
Fecal Coliform (No./100 mL)	Maximum	200.0	-	-	800.0
pH (s.u.)	Range	-	-	-	6.0 - 8.5
Total Residual Chlorine, for disinfection (mg/L)	Minimum	-	-	-	0.5
Total Residual Chlorine, final effluent (mg/L)	Maximum	-	-	-	0.01

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

This facility does not have a new or expanded discharge.

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

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

11. APPLICABLE RULES

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:

Chapter	Effective Date
62-4	10-16-95
62-302	12-26-96
62-520	12-09-96
62-550	12-09-96
62-600	12-24-96
62-601	12-24-96
62-610	01-09-96
62-620	12-24-96
62-640	03-30-98
62-650	12-26-96
62-699	05-20-92

b. FS refers to various portions of the Florida Statutes

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

d. BPJ refers to Best Professional Judgment

12. DEP CONTACT

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

Department of Environmental Protection
Northeast District Office
7825 Baymeadows Way, Suite B200
Jacksonville, FL 32256 - 7590
Telephone 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. PROPOSED SCHEDULE FOR PERMIT ISSUANCE

Draft permit to Applicant and EPA :	January 12, 2000
Beginning of Proposed Public Comment Period :	February 18, 2000
End of Proposed Public Comment Period :	March 19, 2000
Notice of Agency Action :	March 24, 2000
Proposed Issuance Date of Permit :	April 7, 2000

At the request of RESD, a Specific Condition was added to address the Master Plan for Regional Sewerage Development. (S.C. VIII.10.)

15. CHANGES FROM THE DRAFT PERMIT:

Minor revision items were requested by EPA. The only significant change was to S.C. I.A.7.d.3 where the number of tests were changed from six to three.

At the request of the permittee, several changes to the draft were made.

The facility description was changed to remove the vortex grit removal unit since it is no longer used; remove the chlorination description portion since UV disinfection is utilized; and revise the description of the digested sludge holding tank. Table I.A.1. was revised to remove references to chlorination.

Item I.A.7.a.2 was revised to change the language concerning the failure due to a mortality to the control group. If the effluent did not fail for toxicity at the 50% mortality level, failure of the control group due to a bad "batch" of species does not make sense because this is not representative of the effluent which passed the toxicity test. Therefore, the language was changed to reflect the request to accept the test if the 50% mortality level was not met.

The permittee requested a change in the language concerning "unacceptable acute toxicity". This change was not made since 20% mortality is the definition currently used for "unacceptable acute toxicity" and prompts the "routine" sampling events. 50% mortality is a violation of the toxicity requirements.

The permittee recommended several changes to the re-opener clause, S.C. I.A.10. The permit was changed slightly to try to accommodate the intent of this request. Should the sampling for un-ionized ammonia and silver indicate water quality standards will be met, the department will allow for re-opening of the permit to reduce monitoring to the proposed regularity of quarterly for silver and monthly for un-ionized ammonia.

Operator coverage reduction was requested to meet that of the past permit. The department allowed for the reduction in coverage from 16 hours/day, seven days per week to 8 hours/day for seven days per week. However, since the lead operator must be a Class B operator or higher, the

department is requiring that the facility be staffed by a Class B operator or higher during that time period. The operator may serve as the lead operator at that facility for that time period.

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	PERMIT NUMBER:	FL0026751		
MAILING ADDRESS:	1400 Millcoe Road	LIMIT:	Final	REPORT:	Monthly
	Jacksonville, FL 32225	CLASS SIZE:	Major	GROUP:	Domestic
		GMS ID NO.:	3116P05360	GMS TEST SITE NO.:	3116X12403
FACILITY:	Royal Lakes WWTF	MONITORING GROUP NUMBER:	D-001		
LOCATION:	5509 Western Way	PLANT SIZE/TREATMENT TYPE:	IIB		
	Jacksonville, FL 32256	NO DISCHARGE FROM SITE:	☐		

COUNTY: *Duval*

MONITORING PERIOD From: _____ To: _____

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										
PARM Code 50050 Y Mon.Site No. EFD-1	Permit Requirement	3.25 (An.Avg.)						mgd		Continuous	Flow meters & totalizers
Flow, in conduit or thru treatment plant	Sample Measurement										
PARM Code 50050 1 Mon.Site No. EFD-1	Permit Requirement	Report (Mo.Avg.)						mgd		Continuous	Flow meters & totalizers
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 Y Mon.Site No. EFD-1	Permit Requirement					10.0 (An.Avg.)		mg/l		Weekly	16-hour FPC
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 1 Mon.Site No. EFD-1	Permit Requirement					12.5 (Mo.Avg.)	20.0 (Max.)	mg/l		Weekly	16-hour FPC
Nitrogen, Ammonia, Total (as N)	Sample Measurement										
PARM Code 00610 1 Mon.Site No. EFD-1	Permit Requirement						Report (Max.)	mg/l as N		Weekly	Grab
Nitrogen, Ammonia, Total unionized (as NH3)	Sample Measurement										
PARM Code 00619 1 Mon.Site No. EFD-1	Permit Requirement						0.04 (Max.)	mg/l as NH3		Weekly	Calculated

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: Royal Lakes WWTF | PERMIT NUMBER: FL0026751 | MONITORING GROUP NUMBER: D-001

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 Y Mon.Site No. EFD-1	Permit Requirement					10.0 (An.Avg.)		mg/l		Weekly	16-hour FPC
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 1 Mon.Site No. EFD-1	Permit Requirement					12.5 (Mo.Avg.)	20.0 (Max.)	mg/l		Weekly	16-hour FPC
pH	Sample Measurement										
PARM Code 00400 1 Mon.Site No. EFD-1	Permit Requirement				6.0 (Min.)		8.5 (Max.)	s.u.		Continuous	Meter
Coliform, Fecal	Sample Measurement										
PARM Code 74055 Y Mon.Site No. EFD-1	Permit Requirement					200 (An.Avg.)		#/100ml		Weekly	Grab
Coliform, Fecal	Sample Measurement										
PARM Code 74055 1 Mon.Site No. EFD-1	Permit Requirement					Report (Mo.Geo.Mean)	800 (Max.)	#/100ml		Weekly	Grab
Silver, Total Recoverable	Sample Measurement										
PARM Code 01079 1 Mon.Site No. EFD-1	Permit Requirement						0.14 (Max.)	ug/l		Monthly	16-hour FPC
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 G Mon.Site No. INF-1	Permit Requirement					Report (Mo.Avg.)		mg/L		Weekly	16-hour FPC
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 G Mon.Site No. INF-1	Permit Requirement					Report (Mo.Avg.)		mg/L		Weekly	16-hour FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY NAME: Royal Lakes WWTF | PERMIT NUMBER: FL0026751 | MONITORING GROUP NUMBER: D-001

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Total Kjeldahl Nitrogen	Sample Measurement										
PARM Code 00625 1 Mon.Site No. EFD-1	Permit Requirement						Report (Max.)	mg/l as N		Monthly	16-hour FPC
Organic Nitrogen	Sample Measurement										
PARM Code 00605 1 Mon.Site No. EFD-1	Permit Requirement						Report (Max.)	mg/l as N		Monthly	16-hour FPC
Nitrite + Nitrate	Sample Measurement										
PARM Code 00630 1 Mon.Site No. EFD-1	Permit Requirement						Report (Max.)	mg/l as N		Monthly	16-hour FPC
Total Nitrogen	Sample Measurement										
PARM Code 00600 1 Mon.Site No. EFD-1	Permit Requirement						Report (Max.)	mg/l as N		Monthly	16-hour FPC
Total Phosphorous	Sample Measurement										
PARM Code 00665 1 Mon.Site No. EFD-1	Permit Requirement						Report (Max.)	mg/l		Monthly	16-hour FPC
Orthophosphorous	Sample Measurement										
PARM Code 70507 1 Mon.Site No. EFD-1	Permit Requirement						Report (Max.)	mg/l		Monthly	Grab - Filtered

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*	PERMIT NUMBER:	FL0026751		
MAILING ADDRESS:	1400 Millcoe Road	LIMIT:	Final	REPORT:	Toxicity
	Jacksonville, FL 32225	CLASS SIZE:	Major	GROUP:	Domestic
		GMS ID NO.:	*3116P05360*	GMS TEST SITE NO.:	3116X12403
FACILITY:	Royal Lakes WWTF	MONITORING GROUP NUMBER:	D-001		
LOCATION:	*5509 Western Way*	PLANT SIZE/TREATMENT TYPE:	IIB		
	Jacksonville, FL 32256	NO DISCHARGE FROM SITE:	☐		
COUNTY:	Duval				

MONITORING PERIOD From: To:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
LC50 STAT RE 96 HOUR ACUTE Ceriodaphnia *dubia (Routine)*	Sample Measurement										
PARM Code TAN3B [redacted] Mon.Site No. EFD-1	Permit Requirement	[redacted]			100 (Min.)			percent		Semi-Annual	4 grabs/ 24 hour
LC50 STAT RE 96 HOUR ACUTE Ceriodaphnia dubia (Additional)	Sample Measurement										
PARM Code TAN3B [redacted] Mon.Site No. EFD-1	Permit Requirement	[redacted]			100 (Min.)			percent		As needed	As required by the permit
LC50 STAT RE 96 HOUR ACUTE Cyprinella leedsi (Routine)	Sample Measurement										
PARM Code TAN6H [redacted] Mon.Site No. EFD-1	Permit Requirement	[redacted]			100 (Min.)			percent		Semi-Annual	4 grabs/ 24 hour
LC50 STAT RE 96 HOUR ACUTE Cyprinella leedsi (Additional)	Sample Measurement										
PARM Code TAN6H [redacted] Mon.Site No. EFD-1	Permit Requirement	[redacted]			100 (Min.)			percent		As needed	As required by the permit
	Sample Measurement										
[redacted]	Permit Requirement	[redacted]									
	Sample Measurement										
[redacted]	Permit Requirement	[redacted]									

*IF A SECOND DEFINITIVE TEST IS REQUIRED, ENTER THE RESULT IN AN EMPTY ROW.
**ENTER NODI=9 IN THE RESULTS COLUMN IF NO DISCHARGE OCCURRED DURING THIS REPORTING PERIOD.
ENTER NODI=9 IN THE RESULTS COLUMN IF NO DEFINITIVE TESTS ARE REQUIRED.

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	PERMIT NUMBER:	FL0026751		
MAILING ADDRESS:	1400 Millcoe Road	LIMIT:	Final	REPORT:	Semi-Annual
	Jacksonville, FL 32225	CLASS SIZE:	Major	GROUP:	Domestic
		FACILITY ID:	FL0026751	STATION:	20030539
FACILITY:	Royal Lakes WWTF	GMS ID NO.:	3116P05360	SAMPLE DEPTH:	Mid
LOCATION:	5509 Western Way	DISCHARGE POINT NUMBER:	D-001		
	Jacksonville, FL 32256	PLANT SIZE/TREATMENT TYPE:	IIB		
		NO DISCHARGE FROM SITE:	☐		
COUNTY	Duval				

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
$CBOD_5$	Sample Measurement										
STORET No. 80082 5 Mon. Site No. SWU-1	Permit Requirement						Report (Max.)	mg/L		Semi-Annual	Grab
Nitrite + Nitrate Nitrogen	Sample Measurement										
STORET No. 00630 5 Mon. Site No. SWU-1	Permit Requirement						Report (Max.)	mg/L		Semi-Annual	Grab
Total Ammonia	Sample Measurement										
STORET No. 00610 5 Mon. Site No. SWU-1	Permit Requirement						Report (Max.)	mg/L		Semi-Annual	Grab
Total Kjeldahl Nitrogen (TKN)	Sample Measurement										
STORET No. 00625 5 Mon. Site No. SWU-1	Permit Requirement						Report (Max.)	mg/L		Semi-Annual	Grab
Chlorophyll A	Sample Measurement										
STORET No. 32230 5 Mon. Site No. SWU-1	Permit Requirement						Report (Max.)	mg/L		Semi-Annual	Grab
Total Phosphorous	Sample Measurement										
STORET No. 00665 5 Mon. Site No. SWU-1	Permit Requirement						Report (Max.)	mg/L		Semi-Annual	Grab

Date _____ and Time _____ Samples Collected.

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)

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY NAME: Royal Lakes WWTF | PERMIT NUMBER: FL0026751 | STORET STATION: 20030539

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Dissolved Oxygen	Sample Measurement										
STORET No. 00300 5 Mon. Site No. SWU-1	Permit Requirement				Report (Min.)			mg/L		Semi-Annual	Grab
Temperature °C	Sample Measurement										
STORET No. 00010 5 Mon. Site No. SWU-1	Permit Requirement						Report (Max.)	°C		Semi-Annual	Grab
PH	Sample Measurement										
STORET No. 00400 5 Mon. Site No. SWU-1	Permit Requirement				Report (Min.)		Report (Max.)	S.U.		Semi-Annual	Grab
Conductivity	Sample Measurement										
STORET No. 00094 5 Mon. Site No. SWU-1	Permit Requirement						Report (Max.)	UMHOS		Semi-Annual	Grab
Tide Stage	Sample Measurement										
STORET No. 00067 5 Mon. Site No. SWU-1	Permit Requirement						Report (Max.)	Inches		Semi-Annual	Grab
Salinity	Sample Measurement										
STORET No. 00480 5 Mon. Site No. SWU-1	Permit Requirement						Report (Max.)	mg/L		Semi-Annual	Grab
Chloride	Sample Measurement										
STORET No. 00940 5 Mon. Site No. SWU-1	Permit Requirement						Report (Max.)	mg/L		Semi-Annual	Grab
Organic Nitrogen	Sample Measurement										
STORET No. 00605 5 Mon. Site No. SWU-1	Permit Requirement						Report (Max.)	mg/L		Semi-Annual	Grab
Total Recoverable Silver	Sample Measurement										
STORET No. 01079 5 Mon. Site No. SWU-1	Permit Requirement						Report (Max.)	ug/L		Semi-Annual	Grab

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

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Orthophosphorus	Sample Measurement										
STORET No. 70507 5 Mon. Site No. SWU-1	Permit Requirement						Report (Max.)	mg/L		Semi-Annual	Grab
Algal Growth Potential	Sample Measurement										
STORET No. 60050 5 Mon. Site No. SWU-1	Permit Requirement						Report (Max.)	#/ML		Semi-Annual	Grab
Total Taxa	Sample Measurement										
STORET No. 71260 5 Mon. Site No. SWU-1	Permit Requirement		Report (Max.)	#						Semi-Annual	Grab

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	PERMIT NUMBER:	FL0026751		
MAILING ADDRESS:	1400 Millcoe Road Jacksonville, FL 32225	LIMIT:	Final	REPORT:	Semi-Annual
		CLASS SIZE:	Major	GROUP:	Domestic
		FACILITY ID:	FL0026751	STATION:	20030541
FACILITY:	Royal Lakes WWTF	GMS ID NO.:	3116P05360	SAMPLE DEPTH:	Mid
LOCATION:	5509 Western Way Jacksonville, FL 32256	DISCHARGE POINT NUMBER:	D-001		
		PLANT SIZE/TREATMENT TYPE:	IIB		
		NO DISCHARGE FROM SITE:	☐		
COUNTY	Duval				

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
$CBOD_5$	Sample Measurement										
STORET No. 80082 6 Mon. Site No. SWD-1	Permit Requirement						Report (Max.)	mg/L		Semi-Annual	Grab
Nitrite + Nitrate Nitrogen	Sample Measurement										
STORET No. 00630 6 Mon. Site No. SWD-1	Permit Requirement						Report (Max.)	mg/L		Semi-Annual	Grab
Total Ammonia	Sample Measurement										
STORET No. 00610 6 Mon. Site No. SWD-1	Permit Requirement						Report (Max.)	mg/L		Semi-Annual	Grab
Total Kjeldahl Nitrogen (TKN)	Sample Measurement										
STORET No. 00625 6 Mon. Site No. SWD-1	Permit Requirement						Report (Max.)	mg/L		Semi-Annual	Grab
Chlorophyll A	Sample Measurement										
STORET No. 32230 6 Mon. Site No. SWD-1	Permit Requirement						Report (Max.)	mg/L		Semi-Annual	Grab
Total Phosphorous	Sample Measurement										
STORET No. 00665 6 Mon. Site No. SWD-1	Permit Requirement						Report (Max.)	mg/L		Semi-Annual	Grab

Date _____ and Time _____ Samples Collected.

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)

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY NAME: Royal Lakes WWTF | PERMIT NUMBER: FL0026751 | STORET STATION: 20030541

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Dissolved Oxygen	Sample Measurement										
STORET No. 00300 6 Mon. Site No. SWD-1	Permit Requirement				Report (Min.)			mg/L		Semi-Annual	Grab
Temperature °C	Sample Measurement										
STORET No. 00010 6 Mon. Site No. SWD-1	Permit Requirement						Report (Max.)	°C		Semi-Annual	Grab
PH	Sample Measurement										
STORET No. 00400 6 Mon. Site No. SWD-1	Permit Requirement				Report (Min.)		Report (Max.)	S.U.		Semi-Annual	Grab
Conductivity	Sample Measurement										
STORET No. 00094 6 Mon. Site No. SWD-1	Permit Requirement						Report (Max.)	UMHOS		Semi-Annual	Grab
Tide Stage	Sample Measurement										
STORET No. 00067 6 Mon. Site No. SWD-1	Permit Requirement						Report (Max.)	Inches		Semi-Annual	Grab
Salinity	Sample Measurement										
STORET No. 00480 6 Mon. Site No. SWD-1	Permit Requirement						Report (Max.)	mg/L		Semi-Annual	Grab
Chloride	Sample Measurement										
STORET No. 00940 6 Mon. Site No. SWD-1	Permit Requirement						Report (Max.)	mg/L		Semi-Annual	Grab
Organic Nitrogen	Sample Measurement										
STORET No. 00605 6 Mon. Site No. SWD-1	Permit Requirement						Report (Max.)	mg/L		Semi-Annual	Grab
Total Recoverable Silver	Sample Measurement										
STORET No. 01079 6 Mon. Site No. SWD-1	Permit Requirement						Report (Max.)	ug/L		Semi-Annual	Grab

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

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Orthophosphorus	Sample Measurement										
STORET No. 70507 6 Mon. Site No. SWD-1	Permit Requirement						Report (Max.)	mg/L		Semi-Annual	Grab
Algal Growth Potential	Sample Measurement										
STORET No. 60050 6 Mon. Site No. SWD-1	Permit Requirement						Report (Max.)	#/ML		Semi-Annual	Grab
Total Taxa	Sample Measurement										
STORET No. 71260 6 Mon. Site No. SWU-1	Permit Requirement		Report (Max.)							Semi-Annual	Grab

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

AILY SAMPLE RESULTS - PART B

ermitNumber: FL0026751 Royal Lakes WWTF, Duval County
lonitoring Period From: _____ To: _____

Three-month Average Daily Flow: _____
(TMADF/Permitted Capacity)x100: _____

	Flow thru treatment plant (mgd)	CBOD5 (mg/l)	CBOD5 (mg/L)	Total Ammonia (mg/l as N)	Un-ionized Ammonia, (mg/l as N)	Temp. (C), at time of ammonia sampling	pH, at time of ammonia sampling	TSS (mg/l)	TSS (mg/L)	PH (s.u.)	Fecal Coliform Bacteria (#/100ml)
Code	50050	80082	80082	00610	00619	00010	00400	00530	00530	00400	74055
Mon. Site	EFD-1	EFD-1	INF-1	EFD-1	EFD-1	EFD-1	EFD-1	EFD-1	INF-1	EFD-1	EFD-1
1											
2											
3											
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ANT STAFFING:

ay Shift Operator Class: _____ Certificate No: _____ Name: _____
vening Shift Operator Class: _____ Certificate No: _____ Name: _____
ight Shift Operator Class: _____ Certificate No: _____ Name: _____
ead Operator Class: _____ Certificate No: _____ Name: _____

pe of Effluent Disposal or Reclaimed Water Reuse: _____
mited Wet Weather Discharge Activated: Yes: No: Not Applicable: If yes, cumulative days of wet weather _____

ttach additional sheets if necessary to list all certified operators.

DAILY SAMPLE RESULTS - PART B

PermitNumber: FL0026751 Royal Lakes WWTF, Duval County
Monitoring Period From: _____ To: _____

	Silver, Total Recov. (ug/l)	Total Kjeldahl Nitrogen (mg/L as N)	Organic Nitrogen (mg/L as N)	Nitrite + Nitrate (mg/L as N)	Total Nitrogen (mg/L as N)	Total Phosphorous (mg/L)	Ortho-phosphorous (mg/L)
Code	01079	00625	00605	00630	00600	00665	70507
Mon. Site	EFD-1	EFD-1	EFD-1	EFD-1	EFD-1	EFD-1	EFD-1
1							
2							
3							
4							
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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: _____

Wet Weather Discharge Activated: Yes: No: Not Applicable: If yes, cumulative days of wet weather _____

*Attach additional sheets if necessary to list all certified operators.

INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT

The DMR consists of four parts--A, B, C, and D--all of which may or may not be applicable to every facility. Facilities may have one or more Part A's for reporting effluent data. All domestic wastewater facilities will have a Part B for reporting daily sample results. *Part C is only applicable for domestic wastewater facilities with limited wet weather discharges permitted under Chapter 62-610.860, F.A.C.* Part D is used for reporting ground water monitoring well data.

Hard copies and/or electronic copies of the required parts of the DMR were provided with the permit. All required information shall be typed or printed in ink.

In addition to filling in numerical results on various parts of the DMR, the following codes should be used and an explanation provided where appropriate. Note: Codes used by the lab for raw data may be different.

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

CODE	DESCRIPTION/INSTRUCTIONS
NOD	No discharge from/to site.
OPS	Operations were shutdown so no sample could be taken.
OTH	Other. Please enter an explanation of why monitoring data were not available.
SEF	Sampling equipment failure.
TNTC	Too numerous too count (for fecal coliform bacteria only).

When reporting analytical results that fall below a laboratory's reported method detection limits or practical quantification limits, the following instructions and code should be used:

CODE	DESCRIPTION/INSTRUCTIONS
<	If the sampled value is less than the method detection limit (MDL), enter a less than sign followed by the laboratory's MDL value, e.g. < 0.001. In cases where a laboratory reports a value which is less than the parameter's practical quantification limit (PQL), but, not less than the MDL, the value should be reported as the laboratory's MDL value. For example, where the MDL = 0.001, the PQL = 0.005 and the laboratory reports <0.005 (the PQL), the value of 0.001 should be reported on the DMR.

PART A -DISCHARGE MONITORING REPORT (DMR)

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

No Discharge From Site: Check this box if no discharge occurs and, as a result, there are no data or codes to be entered for all of the parameters on the DMR for the entire monitoring group number. If there was no discharge of effluent for a particular outfall, reuse, or land application system and the DMR monitoring group includes other monitoring locations (e.g., influent sampling); the "NOD" code should be used to individually denote those parameters for which there was no discharge.
Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.
Sample Measurement: Before filling in sample measurements in the table, check to see that the data collected correspond to the limit indicated on the DMR (i.e. interim or final) and that the data correspond to the monitoring group number in the header. *Enter the data or calculated results for each parameter on this row.* Be sure the result being entered corresponds to the appropriate statistical base code (e.g. annual average, monthly average, single sample maximum, etc.).
No. Ex.: Enter the number of sample measurements during the monitoring period that exceeded the permit limit for each parameter. If none, enter zero.
Frequency of Analysis: The shaded areas in this column contain the minimum number of times the measurement is required to be made according to the permit. Enter the actual number of times the measurement was made in the space above the shaded area.
Sample Type: The shaded areas in this column contain the type of sample (e.g. grab, composite, continuous) required by the permit. Enter the actual sample type that was taken in the space above the shaded area.
Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.
Comment and Explanation of Any Violations: Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation. If more space is needed, reference all attachments in this area.

PART B - DAIL' MPLE RESULTS

Month/Year: Enter the month and year during which the data on this report were collected and analyzed.
***Three-month* Average Daily Flow:** Calculate and enter the three-month average daily flow to the treatment facility.
(TMADF/Permitted Capacity) x 100: Divide the three-month average daily flow by the permitted capacity of the treatment facility, multiply by 100, and enter this value.
Daily Monitoring Results: Record the results of daily monitoring for the parameters required to be sampled by your permit. Record the data in the units indicated.
Plant Staffing: List the name, certificate number, and class of all state certified operators operating the facility during the monitoring period. Use additional sheets as necessary.
Type of Effluent Disposal or Reclaimed Water Reuse: Enter the type of effluent disposal or reclaimed water reuse (e.g. 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).
Limited Wet Weather Discharge Activated: If this plant does not have a limited wet weather discharge permitted under the provision of Rule 62-610.860, F.A.C., check 'Not Applicable.' If the plant activated the wet weather discharge during the reporting month, check 'Yes' and attach PART C - LIMITED WET WEATHER DISCHARGE.

PART C - LIMITED WET WEATHER DISCHARGE

This part is to be completed and submitted each month reclaimed water or effluent is discharged by a limited wet weather discharge permitted under Rule 62-610.860, F.A.C. For months with no discharge, Part C need not be submitted. All information is to be provided for each day on which the limited wet weather discharge was activated.

Month/Year: Enter the month and year during which the data on this report were collected and analyzed.
Rainfall Information: Enter the name and location of the rainfall gauging station, the source of climatological (normal rainfall) data, the cumulative rainfall for the average rainfall year, and the cumulative rainfall to date for this calendar year. The cumulative rainfall for the average rainfall year 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. The cumulative rainfall to date for this calendar year is the total amount of rain, in inches, that has been recorded since January 1 of the current year through the month for which this DMR contains data.
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 hr. = 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 (converted into days). 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 actual 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.
$CBOD_5$: Enter the average $CBOD_5$ 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.
Total P: Enter the cumulative number of days since January 1 of the current year during which the limited wet weather discharge was activated divided by the total number of days since January 1 of the current year multiplied by 100%.
Reason for Discharge: Provide a brief explanation of the factors contributing to the need to activate the limited wet weather discharge.

PART D - GROUND WATER MONITORING REPORT

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.
Date Sample Obtained: Enter the date the sample was taken. Also, check whether or not the well was purged before sampling.
Sampling Methods: Indicate the procedure used to collect the sample (e.g. airlift, bucket/bailer, centrifugal pump, etc.)
Samples Filtered: Indicate whether the sample obtained was filtered by laboratory (L), filtered in field (F), or unfiltered (N).
Preservatives Added: State what preservatives were added to the sample.
Analysis Method: Indicate the analytical method used. Record the method number from Chapter 62-160 or Chapter 62-601, F.A.C., or from other sources.
Analysis Result/Units: Record the results of the analysis. If the result was below the minimum detection limit, indicate that. Enter the units associated with the results of the analysis.
Detection Limits/Units: Record the detection limits of the analytical methods used and the units associated with them.
Comments and Explanations: Use this space to make any comments on or explanations of results which are unexpected. If more space is needed, reference all attachments in this area.

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

Henry Dean, Executive Director
Joh Wehle, Assistant Executive Director
Charles T. Myers, Deputy Assistant Executive Director

POST OFFICE BOX 1429 PALATKA, FLORIDA 32178-1429
TELEPHONE 904/329-4500 SUNCOM 904/860-4500
TDD 904/329-4450 TDD SUNCOM 860-4450
FAX (EXECUTIVE/LEGAL) 329-4125 (PERMITTING) 329-4315 (ADMINISTRATION/FINANCE) 329-4508

FIELD STATIONS

618 E. South Street
Orlando, Florida 32801
407/897-4300
TDD 407/897-5960

7775 Baymeadows Way
Suite 102
Jacksonville, Florida 32256
904/730-6270
TDD 904/730-7900

PERMITTING:
305 East Drive
Melbourne, Florida 32904
407/984-4940
TDD 407/722-5368

OPERATIONS:
2133 N. Wickham Road
Melbourne, Florida 32935-8109
407/254-1762
TDD 407/253-1203

APR 03 1995
ELORIDA DISTRICT

MARCH 7, 1995

JACKSONVILLE SUBURBAN UTILITIES CORPORATION
ATTN: PHILIP HEIL
1400 MILLCOE ROAD
JACKSONVILLE, FL 32225

SUBJECT: CONSUMPTIVE USE PERMIT NO. 2-031-0028NMR

ENCLOSED IS YOUR PERMIT AND THE FORMS NECESSARY FOR SUBMITTING INFORMATION TO COMPLY WITH CONDITIONS OF THE PERMIT AS AUTHORIZED BY THE GOVERNING BOARD OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT ON MARCH 7, 1995. ALL COMPLIANCE INFORMATION MUST BE SUBMITTED TO THE DISTRICT'S PALATKA OFFICE, P. O. BOX 1429, PALATKA, FLORIDA 32178-1429.

PERMIT ISSUANCE DOES NOT RELIEVE YOU FROM THE RESPONSIBILITY OF OBTAINING PERMITS FROM ANY FEDERAL, STATE, AND/OR LOCAL AGENCIES ASSERTING CONCURRENT JURISDICTION FOR THIS WORK. THE ENCLOSED PERMIT WILL EXPIRE ON MARCH 7, 2002.

IN THE EVENT YOU SELL YOUR PROPERTY, THE PERMIT WILL BE TRANSFERRED TO THE NEW OWNER IF WE ARE NOTIFIED BY YOU WITHIN THIRTY DAYS OF THE RECORDING OF THE SALE. PLEASE ASSIST US IN THIS MATTER SO AS TO MAINTAIN A VALID PERMIT FOR THE NEW PROPERTY OWNER.

THE PERMIT ENCLOSED IS A LEGAL DOCUMENT AND SHOULD BE KEPT WITH YOUR OTHER IMPORTANT DOCUMENTS. PLEASE READ THE PERMIT CAREFULLY SINCE YOU ARE RESPONSIBLE FOR COMPLIANCE WITH ANY PROVISOS WHICH ARE A PART OF THIS PERMIT. PROVISO COMPLIANCE IS A LEGAL REQUIREMENT AND YOUR ASSISTANCE IN THIS MATTER WILL BE GREATLY APPRECIATED.

ACCORDING TO CHAPTER 40C-2.401 AND SECTION 5.4 OF THE CONSUMPTIVE WATER USE HANDBOOK, A PERMANENT TAG WILL BE ISSUED BY THE DISTRICT FOR WELL IDENTIFICATION. THIS TAG IS PROMINENTLY DISPLAYED AT THE SITE OF WITHDRAWAL BY PERMANENTLY AFFIXING THE TAG TO THE PUMP, HEADGATE, VALVE, OR OTHER WITHDRAWAL FACILITY. FAILURE TO DISPLAY

Patricia T. Harden, CHAIRMAN SANFORD
Lenore N. McCullagh, VICE CHAIRMAN ORANGE PARK
Jesse J. Parrish, III, TREASURER TITUSVILLE
William Segal, SECRETARY MAITLAND
Reid Hughes DAYTONA BEACH
Dan Roach FERNANDINA BEACH
Denise M. Prescod JACKSONVILLE
Joe E. Hill LEESBURG
James H. Williams OCALA

A WELL TAG SHALL CONSTITUTE VIOLATION OF A PERMIT CONDITION AND MAY, IF WILLFUL, BE GROUNDS FOR REVOCATION OF THE PERMIT. PLEASE REFER TO YOUR COPY OF 40C-2 IF YOU NEED FURTHER CLARIFICATION.

YOU WILL FIND ENCLOSED A COPY OF THE MAP SUBMITTED WITH YOUR APPLICATION, WITH EACH WELL'S LOCATION AND NUMBER IDENTIFIED. WHEN PLACING THE TAG ON THE WELL, REFER TO THIS MAP TO ENSURE PROPER WELL IDENTIFICATION.

IF YOU HAVE ANY QUESTIONS CONCERNING YOUR PERMIT COMPLIANCE INFORMATION, THE ATTACHED FORMS OR WELL TAGS, CONTACT ME AT 904-329-4274.

THANK YOU FOR YOUR INTEREST IN OUR WATER RESOURCES.

SINCERELY,

Rosie Parker

ROSIE PARKER, DATA CONTROL TECHNICIAN
DIVISION OF PERMIT DATA SERVICES

ENCLOSURES: PERMIT WITH COMPLIANCE FORMS
MAP
WELL TAG(S)

CC: DISTRICT PERMIT FILE

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
POST OFFICE BOX 1429
PALATKA, FLORIDA 32178-1429

PERMIT NO. 2-031-0028MMB DATE ISSUED MARCH 7, 1995

A PERMIT AUTHORIZING:

USE OF GROUND WATER FROM THE FLORIDAN AQUIFER TO SUPPLY AN ESTIMATED RESIDENTIAL POPULATION OF 24,600 PEOPLE IN 7 YEARS WITH WATER FOR HOUSEHOLD USE AND ESSENTIAL USE (FIRE PROTECTION).

LOCATION:

SECTIONS 03 09 10 11 52 & 54,
TOWNSHIPS 01 & 02 SOUTH, RANGE 27 EAST
DUVAL COUNTY
ARLINGTON SYSTEM

ISSUED TO:
(OWNER)

JACKSNVILLE SUBURBAN UTILITIES CORPORATION
1400 MILLCOE ROAD
JACKSONVILLE, FL 32225

PERMITTEE AGREES TO HOLD AND SAVE THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND ITS SUCCESSORS HARMLESS FROM ANY AND ALL DAMAGES, CLAIMS, OR LIABILITIES WHICH MAY ARISE FROM PERMIT ISSUANCE. SAID APPLICATION, INCLUDING ALL PLANS AND SPECIFICATIONS ATTACHED THERETO, IS BY REFERENCE MADE A PART HEREOF.

THIS PERMIT DOES NOT CONVEY TO PERMITTEE ANY PROPERTY RIGHTS NOR ANY RIGHTS OR PRIVILEGES OTHER THAN THOSE SPECIFIED HEREIN, NOR RELIEVE THE PERMITTEE FROM COMPLYING WITH ANY LAW, REGULATION OR REQUIREMENT AFFECTING THE RIGHTS OF OTHER BODIES OR AGENCIES. ALL STRUCTURES AND WORKS INSTALLED BY PERMITTEE HEREUNDER SHALL REMAIN THE PROPERTY OF THE PERMITTEE.

THIS PERMIT MAY BE REVOKED, MODIFIED OR TRANSFERRED AT ANY TIME PURSUANT TO THE APPROPRIATE PROVISIONS OF CHAPTER 373 OR 403, FLORIDA STATUTES AND 40C-1, FLORIDA ADMINISTRATIVE CODES:

PERMIT IS CONDITIONED UPON:

SEE CONDITIONS ON ATTACHED "EXHIBIT A", DATED MARCH 7, 1995

AUTHORIZED BY: ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

DEPARTMENT OF RESOURCE MANAGEMENT . GOVERNING BOARD

BY: _____ BY: _____
(DIRECTOR) (ASSISTANT SECRETARY)
JEFF ELLEDGE HENRY DEAN

EXHIBIT "A"

CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 2-031-0328NMR

JACKSONVILLE SUBURBAN UTILITIES CORPORATION

DATED MARCH 7, 1995

1. DISTRICT AUTHORIZED STAFF, UPON PROPER IDENTIFICATION, WILL HAVE PERMISSION TO ENTER, INSPECT AND OBSERVE PERMITTED AND RELATED FACILITIES IN ORDER TO DETERMINE COMPLIANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND CONDITIONS OF THIS PERMIT.

2. NOTHING IN THIS PERMIT SHOULD BE CONSTRUED TO LIMIT THE AUTHORITY OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT TO DECLARE A WATER SHORTAGE AND ISSUE ORDERS PURSUANT TO SECTION 373.175, FLORIDA STATUTES, OR TO FORMULATE A PLAN FOR IMPLEMENTATION DURING PERIODS OF WATER SHORTAGE, PURSUANT TO SECTION 373.246, FLORIDA STATUTES. IN THE EVENT A WATER SHORTAGE IS DECLARED BY THE DISTRICT GOVERNING BOARD, THE PERMITTEE MUST ADHERE TO THE WATER SHORTAGE RESTRICTION AS SPECIFIED BY THE DISTRICT, EVEN THOUGH THE SPECIFIED WATER SHORTAGE RESTRICTIONS MAY BE INCONSISTENT WITH THE TERMS AND CONDITIONS OF THIS PERMIT.

3. PRIOR TO THE CONSTRUCTION, MODIFICATION, OR ABANDONMENT OF A WELL, THE PERMITTEE MUST OBTAIN A WATER WELL CONSTRUCTION PERMIT FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT OR THE APPROPRIATE LOCAL GOVERNMENT PURSUANT TO CHAPTER 40C-3, FLORIDA ADMINISTRATIVE CODE. CONSTRUCTION, MODIFICATION, OR ABANDONMENT OF A WELL WILL REQUIRE MODIFICATION OF THE CONSUMPTIVE USE PERMIT WHEN SUCH CONSTRUCTION, MODIFICATION OR ABANDONMENT IS OTHER THAN THAT SPECIFIED AND DESCRIBED ON THE CONSUMPTIVE USE PERMIT APPLICATION FORM.

4. LEAKING OR INOPERATIVE WELL CASINGS, VALVES, OR CONTROLS MUST BE REPAIRED OR REPLACED AS REQUIRED TO ELIMINATE THE LEAK OR MAKE THE SYSTEM FULLY OPERATIONAL.

5. LEGAL USES OF WATER EXISTING AT THE TIME OF PERMIT APPLICATION MAY NOT BE SIGNIFICANTLY ADVERSELY IMPACTED BY THE CONSUMPTIVE USE. IF UNANTICIPATED SIGNIFICANT ADVERSE IMPACTS OCCUR, THE DISTRICT SHALL REVOKE THE PERMIT IN WHOLE OR IN PART TO CURTAIL OR ABATE THE ADVERSE IMPACTS, UNLESS THE IMPACTS CAN BE MITIGATED BY THE PERMITTEE.

6. OFF-SITE LAND USES EXISTING AT THE TIME OF PERMIT APPLICATION MAY NOT BE SIGNIFICANTLY ADVERSELY IMPACTED AS A RESULT OF THE CONSUMPTIVE USE. IF UNANTICIPATED SIGNIFICANT ADVERSE IMPACTS OCCUR, THE DISTRICT SHALL REVOKE THE PERMIT IN WHOLE OR IN PART TO CURTAIL OR ABATE THE ADVERSE IMPACTS, UNLESS THE IMPACTS CAN BE MITIGATED BY THE PERMITTEE.

7. THE DISTRICT MUST BE NOTIFIED, IN WRITING, WITHIN 30 DAYS OF ANY SALE, CONVEYANCE, OR OTHER TRANSFER OF A WELL OR FACILITY FROM WHICH THE PERMITTED CONSUMPTIVE USE IS MADE OR WITHIN 30 DAYS OF ANY TRANSFER OF OWNERSHIP OR CONTROL OF THE REAL PROPERTY AT WHICH THE PERMITTED CONSUMPTIVE USE IS LOCATED. ALL TRANSFERS OF OWNERSHIP OR TRANSFERS OF PERMITS ARE SUBJECT TO THE PROVISIONS OF SECTION 40C-1.612.

8. A DISTRICT-ISSUED IDENTIFICATION TAG SHALL BE PROMINENTLY DISPLAYED AT EACH WITHDRAWAL SITE BY PERMANENTLY AFFIXING SUCH TAG TO THE PUMP, HEADGATE, VALVE OR OTHER WITHDRAWAL FACILITY AS PROVIDED BY SECTION 40C-2.401, FLORIDA ADMINISTRATIVE CODE. PERMITTEE SHALL NOTIFY THE DISTRICT IN THE EVENT THAT A REPLACEMENT TAG IS NEEDED.

9. IF THE PERMITTEE DOES NOT SERVE A NEW PROJECTED DEMAND LOCATED WITHIN THE SERVICE AREA UPON WHICH THE ANNUAL ALLOCATION WAS CALCULATED, THE ANNUAL ALLOCATION WILL BE SUBJECT TO MODIFICATION.

10. THE PERMITTEE MUST ENSURE THAT ALL SERVICE CONNECTIONS ARE METERED.

11. TREATED EFFLUENT MUST BE USED AS IRRIGATION WATER WHEN IT BECOMES AVAILABLE, ECONOMICALLY FEASIBLE, AND PERMISSIBLE UNDER APPLICABLE STATE AND FEDERAL STATUTES OR REGULATIONS PROMULGATED THEREUNDER.

12. THIS PERMIT WILL EXPIRE 7 YEARS FROM THE DATE OF ISSUANCE.

13. MAXIMUM ANNUAL GROUNDWATER WITHDRAWALS FOR HOUSEHOLD USE MUST NOT EXCEED:

999.76 MILLION GALLONS IN 1995,
1,028.00 MILLION GALLONS IN 1996,
1,056.91 MILLION GALLONS IN 1997,
1,085.48 MILLION GALLONS IN 1998,
1,114.04 MILLION GALLONS IN 1999,
1,142.61 MILLION GALLONS IN 2000 AND
1,171.39 MILLION GALLONS IN 2001.

14. MAXIMUM DAILY GROUNDWATER WITHDRAWALS FOR HOUSEHOLD USE MUST NOT EXCEED:

5.48 MILLION GALLONS IN 1995,
5.63 MILLION GALLONS IN 1996,
5.79 MILLION GALLONS IN 1997,
5.95 MILLION GALLONS IN 1998,
6.10 MILLION GALLONS IN 1999,
6.26 MILLION GALLONS IN 2000 AND
6.42 MILLION GALLONS IN 2001.

15. MAXIMUM DAILY GROUNDWATER WITHDRAWALS FOR FIRE PROTECTION MUST NOT EXCEED 13.54 MGALS.

WELL NO.S 1 - 6, AS LISTED ON THE APPLICATION, MUST EACH BE EQUIPPED WITH TOTALIZING FLOW METERS. THESE METERS MUST MAINTAIN 95% ACCURACY, BE VERIFIABLE AND BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

17. TOTAL WITHDRAWALS FROM EACH WELL (NO.'S 1 - 6), AS LISTED ON THE APPLICATION, MUST BE RECORDED CONTINUOUSLY, TOTALED MONTHLY, AND REPORTED TO THE DISTRICT BY SEPTEMBER 30 (DATA FROM MARCH TO AUGUST) AND MARCH 31 (DATA FROM SEPTEMBER TO FEBRUARY) OF EACH YEAR FOR PERMIT DURATION USING FORM NO. EN-50. THE INITIAL SUBMITTAL MUST BE MADE BY MARCH 31, 1995.

18. THE PERMITTEE MUST PROPERLY MAINTAIN ALL FLOW METERS. IN CASE OF FAILURE OR BREAKDOWN OF ANY METER, THE DISTRICT MUST BE NOTIFIED IN WRITING WITHIN 5 DAYS OF ITS DISCOVERY. A DEFECTIVE METER MUST BE REPAIRED OR REPLACED WITHIN 30 DAYS OF ITS DISCOVERY.

19. THE PERMITTEE MUST HAVE ALL FLOW METERS CHECKED FOR ACCURACY AT LEAST ONCE EVERY 5 YEARS WITHIN 30 DAYS OF THE ANNIVERSARY DATE OF PERMIT ISSUANCE, AND RECALIBRATED IF THE DIFFERENCE BETWEEN THE ACTUAL FLOW AND THE METER READING IS GREATER THAN 5%. DISTRICT FORM NO. EN-51 MUST BE SUBMITTED TO THE DISTRICT WITHIN 10 DAYS OF THE INSPECTION/CALIBRATION.

20. IN THE EVENT THE PERMITTEE FILES A REQUEST WITH THE FLORIDA PUBLIC SERVICE COMMISSION (FPSC) TO CHANGE THE RATES OR RATE STRUCTURE APPLICABLE TO ITS WATER CUSTOMERS, AS PART OF ITS REQUEST JSU SHALL ALSO PROPOSE A "WATER CONSERVING RATE STRUCTURE". A COPY OF THE PROPOSAL BEING FILED WITH THE FPSC, SHALL SIMULTANEOUSLY BE SUBMITTED TO THE DISTRICT'S OFFICE OF GENERAL COUNSEL, P. O. BOX 1429, PALATKA, FL 32178-1429. THE PERMITTEE AGREES THAT IT WILL NOT OPPOSE A DISTRICT MOTION TO INTERVENE IN A JSU RATE PROCEEDING BEFORE THE FPSC.

21. WATER QUALITY MONITORING

A.) THE PERMITTEE MUST COLLECT SAMPLES FROM EACH WELL QUARTERLY AND HAVE EACH SAMPLE ANALYZED FOR THE FOLLOWING:

CHLORIDES	TOTAL IRON
SULFATES	TOTAL HARDNESS
CALCIUM	MAGNESIUM
FIELD TEMPERATURE	SODIUM
SPECIFIC CONDUCTANCE	POTASSIUM
FIELD PH	CARBONATE - FIELD & LAB
TOTAL DISSOLVED SOLIDS	BI-CARBONATE - TOTALALKALINITY

QUALITY ASSURANCE

PRIOR TO SAMPLE COLLECTION A MINIMUM OF 3-5 CASING VOLUMES (OR MINIMUM 10 MINUTES OF OPERATION) MUST BE REMOVED FROM EACH WELL.

ALL MAJOR ION ANALYSES MUST BE CHECKED FOR ANION-CATION BALANCE AND SHOULD BALANCE WITHIN 5%. IT IS RECOMMENDED THAT DUPLICATES BE TAKEN TO ALLOW FOR LABORATORY ERRORS OR DATA LOSS.

ALL SAMPLING AND WATER QUALITY ANALYSES SHALL BE PERFORMED BY ORGANIZATIONS WITH APPROVED COMPREHENSIVE OR GENERIC QUALITY ASSURANCE PLANS (COMQAPS) ON FILE WITH THE DEPT. OF ENVIRONMENTAL REGULATION OR A LABORATORY HAVING DHRS CERTIFICATION.

A REPORT INCLUDING ALL SAMPLE ANALYSES AND AN EVALUATION OF THE DATA MUST BE SUBMITTED TO THE DISTRICT WITHIN 30 DAYS OF RECEIPT FROM THE LABORATORY.

22. WATER LEVEL MONITORING:

WATER LEVEL MEASUREMENTS (POTENTIOMETRIC LEVELS) MUST BE COLLECTED FROM EACH WELL MONTHLY AT APPROXIMATELY THE SAME TIME EACH MONTH AND SUBMITTED TO THE DISTRICT QUARTERLY ALONG WITH THE REQUIRED WATER QUALITY SAMPLING DATA. THESE MEASUREMENTS MUST BE RECORDED IN FEET WITH RESPECT TO SEA LEVEL.

23. WITHIN ONE YEAR OF PERMIT ISSUANCE AND FOR EACH YEAR UNTIL PERMIT RENEWAL, THE PERMITTEE MUST SUBMIT A REPORT UPDATING THE RESULTS OF THE ANNUAL WATER AUDIT I.E. METER TESTING, LEAK DETECTION AND REPAIR PROGRAM FOR THE POTABLE DISTRIBUTION SYSTEM. IN ADDITION TO THE RESULTS, THE PERMITTEE MUST SUBMIT A DETAILED IMPLEMENTATION SCHEDULE AND PRIORITIZATION SCHEDULE FOR CORRECTIVE ACTIONS DIRECTED AT THE REDUCTION OF UNACCOUNTED FOR WATER LOSSES.

24. WITHIN 30 DAYS OF PERMIT ISSUANCE, THE PERMITTEE SHALL SUBMIT TO THE DISTRICT A COPY OF THE LATEST DRAFT REUSE AGREEMENTS UNDER NEGOTIATION WITH THE BAYMEADOWS AND SAN JOSE COUNTRY CLUBS, AND WITH THE CITY OF JACKSONVILLE. THEREAFTER THE PERMITTEE SHALL SUBMIT QUARTERLY STATUS REPORTS TO THE DISTRICT DETAILING ANY PROGRESS MADE DURING THE PRECEDING THREE MONTHS TOWARDS IMPLEMENTATION OF REUSE WITH THE ENTITIES LISTED ABOVE. THE QUARTERLY REPORTS MUST ALSO INCLUDE A COPY OF THE LATEST DRAFT OF EACH REUSE AGREEMENT BEING NEGOTIATED BETWEEN JSU AND ANY ONE OF THE GOLF COURSES AND THE CITY OF JACKSONVILLE. IF THE PERMITTEE FAILS TO REACH A REUSE AGREEMENT WITH THE CITY OF JACKSONVILLE WITHIN ONE YEAR OF PERMIT ISSUANCE, NEGOTIATION FOR THE PROVISION OF RECLAIMED

WATER TO THE MILL COVE GOLF COURSE SHALL BE INITIATED BY JSU WITHIN 30 DAYS. WITHIN THE SAME 30 DAY PERIOD, AN IMPLEMENTATION PLAN FOR THE MILL COVE GOLF COURSE MUST ALSO BE SUBMITTED TO THE DISTRICT FOR STAFF APPROVAL. IN THE EVENT THAT MILL COVE AGREES TO ACCEPT AND UTILIZE RECLAIMED WATER FROM JSU IN ACCORDANCE WITH TARIFFS APPROVED BY THE FPSC, JSU MUST PROVIDE RECLAIMED WATER TO THE MILL COVE COUNTRY CLUB IN ACCORDANCE WITH THE DISTRICT APPROVED IMPLEMENTATION PLAN, UNLESS THE DISTRICT DETERMINES THAT IT IS NOT FEASIBLE FOR MILL COVE TO ACCEPT RECLAIMED WATER. IN THE EVENT THAT BAYMEADOWS AND SAN JOSE AGREE TO ACCEPT AND UTILIZE RECLAIMED WATER FROM JSU IN ACCORDANCE WITH TARIFFS APPROVED BY THE FPSC, JSU MUST PROVIDE RECLAIMED WATER TO THE BAYMEADOWS AND SAN JOSE GOLF COURSES WITHIN THE DURATION OF THIS PERMIT, UNLESS THE DISTRICT DETERMINES THAT IT IS NOT FEASIBLE FOR THESE ENTITIES TO ACCEPT RECLAIMED WATER.

25. THE PERMITTEE MUST IMPLEMENT THE WATER CONSERVATION PLAN SUBMITTED TO THE DISTRICT ON NOVEMBER 7, 1994 AND ALL SUPPLEMENTS IN ACCORDANCE WITH THE SCHEDULE CONTAINED THEREIN AND/OR AS REFINED IN CONDITIONS OF THIS PERMIT. THE PERMITTEE MUST MAINTAIN A LOG OF THOSE ACTIVITIES COMPLETED AS PART OF THE PLAN. A REPORT, DETAILING THE PROGRESS OF PLAN IMPLEMENTATION, MUST BE SUBMITTED TO THE DISTRICT EVERY TWO YEARS ON THE ANNIVERSARY DATE OF THE PERMIT.

26. IF, AT ANY TIME WITHIN THE PERMIT DURATION, JSUC CONSTRUCTS A WASTEWATER TREATMENT FACILITY IN AN AREA WHICH CURRENTLY DOES NOT HAVE SEWER SERVICE AND IT BECOMES PRACTICAL, ECONOMICALLY FEASIBLE AND PERMISSIBLE UNDER APPLICABLE STATE AND FEDERAL STATUTES OR REGULATIONS PROMULGATED THEREUNDER, THE DISTRICT MAY REQUIRE THE PERMITTEE TO PROVIDE RECLAIMED WATER FOR USE AT A PERMISSIBLE APPLICATION SITE.

27. WITHIN 6 MONTHS OF PERMIT ISSUANCE, THE PERMITTEE MUST HAVE DEVELOPED A WATER USE RECORDING PROCEDURE WITH THE FIRE DEPARTMENT AND/OR ANY OTHER UNMETERED USERS. FLOW OR WATER USE (MGALS) MUST BE RECORDED ANNUALLY AND PROVIDED TO THE DISTRICT UPON PERMIT RENEWAL OR EXPIRATION.

28. SOURCE CLASSIFICATION IS CONFINED OR SEMI-CONFINED AQUIFER.

29. USE CLASSIFICATION IS 92% HOUSEHOLD, 8% WATER UTILITY AND ESSENTIAL (FIRE PROTECTION).

Forest Brook

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

Henry Dean, Executive Director
John R. Wehle, Assistant Executive Director
Charle Myers III, Deputy Assistant Executive Director

POST OFFICE BOX 1429 PALATKA, FLORIDA 32178-1429
TELEPHONE 904/329-4500 SUNCOM 904/860-4500
TDD 904/329-4450 TDD SUNCOM 860-4450
FAX (EXECUTIVE/LEGAL) 329-4125 (PERMITTING) 329-4315 (ADMINISTRATION/FINANCE) 329-4508

FIELD STATIONS

618 E. South Street
Orlando, Florida 32801
407/897-4300
TDD 407/897-5960

7775 Baymeadows Way
Suite 102
Jacksonville, Florida 32256
904/730-6270
TDD 904/730-7900

PERMITTING:
305 East Drive
Melbourne, Florida 32904
407/984-4940
TDD 407/722-5368

OPERATIONS:
2133 N. Wickham Road
Melbourne, Florida 32935-8109
407/254-1762
TDD 407/253-1203

RECEIVED
APR 04 1995
FLORIDA DISTRICT

MARCH 7, 1995

JACKSONVILLE SUBURBAN UTILITIES CORPORATION
ATTN: PHILIP HEIL
1440 MILLCOE ROAD
JACKSONVILLE, FL 32225

SUBJECT: CONSUMPTIVE USE PERMIT NO. 2-031-0040NR

ENCLOSED IS YOUR PERMIT AND THE FORMS NECESSARY FOR SUBMITTING INFORMATION TO COMPLY WITH CONDITIONS OF THE PERMIT AS AUTHORIZED BY THE GOVERNING BOARD OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT ON MARCH 7, 1995. ALL COMPLIANCE INFORMATION MUST BE SUBMITTED TO THE DISTRICT'S PALATKA OFFICE, P. O. BOX 1429, PALATKA, FLORIDA 32178-1429.

PERMIT ISSUANCE DOES NOT RELIEVE YOU FROM THE RESPONSIBILITY OF OBTAINING PERMITS FROM ANY FEDERAL, STATE, AND/OR LOCAL AGENCIES ASSERTING CONCURRENT JURISDICTION FOR THIS WORK. THE ENCLOSED PERMIT WILL EXPIRE ON MARCH 7, 2002.

IN THE EVENT YOU SELL YOUR PROPERTY, THE PERMIT WILL BE TRANSFERRED TO THE NEW OWNER IF WE ARE NOTIFIED BY YOU WITHIN THIRTY DAYS OF THE RECORDING OF THE SALE. PLEASE ASSIST US IN THIS MATTER SO AS TO MAINTAIN A VALID PERMIT FOR THE NEW PROPERTY OWNER.

THE PERMIT ENCLOSED IS A LEGAL DOCUMENT AND SHOULD BE KEPT WITH YOUR OTHER IMPORTANT DOCUMENTS. PLEASE READ THE PERMIT CAREFULLY SINCE YOU ARE RESPONSIBLE FOR COMPLIANCE WITH ANY PROVISOS WHICH ARE A PART OF THIS PERMIT. PROVISO COMPLIANCE IS A LEGAL REQUIREMENT AND YOUR ASSISTANCE IN THIS MATTER WILL BE GREATLY APPRECIATED.

ACCORDING TO CHAPTER 40C-2.401 AND SECTION 6.4 OF THE CONSUMPTIVE WATER USE HANDBOOK, A PERMANENT TAG WILL BE ISSUED BY THE DISTRICT FOR WELL IDENTIFICATION. THIS TAG IS PROMINENTLY DISPLAYED AT THE SITE OF WITHDRAWAL BY PERMANENTLY AFFIXING THE TAG TO THE PUMP, HEADGATE, VALVE, OR OTHER WITHDRAWAL FACILITY. FAILURE TO DISPLAY

Patricia T. Harden, CHAIRMAN SANFORD
Lenore N. McCullagh, VICE CHAIRMAN ORANGE PARK
Jesse J. Parrish, III, TREASURER TITUSVILLE
William Segal, SECRETARY MAITLAND
Reid Hughes DAYTONA BEACH
Dan Roach FERNANDINA BEACH
Denise M. Prescod JACKSONVILLE
Joe E. Hill LEESBURG
James H. Williams OCALA

A WELL TAG SHALL CONSTITUTE VIOLATION OF A PERMIT CONDITION AND MAY, IF WILLFUL, BE GROUNDS FOR REVOCATION OF THE PERMIT. PLEASE REFER TO YOUR COPY OF 40C-2 IF YOU NEED FURTHER CLARIFICATION.

YOU WILL FIND ENCLOSED A COPY OF THE MAP SUBMITTED WITH YOUR APPLICATION, WITH EACH WELL'S LOCATION AND NUMBER IDENTIFIED. WHEN PLACING THE TAG ON THE WELL, REFER TO THIS MAP TO ENSURE PROPER WELL IDENTIFICATION.

IF YOU HAVE ANY QUESTIONS CONCERNING YOUR PERMIT COMPLIANCE INFORMATION, THE ATTACHED FORMS OR WELL TAGS, CONTACT ME AT 904-329-4274.

THANK YOU FOR YOUR INTEREST IN OUR WATER RESOURCES.

SINCERELY,

Rosie Parker

ROSIE PARKER, DATA CONTROL TECHNICIAN
DIVISION OF PERMIT DATA SERVICES

ENCLOSURES: PERMIT WITH COMPLIANCE FORMS
MAP
WELL TAG(S)

CC: DISTRICT PERMIT FILE

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
POST OFFICE BOX 1429
PALATKA, FLORIDA 32178-1429

PERMIT NO. 2-031-0040NB DATE ISSUED MARCH 7, 1995

A PERMIT AUTHORIZING:

USE OF GROUND WATER FROM THE FLORIDAN AQUIFER TO SUPPLY AN ESTIMATED RESIDENTIAL POPULATION OF 550 PEOPLE IN 7 YEARS WITH WATER FOR HOUSEHOLD USE AND ESSENTIAL USE (FIRE PROTECTION).

LOCATION:

SECTION 18, TOWNSHIP 03 SOUTH, RANGE 26 EAST
DUVAL COUNTY
FOREST BROOK

ISSUED TO:
(OWNER)

JACKSNVILLE SUBURBAN UTILITIES CORPORATION
1440 MILLCOE ROAD
JACKSONVILLE, FL 32225

PERMITTEE AGREES TO HOLD AND SAVE THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND ITS SUCCESSORS HARMLESS FROM ANY AND ALL DAMAGES, CLAIMS, OR LIABILITIES WHICH MAY ARISE FROM PERMIT ISSUANCE. SAID APPLICATION, INCLUDING ALL PLANS AND SPECIFICATIONS ATTACHED THERETO, IS BY REFERENCE MADE A PART HEREOF.

THIS PERMIT DOES NOT CONVEY TO PERMITTEE ANY PROPERTY RIGHTS NOR ANY RIGHTS OR PRIVILEGES OTHER THAN THOSE SPECIFIED HEREIN, NOR RELIEVE THE PERMITTEE FROM COMPLYING WITH ANY LAW, REGULATION OR REQUIREMENT AFFECTING THE RIGHTS OF OTHER BODIES OR AGENCIES. ALL STRUCTURES AND WORKS INSTALLED BY PERMITTEE HEREUNDER SHALL REMAIN THE PROPERTY OF THE PERMITTEE.

THIS PERMIT MAY BE REVOKED, MODIFIED OR TRANSFERRED AT ANY TIME PURSUANT TO THE APPROPRIATE PROVISIONS OF CHAPTER 373 OR 403, FLORIDA STATUTES AND 40C-1, FLORIDA ADMINISTRATIVE CODES:

PERMIT IS CONDITIONED UPON:

SEE CONDITIONS ON ATTACHED "EXHIBIT A", DATED MARCH 7, 1995

AUTHORIZED BY: ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

DEPARTMENT OF RESOURCE MANAGEMENT

BY: _____
(DIRECTOR)
JEFF ELLEDGE

GOVERNING BOARD

BY: _____
(ASSISTANT SECRETARY)
HENRY DEAN

"EXHIBIT A"

CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 2-031-0040M

JACKSONVILLE SUBURBAN UTILITIES CORPORATION

DATED MARCH 7, 1995

1. DISTRICT AUTHORIZED STAFF, UPON PROPER IDENTIFICATION, WILL HAVE PERMISSION TO ENTER, INSPECT AND OBSERVE PERMITTED AND RELATED FACILITIES IN ORDER TO DETERMINE COMPLIANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND CONDITIONS OF THIS PERMIT.

2. NOTHING IN THIS PERMIT SHOULD BE CONSTRUED TO LIMIT THE AUTHORITY OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT TO DECLARE A WATER SHORTAGE AND ISSUE ORDERS PURSUANT TO SECTION 373.175, FLORIDA STATUTES, OR TO FORMULATE A PLAN FOR IMPLEMENTATION DURING PERIODS OF WATER SHORTAGE, PURSUANT TO SECTION 373.246, FLORIDA STATUTES. IN THE EVENT A WATER SHORTAGE IS DECLARED BY THE DISTRICT GOVERNING BOARD, THE PERMITTEE MUST ADHERE TO THE WATER SHORTAGE RESTRICTION AS SPECIFIED BY THE DISTRICT, EVEN THOUGH THE SPECIFIED WATER SHORTAGE RESTRICTIONS MAY BE INCONSISTENT WITH THE TERMS AND CONDITIONS OF THIS PERMIT.

3. PRIOR TO THE CONSTRUCTION, MODIFICATION, OR ABANDONMENT OF A WELL, THE PERMITTEE MUST OBTAIN A WATER WELL CONSTRUCTION PERMIT FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT OR THE APPROPRIATE LOCAL GOVERNMENT PURSUANT TO CHAPTER 40C-3, FLORIDA ADMINISTRATIVE CODE. CONSTRUCTION, MODIFICATION, OR ABANDONMENT OF A WELL WILL REQUIRE MODIFICATION OF THE CONSUMPTIVE USE PERMIT WHEN SUCH CONSTRUCTION, MODIFICATION OR ABANDONMENT IS OTHER THAN THAT SPECIFIED AND DESCRIBED ON THE CONSUMPTIVE USE PERMIT APPLICATION FORM.

4. LEAKING OR INOPERATIVE WELL CASINGS, VALVES, OR CONTROLS MUST BE REPAIRED OR REPLACED AS REQUIRED TO ELIMINATE THE LEAK OR MAKE THE SYSTEM FULLY OPERATIONAL.

5. LEGAL USES OF WATER EXISTING AT THE TIME OF PERMIT APPLICATION MAY NOT BE SIGNIFICANTLY ADVERSELY IMPACTED BY THE CONSUMPTIVE USE. IF UNANTICIPATED SIGNIFICANT ADVERSE IMPACTS OCCUR, THE DISTRICT SHALL REVOKE THE PERMIT IN WHOLE OR IN PART TO CURTAIL OR ABATE THE ADVERSE IMPACTS, UNLESS THE IMPACTS CAN BE MITIGATED BY THE PERMITTEE.

6. OFF-SITE LAND USES EXISTING AT THE TIME OF PERMIT APPLICATION MAY NOT BE SIGNIFICANTLY ADVERSELY IMPACTED AS A RESULT OF THE CONSUMPTIVE USE. IF UNANTICIPATED SIGNIFICANT ADVERSE IMPACTS OCCUR, THE DISTRICT SHALL REVOKE THE PERMIT IN WHOLE OR IN PART TO CURTAIL OR ABATE THE ADVERSE IMPACTS, UNLESS THE IMPACTS CAN BE MITIGATED BY THE PERMITTEE.

7. THE DISTRICT MUST BE NOTIFIED, IN WRITING, WITHIN 30 DAYS OF ANY SALE, CONVEYANCE, OR OTHER TRANSFER OF A WELL OR FACILITY FROM WHICH THE PERMITTED CONSUMPTIVE USE IS MADE OR WITHIN 30 DAYS OF ANY TRANSFER OF OWNERSHIP OR CONTROL OF THE REAL PROPERTY AT WHICH THE PERMITTED CONSUMPTIVE USE IS LOCATED. ALL TRANSFERS OF OWNERSHIP OR TRANSFERS OF PERMITS ARE SUBJECT TO THE PROVISIONS OF SECTION 40C-1.612.

8. A DISTRICT-ISSUED IDENTIFICATION TAG SHALL BE PROMINENTLY DISPLAYED AT EACH WITHDRAWAL SITE BY PERMANENTLY AFFIXING SUCH TAG TO THE PUMP, HEADGATE, VALVE OR OTHER WITHDRAWAL FACILITY AS PROVIDED BY SECTION 40C-2.401, FLORIDA ADMINISTRATIVE CODE. PERMITTEE SHALL NOTIFY THE DISTRICT IN THE EVENT THAT A REPLACEMENT TAG IS NEEDED.

9. IF THE PERMITTEE DOES NOT SERVE A NEW PROJECTED DEMAND LOCATED WITHIN THE SERVICE AREA UPON WHICH THE ANNUAL ALLOCATION WAS CALCULATED, THE ANNUAL ALLOCATION WILL BE SUBJECT TO MODIFICATION.

10. THE PERMITTEE MUST ENSURE THAT ALL SERVICE CONNECTIONS ARE METERED.

11. TREATED EFFLUENT MUST BE USED AS IRRIGATION WATER WHEN IT BECOMES AVAILABLE, ECONOMICALLY FEASIBLE, AND PERMISSIBLE UNDER APPLICABLE STATE AND FEDERAL STATUTES OR REGULATIONS PROMULGATED THEREUNDER.

12. THIS PERMIT WILL EXPIRE 7 YEARS FROM THE DATE OF ISSUANCE.

13. MAXIMUM ANNUAL GROUNDWATER WITHDRAWALS FOR HOUSEHOLD USE MUST NOT EXCEED 22.55 MILLION GALLONS FROM 1995 THROUGH 2001.

14. MAXIMUM DAILY GROUNDWATER WITHDRAWALS FOR HOUSEHOLD USE MUST NOT EXCEED .10 MILLION GALLONS FROM 1995 THROUGH 2001.

15. MAXIMUM DAILY GROUNDWATER WITHDRAWALS FOR FIRE PROTECTION MUST NOT EXCEED .55 MGALS.

16. WELL NO. 1, AS LISTED ON THE APPLICATION, MUST BE EQUIPPED WITH A TOTALIZING FLOW METER. THIS METER MUST MAINTAIN 95% ACCURACY, BE VERIFIABLE AND BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

17. TOTAL WITHDRAWALS FROM WELL NO. 1, AS LISTED ON THE APPLICATION, MUST BE RECORDED CONTINUOUSLY, TOTALED MONTHLY, AND REPORTED TO THE DISTRICT BY SEPTEMBER 30 (DATA FROM MARCH TO AUGUST) AND MARCH 31 (DATA FROM SEPTEMBER TO FEBRUARY) OF EACH YEAR FOR PERMIT DURATION USING FORM NO. EN-50. THE INITIAL SUBMITTAL MUST BE MADE BY MARCH 31, 1995.

18. THE PERMITTEE MUST PROPERLY MAINTAIN THE FLOW METER. IN CASE OF FAILURE OR BREAKDOWN OF THE METER, THE DISTRICT MUST BE NOTIFIED IN WRITING WITHIN 5 DAYS OF ITS DISCOVERY. A DEFECTIVE METER MUST BE REPAIRED OR REPLACED WITHIN 30 DAYS OF ITS DISCOVERY.

19. THE PERMITTEE MUST HAVE THE FLOW METER CHECKED FOR ACCURACY AT LEAST ONCE EVERY 5 YEARS WITHIN 30 DAYS OF THE ANNIVERSARY DATE OF PERMIT ISSUANCE, AND RECALIBRATED IF THE DIFFERENCE BETWEEN THE ACTUAL FLOW AND THE METER READING IS GREATER THAN 5%. DISTRICT FORM NO. EN-51 MUST BE SUBMITTED TO THE DISTRICT WITHIN 10 DAYS OF THE INSPECTION/CALIBRATION.

20. IN THE EVENT THE PERMITTEE FILES A REQUEST WITH THE FLORIDA PUBLIC SERVICE COMMISSION (FPSC) TO CHANGE THE RATES OR RATE STRUCTURE APPLICABLE TO ITS WATER CUSTOMERS, AS PART OF ITS REQUEST JSU SHALL ALSO PROPOSE A "WATER CONSERVING RATE STRUCTURE". A COPY OF THE PROPOSAL BEING FILED WITH THE FPSC, SHALL SIMULTANEOUSLY BE SUBMITTED TO THE DISTRICT'S OFFICE OF GENERAL COUNSEL, P. O. BOX 1429, PALATKA, FL 32178-1429. THE PERMITTEE AGREES THAT IT WILL NOT OPPOSE A DISTRICT MOTION TO INTERVENE IN A JSU RATE PROCEEDING BEFORE THE FPSC.

21. WATER QUALITY MONITORING

A.) PERMITTEE MUST COLLECT SAMPLES FROM EACH WELL QUARTERLY AND HAVE EACH SAMPLE ANALYZED FOR THE FOLLOWING:

CHLORIDES	TOTAL IRON
SULFATES	TOTAL HARDNESS
CALCIUM	MAGNESIUM
FIELD TEMPERATURE	SODIUM
SPECIFIC CONDUCTANCE	POTASSIUM
FIELD PH	CARBONATE - FIELD & LA
TOTAL DISSOLVED SOLIDS	BI-CARBONATES - TOTAL

QUALITY ASSURANCE

PRIOR TO SAMPLE COLLECTION A MINIMUM OF 3-5 CASING VOLUMES (OR A MINIMUM OF TEN MINUTES OF OPERATION) MUST BE REMOVED FROM EACH WELL.

ALL MAJOR ION ANALYSES MUST BE CHECKED FOR ANION-CATION BALANCE AND MUST BALANCE WITHIN 5%. IT IS RECOMMENDED THAT DUPLICATES BE TAKEN TO ALLOW FOR LABORATORY ERRORS OR DATA LOSS.

ALL SAMPLING AND WATER QUALITY ANALYSIS SHALL BE PERFORMED BY ORGANIZATIONS WITH APPROVED COMPREHENSIVE OR GENERIC QUALITY ASSURANCE PLANS (COMQAPS) ON FILE WITH THE DEPT. OF ENVIRONMENTAL REGULATION OR A LABORATORY HAVING DHRS CERTIFICATION.

A REPORT INCLUDING ALL SAMPLE ANALYSIS AND AN EVALUATION OF THE DATA MUST BE SUBMITTED TO THE DISTRICT WITHIN 30 DAYS OF RECEIPT FROM THE LABORATORY.

22. WATER LEVEL MONITORING:

WATER LEVEL MEASUREMENTS (POTENTIOMETRIC LEVELS) MUST BE COLLECTED FROM EACH WELL MONTHLY AT THE APPROXIMATE SAME TIME EACH MONTH AND SUBMITTED TO THE DISTRICT QUARTERLY ALONG WITH THE REQUIRED WATER QUALITY SAMPLING DATA. THESE MEASUREMENTS MUST BE RECORDED IN FEET WITH RESPECT TO SEA LEVEL.

23. WITHIN ONE YEAR OF PERMIT ISSUANCE AND FOR EACH YEAR UNTIL PERMIT RENEWAL, PERMITTEE MUST SUBMIT A REPORT UPDATING THE RESULTS OF THE ANNUAL WATER AUDIT I.E. METER TESTING, LEAK DETECTION AND REPAIR PROGRAM FOR THE POTABLE DISTRIBUTION SYSTEM. IN ADDITION TO THE RESULTS, THE PERMITTEE MUST SUBMIT A DETAILED IMPLEMENTATION SCHEDULE AND PRIORITIZATION SCHEDULE FOR CORRECTIVE ACTIONS DIRECTED AT THE REDUCTION OF UNACCOUNTED FOR WATER LOSSES.

24. WITHIN 30 DAYS OF PERMIT ISSUANCE, THE PERMITTEE SHALL SUBMIT TO THE DISTRICT A COPY OF THE LATEST DRAFT REUSE AGREEMENTS UNDER NEGOTIATION WITH THE BAYMEADOWS AND SAN JOSE COUNTRY CLUBS, AND WITH THE CITY OF JACKSONVILLE. THEREAFTER THE PERMITTEE SHALL SUBMIT QUARTERLY STATUS REPORTS TO THE DISTRICT DETAILING ANY PROGRESS MADE DURING THE PRECEDING THREE MONTHS TOWARDS IMPLEMENTATION OF REUSE WITH THE ENTITIES LISTED ABOVE. THE QUARTERLY REPORTS MUST ALSO INCLUDE A COPY OF THE LATEST DRAFT OF EACH REUSE AGREEMENT BEING NEGOTIATED BETWEEN JSU AND ANY ONE OF THE GOLF COURSES AND THE CITY OF JACKSONVILLE. IF THE PERMITTEE FAILS TO REACH A REUSE AGREEMENT WITH THE CITY OF JACKSONVILLE WITHIN ONE YEAR OF PERMIT ISSUANCE, NEGOTIATION FOR THE PROVISION OF RECLAIMED WATER TO THE MILL COVE GOLF COURSE SHALL BE INITIATED BY JSU WITHIN 30 DAYS. WITHIN THE SAME 30 DAY PERIOD, AN IMPLEMENTATION PLAN FOR THE MILL COVE GOLF COURSE MUST ALSO BE SUBMITTED TO THE DISTRICT FOR STAFF APPROVAL. IN THE EVENT THAT MILL COVE AGREES TO ACCEPT AND UTILIZE RECLAIMED WATER FROM JSU IN ACCORDANCE WITH TARIFFS APPROVED BY THE FPSC, JSU MUST PROVIDE RECLAIMED WATER TO THE MILL COVE COUNTRY CLUB IN ACCORDANCE WITH THE DISTRICT APPROVED IMPLEMENTATION PLAN, UNLESS THE DISTRICT DETERMINES THAT IT IS NOT FEASIBLE FOR MILL COVE TO ACCEPT RECLAIMED WATER. IN THE EVENT THAT BAYMEADOWS AND SAN JOSE COUNTRY CLUBS AGREE TO ACCEPT AND UTILIZE RECLAIMED WATER FROM JSU IN ACCORDANCE WITH TARIFFS APPROVED BY THE FPSC, JSU MUST PROVIDE RECLAIMED WATER TO THE BAYMEADOWS AND SAN JOSE GOLF COURSES WITHIN THE DURATION OF THIS PERMIT, UNLESS THE DISTRICT DETERMINES THAT IT IS NOT FEASIBLE FOR THESE ENTITIES TO ACCEPT RECLAIMED WATER.

25. THE PERMITTEE MUST IMPLEMENT THE WATER CONSERVATION PLAN SUBMITTED TO THE DISTRICT ON NOVEMBER 7, 1994 AND ALL SUPPLEMENTS IN ACCORDANCE WITH THE SCHEDULE CONTAINED THEREIN AND/OR AS REFINED IN CONDITIONS OF THIS PERMIT. THE PERMITTEE MUST MAINTAIN A LOG OF THOSE ACTIVITIES COMPLETED AS PART OF THE PLAN. A REPORT, DETAILING THE PROGRESS OF PLAN IMPLEMENTATION, MUST BE SUBMITTED TO THE DISTRICT EVERY 2 YEARS ON THE ANNIVERSARY DATE OF THE PERMIT.

26. IF, AT ANY TIME WITHIN THE PERMIT DURATION JSUC CONSTRUCTS A WASTEWATER TREATMENT FACILITY IN AN AREA WHICH CURRENTLY DOES NOT HAVE SEWER SERVICE AND IT BECOMES PRACTICAL, ECONOMICALLY FEASIBLE AND PERMISSIBLE UNDER APPLICABLE STATE AND FEDERAL STATUTES OR REGULATIONS PROMULGATED THEREUNDER, THE DISTRICT MAY REQUIRE THE PERMITTEE TO PROVIDE RECLAIMED WATER FOR USE AT A PERMISSIBLE APPLICATION SITE.

27. WITHIN 6 MONTHS OF PERMIT ISSUANCE, THE PERMITTEE MUST HAVE DEVELOPED A WATER USE RECORDING PROCEDURE WITH THE FIRE DEPARTMENT AND/OR ANY OTHER UNMETERED USERS. FLOW OR WATER USE (MGALS) MUST BE RECORDED ANNUALLY AND PROVIDED TO THE DISTRICT UPON PERMIT RENEWAL OR EXPIRATION.

28. SOURCE CLASSIFICATION IS CONFINED OR SEMI-CONFINED AQUIFER.

29. USE CLASSIFICATION IS 80% HOUSEHOLD, 20% WATER UTILITY AND ESSENTIAL (FIRE PROTECTION).

Holly Oaks

WATER MANAGEMENT DISTRICT

Henry Dean, Executive Director
John R. Wehle, Assistant Executive Director
Charles T. ...ers III, Deputy Assistant Executive Director

POST OFFICE BOX 1429 PALATKA, FLORIDA 32178-1429
TELEPHONE 904/329-4500 SUNCOM 904/860-4500
TDD 904/329-4450 TDD SUNCOM 860-4450
FAX (EXECUTIVE/LEGAL) 329-4125 (PERMITTING) 329-4315 (ADMINISTRATION/FINANCE) 329-4508

FIELD STATIONS

618 E. South Street
Orlando, Florida 32801
407/897-4300
TDD 407/897-5960

7775 Baymeadows Way
Suite 102
Jacksonville, Florida 32256
904/730-6270
TDD 904/730-7900

PERMITTING:
305 East Drive
Melbourne, Florida 32904
407/984-4940
TDD 407/722-5368

OPERATIONS:
2133 N. Wickham Road
Melbourne, Florida 32935-6109
407/254-1762
TDD 407/253-1203

MARCH 7, 1995

RECEIVED
APR 04 1995
FLORIDA DISTRICT

HOLLY OAKS

JACKSONVILLE SUBURBAN UTILITIES CORPORATION
ATTN: PHILIP HEIL
1440 MILLCOE ROAD
JACKSONVILLE, FL 32225

SUBJECT: CONSUMPTIVE USE PERMIT NO. 2-031-0015NMR

ENCLOSED IS YOUR PERMIT AND THE FORMS NECESSARY FOR SUBMITTING INFORMATION TO COMPLY WITH CONDITIONS OF THE PERMIT AS AUTHORIZED BY THE GOVERNING BOARD OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT ON MARCH 7, 1995. ALL COMPLIANCE INFORMATION MUST BE SUBMITTED TO THE DISTRICT'S PALATKA OFFICE, P. O. BOX 1429, PALATKA, FLORIDA 32178-1429.

PERMIT ISSUANCE DOES NOT RELIEVE YOU FROM THE RESPONSIBILITY OF OBTAINING PERMITS FROM ANY FEDERAL, STATE, AND/OR LOCAL AGENCIES ASSERTING CONCURRENT JURISDICTION FOR THIS WORK. THE ENCLOSED PERMIT WILL EXPIRE ON MARCH 7, 2002.

IN THE EVENT YOU SELL YOUR PROPERTY, THE PERMIT WILL BE TRANSFERRED TO THE NEW OWNER IF WE ARE NOTIFIED BY YOU WITHIN THIRTY DAYS OF THE RECORDING OF THE SALE. PLEASE ASSIST US IN THIS MATTER SO AS TO MAINTAIN A VALID PERMIT FOR THE NEW PROPERTY OWNER.

THE PERMIT ENCLOSED IS A LEGAL DOCUMENT AND SHOULD BE KEPT WITH YOUR OTHER IMPORTANT DOCUMENTS. PLEASE READ THE PERMIT CAREFULLY SINCE YOU ARE RESPONSIBLE FOR COMPLIANCE WITH ANY PROVISOS WHICH ARE A PART OF THIS PERMIT. PROVISO COMPLIANCE IS A LEGAL REQUIREMENT AND YOUR ASSISTANCE IN THIS MATTER WILL BE GREATLY APPRECIATED.

ACCORDING TO CHAPTER 40C-2.401 AND SECTION 6.4 OF THE CONSUMPTIVE WATER USE HANDBOOK, A PERMANENT TAG WILL BE ISSUED BY THE DISTRICT FOR WELL IDENTIFICATION. THIS TAG IS PROMINENTLY DISPLAYED AT THE SITE OF WITHDRAWAL BY PERMANENTLY AFFIXING THE TAG TO THE PUMP, HEADGATE, VALVE, OR OTHER WITHDRAWAL FACILITY. FAILURE TO DISPLAY

Patricia T. Harden, CHAIRMAN SANFORD
Lenore N. McCullagh, VICE CHAIRMAN ORANGE PARK
Jesse J. Parrish, III, TREASURER TITUSVILLE
William Segal, SECRETARY MAITLAND
Reid Hughes DAYTONA BEACH
Dan Roach FERNANDINA BEACH
Denise M. Prescod JACKSONVILLE
Joe E. Hill LEESBURG
James H. Williams OCALA

A WELL TAG SHALL CONSTITUTE VIOLATION OF A PERMIT CONDITION AND MAY, IF WILLFUL, BE GROUNDS FOR REVOCATION OF THE PERMIT. PLEASE REFER TO YOUR COPY OF 40C-2 IF YOU NEED FURTHER CLARIFICATION.

YOU WILL FIND ENCLOSED A COPY OF THE MAP SUBMITTED WITH YOUR APPLICATION, WITH EACH WELL'S LOCATION AND NUMBER IDENTIFIED. WHEN PLACING THE TAG ON THE WELL, REFER TO THIS MAP TO ENSURE PROPER WELL IDENTIFICATION.

IF YOU HAVE ANY QUESTIONS CONCERNING YOUR PERMIT COMPLIANCE INFORMATION, THE ATTACHED FORMS OR WELL TAGS, CONTACT ME AT 904-329-4274.

THANK YOU FOR YOUR INTEREST IN OUR WATER RESOURCES.

SINCERELY,

Rosie Parker

ROSIE PARKER, DATA CONTROL TECHNICIAN
DIVISION OF PERMIT DATA SERVICES

ENCLOSURES: PERMIT WITH COMPLIANCE FORMS
MAP
WELL TAG(S)

CC: DISTRICT PERMIT FILE

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
POST OFFICE BOX 1429
PALATKA, FLORIDA 32178-1429

PERMIT NO. 2-031-0015MMS DATE ISSUED MARCH 7, 1995

A PERMIT AUTHORIZING:

USE OF GROUND WATER FROM THE FLORIDAN AQUIFER TO SUPPLY AN ESTIMATED RESIDENTIAL POPULATION OF 10,090 PEOPLE IN 7 YEARS WITH WATER FOR HOUSEHOLD USE AND ESSENTIAL USE (FIRE PROTECTION).

LOCATION:

SECTIONS 06 07 18, TOWNSHIP 02 SOUTH, RANGE 28 EAST
DUVAL COUNTY
HOLLY OAKS SERVICE AREA

ISSUED TO:
(OWNER)

JACKSNVILLE SUBURBAN UTILITIES CORPORATION
1440 MILLCOE ROAD
JACKSONVILLE, FL 32225

PERMITTEE AGREES TO HOLD AND SAVE THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND ITS SUCCESSORS HARMLESS FROM ANY AND ALL DAMAGES, CLAIMS, OR LIABILITIES WHICH MAY ARISE FROM PERMIT ISSUANCE. SAID APPLICATION, INCLUDING ALL PLANS AND SPECIFICATIONS ATTACHED THERETO, IS BY REFERENCE MADE A PART HEREOF.

THIS PERMIT DOES NOT CONVEY TO PERMITTEE ANY PROPERTY RIGHTS NOR ANY RIGHTS OR PRIVILEGES OTHER THAN THOSE SPECIFIED HEREIN, NOR RELIEVE THE PERMITTEE FROM COMPLYING WITH ANY LAW, REGULATION OR REQUIREMENT AFFECTING THE RIGHTS OF OTHER BODIES OR AGENCIES. ALL STRUCTURES AND WORKS INSTALLED BY PERMITTEE HEREUNDER SHALL REMAIN THE PROPERTY OF THE PERMITTEE.

THIS PERMIT MAY BE REVOKED, MODIFIED OR TRANSFERRED AT ANY TIME PURSUANT TO THE APPROPRIATE PROVISIONS OF CHAPTER 373 OR 403, FLORIDA STATUTES AND 40C-1, FLORIDA ADMINISTRATIVE CODES:

PERMIT IS CONDITIONED UPON:

SEE CONDITIONS ON ATTACHED "EXHIBIT A", DATED MARCH 7, 1995

AUTHORIZED BY: ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

DEPARTMENT OF RESOURCE MANAGEMENT

BY: _____
(DIRECTOR)
JEFF ELLEDGE

GOVERNING BOARD

BY: _____
(ASSISTANT SECRETARY)
HENRY DEAN

"EXHIBIT A"

CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 2-031-0015NMR

JACKSONVILLE SUBURBAN UTILITIES CORPORATION

DATED MARCH 7, 1995

1. DISTRICT AUTHORIZED STAFF, UPON PROPER IDENTIFICATION, WILL HAVE PERMISSION TO ENTER, INSPECT AND OBSERVE PERMITTED AND RELATED FACILITIES IN ORDER TO DETERMINE COMPLIANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND CONDITIONS OF THIS PERMIT.

2. NOTHING IN THIS PERMIT SHOULD BE CONSTRUED TO LIMIT THE AUTHORITY OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT TO DECLARE A WATER SHORTAGE AND ISSUE ORDERS PURSUANT TO SECTION 373.175, FLORIDA STATUTES, OR TO FORMULATE A PLAN FOR IMPLEMENTATION DURING PERIODS OF WATER SHORTAGE, PURSUANT TO SECTION 373.246, FLORIDA STATUTES. IN THE EVENT A WATER SHORTAGE IS DECLARED BY THE DISTRICT GOVERNING BOARD, THE PERMITTEE MUST ADHERE TO THE WATER SHORTAGE RESTRICTION AS SPECIFIED BY THE DISTRICT, EVEN THOUGH THE SPECIFIED WATER SHORTAGE RESTRICTIONS MAY BE INCONSISTENT WITH THE TERMS AND CONDITIONS OF THIS PERMIT.

3. PRIOR TO THE CONSTRUCTION, MODIFICATION, OR ABANDONMENT OF A WELL, THE PERMITTEE MUST OBTAIN A WATER WELL CONSTRUCTION PERMIT FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT OR THE APPROPRIATE LOCAL GOVERNMENT PURSUANT TO CHAPTER 40C-3, FLORIDA ADMINISTRATIVE CODE. CONSTRUCTION, MODIFICATION, OR ABANDONMENT OF A WELL WILL REQUIRE MODIFICATION OF THE CONSUMPTIVE USE PERMIT WHEN SUCH CONSTRUCTION, MODIFICATION OR ABANDONMENT IS OTHER THAN THAT SPECIFIED AND DESCRIBED ON THE CONSUMPTIVE USE PERMIT APPLICATION FORM.

4. LEAKING OR INOPERATIVE WELL CASINGS, VALVES, OR CONTROLS MUST BE REPAIRED OR REPLACED AS REQUIRED TO ELIMINATE THE LEAK OR MAKE THE SYSTEM FULLY OPERATIONAL.

5. LEGAL USES OF WATER EXISTING AT THE TIME OF PERMIT APPLICATION MAY NOT BE SIGNIFICANTLY ADVERSELY IMPACTED BY THE CONSUMPTIVE USE. IF UNANTICIPATED SIGNIFICANT ADVERSE IMPACTS OCCUR, THE DISTRICT SHALL REVOKE THE PERMIT IN WHOLE OR IN PART TO CURTAIL OR ABATE THE ADVERSE IMPACTS, UNLESS THE IMPACTS CAN BE MITIGATED BY THE PERMITTEE.

6. OFF-SITE LAND USES EXISTING AT THE TIME OF PERMIT APPLICATION MAY NOT BE SIGNIFICANTLY ADVERSELY IMPACTED AS A RESULT OF THE CONSUMPTIVE USE. IF UNANTICIPATED SIGNIFICANT ADVERSE IMPACTS OCCUR, THE DISTRICT SHALL REVOKE THE PERMIT IN WHOLE OR IN PART TO CURTAIL OR ABATE THE ADVERSE IMPACTS, UNLESS THE IMPACTS CAN BE MITIGATED BY THE PERMITTEE.

7. THE DISTRICT MUST BE NOTIFIED, IN WRITING, WITHIN 30 DAYS OF ANY SALE, CONVEYANCE, OR OTHER TRANSFER OF A WELL OR FACILITY FROM WHICH THE PERMITTED CONSUMPTIVE USE IS MADE OR WITHIN 30 DAYS OF ANY TRANSFER OF OWNERSHIP OR CONTROL OF THE REAL PROPERTY AT WHICH THE PERMITTED CONSUMPTIVE USE IS LOCATED. ALL TRANSFERS OF OWNERSHIP OR TRANSFERS OF PERMITS ARE SUBJECT TO THE PROVISIONS OF SECTION 40C-1.612.

8. A DISTRICT-ISSUED IDENTIFICATION TAG SHALL BE PROMINENTLY DISPLAYED AT EACH WITHDRAWAL SITE BY PERMANENTLY AFFIXING SUCH TAG TO THE PUMP, HEADGATE, VALVE OR OTHER WITHDRAWAL FACILITY AS PROVIDED BY SECTION 40C-2.401, FLORIDA ADMINISTRATIVE CODE. PERMITTEE SHALL NOTIFY THE DISTRICT IN THE EVENT THAT A REPLACEMENT TAG IS NEEDED.

9. IF THE PERMITTEE DOES NOT SERVE A NEW PROJECTED DEMAND LOCATED WITHIN THE SERVICE AREA UPON WHICH THE ANNUAL ALLOCATION WAS CALCULATED, THE ANNUAL ALLOCATION WILL BE SUBJECT TO MODIFICATION.

10. THE PERMITTEE MUST ENSURE THAT ALL SERVICE CONNECTIONS ARE METERED.

11. TREATED EFFLUENT MUST BE USED AS IRRIGATION WATER WHEN IT BECOMES AVAILABLE, ECONOMICALLY FEASIBLE, AND PERMISSIBLE UNDER APPLICABLE STATE AND FEDERAL STATUTES OR REGULATIONS PROMULGATED THEREUNDER.

12. THIS PERMIT WILL EXPIRE 7 YEARS FROM THE DATE OF ISSUANCE.

13. MAXIMUM ANNUAL GROUNDWATER WITHDRAWALS FOR HOUSEHOLD USE MUST NOT EXCEED

    479.01 MILLION GALLONS IN 1995,
    482.95 MILLION GALLONS IN 1996,
    486.23 MILLION GALLONS IN 1997,
    489.56 MILLION GALLONS IN 1998,
    492.82 MILLION GALLONS IN 1999,
    496.20 MILLION GALLONS IN 2000 AND
    499.51 MILLION GALLONS IN 2001.

14. MAXIMUM DAILY GROUNDWATER WITHDRAWALS FOR HOUSEHOLD USE MUST NOT EXCEED

    2.84 MILLION GALLONS IN 1995,
    2.85 MILLION GALLONS IN 1996,
    2.88 MILLION GALLONS IN 1997,
    2.90 MILLION GALLONS IN 1998,
    2.92 MILLION GALLONS IN 1999,
    2.94 MILLION GALLONS IN 2000 AND
    2.96 MILLION GALLONS IN 2001.

15. MAXIMUM DAILY GROUNDWATER WITHDRAWALS FOR FIRE PROTECTION MUST NOT EXCEED 1.01 MGALS.

WELL AS LISTED ON THE APPLICATION, MUST BE EQUIPPED WITH A TOTALIZING FLOW METER. THESE METERS MUST MAINTAIN 95% ACCURACY, BE VERIFIABLE AND BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

17. TOTAL WITHDRAWALS FROM WELL NO.'S 1, 2 AND 3 (HOLLY OAKS, QUEEN AKERS AND MONUMENT RD.), AS LISTED ON THE APPLICATION, MUST BE RECORDED CONTINUOUSLY, TOTALED MONTHLY, AND REPORTED TO THE DISTRICT BY SEPTEMBER 30 (DATA FROM MARCH TO AUGUST) AND MARCH 31 (DATA FROM SEPTEMBER TO FEBRUARY) OF EACH YEAR FOR PERMIT DURATION USING FORM NO. EN-50. THE INITIAL SUBMITTAL MUST BE MADE BY MARCH 31, 1995.

18. THE PERMITTEE MUST PROPERLY MAINTAIN THE FLOW METERS. IN CASE OF FAILURE OR BREAKDOWN OF ANY METER, THE DISTRICT MUST BE NOTIFIED IN WRITING WITHIN 5 DAYS OF ITS DISCOVERY. A DEFECTIVE METER MUST BE REPAIRED OR REPLACED WITHIN 30 DAYS OF ITS DISCOVERY.

19. THE PERMITTEE MUST HAVE THE FLOW METERS CHECKED FOR ACCURACY AT LEAST ONCE EVERY 3 YEARS WITHIN 30 DAYS OF THE ANNIVERSARY DATE OF PERMIT ISSUANCE, AND RECALIBRATED IF THE DIFFERENCE BETWEEN THE ACTUAL FLOW AND THE METER READING IS GREATER THAN 5%. DISTRICT FORM NO. EN-51 MUST BE SUBMITTED TO THE DISTRICT WITHIN 10 DAYS OF THE INSPECTION/CALIBRATION.

20. IN THE EVENT THE PERMITTEE FILES A REQUEST WITH THE FLORIDA PUBLIC SERVICE COMMISSION (FPSC) TO CHANGE THE RATES OR RATE STRUCTURE APPLICABLE TO ITS WATER CUSTOMERS, AS PART OF ITS REQUEST JSU SHALL ALSO PROPOSE A "WATER CONSERVING RATE STRUCTURE". A COPY OF THE PROPOSAL BEING FILED WITH THE FPSC, SHALL SIMULTANEOUSLY BE SUBMITTED TO THE DISTRICT'S OFFICE OF GENERAL COUNSEL, P. O. BOX 1429, PALATKA, FL 32178-1429. THE PERMITTEE AGREES THAT IT WILL NOT OPPOSE A DISTRICT MOTION TO INTERVENE IN A JSU RATE PROCEEDING BEFORE THE FPSC.

21. WATER QUALITY MONITORING

A.) PERMITTEE MUST COLLECT SAMPLES FROM EACH WELL QUARTERLY AND HAVE EACH SAMPLE ANALYZED FOR THE FOLLOWING:

CHLORIDES	TOTAL IRON
SULFATES	TOTAL HARDNESS
CALCIUM	MAGNESIUM
FIELD TEMPERATURE	SODIUM
SPECIFIC CONDUCTANCE	POTASSIUM
FIELD PH	CARBONATE - FIELD & LAB
TOTAL DISSOLVED SOLIDS	BI-CARBONATES - TOTAL

QUALITY ASSURANCE

PRIOR TO SAMPLE COLLECTION A MINIMUM OF 3-5 CASING VOLUMES (OR A MINIMUM OF TEN MINUTES OF OPERATION) MUST BE REMOVED FROM EACH WELL.

ALL MAJOR ION ANALYSES MUST BE CHECKED FOR ANION-CATION BALANCE AND MUST BALANCE WITHIN 5%. IT IS RECOMMENDED THAT DUPLICATES BE TAKEN TO ALLOW FOR LABORATORY ERRORS OR DATA LOSS.

ALL SAMPLING AND WATER QUALITY ANALYSIS SHALL BE PERFORMED BY ORGANIZATIONS WITH APPROVED COMPREHENSIVE OR GENERIC QUALITY ASSURANCE PLANS (COMQAPS) ON FILE WITH THE DEPT. OF ENVIRONMENTAL REGULATION OR A LABORATORY HAVING DHRS CERTIFICATION.

A REPORT INCLUDING ALL SAMPLE ANALYSIS AND AN EVALUATION OF THE DATA MUST BE SUBMITTED TO THE DISTRICT WITHIN 30 DAYS OF RECEIPT FROM THE LABORATORY.

22. WATER LEVEL MONITORING:

WATER LEVEL MEASUREMENTS (POTENTIOMETRIC LEVELS) MUST BE COLLECTED FROM EACH WELL MONTHLY AT THE APPROXIMATE SAME TIME EACH MONTH AND SUBMITTED TO THE DISTRICT QUARTERLY ALONG WITH THE REQUIRED WATER QUALITY SAMPLING DATA. THESE MEASUREMENTS MUST BE RECORDED IN FEET WITH RESPECT TO SEA LEVEL.

23. WITHIN ONE YEAR OF PERMIT ISSUANCE AND FOR EACH YEAR UNTIL PERMIT RENEWAL, PERMITTEE MUST SUBMIT A REPORT UPDATING THE RESULTS OF THE ANNUAL WATER AUDIT I.E. METER TESTING, LEAK DETECTION AND REPAIR PROGRAM FOR THE POTABLE DISTRIBUTION SYSTEM. IN ADDITION TO THE RESULTS, THE PERMITTEE MUST SUBMIT A DETAILED IMPLEMENTATION SCHEDULE AND PRIORITIZATION SCHEDULE FOR CORRECTIVE ACTIONS DIRECTED AT THE REDUCTION OF UNACCOUNTED FOR WATER LOSSES.

24. WITHIN 30 DAYS OF PERMIT ISSUANCE, THE PERMITTEE SHALL SUBMIT TO THE DISTRICT A COPY OF THE LATEST DRAFT REUSE AGREEMENTS UNDER NEGOTIATION WITH THE HAYMEADOWS AND SAN JOSE COUNTRY CLUBS, AND WITH THE CITY OF JACKSONVILLE. THEREAFTER THE PERMITTEE SHALL SUBMIT QUARTERLY STATUS REPORTS TO THE DISTRICT DETAILING ANY PROGRESS MADE DURING THE PRECEDING THREE MONTHS TOWARDS IMPLEMENTATION OF REUSE WITH THE ENTITIES LISTED ABOVE. THE QUARTERLY REPORTS MUST ALSO INCLUDE A COPY OF THE LATEST DRAFT OF EACH REUSE AGREEMENT BEING NEGOTIATED BETWEEN JSU AND ANY ONE OF THE GOLF COURSES AND THE CITY OF JACKSONVILLE. IF THE PERMITTEE FAILS TO REACH A REUSE AGREEMENT WITH THE CITY OF JACKSONVILLE WITHIN ONE YEAR OF

PERMIT ISSUANCE, NEGOTIATION FOR THE PROVISION OF RECLAIMED WATER TO THE MILL COVE GOLF COURSE SHALL BE INITIATED BY JSU WITHIN 30 DAYS. WITHIN THE SAME 30 DAY PERIOD, AN IMPLEMENTATION PLAN FOR THE MILL COVE GOLF COURSE MUST ALSO BE SUBMITTED TO THE DISTRICT FOR STAFF APPROVAL. IN THE EVENT THAT MILL COVE AGREES TO ACCEPT AND UTILIZE RECLAIMED WATER FROM JSU IN ACCORDANCE WITH TARIFFS APPROVED BY THE FPSC, JSU MUST PROVIDE RECLAIMED WATER TO THE MILL COVE COUNTRY CLUB IN ACCORDANCE WITH THE DISTRICT APPROVED IMPLEMENTATION PLAN, UNLESS THE DISTRICT DETERMINES THAT IT IS NOT FEASIBLE FOR MILL COVE TO ACCEPT RECLAIMED WATER. IN THE EVENT THAT BAYMEADOWS AND SAN JOSE COUNTRY CLUBS AGREE TO ACCEPT AND UTILIZE RECLAIMED WATER FROM JSU IN ACCORDANCE WITH TARIFFS APPROVED BY THE FPSC, JSU MUST PROVIDE RECLAIMED WATER TO THE BAYMEADOWS AND SAN JOSE GOLF COURSES WITHIN THE DURATION OF THIS PERMIT, UNLESS THE DISTRICT DETERMINES THAT IT IS NOT FEASIBLE FOR THESE ENTITIES TO ACCEPT RECLAIMED WATER.

25. THE PERMITTEE MUST IMPLEMENT THE WATER CONSERVATION PLAN SUBMITTED TO THE DISTRICT ON NOVEMBER 7, 1994 AND ALL SUPPLEMENTS IN ACCORDANCE WITH THE SCHEDULE CONTAINED THEREIN AND/OR AS REFINED IN CONDITIONS OF THIS PERMIT. THE PERMITTEE MUST MAINTAIN A LOG OF THOSE ACTIVITIES COMPLETED AS PART OF THE PLAN. A REPORT, DETAILING THE PROGRESS OF PLAN IMPLEMENTATION, MUST BE SUBMITTED TO THE DISTRICT EVERY 2 YEARS ON THE ANNIVERSARY DATE OF THE PERMIT.

26. IF, AT ANY TIME WITHIN THE PERMIT DURATION JSUC CONSTRUCTS A WASTEWATER TREATMENT FACILITY IN AN AREA WHICH CURRENTLY DOES NOT HAVE SEWER SERVICE AND IT BECOMES PRACTICAL, ECONOMICALLY FEASIBLE AND PERMISSIBLE UNDER APPLICABLE STATE AND FEDERAL STATUTES OR REGULATIONS PROMULGATED THEREUNDER, THE DISTRICT MAY REQUIRE THE PERMITTEE TO PROVIDE RECLAIMED WATER FOR USE AT A PERMISSIBLE APPLICATION SITE.

27. WITHIN 6 MONTHS OF PERMIT ISSUANCE, THE PERMITTEE MUST HAVE DEVELOPED A WATER USE RECORDING PROCEDURE WITH THE FIRE DEPARTMENT AND/OR ANY OTHER UNMETERED USERS. FLOW OR WATER USE (MGALS) MUST BE RECORDED ANNUALLY AND PROVIDED TO THE DISTRICT UPON PERMIT RENEWAL OR EXPIRATION.

28. SOURCE CLASSIFICATION IS CONFINED OR SEMI-CONFINED AQUIFER.

29. USE CLASSIFICATION IS 87% HOUSEHOLD, 13% WATER UTILITY AND ESSENTIAL (FIRE PROTECTION).

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

Henry Dean, Executive Director
John R. Wehle, Assistant Executive Director
Charles ... ers III, Deputy Assistant Executive Director

POST OFFICE BOX 1429 PALATKA, FLORIDA 32178-1429
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FLORIDA DISTRICT

MARCH 7, 1995

JACKSONVILLE SUBURBAN UTILITIES CORPORATION
ATTN: PHILIP HEIL
1440 MILLCOE ROAD
JACKSONVILLE, FL 32225

SUBJECT: CONSUMPTIVE USE PERMIT NO. 2-031-0035NR

ENCLOSED IS YOUR PERMIT AND THE FORMS NECESSARY FOR SUBMITTING INFORMATION TO COMPLY WITH CONDITIONS OF THE PERMIT AS AUTHORIZED BY THE GOVERNING BOARD OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT ON MARCH 7, 1995. ALL COMPLIANCE INFORMATION MUST BE SUBMITTED TO THE DISTRICT'S PALATKA OFFICE, P. O. BOX 1429, PALATKA, FLORIDA 32178-1429.

PERMIT ISSUANCE DOES NOT RELIEVE YOU FROM THE RESPONSIBILITY OF OBTAINING PERMITS FROM ANY FEDERAL, STATE, AND/OR LOCAL AGENCIES ASSERTING CONCURRENT JURISDICTION FOR THIS WORK. THE ENCLOSED PERMIT WILL EXPIRE ON MARCH 7, 2002.

IN THE EVENT YOU SELL YOUR PROPERTY, THE PERMIT WILL BE TRANSFERRED TO THE NEW OWNER IF WE ARE NOTIFIED BY YOU WITHIN THIRTY DAYS OF THE RECORDING OF THE SALE. PLEASE ASSIST US IN THIS MATTER SO AS TO MAINTAIN A VALID PERMIT FOR THE NEW PROPERTY OWNER.

THE PERMIT ENCLOSED IS A LEGAL DOCUMENT AND SHOULD BE KEPT WITH YOUR OTHER IMPORTANT DOCUMENTS. PLEASE READ THE PERMIT CAREFULLY SINCE YOU ARE RESPONSIBLE FOR COMPLIANCE WITH ANY PROVISOS WHICH ARE A PART OF THIS PERMIT. PROVISO COMPLIANCE IS A LEGAL REQUIREMENT AND YOUR ASSISTANCE IN THIS MATTER WILL BE GREATLY APPRECIATED.

ACCORDING TO CHAPTER 40C-2.401 AND SECTION 6.4 OF THE CONSUMPTIVE WATER USE HANDBOOK, A PERMANENT TAG WILL BE ISSUED BY THE DISTRICT FOR WELL IDENTIFICATION. THIS TAG IS PROMINENTLY DISPLAYED AT THE SITE OF WITHDRAWAL BY PERMANENTLY AFFIXING THE TAG TO THE PUMP, HEADGATE, VALVE, OR OTHER WITHDRAWAL FACILITY. FAILURE TO DISPLAY

Patricia T. Harden, CHAIRMAN SANFORD
Lenore N. McCullagh, VICE CHAIRMAN ORANGE PARK
Jesse J. Parrish, III, TREASURER TITUSVILLE
William Segal, SECRETARY MAITLAND
Reid Hughes DAYTONA BEACH
Dan Roach FERNANDINA BEACH
Denise M. Prescod JACKSONVILLE
Joe E. Hill LEESBURG
James H. Williams OCALA

A WELL TAG SHALL CONSTITUTE VIOLATION OF A PERMIT CONDITION AND MAY, IF WILLFUL, BE GROUNDS FOR REVOCATION OF THE PERMIT. PLEASE REFER TO YOUR COPY OF 40C-2 IF YOU NEED FURTHER CLARIFICATION.

YOU WILL FIND ENCLOSED A COPY OF THE MAP SUBMITTED WITH YOUR APPLICATION, WITH EACH WELL'S LOCATION AND NUMBER IDENTIFIED. WHEN PLACING THE TAG ON THE WELL, REFER TO THIS MAP TO ENSURE PROPER WELL IDENTIFICATION.

IF YOU HAVE ANY QUESTIONS CONCERNING YOUR PERMIT COMPLIANCE INFORMATION, THE ATTACHED FORMS OR WELL TAGS, CONTACT ME AT 904-329-4274.

THANK YOU FOR YOUR INTEREST IN OUR WATER RESOURCES.

SINCERELY,

Rosie Parker

ROSIE PARKER, DATA CONTROL TECHNICIAN
DIVISION OF PERMIT DATA SERVICES

ENCLOSURES: PERMIT WITH COMPLIANCE FORMS
MAP
WELL TAG(S)

CC: DISTRICT PERMIT FILE

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
POST OFFICE BOX 1429
PALATKA, FLORIDA 32178-1429

PERMIT NO. 2-031-0035NB DATE ISSUED MARCH 7, 1995

A PERMIT AUTHORIZING:

USE OF GROUND WATER FROM THE FLORIDAN AQUIFER TO SUPPLY AN ESTIMATED RESIDENTIAL POPULATION OF 1,200 PEOPLE IN 7 YEARS WITH WATER FOR HOUSEHOLD USE AND ESSENTIAL USE (FIRE PROTECTION).

LOCATION:

SECTION 40, TOWNSHIP 02 SOUTH, RANGE 25 EAST
DUVAL COUNTY
HYDE GROVE

ISSUED TO:
(OWNER)

JACKSNVILLE SUBURBAN UTILITIES CORPORATION
1440 MILLCOE ROAD
JACKSONVILLE, FL 32225

PERMITTEE AGREES TO HOLD AND SAVE THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND ITS SUCCESSORS HARMLESS FROM ANY AND ALL DAMAGES, CLAIMS, OR LIABILITIES WHICH MAY ARISE FROM PERMIT ISSUANCE. SAID APPLICATION, INCLUDING ALL PLANS AND SPECIFICATIONS ATTACHED THERETO, IS BY REFERENCE MADE A PART HEREOF.

THIS PERMIT DOES NOT CONVEY TO PERMITTEE ANY PROPERTY RIGHTS NOR ANY RIGHTS OR PRIVILEGES OTHER THAN THOSE SPECIFIED HEREIN, NOR RELIEVE THE PERMITTEE FROM COMPLYING WITH ANY LAW, REGULATION OR REQUIREMENT AFFECTING THE RIGHTS OF OTHER BODIES OR AGENCIES. ALL STRUCTURES AND WORKS INSTALLED BY PERMITTEE HEREUNDER SHALL REMAIN THE PROPERTY OF THE PERMITTEE.

THIS PERMIT MAY BE REVOKED, MODIFIED OR TRANSFERRED AT ANY TIME PURSUANT TO THE APPROPRIATE PROVISIONS OF CHAPTER 373 OR 403, FLORIDA STATUTES AND 40C-1, FLORIDA ADMINISTRATIVE CODES:

PERMIT IS CONDITIONED UPON:

SEE CONDITIONS ON ATTACHED "EXHIBIT A", DATED MARCH 7, 1995

AUTHORIZED BY: ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

DEPARTMENT OF RESOURCE MANAGEMENT

BY: _____
(DIRECTOR)
JEFF ELLEDGE

GOVERNING BOARD

BY: _____
(ASSISTANT SECRETARY)
HENRY DEAN

"EXHIBIT A"

CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 2-031-0035NR

JACKSONVILLE SUBURBAN UTILITIES CORPORATION

DATED MARCH 7, 1995

1. DISTRICT AUTHORIZED STAFF, UPON PROPER IDENTIFICATION, WILL HAVE PERMISSION TO ENTER, INSPECT AND OBSERVE PERMITTED AND RELATED FACILITIES IN ORDER TO DETERMINE COMPLIANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND CONDITIONS OF THIS PERMIT.

2. NOTHING IN THIS PERMIT SHOULD BE CONSTRUED TO LIMIT THE AUTHORITY OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT TO DECLARE A WATER SHORTAGE AND ISSUE ORDERS PURSUANT TO SECTION 373.175, FLORIDA STATUTES, OR TO FORMULATE A PLAN FOR IMPLEMENTATION DURING PERIODS OF WATER SHORTAGE, PURSUANT TO SECTION 373.246, FLORIDA STATUTES. IN THE EVENT A WATER SHORTAGE IS DECLARED BY THE DISTRICT GOVERNING BOARD, THE PERMITTEE MUST ADHERE TO THE WATER SHORTAGE RESTRICTION AS SPECIFIED BY THE DISTRICT, EVEN THOUGH THE SPECIFIED WATER SHORTAGE RESTRICTIONS MAY BE INCONSISTENT WITH THE TERMS AND CONDITIONS OF THIS PERMIT.

3. PRIOR TO THE CONSTRUCTION, MODIFICATION, OR ABANDONMENT OF A WELL, THE PERMITTEE MUST OBTAIN A WATER WELL CONSTRUCTION PERMIT FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT OR THE APPROPRIATE LOCAL GOVERNMENT PURSUANT TO CHAPTER 40C-3, FLORIDA ADMINISTRATIVE CODE. CONSTRUCTION, MODIFICATION, OR ABANDONMENT OF A WELL WILL REQUIRE MODIFICATION OF THE CONSUMPTIVE USE PERMIT WHEN SUCH CONSTRUCTION, MODIFICATION OR ABANDONMENT IS OTHER THAN THAT SPECIFIED AND DESCRIBED ON THE CONSUMPTIVE USE PERMIT APPLICATION FORM.

4. LEAKING OR INOPERATIVE WELL CASINGS, VALVES, OR CONTROLS MUST BE REPAIRED OR REPLACED AS REQUIRED TO ELIMINATE THE LEAK OR MAKE THE SYSTEM FULLY OPERATIONAL.

5. LEGAL USES OF WATER EXISTING AT THE TIME OF PERMIT APPLICATION MAY NOT BE SIGNIFICANTLY ADVERSELY IMPACTED BY THE CONSUMPTIVE USE. IF UNANTICIPATED SIGNIFICANT ADVERSE IMPACTS OCCUR, THE DISTRICT SHALL REVOKE THE PERMIT IN WHOLE OR IN PART TO CURTAIL OR ABATE THE ADVERSE IMPACTS, UNLESS THE IMPACTS CAN BE MITIGATED BY THE PERMITTEE.

6. OFF-SITE LAND USES EXISTING AT THE TIME OF PERMIT APPLICATION MAY NOT BE SIGNIFICANTLY ADVERSELY IMPACTED AS A RESULT OF THE CONSUMPTIVE USE. IF UNANTICIPATED SIGNIFICANT ADVERSE IMPACTS OCCUR, THE DISTRICT SHALL REVOKE THE PERMIT IN WHOLE OR IN PART TO CURTAIL OR ABATE THE ADVERSE IMPACTS, UNLESS THE IMPACTS CAN BE MITIGATED BY THE PERMITTEE.

7. THE DISTRICT MUST BE NOTIFIED, IN WRITING, WITHIN 30 DAYS OF ANY SALE, CONVEYANCE, OR OTHER TRANSFER OF A WELL OR FACILITY FROM WHICH THE PERMITTED CONSUMPTIVE USE IS MADE OR WITHIN 30 DAYS OF ANY TRANSFER OF OWNERSHIP OR CONTROL OF THE REAL PROPERTY AT WHICH THE PERMITTED CONSUMPTIVE USE IS LOCATED. ALL TRANSFERS OF OWNERSHIP OR TRANSFERS OF PERMITS ARE SUBJECT TO THE PROVISIONS OF SECTION 40C-1.612.

8. A DISTRICT-ISSUED IDENTIFICATION TAG SHALL BE PROMINENTLY DISPLAYED AT EACH WITHDRAWAL SITE BY PERMANENTLY AFFIXING SUCH TAG TO THE PUMP, HEADGATE, VALVE OR OTHER WITHDRAWAL FACILITY AS PROVIDED BY SECTION 40C-2.401, FLORIDA ADMINISTRATIVE CODE. PERMITTEE SHALL NOTIFY THE DISTRICT IN THE EVENT THAT A REPLACEMENT TAG IS NEEDED.

9. IF THE PERMITTEE DOES NOT SERVE A NEW PROJECTED DEMAND LOCATED WITHIN THE SERVICE AREA UPON WHICH THE ANNUAL ALLOCATION WAS CALCULATED, THE ANNUAL ALLOCATION WILL BE SUBJECT TO MODIFICATION.

10. THE PERMITTEE MUST ENSURE THAT ALL SERVICE CONNECTIONS ARE METERED.

11. TREATED EFFLUENT MUST BE USED AS IRRIGATION WATER WHEN IT BECOMES AVAILABLE, ECONOMICALLY FEASIBLE, AND PERMISSIBLE UNDER APPLICABLE STATE AND FEDERAL STATUTES OR REGULATIONS PROMULGATED THEREUNDER.

12. THIS PERMIT WILL EXPIRE 7 YEARS FROM THE DATE OF ISSUANCE.

13. MAXIMUM ANNUAL GROUNDWATER WITHDRAWALS FOR HOUSEHOLD USE MUST NOT EXCEED 58.40 MILLION GALLONS FROM 1995 THROUGH 2001.

14. MAXIMUM DAILY GROUNDWATER WITHDRAWALS FOR HOUSEHOLD USE MUST NOT EXCEED .30 MILLION GALLONS FROM 1995 THROUGH 2001.

15. MAXIMUM DAILY GROUNDWATER WITHDRAWALS FOR FIRE PROTECTION MUST NOT EXCEED 1.15 MGALS.

16. WELL NO. 1, AS LISTED ON THE APPLICATION, MUST BE EQUIPPED WITH A TOTALIZING FLOW METER. THIS METER MUST MAINTAIN 95% ACCURACY, BE VERIFIABLE AND BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

17. TOTAL WITHDRAWALS FROM WELL NO. 1, AS LISTED ON THE APPLICATION, MUST BE RECORDED CONTINUOUSLY, TOTALED MONTHLY, AND REPORTED TO THE DISTRICT BY SEPTEMBER 30 (DATA FROM MARCH TO AUGUST) AND MARCH 31 (DATA FROM SEPTEMBER TO FEBRUARY) OF EACH YEAR FOR PERMIT DURATION USING FORM NO. EN-50. THE INITIAL SUBMITTAL MUST BE MADE BY MARCH 31, 1995.

18. THE PERMITTEE MUST PROPERLY MAINTAIN THE FLOW METER. IN CASE OF FAILURE OR BREAKDOWN OF ANY METER, THE DISTRICT MUST BE NOTIFIED IN WRITING WITHIN 5 DAYS OF ITS DISCOVERY. A DEFECTIVE METER MUST BE REPAIRED OR REPLACED WITHIN 30 DAYS OF ITS DISCOVERY.

19. THE PERMITTEE MUST HAVE THE FLOW METER CHECKED FOR ACCURACY AT LEAST ONCE EVERY 5 YEARS WITHIN 30 DAYS OF THE ANNIVERSARY DATE OF PERMIT ISSUANCE, AND RECALIBRATED IF THE DIFFERENCE BETWEEN THE ACTUAL FLOW AND THE METER READING IS GREATER THAN 5%. DISTRICT FORM NO. EN-51 MUST BE SUBMITTED TO THE DISTRICT WITHIN 10 DAYS OF THE INSPECTION/CALIBRATION.

20. IN THE EVENT THE PERMITTEE FILES A REQUEST WITH THE FLORIDA PUBLIC SERVICE COMMISSION (FPSC) TO CHANGE THE RATES OR RATE STRUCTURE APPLICABLE TO ITS WATER CUSTOMERS, AS PART OF ITS REQUEST JSU SHALL ALSO PROPOSE A "WATER CONSERVING RATE STRUCTURE". A COPY OF THE PROPOSAL BEING FILED WITH THE FPSC, SHALL SIMULTANEOUSLY BE SUBMITTED TO THE DISTRICT'S OFFICE OF GENERAL COUNSEL, P. O. BOX 1429, PALATKA, FL 32178-1429. THE PERMITTEE AGREES THAT IT WILL NOT OPPOSE A DISTRICT MOTION TO INTERVENE IN A JSU RATE PROCEEDING BEFORE THE FPSC.

21. WATER QUALITY MONITORING

A.) PERMITTEE MUST COLLECT SAMPLES FROM EACH WELL QUARTERLY AND HAVE EACH SAMPLE ANALYZED FOR THE FOLLOWING:

CHLORIDES	TOTAL IRON
SULFATES	TOTAL HARDNESS
CALCIUM	MAGNESIUM
FIELD TEMPERATURE	SODIUM
SPECIFIC CONDUCTANCE	POTASSIUM
FIELD PH	CARBONATE - FIELD & LAB
TOTAL DISSOLVED SOLIDS	BI-CARBONATES - TOTAL ALKALINITY

QUALITY ASSURANCE

PRIOR TO SAMPLE COLLECTION A MINIMUM OF 3-5 CASING VOLUMES (OR A MINIMUM OF TEN MINUTES OF OPERATION) MUST BE REMOVED FROM EACH WELL.

ALL MAJOR ION ANALYSES MUST BE CHECKED FOR ANION-CATION BALANCE AND MUST BALANCE WITHIN 5%. IT IS RECOMMENDED THAT DUPLICATES BE TAKEN TO ALLOW FOR LABORATORY ERRORS OR DATA LOSS.

ALL SAMPLING AND WATER QUALITY ANALYSIS SHALL BE PERFORMED BY ORGANIZATIONS WITH APPROVED COMPREHENSIVE OR GENERIC QUALITY

ASSURANCE PLANS (COMQAPS) ON FILE WITH THE DEPT. OF ENVIRONMENTAL REGULATION OR A LABORATORY HAVING DHRS CERTIFICATION.

A REPORT INCLUDING ALL SAMPLE ANALYSIS AND AN EVALUATION OF THE DATA MUST BE SUBMITTED TO THE DISTRICT WITHIN 30 DAYS OF RECEIPT FROM THE LABORATORY.

22. WATER LEVEL MONITORING:

WATER LEVEL MEASUREMENTS (POTENTIOMETRIC LEVELS) MUST BE COLLECTED FROM EACH WELL MONTHLY AT THE APPROXIMATE SAME TIME EACH MONTH AND SUBMITTED TO THE DISTRICT QUARTERLY ALONG WITH THE REQUIRED WATER QUALITY SAMPLING DATA. THESE MEASUREMENTS MUST BE RECORDED IN FEET WITH RESPECT TO SEA LEVEL.

23. WITHIN ONE YEAR OF PERMIT ISSUANCE AND FOR EACH YEAR UNTIL PERMIT RENEWAL, PERMITTEE MUST SUBMIT A REPORT UPDATING THE RESULTS OF THE ANNUAL WATER AUDIT I.E. METER TESTING, LEAK DETECTION AND REPAIR PROGRAM FOR THE POTABLE DISTRIBUTION SYSTEM. IN ADDITION TO THE RESULTS, THE PERMITTEE MUST SUBMIT A DETAILED IMPLEMENTATION SCHEDULE AND PRIORITIZATION SCHEDULE FOR CORRECTIVE ACTIONS DIRECTED AT THE REDUCTION OF UNACCOUNTED FOR WATER LOSSES.

24. WITHIN 30 DAYS OF PERMIT ISSUANCE, THE PERMITTEE SHALL SUBMIT TO THE DISTRICT A COPY OF THE LATEST DRAFT REUSE AGREEMENTS UNDER NEGOTIATION WITH THE BAYMEADOWS AND SAN JOSE COUNTRY CLUBS, AND WITH THE CITY OF JACKSONVILLE. THEREAFTER THE PERMITTEE SHALL SUBMIT QUARTERLY STATUS REPORTS TO THE DISTRICT DETAILING ANY PROGRESS MADE DURING THE PRECEDING THREE MONTHS TOWARDS IMPLEMENTATION OF REUSE WITH THE ENTITIES LISTED ABOVE. THE QUARTERLY REPORTS MUST ALSO INCLUDE A COPY OF THE LATEST DRAFT OF EACH REUSE AGREEMENT BEING NEGOTIATED BETWEEN JSU AND ANY ONE OF THE GOLF COURSES AND THE CITY OF JACKSONVILLE. IF THE PERMITTEE FAILS TO REACH A REUSE AGREEMENT WITH THE CITY OF JACKSONVILLE WITHIN ONE YEAR OF PERMIT ISSUANCE, NEGOTIATION FOR THE PROVISION OF RECLAIMED WATER TO THE MILL COVE GOLF COURSE SHALL BE INITIATED BY JSU WITHIN 30 DAYS. WITHIN THE SAME 30 DAY PERIOD, AN IMPLEMENTATION PLAN FOR THE MILL COVE GOLF COURSE MUST ALSO BE SUBMITTED TO THE DISTRICT FOR STAFF APPROVAL. IN THE EVENT THAT MILL COVE AGREES TO ACCEPT AND UTILIZE RECLAIMED WATER FROM JSU IN ACCORDANCE WITH TARIFFS APPROVED BY THE FPSC, JSU MUST PROVIDE RECLAIMED WATER TO THE MILL COVE COUNTRY CLUB IN ACCORDANCE WITH THE DISTRICT APPROVED IMPLEMENTATION PLAN, UNLESS THE DISTRICT DETERMINES THAT IT IS NOT FEASIBLE FOR MILL COVE TO ACCEPT RECLAIMED WATER. IN THE EVENT THAT BAYMEADOWS AND SAN JOSE COUNTRY CLUBS AGREE TO ACCEPT AND UTILIZE RECLAIMED WATER FROM JSU IN ACCORDANCE WITH TARIFFS

APPROVED BY THE FPSC, JSU MUST PROVIDE RECLAIMED WATER TO THE BAYMEADOWS AND SAN JOSE GOLF COURSE WITHIN THE DURATION OF THIS PERMIT, UNLESS THE DISTRICT DETERMINES THAT IT IS NOT FEASIBLE FOR THESE ENTITIES TO ACCEPT RECLAIMED WATER.

25. THE PERMITTEE MUST IMPLEMENT THE WATER CONSERVATION PLAN SUBMITTED TO THE DISTRICT ON NOVEMBER 7, 1994 AND ALL SUPPLEMENTS IN ACCORDANCE WITH THE SCHEDULE CONTAINED THEREIN AND/OR AS REFINED IN CONDITIONS OF THIS PERMIT. THE PERMITTEE MUST MAINTAIN A LOG OF THOSE ACTIVITIES COMPLETED AS PART OF THE PLAN. A REPORT, DETAILING THE PROGRESS OF PLAN IMPLEMENTATION, MUST BE SUBMITTED TO THE DISTRICT EVERY 2 YEARS ON THE ANNIVERSARY DATE OF THE PERMIT.

26. IF, AT ANY TIME WITHIN THE PERMIT DURATION JSUC CONSTRUCTS A WASTEWATER TREATMENT FACILITY IN AN AREA WHICH CURRENTLY DOES NOT HAVE SEWER SERVICE AND IT BECOMES PRACTICAL, ECONOMICALLY FEASIBLE AND PERMISSIBLE UNDER APPLICABLE STATE AND FEDERAL STATUTES OR REGULATIONS PROMULGATED THEREUNDER, THE DISTRICT MAY REQUIRE THE PERMITTEE TO PROVIDE RECLAIMED WATER FOR USE AT A PERMISSIBLE APPLICATION SITE.

27. WITHIN 6 MONTHS OF PERMIT ISSUANCE, THE PERMITTEE MUST HAVE DEVELOPED A WATER USE RECORDING PROCEDURE WITH THE FIRE DEPARTMENT AND/OR ANY OTHER UNMETERED USERS. FLOW OR WATER USE (MGALS) MUST BE RECORDED ANNUALLY AND PROVIDED TO THE DISTRICT UPON PERMIT RENEWAL OR EXPIRATION.

28. SOURCE CLASSIFICATION IS CONFINED OR SEMI-CONFINED AQUIFER.

29. USE CLASSIFICATION IS 82% HOUSEHOLD, 17% WATER UTILITY AND ESSENTIAL (FIRE PROTECTION).

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

Henry Dean, Executive Director
John R. Wehle, Assistant Executive Director
Charles T. Myers III, Deputy Assistant Executive Director

POST OFFICE BOX 1429 PALATKA, FLORIDA 32178-1429
TELEPHONE 904/329-4500 SUNCOM 904/860-4500
TDD 904/329-4450 TDD SUNCOM 860-4450
FAX (EXECUTIVE/LEGAL) 329-4125 (PERMITTING) 329-4315 (ADMINISTRATION/FINANCE) 329-4508

FIELD STATIONS

618 E. South Street
Orlando, Florida 32801
407/897-4300
TDD 407/897-5960

7775 Baymeadows Way
Suite 102
Jacksonville, Florida 32256
904/730-6270
TDD 904/730-7900

PERMITTING:
305 East Drive
Melbourne, Florida 32904
407/984-4940
TDD 407/722-5368

OPERATIONS:
2133 N. Wickham Road
Melbourne, Florida 32935-8109
407/254-1762
TDD 407/253-1203

RECEIVED
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FLORIDA DISTRICT

MARCH 7, 1995

JACKSONVILLE SUBURBAN UTILITIES CORPORATION
ATTN: PHILIP HEIL
1440 MILLCOE ROAD
JACKSONVILLE, FL 32225

SUBJECT: CONSUMPTIVE USE PERMIT NO. 2-031-0039NR

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Rosie Parker

ROSIE PARKER, DATA CONTROL TECHNICIAN
DIVISION OF PERMIT DATA SERVICES

ENCLOSURES: PERMIT WITH COMPLIANCE FORMS
MAP
WELL TAG(S)

CC: DISTRICT PERMIT FILE

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
POST OFFICE BOX 1429
PALATKA, FLORIDA 32178-1429

PERMIT NO. 2-031-0039NB DATE ISSUED MARCH 7, 1995

A PERMIT AUTHORIZING:

USE OF GROUND WATER FROM THE FLORIDAN AQUIFER TO SUPPLY AN ESTIMATED RESIDENTIAL POPULATION OF 2,450 PEOPLE IN 7 YEARS WITH WATER FOR HOUSEHOLD USE AND ESSENTIAL USE (FIRE PROTECTION).

LOCATION:

SECTION 39, TOWNSHIP 01S SOUTH, RANGE 26E EAST
DUVAL COUNTY
MAGNOLIA GARDENS

ISSUED TO:
(OWNER)

JACKSNVILLE SUBURBAN UTILITIES CORPORATION CORP.
1440 MILLCOE ROAD
JACKSONVILLE, FL 32225

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SEE CONDITIONS ON ATTACHED "EXHIBIT A", DATED MARCH 7, 1995

AUTHORIZED BY: ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

DEPARTMENT OF RESOURCE MANAGEMENT

BY: _____
(DIRECTOR)
JEFF ELLEDGE

GOVERNING BOARD

BY: _____
(ASSISTANT SECRETARY)
HENRY DEAN

"EXHIBIT A"

CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 2-031-0039MR

JACKSONVILLE SUBURBAN UTILITIES CORPORATION

DATED MARCH 7, 1995

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6. OFF-SITE LAND USES EXISTING AT THE TIME OF PERMIT APPLICATION MAY NOT BE SIGNIFICANTLY ADVERSELY IMPACTED AS A RESULT OF THE CONSUMPTIVE USE. IF UNANTICIPATED SIGNIFICANT ADVERSE IMPACTS OCCUR, THE DISTRICT SHALL REVOKE THE PERMIT IN WHOLE OR IN PART TO CURTAIL OR ABATE THE ADVERSE IMPACTS, UNLESS THE IMPACTS CAN BE MITIGATED BY THE PERMITTEE.

7. THE DISTRICT MUST BE NOTIFIED, IN WRITING, WITHIN 30 DAYS OF ANY SALE, CONVEYANCE, OR OTHER TRANSFER OF A WELL OR FACILITY FROM WHICH THE PERMITTED CONSUMPTIVE USE IS MADE OR WITHIN 30 DAYS OF ANY TRANSFER OF OWNERSHIP OR CONTROL OF THE REAL PROPERTY AT WHICH THE PERMITTED CONSUMPTIVE USE IS LOCATED. ALL TRANSFERS OF OWNERSHIP OR TRANSFERS OF PERMITS ARE SUBJECT TO THE PROVISIONS OF SECTION 40C-1.612.

8. A DISTRICT-ISSUED IDENTIFICATION TAG SHALL BE PROMINENTLY DISPLAYED AT EACH WITHDRAWAL SITE BY PERMANENTLY AFFIXING SUCH TAG TO THE PUMP, HEADGATE, VALVE OR OTHER WITHDRAWAL FACILITY AS PROVIDED BY SECTION 40C-2.401, FLORIDA ADMINISTRATIVE CODE. PERMITTEE SHALL NOTIFY THE DISTRICT IN THE EVENT THAT A REPLACEMENT TAG IS NEEDED.

9. IF THE PERMITTEE DOES NOT SERVE A NEW PROJECTED DEMAND LOCATED WITHIN THE SERVICE AREA UPON WHICH THE ANNUAL ALLOCATION WAS CALCULATED, THE ANNUAL ALLOCATION WILL BE SUBJECT TO MODIFICATION.

10. THE PERMITTEE MUST ENSURE THAT ALL SERVICE CONNECTIONS ARE METERED.

11. TREATED EFFLUENT MUST BE USED AS IRRIGATION WATER WHEN IT BECOMES AVAILABLE, ECONOMICALLY FEASIBLE, AND PERMISSIBLE UNDER APPLICABLE STATE AND FEDERAL STATUTES OR REGULATIONS PROMULGATED THEREUNDER.

12. THIS PERMIT WILL EXPIRE 7 YEARS FROM THE DATE OF ISSUANCE.

13. MAXIMUM ANNUAL GROUNDWATER WITHDRAWALS FOR HOUSEHOLD USE MUST NOT EXCEED 50.81 MILLION GALLONS FROM 1995 THROUGH 1997 AND 74.52 MGALS FROM 1998 THROUGH 2001.

14. MAXIMUM DAILY GROUNDWATER WITHDRAWALS FOR HOUSEHOLD USE MUST NOT EXCEED .35 MILLION GALLONS FROM 1995 THROUGH 1997 AND .33 MGALS FROM 1998 THROUGH 2001.

15. MAXIMUM DAILY GROUNDWATER WITHDRAWALS FOR FIRE PROTECTION MUST NOT EXCEED .50 MGALS.

16. WELL NO. 1, AS LISTED ON THE APPLICATION, IS EQUIPPED WITH A TOTALIZING FLOW METER. THESE METER MUST MAINTAIN 95% ACCURACY, BE VERIFIABLE AND BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

17. TOTAL WITHDRAWALS FROM EACH WELL NO. 1, AS LISTED ON THE APPLICATION, MUST BE RECORDED CONTINUOUSLY, TOTALED MONTHLY, AND REPORTED TO THE DISTRICT BY SEPTEMBER 30 (DATA FROM MARCH TO AUGUST) AND MARCH 31 (DATA FROM SEPTEMBER TO FEBRUARY) OF EACH YEAR FOR PERMIT DURATION USING FORM NO. EN-50. THE INITIAL SUBMITTAL MUST BE MADE BY MARCH 31, 1995.

18. THE PERMITTEE MUST PROPERLY MAINTAIN THE FLOW METERS. IN CASE OF FAILURE OR BREAKDOWN OF THE METER, THE DISTRICT MUST BE NOTIFIED IN WRITING WITHIN 5 DAYS OF ITS DISCOVERY. A DEFECTIVE METER MUST BE REPAIRED OR REPLACED WITHIN 30 DAYS OF ITS DISCOVERY.

19. THE PERMITTEE MUST HAVE ALL FLOW METERS CHECKED FOR ACCURACY AT LEAST ONCE EVERY 3 YEARS WITHIN 30 DAYS OF THE ANNIVERSARY DATE OF PERMIT ISSUANCE, AND RECALIBRATED IF THE DIFFERENCE BETWEEN THE ACTUAL FLOW AND THE METER READING IS GREATER THAN 5%. DISTRICT FORM NO. EN-51 MUST BE SUBMITTED TO THE DISTRICT WITHIN 10 DAYS OF THE INSPECTION/CALIBRATION.

20. IN THE EVENT THE PERMITTEE FILES A REQUEST WITH THE FLORIDA PUBLIC SERVICE COMMISSION (FPSC) TO CHANGE THE RATES OR RATE STRUCTURE APPLICABLE TO ITS WATER CUSTOMERS, AS PART OF ITS REQUEST JSU SHALL ALSO PROPOSE A "WATER CONSERVING RATE STRUCTURE". A COPY OF THE PROPOSAL BEING FILED WITH THE FPSC, SHALL SIMULTANEOUSLY BE SUBMITTED TO THE DISTRICT'S OFFICE OF GENERAL COUNSEL, P. O. BOX 1429, PALATKA, FL 32178-1429. THE PERMITTEE AGREES THAT IT WILL NOT OPPOSE A DISTRICT MOTION TO INTERVENE IN A JSU RATE PROCEEDING BEFORE THE FPSC.

21. WATER QUALITY MONITORING

A) THE PERMITTEE MUST COLLECT SAMPLES FROM EACH WELL QUARTERLY AND HAVE EACH SAMPLE ANALYZED FOR THE FOLLOWING:

CHLORIDES	TOTAL IRON
SULFATES	TOTAL HARDNESS
CALCIUM	MAGNESIUM
FIELD TEMPERATURE	SODIUM
SPECIFIC CONDUCTANCE	POTASSIUM
FIELD PH	CARBONATE - FIELD & LAB
TOTAL DISSOLVED SOLIDS	BI-CARBONATE - TOTAL ALKALINITY

QUALITY ASSURANCE

PRIOR TO SAMPLE COLLECTION A MINIMUM OF 3-5 CASING VOLUMES (OR A MINIMUM OF 10 MIN. OF OPERATION) MUST BE REMOVED FROM EACH WELL.

ALL MAJOR ION ANALYSES MUST BE CHECKED FOR ANION-CATION BALANCE AND SHOULD BALANCE WITHIN 5%. IT IS RECOMMENDED THAT DUPLICATES BE TAKEN TO ALLOW FOR LABORATORY ERRORS OR DATA LOSS.

ALL SAMPLING AND WATER QUALITY ANALYSES SHALL BE PERFORMED BY ORGANIZATIONS WITH APPROVED COMPREHENSIVE OR GENERIC QUALITY

ASSURANCE PLANS (COMQAPS) ON FILE WITH THE DEPT. OF ENVIRONMENTAL REGULATION OR A LABORATORY HAVING DHRS CERTIFICATION.

A REPORT INCLUDING ALL SAMPLE ANALYSES AND AN EVALUATION OF THE DATA MUST BE SUBMITTED TO THE DISTRICT WITHIN 30 DAYS OF RECEIPT FROM THE LABORATORY.

22. WATER LEVEL MONITORING:

WATER LEVEL MEASUREMENTS (POTENTIOMETRIC LEVELS) MUST BE COLLECTED FROM EACH WELL MONTHLY AT APPROXIMATELY THE SAME TIME EACH MONTH AND SUBMITTED TO THE DISTRICT QUARTERLY ALONG WITH THE REQUIRED WATER QUALITY SAMPLING DATA. THESE MEASUREMENTS MUST BE RECORDED IN FEET WITH RESPECT TO SEA LEVEL.

23. WITHIN ONE YEAR OF PERMIT ISSUANCE AND FOR EACH YEAR UNTIL PERMIT RENEWAL, THE PERMITTEE MUST SUBMIT A REPORT UPDATING THE RESULTS OF THE ANNUAL WATER AUDIT I.E. METER TESTING, LEAK DETECTION AND REPAIR PROGRAM FOR THE POTABLE DISTRIBUTION SYSTEM. IN ADDITION TO THE RESULTS, THE PERMITTEE MUST SUBMIT A DETAILED IMPLEMENTATION SCHEDULE AND PRIORITIZATION SCHEDULE FOR CORRECTIVE ACTIONS DIRECTED AT THE REDUCTION OF UNACCOUNTED FOR WATER LOSSES.

24. WITHIN 30 DAYS OF PERMIT ISSUANCE, THE PERMITTEE SHALL SUBMIT TO THE DISTRICT A COPY OF THE LATEST DRAFT REUSE AGREEMENTS UNDER NEGOTIATION WITH THE BAYMEADOWS AND SAN JOSE COUNTRY CLUBS, AND WITH THE CITY OF JACKSONVILLE. THEREAFTER THE PERMITTEE SHALL SUBMIT QUARTERLY STATUS REPORTS TO THE DISTRICT DETAILING ANY PROGRESS MADE DURING THE PRECEDING THREE MONTHS TOWARDS IMPLEMENTATION OF REUSE WITH THE ENTITIES LISTED ABOVE. THE QUARTERLY REPORTS MUST ALSO INCLUDE A COPY OF THE LATEST DRAFT OF EACH REUSE AGREEMENT BEING NEGOTIATED BETWEEN JSU AND ANY ONE OF THE GOLF COURSES AND THE CITY OF JACKSONVILLE. IF THE PERMITTEE FAILS TO REACH A REUSE AGREEMENT WITH THE CITY OF JACKSONVILLE WITHIN ONE YEAR OF PERMIT ISSUANCE, NEGOTIATION FOR THE PROVISION OF RECLAIMED WATER TO THE MILL COVE GOLF COURSE SHALL BE INITIATED BY JSU WITHIN 30 DAYS. WITHIN THE SAME 30 DAY PERIOD, AN IMPLEMENTATION PLAN FOR THE MILL COVE GOLF COURSE MUST ALSO BE SUBMITTED TO THE DISTRICT FOR STAFF APPROVAL. IN THE EVENT THAT MILL COVE AGREES TO ACCEPT AND UTILIZE RECLAIMED WATER FROM JSU IN ACCORDANCE WITH TARIFFS APPROVED BY THE FPSC, JSU MUST PROVIDE RECLAIMED WATER TO THE MILL COVE COUNTRY CLUB IN ACCORDANCE WITH THE DISTRICT APPROVED IMPLEMENTATION PLAN, UNLESS THE DISTRICT DETERMINES THAT IT IS NOT FEASIBLE FOR MILL COVE TO ACCEPT RECLAIMED WATER. IN THE EVENT THAT BAYMEADOWS AND SAN JOSE COUNTRY CLUBS AGREE TO ACCEPT AND UTILIZE RECLAIMED WATER FROM JSU IN ACCORDANCE WITH TARIFFS

APPROVED BY THE FPSC, JSU MUST PROVIDE RECLAIMED WATER TO THE BAYMEADOWS AND SAN JOSE GOLF COURSES WITHIN THE DURATION OF THIS PERMIT, UNLESS THE DISTRICT DETERMINES THAT IT IS NOT FEASIBLE FOR THESE ENTITIES TO ACCEPT RECLAIMED WATER.

25. THE PERMITTEE MUST IMPLEMENT THE WATER CONSERVATION PLAN SUBMITTED TO THE DISTRICT ON NOVEMBER 7, 1994 AND ALL SUPPLEMENTS IN ACCORDANCE WITH THE SCHEDULE CONTAINED THEREIN AND/OR AS REFINED IN CONDITIONS OF THIS PERMIT. THE PERMITTEE MUST MAINTAIN A LOG OF THOSE ACTIVITIES COMPLETED AS PART OF THE PLAN. A REPORT, DETAILING THE PROGRESS OF PLAN IMPLEMENTATION, MUST BE SUBMITTED TO THE DISTRICT EVERY TWO YEARS ON THE ANNIVERSARY DATA OF THIS PERMIT.

26. IF, AT ANY TIME WITHIN THE PERMIT DURATION JSUC CONSTRUCTS A WASTEWATER TREATMENT FACILITY IN AN AREA WHICH CURRENTLY DOES NOT HAVE SEWER SERVICE AND IT BECOMES PRACTICAL, ECONOMICALLY FEASIBLE AND PERMISSIBLE UNDER APPLICABLE STATE AND FEDERAL STATUTES OR REGULATIONS PROMULGATED THEREUNDER, THE DISTRICT MAY REQUIRE THE PERMITTEE TO PROVIDE RECLAIMED WATER FOR USE AT A PERMISSIBLE APPLICATION SITE.

27. WITHIN 6 MONTHS OF PERMIT ISSUANCE, THE PERMITTEE MUST HAVE DEVELOPED A WATER USE RECORDING PROCEDURE WITH THE FIRE DEPARTMENT AND/OR ANY OTHER UNMETERED USERS. FLOW OR WATER USE (MGALS) MUST BE RECORDED ANNUALLY AND PROVIDED TO THE DISTRICT UPON PERMIT RENEWAL OR EXPIRATION.

28. SOURCE CLASSIFICATION IS CONFINED OR SEMI-CONFINED AQUIFER.

29. USE CLASSIFICATION IS 83% HOUSEHOLD, 17% WATER UTILITY AND ESSENTIAL (FIRE PROTECTION).

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

Lake Fec

Henry Dean, Executive Director
John P [illegible], Assistant Executive Director
Charles T. Myers [illegible]puty Assistant Executive Director

POST OFFICE BOX 1429 PALATKA, FLORIDA 32178-1429
TELEPHONE 904/329-4500 SUNCOM 904/860-4500
TDD 904/329-4450 TDD SUNCOM 860-4450
FAX (EXECUTIVE/LEGAL) 329-4125 (PERMITTING) 329-4315 (ADMINISTRATION/FINANCE) 329-4508

FIELD STATIONS

618 E. South Street
Orlando, Florida 32801
407/897-4300
TDD 407/897-5960

7775 Baymeadows Way
Suite 102
Jacksonville, Florida 32256
904/730-6270
TDD 904/730-7900

PERMITTING:
305 East Drive
Melbourne, Florida 32904
407/984-4940
TDD 407/722-5368

OPERATIONS:
2133 N. Wickham Road
Melbourne, Florida 32935-8109
407/254-1762
TDD 407/253-1203

RECEIVED
APR 04 1995
FLORIDA DISTRICT

MARCH 7, 1995

JACKSONVILLE SUBURBAN UTILITIES CORPORATION
ATTN: PHILIP HEIL
1440 MILLCOE ROAD
JACKSONVILLE, FL 32225

SUBJECT: CONSUMPTIVE USE PERMIT NO. 2-031-0042NRM

ENCLOSED IS YOUR PERMIT AND THE FORMS NECESSARY FOR SUBMITTING INFORMATION TO COMPLY WITH CONDITIONS OF THE PERMIT AS AUTHORIZED BY THE GOVERNING BOARD OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT ON MARCH 7, 1995. ALL COMPLIANCE INFORMATION MUST BE SUBMITTED TO THE DISTRICT'S PALATKA OFFICE, P. O. BOX 1429, PALATKA, FLORIDA 32178-1429.

PERMIT ISSUANCE DOES NOT RELIEVE YOU FROM THE RESPONSIBILITY OF OBTAINING PERMITS FROM ANY FEDERAL, STATE, AND/OR LOCAL AGENCIES ASSERTING CONCURRENT JURISDICTION FOR THIS WORK. THE ENCLOSED PERMIT WILL EXPIRE ON MARCH 7, 2002.

IN THE EVENT YOU SELL YOUR PROPERTY, THE PERMIT WILL BE TRANSFERRED TO THE NEW OWNER IF WE ARE NOTIFIED BY YOU WITHIN THIRTY DAYS OF THE RECORDING OF THE SALE. PLEASE ASSIST US IN THIS MATTER SO AS TO MAINTAIN A VALID PERMIT FOR THE NEW PROPERTY OWNER.

THE PERMIT ENCLOSED IS A LEGAL DOCUMENT AND SHOULD BE KEPT WITH YOUR OTHER IMPORTANT DOCUMENTS. PLEASE READ THE PERMIT CAREFULLY SINCE YOU ARE RESPONSIBLE FOR COMPLIANCE WITH ANY PROVISOS WHICH ARE A PART OF THIS PERMIT. PROVISO COMPLIANCE IS A LEGAL REQUIREMENT AND YOUR ASSISTANCE IN THIS MATTER WILL BE GREATLY APPRECIATED.

ACCORDING TO CHAPTER 40C-2.401 AND SECTION 6.4 OF THE CONSUMPTIVE WATER USE HANDBOOK, A PERMANENT TAG WILL BE ISSUED BY THE DISTRICT FOR WELL IDENTIFICATION. THIS TAG IS PROMINENTLY DISPLAYED AT THE SITE OF WITHDRAWAL BY PERMANENTLY AFFIXING THE TAG TO THE PUMP, HEADGATE, VALVE, OR OTHER WITHDRAWAL FACILITY. FAILURE TO DISPLAY

Patricia T. Harden, CHAIRMAN SANFORD
Lenore N. McCullagh, VICE CHAIRMAN ORANGE PARK
Jesse J. Parrish, III, TREASURER TITUSVILLE
William Segal, SECRETARY MAITLAND
Reid Hughes DAYTONA BEACH
Dan Roach FERNANDINA BEACH
Denise M. Prescod JACKSONVILLE
Joe E. Hill LEESBURG
James H. Williams OCALA

A WELL TAG SHALL CONSTITUTE VIOLATION OF A PERMIT CONDITION AND MAY, IF WILLFUL, BE GROUNDS FOR REVOCATION OF THE PERMIT. PLEASE REFER TO YOUR COPY OF 40C-2 IF YOU NEED FURTHER CLARIFICATION.

YOU WILL FIND ENCLOSED A COPY OF THE MAP SUBMITTED WITH YOUR APPLICATION, WITH EACH WELL'S LOCATION AND NUMBER IDENTIFIED. WHEN PLACING THE TAG ON THE WELL, REFER TO THIS MAP TO ENSURE PROPER WELL IDENTIFICATION.

IF YOU HAVE ANY QUESTIONS CONCERNING YOUR PERMIT COMPLIANCE INFORMATION, THE ATTACHED FORMS OR WELL TAGS, CONTACT ME AT 904-329-4274.

THANK YOU FOR YOUR INTEREST IN OUR WATER RESOURCES.

SINCERELY,

Rosie Parker

ROSIE PARKER, DATA CONTROL TECHNICIAN
DIVISION OF PERMIT DATA SERVICES

ENCLOSURES: PERMIT WITH COMPLIANCE FORMS
MAP
WELL TAG(S)

CC: DISTRICT PERMIT FILE

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
POST OFFICE BOX 1429
PALATKA, FLORIDA 32178-1429

PERMIT NO. 2-031-0042NBM DATE ISSUED MARCH 7, 1995

A PERMIT AUTHORIZING:

USE OF GROUND WATER FROM THE FLORIDAN AQUIFER TO SUPPLY AN ESTIMATED RESIDENTIAL POPULATION OF 2,804 PEOPLE IN 7 YEARS WITH WATER FOR HOUSEHOLD USE AND ESSENTIAL USE (FIRE PROTECTION).

LOCATION:

SECTION 39, TOWNSHIP 01 SOUTH, RANGE 26 EAST
DUVAL COUNTY
LAKE FOREST

ISSUED TO:
(OWNER)

JACKSNVILLE SUBURBAN UTILITIES CORPORATION
1440 MILLCOE ROAD
JACKSONVILLE, FL 32225

PERMITTEE AGREES TO HOLD AND SAVE THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND ITS SUCCESSORS HARMLESS FROM ANY AND ALL DAMAGES, CLAIMS, OR LIABILITIES WHICH MAY ARISE FROM PERMIT ISSUANCE. SAID APPLICATION, INCLUDING ALL PLANS AND SPECIFICATIONS ATTACHED THERETO, IS BY REFERENCE MADE A PART HEREOF.

THIS PERMIT DOES NOT CONVEY TO PERMITTEE ANY PROPERTY RIGHTS NOR ANY RIGHTS OR PRIVILEGES OTHER THAN THOSE SPECIFIED HEREIN, NOR RELIEVE THE PERMITTEE FROM COMPLYING WITH ANY LAW, REGULATION OR REQUIREMENT AFFECTING THE RIGHTS OF OTHER BODIES OR AGENCIES. ALL STRUCTURES AND WORKS INSTALLED BY PERMITTEE HEREUNDER SHALL REMAIN THE PROPERTY OF THE PERMITTEE.

THIS PERMIT MAY BE REVOKED, MODIFIED OR TRANSFERRED AT ANY TIME PURSUANT TO THE APPROPRIATE PROVISIONS OF CHAPTER 373 OR 403, FLORIDA STATUTES AND 40C-1, FLORIDA ADMINISTRATIVE CODES:

PERMIT IS CONDITIONED UPON:

SEE CONDITIONS ON ATTACHED "EXHIBIT A", DATED MARCH 7, 1995

AUTHORIZED BY: ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

DEPARTMENT OF RESOURCE MANAGEMENT

BY: _____
(DIRECTOR)
JEFF ELLEDGE

GOVERNING BOARD

BY: _____
(ASSISTANT SECRETARY)
HENRY DEAN

"EXHIBIT A"

CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 2-031-0042NRM

JACKSONVILLE SUBURBAN UTILITIES CORPORATION

DATED MARCH 7, 1995

1. DISTRICT AUTHORIZED STAFF, UPON PROPER IDENTIFICATION, WILL HAVE PERMISSION TO ENTER, INSPECT AND OBSERVE PERMITTED AND RELATED FACILITIES IN ORDER TO DETERMINE COMPLIANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND CONDITIONS OF THIS PERMIT.

2. NOTHING IN THIS PERMIT SHOULD BE CONSTRUED TO LIMIT THE AUTHORITY OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT TO DECLARE A WATER SHORTAGE AND ISSUE ORDERS PURSUANT TO SECTION 373.175, FLORIDA STATUTES, OR TO FORMULATE A PLAN FOR IMPLEMENTATION DURING PERIODS OF WATER SHORTAGE, PURSUANT TO SECTION 373.246, FLORIDA STATUTES. IN THE EVENT A WATER SHORTAGE IS DECLARED BY THE DISTRICT GOVERNING BOARD, THE PERMITTEE MUST ADHERE TO THE WATER SHORTAGE RESTRICTION AS SPECIFIED BY THE DISTRICT, EVEN THOUGH THE SPECIFIED WATER SHORTAGE RESTRICTIONS MAY BE INCONSISTENT WITH THE TERMS AND CONDITIONS OF THIS PERMIT.

3. PRIOR TO THE CONSTRUCTION, MODIFICATION, OR ABANDONMENT OF A WELL, THE PERMITTEE MUST OBTAIN A WATER WELL CONSTRUCTION PERMIT FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT OR THE APPROPRIATE LOCAL GOVERNMENT PURSUANT TO CHAPTER 40C-3, FLORIDA ADMINISTRATIVE CODE. CONSTRUCTION, MODIFICATION, OR ABANDONMENT OF A WELL WILL REQUIRE MODIFICATION OF THE CONSUMPTIVE USE PERMIT WHEN SUCH CONSTRUCTION, MODIFICATION OR ABANDONMENT IS OTHER THAN THAT SPECIFIED AND DESCRIBED ON THE CONSUMPTIVE USE PERMIT APPLICATION FORM.

4. LEAKING OR INOPERATIVE WELL CASINGS, VALVES, OR CONTROLS MUST BE REPAIRED OR REPLACED AS REQUIRED TO ELIMINATE THE LEAK OR MAKE THE SYSTEM FULLY OPERATIONAL.

5. LEGAL USES OF WATER EXISTING AT THE TIME OF PERMIT APPLICATION MAY NOT BE SIGNIFICANTLY ADVERSELY IMPACTED BY THE CONSUMPTIVE USE. IF UNANTICIPATED SIGNIFICANT ADVERSE IMPACTS OCCUR, THE DISTRICT SHALL REVOKE THE PERMIT IN WHOLE OR IN PART TO CURTAIL OR ABATE THE ADVERSE IMPACTS, UNLESS THE IMPACTS CAN BE MITIGATED BY THE PERMITTEE.

6. OFF-SITE LAND USES EXISTING AT THE TIME OF PERMIT APPLICATION MAY NOT BE SIGNIFICANTLY ADVERSELY IMPACTED AS A RESULT OF THE CONSUMPTIVE USE. IF UNANTICIPATED SIGNIFICANT ADVERSE IMPACTS OCCUR, THE DISTRICT SHALL REVOKE THE PERMIT IN WHOLE OR IN PART TO CURTAIL OR ABATE THE ADVERSE IMPACTS, UNLESS THE IMPACTS CAN BE MITIGATED BY THE PERMITTEE.

7. THE DISTRICT MUST BE NOTIFIED, IN WRITING, WITHIN 30 DAYS OF ANY SALE, CONVEYANCE, OR OTHER TRANSFER OF A WELL OR FACILITY FROM WHICH THE PERMITTED CONSUMPTIVE USE IS MADE OR WITHIN 30 DAYS OF ANY TRANSFER OF OWNERSHIP OR CONTROL OF THE REAL PROPERTY AT WHICH THE PERMITTED CONSUMPTIVE USE IS LOCATED. ALL TRANSFERS OF OWNERSHIP OR TRANSFERS OF PERMITS ARE SUBJECT TO THE PROVISIONS OF SECTION 40C-1.612.

8. A DISTRICT-ISSUED IDENTIFICATION TAG SHALL BE PROMINENTLY DISPLAYED AT EACH WITHDRAWAL SITE BY PERMANENTLY AFFIXING SUCH TAG TO THE PUMP, HEADGATE, VALVE OR OTHER WITHDRAWAL FACILITY AS PROVIDED BY SECTION 40C-2.401, FLORIDA ADMINISTRATIVE CODE. PERMITTEE SHALL NOTIFY THE DISTRICT IN THE EVENT THAT A REPLACEMENT TAG IS NEEDED.

9. IF THE PERMITTEE DOES NOT SERVE A NEW PROJECTED DEMAND LOCATED WITHIN THE SERVICE AREA UPON WHICH THE ANNUAL ALLOCATION WAS CALCULATED, THE ANNUAL ALLOCATION WILL BE SUBJECT TO MODIFICATION.

10. THE PERMITTEE MUST ENSURE THAT ALL SERVICE CONNECTIONS ARE METERED.

11. TREATED EFFLUENT MUST BE USED AS IRRIGATION WATER WHEN IT BECOMES AVAILABLE, ECONOMICALLY FEASIBLE, AND PERMISSIBLE UNDER APPLICABLE STATE AND FEDERAL STATUTES OR REGULATIONS PROMULGATED THEREUNDER.

12. THIS PERMIT WILL EXPIRE 7 YEARS FROM THE DATE OF ISSUANCE.

13. MAXIMUM ANNUAL GROUNDWATER WITHDRAWALS FOR HOUSEHOLD USE MUST NOT EXCEED 151.42 MILLION GALLONS FROM 1995 THROUGH 1997 AND 122.62 MGALS FROM 1998 THROUGH 2001.

14. MAXIMUM DAILY GROUNDWATER WITHDRAWALS FOR HOUSEHOLD USE MUST NOT EXCEED .77 MILLION GALLONS FROM 1995 THROUGH 1997 AND .62 MGALS FROM 1998 THROUGH 2001.

15. MAXIMUM DAILY GROUNDWATER WITHDRAWALS FOR FIRE PROTECTION MUST NOT EXCEED 1.30 MGALS.

16. WELL NO. 1, AS LISTED ON THE APPLICATION, IS EQUIPPED WITH A TOTALIZING FLOW METER. THESE METER MUST MAINTAIN 95% ACCURACY, BE VERIFIABLE AND BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

17. TOTAL WITHDRAWALS FROM EACH WELL NO. 1, AS LISTED ON THE APPLICATION, MUST BE RECORDED CONTINUOUSLY, TOTALED MONTHLY, AND REPORTED TO THE DISTRICT BY SEPTEMBER 30 (DATA FROM MARCH

TO AUGUST) AND MARCH 31 (DATA FROM SEPTEMBER TO FEBRUARY) OF EACH YEAR FOR PERMIT DURATION USING FORM NO. EN-50. THE INITIAL SUBMITTAL MUST BE MADE BY MARCH 31, 1995.

18. THE PERMITTEE MUST PROPERLY MAINTAIN THE FLOW METER. IN CASE OF FAILURE OR BREAKDOWN OF THE METER, THE DISTRICT MUST BE NOTIFIED IN WRITING WITHIN 5 DAYS OF ITS DISCOVERY. A DEFECTIVE METER MUST BE REPAIRED OR REPLACED WITHIN 30 DAYS OF ITS DISCOVERY.

19. THE PERMITTEE MUST HAVE ALL FLOW METERS CHECKED FOR ACCURACY AT LEAST ONCE EVERY 3 YEARS WITHIN 30 DAYS OF THE ANNIVERSARY DATE OF PERMIT ISSUANCE, AND RECALIBRATED IF THE DIFFERENCE BETWEEN THE ACTUAL FLOW AND THE METER READING IS GREATER THAN 5%. DISTRICT FORM NO. EN-51 MUST BE SUBMITTED TO THE DISTRICT WITHIN 10 DAYS OF THE INSPECTION/CALIBRATION.

20. IN THE EVENT THE PERMITTEE FILES A REQUEST WITH THE FLORIDA PUBLIC SERVICE COMMISSION (FPSC) TO CHANGE THE RATES OR RATE STRUCTURE APPLICABLE TO ITS WATER CUSTOMERS, AS PART OF ITS REQUEST JSU SHALL ALSO PROPOSE A "WATER CONSERVING RATE STRUCTURE". A COPY OF THE PROPOSAL BEING FILED WITH THE FPSC, SHALL SIMULTANEOUSLY BE SUBMITTED TO THE DISTRICT'S OFFICE OF GENERAL COUNSEL, P. O. BOX 1429, PALATKA, FL 32178-1429. THE PERMITTEE AGREES THAT IT WILL NOT OPPOSE A DISTRICT MOTION TO INTERVENE IN A JSU RATE PROCEEDING BEFORE THE FPSC.

21. WATER QUALITY MONITORING

A.) THE PERMITTEE MUST COLLECT SAMPLES FROM EACH WELL QUARTERLY AND HAVE EACH SAMPLE ANALYZED FOR THE FOLLOWING:

CHLORIDES	TOTAL IRON
SULFATES	TOTAL HARDNESS
CALCIUM	MAGNESIUM
FIELD TEMPERATURE	SODIUM
SPECIFIC CONDUCTANCE	POTASSIUM
FIELD PH	CARBONATE - FIELD & LAB
TOTAL DISSOLVED SOLIDS	BI-CARBONATE - TOTAL ALKALINITY

QUALITY ASSURANCE

PRIOR TO SAMPLE COLLECTION A MINIMUM OF 3-5 CASING VOLUMES (OR A MINIMUM OF 10 MINUTES OF OPERATION) MUST BE REMOVED FROM EACH WELL.

ALL MAJOR ION ANALYSES MUST BE CHECKED FOR ANION-CATION BALANCE AND SHOULD BALANCE WITHIN 5%. IT IS RECOMMENDED THAT DUPLICATES BE TAKEN TO ALLOW FOR LABORATORY ERRORS OR DATA LOSS.

ALL SAMPLING AND WATER QUALITY ANALYSES SHALL BE PERFORMED BY ORGANIZATIONS WITH APPROVED COMPREHENSIVE OR GENERIC QUALITY ASSURANCE PLANS (COMQAPS) ON FILE WITH THE DEPT. OF ENVIRONMENTAL REGULATION OR A LABORATORY HAVING DHRS CERTIFICATION.

A REPORT INCLUDING ALL SAMPLE ANALYSES AND AN EVALUATION OF THE DATA MUST BE SUBMITTED TO THE DISTRICT WITHIN 30 DAYS OF RECEIPT FROM THE LABORATORY.

22. WATER LEVEL MONITORING:

WATER LEVEL MEASUREMENTS (POTENTIOMETRIC LEVELS) MUST BE COLLECTED FROM EACH WELL MONTHLY AT APPROXIMATELY THE SAME TIME EACH MONTH AND SUBMITTED TO THE DISTRICT QUARTERLY ALONG WITH THE REQUIRED WATER QUALITY SAMPLING DATA. THESE MEASUREMENTS MUST BE RECORDED IN FEET WITH RESPECT TO SEA LEVEL.

23. WITHIN ONE YEAR OF PERMIT ISSUANCE AND FOR EACH YEAR UNTIL PERMIT RENEWAL, THE PERMITTEE MUST SUBMIT A REPORT UPDATING THE RESULTS OF THE ANNUAL WATER AUDIT I.E. METER TESTING, LEAK DETECTION AND REPAIR PROGRAM FOR THE POTABLE DISTRIBUTION SYSTEM. IN ADDITION TO THE RESULTS, THE PERMITTEE MUST SUBMIT A DETAILED IMPLEMENTATION SCHEDULE AND PRIORITIZATION SCHEDULE FOR CORRECTIVE ACTIONS DIRECTED AT THE REDUCTION OF UNACCOUNTED FOR WATER LOSSES.

24. WITHIN 30 DAYS OF PERMIT ISSUANCE, THE PERMITTEE SHALL SUBMIT TO THE DISTRICT A COPY OF THE LATEST DRAFT REUSE AGREEMENTS UNDER NEGOTIATION WITH THE SAYMEADOW, AND SAN JOSE COUNTRY CLUBS, AND WITH THE CITY OF JACKSONVILLE. THEREAFTER THE PERMITTEE SHALL SUBMIT QUARTERLY STATUS REPORTS TO THE DISTRICT DETAILING ANY PROGRESS MADE DURING THE PRECEDING THREE MONTHS TOWARDS IMPLEMENTATION OF REUSE WITH THE ENTITIES LISTED ABOVE. THE QUARTERLY REPORTS MUST ALSO INCLUDE A COPY OF THE LATEST DRAFT OF EACH REUSE AGREEMENT BEING NEGOTIATED BETWEEN JSU AND ANY ONE OF THE GOLF COURSES AND THE CITY OF JACKSONVILLE. IF THE PERMITTEE FAILS TO REACH A REUSE AGREEMENT WITH THE CITY OF JACKSONVILLE WITHIN ONE YEAR OF PERMIT ISSUANCE, NEGOTIATION FOR THE PROVISION OF RECLAIMED WATER TO THE MILL COVE GOLF COURSE SHALL BE INITIATED BY JSU WITHIN 30 DAYS. WITHIN THE SAME 30 DAY PERIOD, AN IMPLEMENTATION PLAN FOR THE MILL COVE GOLF COURSE MUST ALSO BE SUBMITTED TO THE DISTRICT FOR STAFF APPROVAL. IN THE EVENT THAT MILL COVE AGREES TO ACCEPT AND UTILIZE RECLAIMED WATER FROM JSU IN ACCORDANCE WITH TARIFFS APPROVED BY THE FPSC, JSU MUST PROVIDE RECLAIMED WATER TO THE MILL COVE COUNTRY CLUBS IN ACCORDANCE WITH THE DISTRICT APPROVED IMPLEMENTATION PLAN, UNLESS THE DISTRICT DETERMINES THAT IT IS NOT FEASIBLE FOR MILL COVE TO ACCEPT RECLAIMED WATER. IN THE EVENT THAT

BAYMEADOWS AND SAN JOSE COUNTRY CLUBS AGREE TO ACCEPT AND UTILIZE RECLAIMED WATER FROM JSU IN ACCORDANCE WITH TARIFFS APPROVED BY THE FPSC, JSU MUST PROVIDE RECLAIMED WATER TO THE BAYMEADOWS AND SAN JOSE GOLF COURSES WITHIN THE DURATION OF THIS PERMIT, UNLESS THE DISTRICT DETERMINES THAT IT IS NOT FEASIBLE FOR THESE ENTITIES TO ACCEPT RECLAIMED WATER.

25. THE PERMITTEE MUST IMPLEMENT THE WATER CONSERVATION PLAN SUBMITTED TO THE DISTRICT ON NOVEMBER 7, 1994 AND ALL SUPPLEMENTS IN ACCORDANCE WITH THE SCHEDULE CONTAINED THEREIN AND/OR AS REFINED IN CONDITIONS OF THIS PERMIT. THE PERMITTEE MUST MAINTAIN A LOG OF THOSE ACTIVITIES COMPLETED AS PART OF THE PLAN. A REPORT, DETAILING THE PROGRESS OF PLAN IMPLEMENTATION, MUST BE SUBMITTED TO THE DISTRICT EVERY TWO YEARS ON THE ANNIVERSARY DATE OF THIS PERMIT.

26. IF, AT ANY TIME WITHIN THE PERMIT DURATION JSUC CONSTRUCTS A WASTEWATER TREATMENT FACILITY IN AN AREA WHICH CURRENTLY DOES NOT HAVE SEWER SERVICE AND IT BECOMES PRACTICAL, ECONOMICALLY FEASIBLE AND PERMISSIBLE UNDER APPLICABLE STATE AND FEDERAL STATUTES OR REGULATIONS PROMULGATED THEREUNDER, THE DISTRICT MAY REQUIRE THE PERMITTEE TO PROVIDE RECLAIMED WATER FOR USE AT A PERMISSIBLE APPLICATION SITE.

27. WITHIN 6 MONTHS OF PERMIT ISSUANCE, THE PERMITTEE MUST HAVE DEVELOPED A WATER USE RECORDING PROCEDURE WITH THE FIRE DEPARTMENT AND/OR ANY OTHER UNMETERED USERS. FLOW OR WATER USE (MGALS) MUST BE RECORDED ANNUALLY AND PROVIDED TO THE DISTRICT UPON PERMIT RENEWAL OR EXPIRATION.

28. SOURCE CLASSIFICATION IS CONFINED OR SEMI-CONFINED AQUIFER.

29. USE CLASSIFICATION IS 73% HOUSEHOLD, 27% WATER UTILITY AND ESSENTIAL (FIRE PROTECTION).

JAX rd eights

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

Henry Dean, Executive Director
John R. Wehle, Assistant Executive Director
Charles ... ers III, Deputy Assistant Executive Director

POST OFFICE BOX 1429 PALATKA, FLORIDA 32178-1429
TELEPHONE 904/329-4500 SUNCOM 904/860-4500
TDD 904/329-4450 TDD SUNCOM 860-4450
FAX (EXECUTIVE/LEGAL) 329-4125 (PERMITTING) 329-4315 (ADMINISTRATION/FINANCE) 329-4508

FIELD STATIONS

618 E. South Street
Orlando, Florida 32801
407/897-4300
TDD 407/897-5960

7775 Baymeadows Way
Suite 102
Jacksonville, Florida 32256
904/730-6270
TDD 904/730-7900

PERMITTING:
305 East Drive
Melbourne, Florida 32904
407/984-4940
TDD 407/722-5368

OPERATIONS:
2133 N. Wickham Road
Melbourne, Florida 32935-8109
407/254-1762
TDD 407/253-1203

RECEIVED
APR 04 1995
FLORIDA DISTRICT

MARCH 7, 1995

JACKSONVILLE SUBURBAN UTILITIES CORPORATION
ATTN: PHILIP HEIL
1440 MILLCOE ROAD
JACKSONVILLE, FL 32225

SUBJECT: CONSUMPTIVE USE PERMIT NO. 2-031-0034NR

ENCLOSED IS YOUR PERMIT AND THE FORMS NECESSARY FOR SUBMITTING INFORMATION TO COMPLY WITH CONDITIONS OF THE PERMIT AS AUTHORIZED BY THE GOVERNING BOARD OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT ON MARCH 7, 1995. ALL COMPLIANCE INFORMATION MUST BE SUBMITTED TO THE DISTRICT'S PALATKA OFFICE, P. O. BOX 1429, PALATKA, FLORIDA 32178-1429.

PERMIT ISSUANCE DOES NOT RELIEVE YOU FROM THE RESPONSIBILITY OF OBTAINING PERMITS FROM ANY FEDERAL, STATE, AND/OR LOCAL AGENCIES ASSERTING CONCURRENT JURISDICTION FOR THIS WORK. THE ENCLOSED PERMIT WILL EXPIRE ON MARCH 7, 2002.

IN THE EVENT YOU SELL YOUR PROPERTY, THE PERMIT WILL BE TRANSFERRED TO THE NEW OWNER IF WE ARE NOTIFIED BY YOU WITHIN THIRTY DAYS OF THE RECORDING OF THE SALE. PLEASE ASSIST US IN THIS MATTER SO AS TO MAINTAIN A VALID PERMIT FOR THE NEW PROPERTY OWNER.

THE PERMIT ENCLOSED IS A LEGAL DOCUMENT AND SHOULD BE KEPT WITH YOUR OTHER IMPORTANT DOCUMENTS. PLEASE READ THE PERMIT CAREFULLY SINCE YOU ARE RESPONSIBLE FOR COMPLIANCE WITH ANY PROVISOS WHICH ARE A PART OF THIS PERMIT. PROVISO COMPLIANCE IS A LEGAL REQUIREMENT AND YOUR ASSISTANCE IN THIS MATTER WILL BE GREATLY APPRECIATED.

ACCORDING TO CHAPTER 40C-2.401 AND SECTION 6.4 OF THE CONSUMPTIVE WATER USE HANDBOOK, A PERMANENT TAG WILL BE ISSUED BY THE DISTRICT FOR WELL IDENTIFICATION. THIS TAG IS PROMINENTLY DISPLAYED AT THE SITE OF WITHDRAWAL BY PERMANENTLY AFFIXING THE TAG TO THE PUMP, HEADGATE, VALVE, OR OTHER WITHDRAWAL FACILITY. FAILURE TO DISPLAY

Patricia T. Harden, CHAIRMAN SANFORD
Lenore N. McCullagh, VICE CHAIRMAN ORANGE PARK
Jesse J. Parrish, III, TREASURER TITUSVILLE
William Segal, SECRETARY MAITLAND
Reid Hughes DAYTONA BEACH
Dan Roach FERNANDINA BEACH
Denise M. Prescod JACKSONVILLE
Joe E. Hill LEESBURG
James H. Williams OCALA

A WELL TAG SHALL CONSTITUTE VIOLATION OF A PERMIT CONDITION AND MAY, IF WILLFUL, BE GROUNDS FOR REVOCATION OF THE PERMIT. PLEASE REFER TO YOUR COPY OF 40C-2 IF YOU NEED FURTHER CLARIFICATION.

YOU WILL FIND ENCLOSED A COPY OF THE MAP SUBMITTED WITH YOUR APPLICATION, WITH EACH WELL'S LOCATION AND NUMBER IDENTIFIED. WHEN PLACING THE TAG ON THE WELL, REFER TO THIS MAP TO ENSURE PROPER WELL IDENTIFICATION.

IF YOU HAVE ANY QUESTIONS CONCERNING YOUR PERMIT COMPLIANCE INFORMATION, THE ATTACHED FORMS OR WELL TAGS, CONTACT ME AT 904-329-4274.

THANK YOU FOR YOUR INTEREST IN OUR WATER RESOURCES.

SINCERELY,

Rosie Parker

ROSIE PARKER, DATA CONTROL TECHNICIAN
DIVISION OF PERMIT DATA SERVICES

ENCLOSURES: PERMIT WITH COMPLIANCE FORMS
MAP
WELL TAG(S)

CC: DISTRICT PERMIT FILE

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
POST OFFICE BOX 1429
PALATKA, FLORIDA 32178-1429

PERMIT NO. 2-031-2034NR DATE ISSUED MARCH 7, 1995

A PERMIT AUTHORIZING:

USE OF GROUND WATER FROM THE FLORIDAN AQUIFER TO SUPPLY AN ESTIMATED RESIDENTIAL POPULATION OF 11,815 PEOPLE IN 7 YEARS WITH WATER FOR HOUSEHOLD USE AND ESSENTIAL USE (FIRE PROTECTION).

LOCATION:

SECTIONS 14 07, TOWNSHIP 03 SOUTH, RANGES 25 26 EAST
DUVAL COUNTY
JACKSONVILLE HEIGHTS

ISSUED TO:
(OWNER)

JACKSNVILLE SUBURBAN UTILITIES CORPORATION
1440 MILLCOE ROAD
JACKSONVILLE, FL 32225

PERMITTEE AGREES TO HOLD AND SAVE THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND ITS SUCCESSORS HARMLESS FROM ANY AND ALL DAMAGES, CLAIMS, OR LIABILITIES WHICH MAY ARISE FROM PERMIT ISSUANCE. SAID APPLICATION, INCLUDING ALL PLANS AND SPECIFICATIONS ATTACHED THERETO, IS BY REFERENCE MADE A PART HEREOF.

THIS PERMIT DOES NOT CONVEY TO PERMITTEE ANY PROPERTY RIGHTS NOR ANY RIGHTS OR PRIVILEGES OTHER THAN THOSE SPECIFIED HEREIN, NOR RELIEVE THE PERMITTEE FROM COMPLYING WITH ANY LAW, REGULATION OR REQUIREMENT AFFECTING THE RIGHTS OF OTHER BODIES OR AGENCIES. ALL STRUCTURES AND WORKS INSTALLED BY PERMITTEE HEREUNDER SHALL REMAIN THE PROPERTY OF THE PERMITTEE.

THIS PERMIT MAY BE REVOKED, MODIFIED OR TRANSFERRED AT ANY TIME PURSUANT TO THE APPROPRIATE PROVISIONS OF CHAPTER 373 OR 403, FLORIDA STATUTES AND 40C-1, FLORIDA ADMINISTRATIVE CODES:

PERMIT IS CONDITIONED UPON:

SEE CONDITIONS ON ATTACHED "EXHIBIT A", DATED MARCH 7, 1995

AUTHORIZED BY: ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

DEPARTMENT OF RESOURCE MANAGEMENT

BY: _____
(DIRECTOR)
JEFF ELLEDGE

GOVERNING BOARD

BY: _____
(ASSISTANT SECRETARY)
HENRY DEAN

"EXHIBIT A"

CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 2-031-0034NS

JACKSONVILLE SUBURBAN UTILITIES CORPORATION

DATED MARCH 7, 1995

1. DISTRICT AUTHORIZED STAFF, UPON PROPER IDENTIFICATION, WILL HAVE PERMISSION TO ENTER, INSPECT AND OBSERVE PERMITTED AND RELATED FACILITIES IN ORDER TO DETERMINE COMPLIANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND CONDITIONS OF THIS PERMIT.

2. NOTHING IN THIS PERMIT SHOULD BE CONSTRUED TO LIMIT THE AUTHORITY OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT TO DECLARE A WATER SHORTAGE AND ISSUE ORDERS PURSUANT TO SECTION 373.175, FLORIDA STATUTES, OR TO FORMULATE A PLAN FOR IMPLEMENTATION DURING PERIODS OF WATER SHORTAGE, PURSUANT TO SECTION 373.246, FLORIDA STATUTES. IN THE EVENT A WATER SHORTAGE IS DECLARED BY THE DISTRICT GOVERNING BOARD, THE PERMITTEE MUST ADHERE TO THE WATER SHORTAGE RESTRICTION AS SPECIFIED BY THE DISTRICT, EVEN THOUGH THE SPECIFIED WATER SHORTAGE RESTRICTIONS MAY BE INCONSISTENT WITH THE TERMS AND CONDITIONS OF THIS PERMIT.

3. PRIOR TO THE CONSTRUCTION, MODIFICATION, OR ABANDONMENT OF A WELL, THE PERMITTEE MUST OBTAIN A WATER WELL CONSTRUCTION PERMIT FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT OR THE APPROPRIATE LOCAL GOVERNMENT PURSUANT TO CHAPTER 40C-3, FLORIDA ADMINISTRATIVE CODE. CONSTRUCTION, MODIFICATION, OR ABANDONMENT OF A WELL WILL REQUIRE MODIFICATION OF THE CONSUMPTIVE USE PERMIT WHEN SUCH CONSTRUCTION, MODIFICATION OR ABANDONMENT IS OTHER THAN THAT SPECIFIED AND DESCRIBED ON THE CONSUMPTIVE USE PERMIT APPLICATION FORM.

4. LEAKING OR INOPERATIVE WELL CASINGS, VALVES, OR CONTROLS MUST BE REPAIRED OR REPLACED AS REQUIRED TO ELIMINATE THE LEAK OR MAKE THE SYSTEM FULLY OPERATIONAL.

5. LEGAL USES OF WATER EXISTING AT THE TIME OF PERMIT APPLICATION MAY NOT BE SIGNIFICANTLY ADVERSELY IMPACTED BY THE CONSUMPTIVE USE. IF UNANTICIPATED SIGNIFICANT ADVERSE IMPACTS OCCUR, THE DISTRICT SHALL REVOKE THE PERMIT IN WHOLE OR IN PART TO CURTAIL OR ABATE THE ADVERSE IMPACTS, UNLESS THE IMPACTS CAN BE MITIGATED BY THE PERMITTEE.

6. OFF-SITE LAND USES EXISTING AT THE TIME OF PERMIT APPLICATION MAY NOT BE SIGNIFICANTLY ADVERSELY IMPACTED AS A RESULT OF THE CONSUMPTIVE USE. IF UNANTICIPATED SIGNIFICANT ADVERSE IMPACTS OCCUR, THE DISTRICT SHALL REVOKE THE PERMIT IN WHOLE OR IN PART TO CURTAIL OR ABATE THE ADVERSE IMPACTS, UNLESS THE IMPACTS CAN BE MITIGATED BY THE PERMITTEE.

7. THE DISTRICT MUST BE NOTIFIED, IN WRITING, WITHIN 30 DAYS OF ANY SALE, CONVEYANCE, OR OTHER TRANSFER OF A WELL OR FACILITY FROM WHICH THE PERMITTED CONSUMPTIVE USE IS MADE OR WITHIN 30 DAYS OF ANY TRANSFER OF OWNERSHIP OR CONTROL OF THE REAL PROPERTY AT WHICH THE PERMITTED CONSUMPTIVE USE IS LOCATED. ALL TRANSFERS OF OWNERSHIP OR TRANSFERS OF PERMITS ARE SUBJECT TO THE PROVISIONS OF SECTION 40C-1.612.

8. A DISTRICT-ISSUED IDENTIFICATION TAG SHALL BE PROMINENTLY DISPLAYED AT EACH WITHDRAWAL SITE BY PERMANENTLY AFFIXING SUCH TAG TO THE PUMP, HEADGATE, VALVE OR OTHER WITHDRAWAL FACILITY AS PROVIDED BY SECTION 40C-2.401, FLORIDA ADMINISTRATIVE CODE. PERMITTEE SHALL NOTIFY THE DISTRICT IN THE EVENT THAT A REPLACEMENT TAG IS NEEDED.

9. IF THE PERMITTEE DOES NOT SERVE A NEW PROJECTED DEMAND LOCATED WITHIN THE SERVICE AREA UPON WHICH THE ANNUAL ALLOCATION WAS CALCULATED, THE ANNUAL ALLOCATION WILL BE SUBJECT TO MODIFICATION.

10. THE PERMITTEE MUST ENSURE THAT ALL SERVICE CONNECTIONS ARE METERED.

11. TREATED EFFLUENT MUST BE USED AS IRRIGATION WATER WHEN IT BECOMES AVAILABLE, ECONOMICALLY FEASIBLE, AND PERMISSIBLE UNDER APPLICABLE STATE AND FEDERAL STATUTES OR REGULATIONS PROMULGATED THEREUNDER.

12. THIS PERMIT WILL EXPIRE 7 YEARS FROM THE DATE OF ISSUANCE.

13. MAXIMUM ANNUAL GROUNDWATER WITHDRAWALS FOR HOUSEHOLD USE MUST NOT EXCEED

    536.45 MILLION GALLONS IN 1995,
    559.01 MILLION GALLONS IN 1996,
    581.55 MILLION GALLONS IN 1997,
    594.10 MILLION GALLONS IN 1998,
    596.65 MILLION GALLONS IN 1999,
    599.19 MILLION GALLONS IN 2000 AND
    601.74 MILLION GALLONS IN 2001.

14. MAXIMUM DAILY GROUNDWATER WITHDRAWALS FOR HOUSEHOLD USE MUST NOT EXCEED

    3.08 MILLION GALLONS IN 1995,
    3.09 MILLION GALLONS IN 1996,
    3.11 MILLION GALLONS IN 1997,
    3.12 MILLION GALLONS IN 1998,
    3.13 MILLION GALLONS IN 1999,
    3.15 MILLION GALLONS IN 2000 AND
    3.16 MILLION GALLONS IN 2001.

15. MAXIMUM DAILY GROUNDWATER WITHDRAWALS FOR FIRE PROTECTION MUST NOT EXCEED 7.73 MGALS.

WELLS 1, 2 & 3 (GREEN FOREST, OAK HILL & WHEAT RD.), AS LISTED ON THE APPLICATION, MUST BE EQUIPPED WITH TOTALIZING FLOW METERS. THESE METERS MUST MAINTAIN 95% ACCURACY, BE VERIFIABLE AND BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

17. TOTAL WITHDRAWALS FROM WELL NO.'S 1, 2 AND 5, AS LISTED ON THE APPLICATION, MUST BE RECORDED CONTINUOUSLY, TOTALED MONTHLY, AND REPORTED TO THE DISTRICT BY SEPTEMBER 30 (DATA FROM MARCH TO AUGUST) AND MARCH 31 (DATA FROM SEPTEMBER TO FEBRUARY) OF EACH YEAR FOR PERMIT DURATION USING FORM NO. EN-50. THE INITIAL SUBMITTAL MUST BE MADE BY MARCH 31, 1995.

18. THE PERMITTEE MUST PROPERLY MAINTAIN THE FLOW METERS. IN CASE OF FAILURE OR BREAKDOWN OF ANY METER, THE DISTRICT MUST BE NOTIFIED IN WRITING WITHIN 5 DAYS OF ITS DISCOVERY. A DEFECTIVE METER MUST BE REPAIRED OR REPLACED WITHIN 30 DAYS OF ITS DISCOVERY.

19. THE PERMITTEE MUST HAVE THE FLOW METERS CHECKED FOR ACCURACY AT LEAST ONCE EVERY 5 YEARS WITHIN 30 DAYS OF THE ANNIVERSARY DATE OF PERMIT ISSUANCE, AND RECALIBRATED IF THE DIFFERENCE BETWEEN THE ACTUAL FLOW AND THE METER READING IS GREATER THAN 5%. DISTRICT FORM NO. EN-51 MUST BE SUBMITTED TO THE DISTRICT WITHIN 10 DAYS OF THE INSPECTION/CALIBRATION.

20. IN THE EVENT THE PERMITTEE FILES A REQUEST WITH THE FLORIDA PUBLIC SERVICE COMMISSION (FPSC) TO CHANGE THE RATES OR RATE STRUCTURE APPLICABLE TO ITS WATER CUSTOMERS, AS PART OF ITS REQUEST JSU SHALL ALSO PROPOSE A "WATER CONSERVING RATE STRUCTURE". A COPY OF THE PROPOSAL BEING FILED WITH THE FPSC, SHALL SIMULTANEOUSLY BE SUBMITTED TO THE DISTRICT'S OFFICE OF GENERAL COUNSEL, P. O. BOX 1429, PALATKA, FL 32178-1429. THE PERMITTEE AGREES THAT IT WILL NOT OPPOSE A DISTRICT MOTION TO INTERVENE IN A JSU RATE PROCEEDING BEFORE THE FPSC.

21. WATER QUALITY MONITORING

A.) PERMITTEE MUST COLLECT SAMPLES FROM EACH WELL QUARTERLY AND HAVE EACH SAMPLE ANALYZED FOR THE FOLLOWING:

CHLORIDES	TOTAL IRON
SULFATES	TOTAL HARDNESS
CALCIUM	MAGNESIUM
FIELD TEMPERATURE	SODIUM

WITH THE ENTITIES LISTED ABOVE. THE QUARTERLY REPORTS MUST ALSO INCLUDE A COPY OF THE LATEST DRAFT OF EACH REUSE AGREEMENT BEING NEGOTIATED BETWEEN JSU AND ANY ONE OF THE GOLF COURSES AND THE CITY OF JACKSONVILLE. IF THE PERMITTEE FAILS TO REACH A REUSE AGREEMENT WITH THE CITY OF JACKSONVILLE WITHIN ONE YEAR OF PERMIT ISSUANCE, NEGOTIATION FOR THE PROVISION OF RECLAIMED WATER TO THE MILL COVE GOLF COURSE SHALL BE INITIATED BY JSU WITHIN 30 DAYS. WITHIN THE SAME 30 DAY PERIOD, AN IMPLEMENTATION PLAN FOR THE MILL COVE GOLF COURSE MUST ALSO BE SUBMITTED TO THE DISTRICT FOR STAFF APPROVAL. IN THE EVENT THAT MILL COVE AGREES TO ACCEPT AND UTILIZE RECLAIMED WATER FROM JSU IN ACCORDANCE WITH TARIFFS APPROVED BY THE PSC, JSU MUST PROVIDE RECLAIMED WATER TO THE MILL COVE COUNTRY CLUB IN ACCORDANCE WITH THE DISTRICT APPROVED IMPLEMENTATION PLAN, UNLESS THE DISTRICT DETERMINES THAT IT IS NOT FEASIBLE FOR MILL COVE TO ACCEPT RECLAIMED WATER. IN THE EVENT THAT BAYMEADOWS AND SAN JOSE COUNTRY CLUBS AGREE TO ACCEPT AND UTILIZE RECLAIMED WATER FROM JSU IN ACCORDANCE WITH TARIFFS APPROVED BY THE PSC, JSU MUST PROVIDE RECLAIMED WATER TO THE BAYMEADOWS AND SAN JOSE GOLF COURSES WITHIN THE DURATION OF THIS PERMIT, UNLESS THE DISTRICT DETERMINES THAT IT IS NOT FEASIBLE FOR THESE ENTITIES TO ACCEPT RECLAIMED WATER.

25. THE PERMITTEE MUST IMPLEMENT THE WATER CONSERVATION PLAN SUBMITTED TO THE DISTRICT ON NOVEMBER 7, 1994 AND ALL SUPPLEMENTS IN ACCORDANCE WITH THE SCHEDULE CONTAINED THEREIN AND/OR AS REFINED IN CONDITIONS OF THIS PERMIT. THE PERMITTEE MUST MAINTAIN A LOG OF THOSE ACTIVITIES COMPLETED AS PART OF THE PLAN. A REPORT, DETAILING THE PROGRESS OF PLAN IMPLEMENTATION, MUST BE SUBMITTED TO THE DISTRICT EVERY 2 YEARS ON THE ANNIVERSARY DATE OF THE PERMIT.

26. IF, AT ANY TIME WITHIN THE PERMIT DURATION JSUC CONSTRUCTS A WASTEWATER TREATMENT FACILITY IN AN AREA WHICH CURRENTLY DOES NOT HAVE SEWER SERVICE AND IT BECOMES PRACTICAL, ECONOMICALLY FEASIBLE AND PERMISSIBLE UNDER APPLICABLE STATE AND FEDERAL STATUTES OR REGULATIONS PROMULGATED THEREUNDER, THE DISTRICT MAY REQUIRE THE PERMITTEE TO PROVIDE RECLAIMED WATER FOR USE AT A PERMISSIBLE APPLICATION SITE.

27. WITHIN 6 MONTHS OF PERMIT ISSUANCE, THE PERMITTEE MUST HAVE DEVELOPED A WATER USE RECORDING PROCEDURE WITH THE FIRE DEPARTMENT AND/OR ANY OTHER UNMETERED USERS. FLOW OR WATER USE (MGALS) MUST BE RECORDED ANNUALLY AND PROVIDED TO THE DISTRICT UPON PERMIT RENEWAL OR EXPIRATION.

2-031-0034NX

28. SOURCE CLASSIFICATION IS CONFINED OR SEMI-CONFINED AQUIFER.

29. USE CLASSIFICATION IS 86% HOUSEHOLD, 14% WATER UTILITY AND ESSENTIAL (FIRE PROTECTION).

SPECIFIC CONDUCTANCE	POTASSIUM
FIELD PH	CARBONATE - FIELD & LAB
TOTAL DISSOLVED SOLIDS	BI-CARBONATES - TOTAL ALKALINITY

QUALITY ASSURANCE

PRIOR TO SAMPLE COLLECTION A MINIMUM OF 3-5 CASING VOLUMES (OR A MINIMUM OF TEN MINUTES OF OPERATION) MUST BE REMOVED FROM EACH WELL.

ALL MAJOR ION ANALYSES MUST BE CHECKED FOR ANION-CATION BALANCE AND MUST BALANCE WITHIN 5%. IT IS RECOMMENDED THAT DUPLICATES BE TAKEN TO ALLOW FOR LABORATORY ERRORS OR DATA LOSS.

ALL SAMPLING AND WATER QUALITY ANALYSIS SHALL BE PERFORMED BY ORGANIZATIONS WITH APPROVED COMPREHENSIVE OR GENERIC QUALITY ASSURANCE PLANS (COMQAPS) ON FILE WITH THE DEPT. OF ENVIRONMENTAL REGULATION OR A LABORATORY HAVING DHRS CERTIFICATION.

A REPORT INCLUDING ALL SAMPLE ANALYSIS AND AN EVALUATION OF THE DATA MUST BE SUBMITTED TO THE DISTRICT WITHIN 30 DAYS OF RECEIPT FROM THE LABORATORY.

22. WATER LEVEL MONITORING:

WATER LEVEL MEASUREMENTS (POTENTIOMETRIC LEVELS) MUST BE COLLECTED FROM EACH WELL MONTHLY AT THE APPROXIMATE SAME TIME EACH MONTH AND SUBMITTED TO THE DISTRICT QUARTERLY ALONG WITH THE REQUIRED WATER QUALITY SAMPLING DATA. THESE MEASUREMENTS MUST BE RECORDED IN FEET WITH RESPECT TO SEA LEVEL.

23. WITHIN ONE YEAR OF PERMIT ISSUANCE AND FOR EACH YEAR UNTIL PERMIT RENEWAL, PERMITTEE MUST SUBMIT A REPORT UPDATING THE RESULTS OF THE ANNUAL WATER AUDIT I.E. METER TESTING, LEAK DETECTION AND REPAIR PROGRAM FOR THE POTABLE DISTRIBUTION SYSTEM. IN ADDITION TO THE RESULTS, THE PERMITTEE MUST SUBMIT A DETAILED IMPLEMENTATION SCHEDULE AND PRIORITIZATION SCHEDULE FOR CORRECTIVE ACTIONS DIRECTED AT THE REDUCTION OF UNACCOUNTED FOR WATER LOSSES.

24. WITHIN 30 DAYS OF PERMIT ISSUANCE, THE PERMITTEE SHALL SUBMIT TO THE DISTRICT A COPY OF THE LATEST DRAFT REUSE AGREEMENTS UNDER NEGOTIATION WITH THE BAYMEADOWS AND SAN JOSE COUNTRY CLUBS, AND WITH THE CITY OF JACKSONVILLE. THEREAFTER THE PERMITTEE SHALL SUBMIT QUARTERLY STATUS REPORTS TO THE DISTRICT DETAILING ANY PROGRESS MADE DURING THE PRECEDING THREE MONTHS TOWARDS IMPLEMENTATION OF REUSE

Yulee Regional Lt. Nassau Co. (Office - Lofton Oaks)
- Wayne Scott
TDM/MILCA

Henry Dean, Executive Director
John R. Wehle, Assistant Executive Director

ST JOHNS RIVER WATER MANAGEMENT DISTRICT

POST OFFICE BOX 1429 PALATKA, FLORIDA 32178-1429
TELEPHONE 904-329-4500 1-800-451-7106 SUNCOM 904-860-4500
TDD 904-329-4450 TDD SUNCOM 860-4450
FAX (Executive) 329-4125 (Legal) 329-4485 (Permitting) 329-4315 (Administration/Finance) 329-4508

SERVICE CENTERS

618 E. South Street
Orlando, Florida 32801
407-897-4300
1-877-226-1658
TDD 407-897-5960

7775 Baymeadows Way
Suite 102
Jacksonville, Florida 32256
904-730-6270
1-800-852-1563
TDD 904-448-7900

PERMITTING:
305 East Drive
Melbourne, Florida 32904
407-984-4940
1-800-295-3264
TDD 407-722-5368

OPERATIONS:
2133 N. Wickham Road
Melbourne, Florida 32935-8109
407-752-3100
TDD 407-752-3102

September 8, 1998

RECEIVED
SEP 18 1998
UNITED WATER FLORIDA

UNITED WATER FLORIDA
ATTN: MUNIPALLI SAMBAMURTHI
1400 MILLCOE ROAD
JACKSONVILLE, FL 32225

SUBJECT: Consumptive Use Permit No. 942
FORMERLY CUP NOS. 2-089-0017 AND 2-089-0024

Enclosed is your permit and the forms necessary for submitting information to comply with conditions of the permit as authorized by the Governing Board of the St. Johns River Water Management District on September 8, 1998. All compliance information must be submitted to the District's Palatka office, P. O. Box 1429, Palatka, Florida 32178-1429.

Permit issuance does not relieve you from the responsibility of obtaining permits from any federal, state, and/or local agencies asserting concurrent jurisdiction for this work. The enclosed permit will expire on September 8, 2018.

In the event you sell your property, the permit will be transferred to the new owner if we are notified by you within thirty days of the recording of the sale. Please assist us in this matter so as to maintain a valid permit for the new property owner.

The permit enclosed is a legal document and should be kept with your other important documents. Please read the permit carefully since you are responsible for compliance with any provisos which are a part of this permit. Proviso compliance is a legal requirement and your assistance in this matter will be greatly appreciated.

According to Chapter 40C-2.401 and Section 6.4 of the Consumptive Water Use Handbook, a permanent tag will be issued by the District for well identification. This tag is prominently displayed at the site of withdrawal by permanently affixing the tag to the pump, headgate, valve, or other withdrawal facility. Failure to display a well tag shall constitute violation of a permit condition and may, if willful, be grounds for revocation of the permit. Please refer to your copy of 40C-2 if you need further clarification.

You will find enclosed a copy of the map submitted with your application, with each well's location and number identified. When placing the tag on the well, refer to this map to ensure proper well identification.

Dan Roach, CHAIRMAN FERNANDINA BEACH
Kathy Chinoy, VICE CHAIRMAN PONTE VEDRA
James T. Swann, TREASURER COCOA
Otis Mason, SECRETARY ST. AUGUSTINE
William M. Segal MAITLAND
Griffin A. Greene VERO BEACH
James H. Williams OCALA
Patricia T. Harden SANFORD
Reid Hughes DAYTONA BEACH

If you have any questions concerning your permit compliance information, the attached forms or well tags, contact me at 904-329-4274.

Thank you for your interest in our water resources.

Sincerely,

Gloria Jean Lewis

Gloria Lewis, Director
Division of Permit Data Services

Enclosures: Permit with compliance forms
Map
Well Tag(s)

cc: District Permit File

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
Post Office Box 1429
Palatka, Florida 32178-1429

PERMIT NO. 942 DATE ISSUED September 8, 1998

A PERMIT AUTHORIZING:

USE OF GROUND WATER FROM THE FLORIDAN AQUIFER TO SUPPLY AN ESTIMATED POPULATION OF 15,097 PEOPLE WITH WATER FOR HOUSEHOLD, WATER UTILITY AND ESSENTIAL (FIRE PROTECTION) USES.

LOCATION:

Section 25, Township 2 North, Range 28 East
Nassau County
UNITED WATER - NASSAU COUNTY SERVICE AREA

ISSUED TO:
(owner)

UNITED WATER FLORIDA
ATTN: MUNIPALLI SAMBAMURTHI
1400 MILLCOE ROAD
JACKSONVILLE, FL 32225

Permittee agrees to hold and save the St. Johns River Water Management District and its successors harmless from any and all damages, claims, or liabilities which may arise from permit issuance. Said application, including all plans and specifications attached thereto, is by reference made a part hereof.

This permit does not convey to permittee any property rights nor any rights or privileges other than those specified herein, nor relieve the permittee from complying with any law, regulation or requirement affecting the rights of other bodies or agencies. All structures and works installed by permittee hereunder shall remain the property of the permittee.

This Permit may be revoked, modified or transferred at any time pursuant to the appropriate provisions of Chapter 373 or 403, Florida Statutes and 40C-1, Florida Administrative Codes:

PERMIT IS CONDITIONED UPON:

See conditions on attached "Exhibit A", dated September 8, 1998

AUTHORIZED BY: St. Johns River Water Management District

Department of Resource Management Governing Board

By: _____ By: _____
(DIRECTOR) (ASSISTANT SECRETARY)
JEFF ELLEDGE HENRY DEAN

"EXHIBIT A"

CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 942

UNITED WATER FLORIDA

DATED September 8, 1998

1. District authorized staff, upon proper identification, will have permission to enter, inspect and observe permitted and related facilities in order to determine compliance with the approved plans, specifications and conditions of this permit.

2. Nothing in this permit should be construed to limit the authority of the St. Johns River Water Management District to declare a water shortage and issue orders pursuant to Section 373.175, Florida Statutes, or to formulate a plan for implementation during periods of water shortage, pursuant to Section 373.246, Florida Statutes. In the event a water shortage, as declared by the District Governing Board, the permittee must adhere reductions in water withdrawals as specified by the District.

3. Prior to the construction, modification, or abandonment of a well, the permittee must obtain a Water Well Construction Permit from the St. Johns River Water Management District or the appropriate local government pursuant to Chapter 40C-3, Florida Administrative Code. Construction, Modification, or abandonment of a well will require modification of the consumptive use permit when such construction, modification or abandonment is other than that specified and described on the consumptive use permit application form.

4. Leaking or inoperative well casings, valves, or controls must be repaired or replaced as required to eliminate the leak or make the system fully operational.

5. Legal uses of water existing at the time of permit application may not be significantly adversely impacted by the consumptive use. If unanticipated significant adverse impacts occur, the District shall revoke the permit in whole or in part to curtail or abate the adverse impacts, unless the impacts can be mitigated by the permittee.

6. Off-site land uses existing at the time of permit application may not be significantly adversely impacted as a result of the consumptive use. If unanticipated significant adverse impacts occur, the District shall revoke the permit in whole or in part to curtail or abate the adverse impacts, unless the impacts can be mitigated by the permittee.

7. The District must be notified, in writing, within 30 days of any sale, conveyance, or other transfer of a well or facility from which the permitted consumptive use is made or within 30 days of any transfer of ownership or control of the real property at which the permitted consumptive use is located. All transfers of ownership or transfers of permits are subject to the provisions of section 40C-1.612, F.A.C.

8. A District-issued identification tag shall be prominently displayed at each withdrawal site by permanently affixing such tag to the pump, headgate, valve or other withdrawal facility as provided by Section 40C-2.401, Florida Administrative Code. Permittee shall notify the District in the event that a replacement tag is needed.

9. If the permittee does not serve a new projected demand located within the service area upon which the annual allocation was calculated, the annual allocation will be subject to modification.

10. If water source is from wells, permittee must develop, implement, and submit to the District a Wellfield Operating Program within six (6) months on permit issuance. This program must explain which wells are primary, secondary, standby (reserve), the order of preference in turning on well, criteria for shutting down and restarting well, and any other aspects of wellfield management and operation.

11. Landscape irrigation is prohibited between the hours of 10:00 a.m. and 4:00 p.m., except as follows:

    A. Irrigation using a micro-irrigation system is allowed anytime.

    B. The use of reclaimed water for irrigation is allowed anytime, provided appropriate signs are placed on the property to inform the general public and District enforcement personnel of such use. Such signs must be in accordance with local restrictions.

    C. Irrigation of, or in preparation for planting, new landscape is allowed any time of day for one 30 day period provided irrigation is limited to the amount necessary for plant establishment.

    D. Watering in of chemicals, including insecticides, pesticides, fertilizers, fungicides, and herbicides when required by law, the manufacturer, or best management practices is allowed anytime within 24 hours of application.

E. Irrigation systems may be operated anytime for maintenance and repair purposes not to exceed ten minutes per hour per zone.

12. Treated effluent must be used as irrigation water when it becomes available, economically feasible, and permissible under applicable state and federal statutes or regulations promulgated thereunder.

13. If chemicals are injected into the irrigation system, the well or surface pump must be equipped with backflow prevention devices installed pursuant to Section 5E-2.030, F.A.C.

14. Whenever feasible, the permittee must use native vegetation that requires little supplemental irrigation for landscaping with the service area or the project.

15. All submittals made to demonstrate compliance with this permit must include the CUP number 942 plainly labeled.

16. This permit will expire 20 years from the date of issuance.

17. Maximum annual ground water withdrawals, from wells one (1), two (2), three (3) and four (4), as listed on the application, for household use must not exceed:

50.37 million gallons in 1998,
53.72 million gallons in 1999,
57.08 million gallons in 2000,
63.13 million gallons in 2001,
110.14 million gallons in 2002,
135.66 million gallons in 2003,
214.91 million gallons in 2004,
293.82 million gallons in 2005,
329.42 million gallons in 2006,
359.31 million gallons in 2007,
369.38 million gallons in 2008,
389.52 million gallons in 2009,
402.96 million gallons in 2010,
423.10 million gallons in 2011,
436.54 million gallons in 2012,
449.97 million gallons in 2013,
463.44 million gallons in 2014,
476.83 million gallons in 2015,
490.26 million gallons in 2016,
503.69 million gallons in 2017 and
517.12 million gallons in 2018.

18. Maximum annual ground water withdrawals, from wells one (1) and two (2), three (3) and four (4), as listed on the application, for both unaccounted water utility losses must not exceed

WELL Nº 1 = OTTER RUN #1
2 = OTTER RUN #2
3 = LAFAYETTE OAKS
4 = YULEE REGIONAL

4.38 million gallons in 1998,
4.70 million gallons in 1999,
4.96 million gallons in 2000,
5.49 million gallons in 2001,
9.58 million gallons in 2002,
11.79 million gallons in 2003,
18.68 million gallons in 2004,
25.55 million gallons in 2005,
28.65 million gallons in 2006,
31.24 million gallons in 2007,
32.12 million gallons in 2008,
33.87 million gallons in 2009,
35.04 million gallons in 2010,
36.79 million gallons in 2011,
37.96 million gallons in 2012,
39.13 million gallons in 2013,
40.30 million gallons in 2014,
41.47 million gallons in 2015,
42.64 million gallons in 2016,
43.81 million gallons in 2017 and
44.96 million gallons in 2018.

19. Within 60 days of permit issuance, wells no. one (1), two (2), three (3), as listed on the application, must be equipped with totalizing flow meters. Also, prior to initiating withdrawals from proposed well no. 4 (four), as listed on the application, the well must be equipped with a totalizing flow meter. These meters must maintain 95% accuracy, be verifiable and be installed according to the manufacturer s specifications.

20. Total withdrawals from wells no s one (1), two (2), three (3) and four (4) as listed on the application, must be recorded continuously, totaled monthly, and reported to the District at least every six months, for the duration of this permit, using District Form No. EN-50. The reporting dates each year will be as follows:

Reporting Period	Report Due Date
January - June	July 31
July - December	January 31

21. The permittee must maintain all meters. In case of failure or breakdown of any meter, the District must be notified in writing within 5 days of its discovery. A defective meter must be repaired or replaced within 30 days of its discovery.

22. The permittee must have all flow meters checked for accuracy at least once every 3 years within 30 days of the anniversary date of permit issuance, and recalibrated if the

difference between the actual flow and the meter reading is greater than 5%. District Form No. EN-51 must be submitted to the District within 10 days of the inspection/calibration.

23. Prior to construction of well no. 4, as listed on the application, the permittee must submit to the District a well construction and aquifer testing program for review and approval. Along with Appendix F of the Applicant s Handbook, the following outlines some of the procedures that must be followed during the construction of the well and while conducting an aquifer performance test on the proposed well:

a. downhole water quality testing - water quality sample to be collected with each addition of drill pipe from top of the Floridan to bottom hole depth. Sample must be analyzed in field for temperature, specific conductivity and sulfates. Any change in any of these parameters of 10% will require a sample to be collected at that depth and submitted to a laboratory for analysis

b. Within 30 days of completion of each well a suite of geophysical logs (gamma, electrical, resistivity and caliper) must be conducted and submitted to the District. The logs must be submitted to the District within 30 days of completion.

c. A 72 hour constant rate aquifer performance test (APT) is required on at least the proposed well no. 4. Details of the APT must be submitted to District staff for approval prior to the on-set of any testing. An outline of the constant rate discharge test can be found in Appendix H of the Applicant s Handbook. Additional items that must be addressed follow:

1) analytical method for determining observation well spacing. Provide values used for each aquifer parameter (Storativity, leakance, transmissivity, well depth, aquifer thickness etc.). Any analytical calculations or modeling should incorporate both existing and the proposed well pumping at the proposed (rate for maximum day use in 15 years) pump rate.

2) distance and direction from the production well to each observation well and from any Floridan wells within 5000 feet should be determined.

3) distance and direction from any known boundaries to each observation well should be determined

4) a map detailing the locations of all production and observation wells.

5) projected pumping rates for each well in 2013.

Also, design specifications of the A.P.T. must address the following

1. route, location and distance of discharge pipe
2. proposed pumping rate and method of verification during test
3. frequency of water quality collection during drilling
4. depths at which core samples will be collected and identified during drilling
5. frequency of water quality monitoring and parameters to be monitored during A.P.T.

* please note that someone capable of monitoring the A.P.T. must be on-site during the entire duration of the proposed A.P.T.

** Also, sulfates must be added to the parameter list , located in Step 2, Construction of On-site wells, Appendix F, A.H.

24. Prior to initiating withdrawals from well no. 4, the permittee must have submitted to the District for review and approval, a report detailing the required well construction testing program (downhole water quality, geophysical and lithologic logs) and an analysis of the aquifer testing program prepared in accordance with Appendix F of the Applicant s Handbook.

25. The use of master meters to supply potable water to any multi-family or multi-unit structure (excluding hospitals, hotels) developed after January 1, 1999 is prohibited. All individually owned units must be individually metered for water use.

26. The permittee must begin conducting and submitting audits, using the Districts current audit form, annually for permit duration. The annual audits must span a 12 month period from January 1 through December 31 and must be submitted to the District by January 31 of each year for permit duration.

27. Water quality monitoring

The permitee must collect a water quality sample from Floridan aquifer wells no s 1, 3 and 4, in May and October of each year for the duration of this permit and have the samples analyzed for the following:

Chlorides	Total Iron
Sulfates	Total Hardness
Calcium	Magnesium
Field Temperature	Sodium
Specific Conductance	Potassium
Field pH	Carbonate - lab

Bi-carbonate - total alkalinity if pH is 6.9 or lower
Total dissolved solids

Quality Assurance

Prior to sample collection a minimum of 3-5 casing volumes must be removed from each well.

All major ion analyses must be checked for anion-cation balance and should balance within 5%. It is recommended that duplicates be taken to allow for laboratory errors or data loss.

All sampling and water quality analysis shall be performed by organizations with approved comprehensive or generic quality assurance plans (COMQAPS) on file with the Dept. of Environmental Protection or a laboratory having DHRS certification.

A report including all sample analysis, anion-cation balance, chain of custody forms and an evaluation of the data must be submitted to the District within 30 days of receipt from the laboratory.

If the District determines that unacceptable saline water intrusion is occurring as a result of the withdrawals authorized by this permit, the District shall revoke the permit in whole or in part to curtail or abate the saline water intrusion.

28. The permittee may be required to make reclaimed water available for residential, golf course, park, cemetery, landscape irrigation or any other appropriate use if and when it becomes economically, environmentally and technologically feasible.

29. The permittee must continue to implement the Water Conservation Plan measures as submitted in the application dated May, 1998 and must include the following revisions:

    a. In addition to Duval County, the student education program must be extended to supply lectures or other educational medium to Nassau and St. Johns Counties.

b. The applicant must continue to pursue the provision of reclaimed water from all wastewater treatment facilities (i.e. San Jose, St. Johns Forest, St. Johns North, Royal Lakes) if it is deemed economically, environmentally and technologically feasible.

c. A new meter replacement program designed to replace meters based on the manufacturer's recommendations or an approved testing program.

30. The permittee shall submit, to the District, a compliance report pursuant to subsection 373.236(3), F.S., during the 10th year of this permit The permittee shall submit the report by January 31st of the required year. The report shall contain sufficient information to demonstrate that the permittee s use of water will continue, for the remaining duration of the permit, to meet the conditions for permit issuance set forth in the District rules that existed at the time the permit was issued for 20 years by the District. In providing such assurance, the compliance report must, at a minimum,:

(a) meet the submittal requirements of section 4.2 of the Applicant's Handbook: Consumptive Uses of Water, October 20, 1996;

(b) include a detailed evaluation of the economic, environmental, and technological feasibility of providing reclaimed water or lower water quality sources to supply the needs of this project;

(c) include a water quality summary report (charts, graphs) highlighting trends of water quality parameters monitored in wells no s 1, 3 and 4, as required in the Water Quality Monitoring condition of this permit, for each well for each of the previous 10 years.

Royal Lakes / Sem Yosa
Current C.U.P.

Henry Dean, Executive Director
John R. Wehle, Assistant Executive Director

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

POST OFFICE BOX 1429 PALATKA, FLORIDA 32178-1429
TELEPHONE 904-329-4500 1-800-451-7106 SUNCOM 904-860-4500
TDD 904-329-4450 TDD SUNCOM 860-4450
FAX (Executive) 329-4125 (Legal) 329-4485 (Permitting) 329-4315 (Administration/Finance) 329-4508

SERVICE CENTERS

618 E. South Street
Orlando, Florida 32801
407-897-4300
1-877-228-1658
FAX 407-897-4354
TDD 407-897-5960

7775 Baymeadows Way
Suite 102
Jacksonville, Florida 32256
904-730-6270
1-800-852-1563
FAX 904-730-6287
TDD 904-448-7900

PERMITTING:
305 East Drive
Melbourne, Florida 32904
407-984-4940
1-800-295-3264
FAX 407-722-5357
TDD 407-722-5368

OPERATIONS:
2133 N. Wickham Road
Melbourne, Florida 32935-8109
407-752-3100
TDD 407-752-3102

RECEIVED
JAN 18 2000
UNITED WATER FLORIDA

anuary 12, 2000

nited Water Florida

-00 Millcoe Rd
cksonville FL 32225

BJECT: Consumptive Use Permit # 593

closed is your permit and the forms necessary for submitting information to nply with conditions of the permit as authorized by the St. Johns River ter Management District Governing Board on October 12, 1999.

mit issuance does not relieve you from the responsibility of obtaining nits from any federal, state, and/or local agencies asserting concurrent sdiction over this work.

enclosed permit is a legal document and should be kept with your other ortant records. Please read the permit and conditions carefully since the enced conditions may require submittal of additional information. All mation submitted as compliance with permit conditions must be submitted e nearest District Service Center and should include the above referenced it number.

e be advised that the period of time within which a third party may st an administrative hearing on this permit may not have expired by the f issuance. A potential petitioner has twenty-six (26) days from the n which actual notice is deposited in the mail, or twenty-one (21) days publication of this notice, within which to file a petition for an istrative hearing pursuant to Chapter 120.57, F.S. Receipt of such a n by the District may result in this permit becoming null and void.

Willi , CHAIRMAN E BEACH
Ometrias D. Long, VICE CHAIRMAN APOPKA
Jeff K. Jennings, SECRETARY MAITLAND
Duane Ottenstroer, TREASU SWITZERLAND
William M. Segal
Otis Mason ST. AUGUSTINE
Clay Albright EAST LAKE WEIR

593

If you have any questions concerning your permit compliance information, the attached forms, or well tags, contact Caroline M. Silvers (Hydrologist IV) at (904)448-7903.

Sincerely,

Gloria Jean Lewis

Gloria Lewis, Director
Division of Permit Data Services

Enclosures:
Permit
Conditions for Issuance
Compliance Forms
Map
Well Tags

cc: District Permit File

Attn: Mr Craig Ferguson

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
PERMIT NUMBER: 593 **DATE ISSUED :** October 12, 1999
PROJECT NAME: San Jose & Royal Lakes

AUTHORIZATION:

San Jose Wellfield:
Use of 821.25 mgy of ground water from the Floridan aquifer to supply an estimated population of 15,303 people with water for household use, unaccounted for water (utility losses) and a maximum daily allocation for essential (fire protection) uses.
Royal Lakes Wellfield:
Use of 1,232.93 mgy of ground water from the Floridan aquifer to supply an estimated population of 13,562 people with water for household use, unaccounted for water (utility losses) and a maximum daily allocation for essential (fire protection) uses.

LOCATION:

SITE: SAN JOSE
Duval County
Section 43, Township 3S, Range 27E
SITE: ROYAL LAKE WTP
Duval County
Section 26, Township 3S, Range 27E

ISSUED TO:

United Water Florida

1400 Millcoe Rd
Jacksonville FL 32225

Permittee agrees to hold and save the St. Johns River Water Management District and its successors harmless from any and all damages, claims, or liabilities which may arise from permit issuance. Said application, including all maps and specifications attached thereto, is by reference made a part hereof.
This permit does not convey to permittee any property rights nor any rights or privileges other than those specified herein, nor relieve the permittee from complying with any law, regulation or requirement affecting the rights of other bodies or agencies. All structures and works installed by permittee hereunder shall remain the property of the permittee.

This permit may be revoked, modified, or transferred at any time pursuant to the appropriate provisions of Chapter 373, Florida Statutes and 40C-1 Florida Administrative Code.

ERMIT IS CONDITIONED UPON:

See conditions on attached "Exhibit A", dated October 12, 1999

AUTHORIZED BY: St. Johns River Water Management District
Department of Resource Management Governing Board

By: (DIRECTOR) By: (ASSISTANT SECRETARY)
Jeff Ellege Henry Dean

"Exhibit A"

CONDITIONS FOR ISSUANCE OF PERMIT # 593

San Jose & Royal Lakes

October 12, 1999

1. District Authorized staff, upon proper identification, will have permission to enter, inspect and observe permitted and related facilities in order to determine compliance with the approved plans, specifications and conditions of this permit.

2. Nothing in this permit should be construed to limit the authority of the St. Johns River Water Management District to declare a water shortage and issue orders pursuant to Section 373.175, Florida Statutes, or to formulate a plan for implementation during periods of water shortage, pursuant to Section 373.246, Florida Statutes. In the event a water shortage, is declared by the District Governing Board, the permittee must adhere to the water shortage restriction as specified by the District, even though the specified water shortage restrictions may be inconsistent with the terms and conditions of this permit.

3. Prior to the construction, modification, or abandonment of a well, the permittee must obtain a Water Well Construction Permit from the St. Johns River Water Management District, or the appropriate local government pursuant to Chapter 40C-3, Florida Administrative Code. Construction, modification, or abandonment of a well will require modification of the consumptive use permit when such construction, modification or abandonment is other than that specified and described on the consumptive use permit application form.

4. Leaking or inoperative well casings, valves, or controls must be repaired or replaced as required to eliminate the leak or make the system fully operational.

5. Legal uses of water existing at the time of the permit application may not be interfered with by the consumptive use. If unanticipated interference occurs, the District may revoke the permit in whole or in part to curtail or abate the interference unless the permittee mitigates for the interference. In those cases where other permit holders are identified by the District as also contributing to the interference, the permittee may choose to mitigate in a cooperative effort with these other permittees. The permittee must submit a mitigation plan to the District for approval prior to implementing such mitigation.

6. Off-site land uses existing at the time of permit application may not be significantly adversely impacted as a result of the consumptive use. If unanticipated significant adverse impacts occur, the District shall revoke the permit in whole or in part to curtail or abate the adverse impacts, unless the

impacts can be mitigated by the permittee.

7.
The District must be notified, in writing, within 30 days of any sale, conveyance, or other transfer of a well or facility from which the permitted consumptive use is made or within 30 days of any transfer of ownership or control of the real property at which the permitted consumptive use is located. All transfers of ownership or transfers of permits are subject to the provisions of section 40C-1.612, Florida Administrative Code.

8.
A District-issued identification tag shall be prominently displayed at each withdrawal site by permanently affixing such tag to the pump, headgate, valve or other withdrawal facility as provided by Section 40C-2.401, Florida Administrative Code. Permittee shall notify the District in the event that a replacement tag is needed.

9.
If the permittee does not serve a new projected demand located within the service area upon which the annual allocation was calculated, the annual allocation will be subject to modification.

10.
Landscape irrigation is prohibited between the hours of 10:00 a.m. and 4:00 p.m., except as follows:
(a) Irrigation using a micro-irrigation system is allowed anytime.

(b) The use of reclaimed water for irrigation is allowed anytime, provided appropriate signs are placed on the property to inform the general public and District enforcement personnel of such use. Such signs must be in accordance with local restrictions.

(c) Irrigation of, or in preparation for planting, new landscape is allowed any time of day for one 30 day period provided irrigation is limited to the amount necessary for plant establishment.

(d) Watering in of chemicals, including insecticides, pesticides, fertilizers, fungicides, and herbicides when required by law, the manufacturer, or best management practices is allowed anytime within 24 hours of application.

(e) Irrigation systems may be operated anytime for maintenance and repair purposes not to exceed ten minutes per hour per zone.

11.
All submittals made to demonstrate compliance with this permit must include the CUP number 593 plainly labeled on the submittal. (SAN JOSE)

12.
This permit will expire 5 years from the date of issuance. (SAN JOSE)

13.
Treated effluent must be used as irrigatin water when it becomes available, economically feasible, and permissible under applicable state and federal statutes or regulations promulgated thereunder. (SAN JOSE)

14 .
If chemicals are to be injected into the irrigation system, the permittee shall install and maintain a backflow device on all wells or surface pumps that are connected to the irrigation system. (SAN JOSE)

15 .
Whenever feasible, the permittee must use native vegetation that requires little supplemental irrigation for landscaping within the service area of the project. (SAN JOSE)

16 .
Maximum annual ground water withdrawals from the San Jose wellfield must not exceed:
722.70 million gallons in 1999,
726.36 million gallons in 2000,
730.02 million gallons in 2001,
733.63 million gallons in 2002,
737.30 million gallons in 2003 and
737.30 million gallons in 2004.
(SAN JOSE)

17 .
Maximum annual ground water withdrawals from the San Jose wells, as listed on the application, for unaccounted for water losses must not exceed
80.3 million gallons in 1999,
80.3 million gallons in 2000,
80.3 million gallons in 2001,
80.3 million gallons in 2002,
80.3 million gallons in 2003 and
83.95 million gallons in 2004.
(SAN JOSE)

18 .
Maximum daily groundwater withdrawals from the Floridan aquifer for essential use (fire protection) at the San Jose wellfield must not exceed 5.10 million gallons. Maximum daily groundwater withdrawals from the Floridan aquifer for essential use (fire protection) at the Royal Lakes wellfield must not exceed 9.72 million gallons. (SAN JOSE)

19 .
Wells no. one (1), two (2), three (3) at the San Jose wellfield and wells no. one (1), two (2), three (3) at the Royal Lakes wellfield, as listed on the application, must each be equipped with totalizing flow meters. These meters must maintain 95% accuracy, be verifiable and be installed according to the manufacturer's specifications. (SAN JOSE)

20 .
Total withdrawals from wells no's one (1), two (2) and three (3) at the San Jose and Royal Lakes wellfields, as listed on the application, must be recorded continuously, totaled monthly, and reported to the District at least every six months, for the duration of this permit, using District Form No. EN-50. The reporting dates each year will be as follows:

Reporting Period	Report Due Date
January - June	July 31

July - December January 31
(SAN JOSE)

21.
The permittee must maintain all meters. In case of failure or breakdown of any meter, the District must be notified in writing within 5 days of its discovery. A defective meter must be repaired or replaced within 30 days of its discovery. (SAN JOSE)

22.
The permittee must have all flow meters checked for accuracy at least once every 3 years within 30 days of the anniversary date of permit issuance, and recalibrated if the difference between the actual flow and the meter reading is greater than 5%. District Form No. EN-51 must be submitted to the District within 10 days of the inspection/calibration. (SAN JOSE)

23.
The use of master meters to supply potable water to any multi-family or multi-unit structure (excluding hospitals, hotels) developed after January 1, 2000 is prohibited. All individually owned units must be individually metered for water use. (SAN JOSE)

24.
The permittee must begin conducting and submitting audits, using the Districts current audit form, annually for permit duration. The annual audits must span a 12 month period from January 1 through December 31 and must be submitted to the District by January 31 of each year for permit duration.

Water Quality Monitoring:

The permitee must collect a water quality sample from each of the Floridan aquifer wells (no's 1, 2 and 3) at both the San Jose and Royal Lakes wellfields, in February, May, August and November of each year for the duration of this permit and have the samples analyzed for the following:

Chlorides	Total Iron
Sulfates	Total Hardness
Calcium	Magnesium
Field Temperature	Sodium
Specific Conductance	Potassium
Field pH	Carbonate - lab

Bi-carbonate - total alkalinity if pH is 6.9 or lower
Total dissolved solids

Quality Assurance

Prior to sample collection a minimum of 3-5 casing volumes must be removed from each well. All major ion analyses must be checked for anion-cation balance and should balance within 5%. It is recommended that duplicates be taken to allow for laboratory errors or data loss.

All sampling and water quality analysis shall be performed by organizations with approved comprehensive or generic quality assurance plans (COMQAPS) on file with the Dept. of Environmental Protection or a laboratory

having DHRS certification.

A report including all sample analysis, anion-cation balance, chain of custody forms and an evaluation of the data must be submitted to the District within 30 days of receipt from the laboratory.

If the District determines that unacceptable saline water intrusion is occurring as a result of the withdrawals authorized by this permit, the District shall revoke the permit in whole or in part to curtail or abate the saline water intrusion.
(SAN JOSE)

25.
Within 120 days of permit issuance (October 10, 2000), the permittee must apply for the District's Alternative Water Supply matching grant money to assist in funding the San Jose and Royal Lakes upgrades necessary for provision of reclaimed water to San Jose County Club and Baymeadows Golf Course. (SAN JOSE)

26.
The permittee must continue to implement the Water Conservation Plan measures as submitted in the application dated May, 1998, and must implement the following revisions to the plan:

a) In addition to Duval County, the student education program must be extended to supply lecturers or other educational medium to Nassau and St. Johns Counties.

c) The applicant must continue to pursue the provision of reclaimed water from all wastewater treatment facilities (i.e. San Jose, St. Johns Forest, St. Johns North and Royal Lakes) if it is deemed economically, environmentally and technologically feasible.

d) A new meter replacement program designed to replace meters based on the manufacturer's recommendations or an approved testing program.

(SAN JOSE)

27.
Within one year of permit issuance (October 10, 2000) and for the Royal Lakes service area, the permittee must have performed and submitted to the District for District approval:

a) a meter survey (to include a meter change out or calibration program),
b) a leak detection survey of all distribution lines
c) a revised audit incorporating all correction factors from meter calibration program
d) a detailed water conservation (retrofit, rain-sensor, rate structure etc.) or alternative program (submetering) to reduce the gpcd to a quantity more representative of the multi-family community (<110 gpcd) serviced by this wellfield
(SAN JOSE)

28.
All submittals made to demonstrate compliance with this permit must include the CUP number 593 plainly labeled on the submittal. (ROYAL LAKE WTP)

29.
This permit will expire 5 years from the date of issuance. (ROYAL LAKE WTP)

30 .
Maximum annual ground water withdrawals from the San Jose wellfield must not exceed:

722.70 million gallons in 1999,
726.36 million gallons in 2000,
730.02 million gallons in 2001,
733.63 million gallons in 2002,
737.30 million gallons in 2003 and
737.30 million gallons in 2004. (ROYAL LAKE WTP)

31 .
Maximum annual ground water withdrawals from the Royal Lakes wellfield must not exceed:

1,079.23 million gallons in 1999,
1,084.80 million gallons in 2000,
1,091.33 million gallons in 2001,
1,095.74 million gallons in 2002,
1,102.29 million gallons in 2003 and
1,108.83 million gallons in 2004. (ROYAL LAKE WTP)

32 .
Maximum annual ground water withdrawals from the San Jose wells, as listed on the application, for unaccounted for water losses must not exceed:

80.3 million gallons in 1999,
80.3 million gallons in 2000,
80.3 million gallons in 2001,
80.3 million gallons in 2002,
80.3 million gallons in 2003 and
83.95 million gallons in 2004. (ROYAL LAKE WTP)

33 .
Wells no. one (1), two (2), three (3) at the San Jose wellfield and wells no. one (1), two (2), three (3) at the Royal Lakes wellfield, as listed on the application, must each be equipped with totalizing flow meters. These meters must maintain 95% accuracy, be verifiable and be installed according to the manufacturer's specifications. (ROYAL LAKE WTP)

34 .
Total withdrawals from wells no's one (1), two (2) and three (3) at the San Jose and Royal Lakes wellfields, as listed on the application, must be recorded continuously, totaled monthly, and reported to the District at least every six months, for the duration of this permit, using District Form No. EN-50. The reporting dates each year will be as follows:

Reporting Period	Report Due Date
January - June	July 31
July - December	January 31

(ROYAL LAKE WTP)

35 .
The permittee must maintain all meters. In case of failure or breakdown of any meter, the District must be notified in writing within 5 days of its discovery. A defective meter must be repaired or replaced within 30 days of its discovery. (ROYAL LAKE WTP)

6.
The permittee must have all flow meters checked for accuracy at least once every 3 years within 30 days of the anniversary date of permit issuance, and recalibrated if the difference between the actual flow and the meter reading is greater than 5%. District Form No. EN-51 must be submitted to the District within 10 days of the inspection/calibration. (ROYAL LAKE WTP)

37.
The use of master meters to supply potable water to any multi-family or multi-unit structure (excluding hospitals, hotels) developed after January 1, 2000 is prohibited. All individually owned units must be individually metered for water use (ROYAL LAKE WTP)

38.
The permittee must begin conducting and submitting audits, using the Districts current audit form, annually for permit duration. The annual audits must span a 12 month period from January 1 through December 31 and must be submitted to the District by January 31 of each year for permit duration.

Water Quality Monitoring:

The permitee must collect a water quality sample from each of the Floridan aquifer wells (no's 1, 2 and 3) at both the San Jose and Royal Lakes wellfields, in February, May, August and November of each year for the duration of this permit and have the samples analyzed for the following:

Chlorides	Total Iron
Sulfates	Total Hardness
Calcium	Magnesium
Field Temperature	Sodium
Specific Conductance	Potassium
Field pH	Carbonate - lab
Bi-carbonate - total alkalinity if pH is 6.9 or lower	
Total dissolved solids	

Quality Assurance

Prior to sample collection a minimum of 3-5 casing volumes must be removed from each well. All major ion analyses must be checked for anion-cation balance and should balance within 5%. It is recommended that duplicates be taken to allow for laboratory errors or data loss.

All sampling and water quality analysis shall be performed by organizations with approved comprehensive or generic quality assurance plans (COMQAPS) on file with the Dept. of Environmental Protection or a laboratory having DHRS certification.

A report including all sample analysis, anion-cation balance, chain of custody forms and an evaluation of the data must be submitted to the District within 30 days of receipt from the laboratory.

If the District determines that unacceptable saline water intrusion is occurring as a result of the withdrawals authorized by this permit, the District

shall revoke the permit in whole or in part to curtail or abate the saline water intrusion.
(ROYAL LAKE WTP)

39 .
Within 120 days of permit issuance (October 10, 2000), the permittee must apply for the District's Alternative Water Supply matching grant money to assist in funding the San Jose and Royal Lakes upgrades necessary for provision of reclaimed water to San Jose County Club and Baymeadows Golf Course. (ROYAL LAKE WTP)

40 .
The permittee must continue to implement the Water Conservation Plan measures as submitted in the application dated May, 1998, and must implement the following revisions to the plan:

a) In addition to Duval County, the student education program must be extended to supply lecturers or other educational medium to Nassau and St. Johns Counties.

c) The applicant must continue to pursue the provision of reclaimed water from all wastewater treatment facilities (i.e. San Jose, St. Johns Forest, St. Johns North and Royal Lakes) if it is deemed economically, environmentally and technologically feasible.

d) A new meter replacement program designed to replace meters based on the manufacturer's recommendations or an approved testing program.
(ROYAL LAKE WTP)

41 .
Within one year of permit issuance (October 10, 2000) and for the Royal Lakes service area, the permittee must have performed and submitted to the District for District approval:

a) a meter survey (to include a meter change out or calibration program),
b) a leak detection survey of all distribution lines
c) a revised audit incorporating all correction factors from meter calibration program
d) a detailed water conservation (retrofit, rain-sensor, rate structure etc.) or alternative program (submetering) to reduce the gpcd to a quantity more representative of the multi-family community (< 110 gpcd) serviced by this wellfield.
(ROYAL LAKE WTP)

42 .
Maximum annual ground water withdrawals from the Royal Lakes wells, as listed on the application, for unaccounted for water losses must not exceed:

120.45 million gallons in 1999,
120.45 million gallons in 2000,
120.45 million gallons in 2001,
124.10 million gallons in 2002,
124.10 million gallons in 2003 and
124.10 million gallons in 2004. (ROYAL LAKE WTP)

43 .
Maximum daily groundwater withdrawals from the Floridan aquifer for essential use (fire protection) at the San Jose wellfield must not exceed 5.10 million gallons. Maximum daily groundwater withdrawals from the Floridan aquifer for

Essential use (fire protection) at the Royal Lakes wellfield must not exceed 9.72 million gallons.
(Royal Lake WTP)

St. Johns North
Current C.U.P

Henry Dean, Executive Director
John R. Wehle, Assistant Executive Director

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

POST OFFICE BOX 1429 PALATKA, FLORIDA 32178-1429
TELEPHONE 904-329-4500 1-800-451-7106 SUNCOM 904-860-4500
TDD 904-329-4450 TDD SUNCOM 860-4450
FAX (Executive) 329-4125 (Legal) 329-4485 (Permitting) 329-4315 (Administration/Finance) 329-4508

SERVICE CENTERS

618 E. South Street
Orlando, Florida 32801
407-897-4300
1-877-228-1658
FAX 407-897-4354
TDD 407-897-5960

7775 Baymeadows Way
Suite 102
Jacksonville, Florida 32256
904-730-6270
1-800-852-1563
FAX 904-730-6267
TDD 904-448-7900

PERMITTING:
305 East Drive
Melbourne, Florida 32904
407-984-4940
1-800-295-3264
FAX 407-722-5357
TDD 407-722-5368

OPERATIONS:
2133 N. Wickham Road
Melbourne, Florida 32935-8109
407-752-3100
TDD 407-752-3102

January 12, 2000

RECEIVED
JAN 18 200
TO WATER FLO

United Water Florida
Attn: Mr Gary Moseley

1400 Millcoe Rd
Jacksonville FL 32225

SUBJECT: Consumptive Use Permit # 1089

Enclosed is your permit and the forms necessary for submitting information to comply with conditions of the permit as authorized by the St. Johns River Water Management District Governing Board on September 07, 1999.

Permit issuance does not relieve you from the responsibility of obtaining permits from any federal, state, and/or local agencies asserting concurrent jurisdiction over this work.

The enclosed permit is a legal document and should be kept with your other important records. Please read the permit and conditions carefully since the referenced conditions may require submittal of additional information. All information submitted as compliance with permit conditions must be submitted to the nearest District Service Center and should include the above referenced permit number.

Please be advised that the period of time within which a third party may request an administrative hearing on this permit may not have expired by the date of issuance. A potential petitioner has twenty-six (26) days from the date on which actual notice is deposited in the mail, or twenty-one (21) days from publication of this notice, within which to file a petition for an administrative hearing pursuant to Chapter 120.57, F.S. Receipt of such a petition by the District may result in this permit becoming null and void.

William Kerr, CHAIRMAN MELBOURNE BEACH
Ometrias D. Long, VICE CHAIRMAN APOPKA
Jeff K. Jennings, SECRETARY MAITLAND
Duane Ottenstroer, TREASURER SWITZERLAND
Dan Roach FERNANDINA BEACH
William M. Segal MAITLAND
Otis Mason ST. AUGUSTINE
Clay Albright EAST LAKE WEIR
Reid Hughes DAYTONA BEACH

1089

If you have any questions concerning your permit compliance information, the attached forms, or well tags, contact Caroline M. Silvers (Hydrologist IV) at (904)448-7903.

Sincerely,

Gloria Jean Lewis

Gloria Lewis, Director
Division of Permit Data Services

Enclosures:
Permit
Conditions for Issuance
Compliance Forms
Map
Well Tags

cc: District Permit File

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
PERMIT NUMBER: 1089 DATE ISSUED : September 07, 1999
PROJECT NAME: United Waters -- St Johns North Service Area

AUTHORIZATION:

Use of 485.42 mgy of ground water from the Floridan aquifer to supply an stimated population of 10.196 people with water for household use, unaccounted for water (utility losses) and a maximum daily allocation for

LOCATION:

SITE: ST. JOHNS NORTH
St. Johns County
Section 8, Township 5S, Range 27E

ISSUED TO:

United Water Florida
Attn: Mr Gary Moseley

1400 Millcoe Rd
Jacksonville FL 32225

Permittee agrees to hold and save the St. Johns River Water Management District and its successors harmless from any and all damages, claims, or liabilities which may arise from permit issuance. Said application, including all maps and specifications attached thereto, is by reference made a part hereof.
This permit does not convey to permittee any property rights nor any rights or privileges other than those specified herein, nor relieve the permittee from complying with any law, regulation or requirement affecting the rights of other bodies or agencies. All structures and works installed by permittee hereunder shall remain the property of the permittee.

This permit may be revoked, modified, or transferred at any time pursuant to the appropriate provisions of Chapter 373, Florida Statutes and 40C-1 Florida Administrative Code.

PERMIT IS CONDITIONED UPON:

See conditions on attached "Exhibit A", dated September 07, 1999

AUTHORIZED BY: St. Johns River Water Management District
Department of Resource Management Governing Board

By: (DIRECTOR)
Jeff Ellege

By: (ASSISTANT SECRETARY)
Henry Dean

"Exhibit A"

CONDITIONS FOR ISSUANCE OF PERMIT # 1089

United Waters -- St Johns North Service Area
United Water Florida

September 07, 1999

1.
District Authorized staff, upon proper identification, will have permission to enter, inspect and observe permitted and related facilities in order to determine compliance with the approved plans, specifications and conditions of this permit.

2.
Nothing in this permit should be construed to limit the authority of the St. Johns River Water Management District to declare a water shortage and issue orders pursuant to Section 373.175, Florida Statutes, or to formulate a plan for implementation during periods of water shortage, pursuant to Section 373.246, Florida Statutes. In the event a water shortage, is declared by the District Governing Board, the permittee must adhere to the water shortage restriction as specified by the District, even though the specified water shortage restrictions may be inconsistent with the terms and conditions of this permit.

3.
Prior to the construction, modification, or abandonment of a well, the permittee must obtain a Water Well Construction Permit from the St. Johns River Water Management District, or the appropriate local government pursuant to Chapter 40C-3, Florida Administrative Code. Construction, modification, or abandonment of a well will require modification of the consumptive use permit when such construction, modification or abandonment is other than that specified and described on the consumptive use permit application form.

4.
Leaking or inoperative well casings, valves, or controls must be repaired or replaced as required to eliminate the leak or make the system fully operational.

5.
Legal uses of water existing at the time of the permit application may not be interfered with by the consumptive use. If unanticipated interference occurs, the District may revoke the permit in whole or in part to curtail or abate the interference unless the permittee mitigates for the interference. In those cases where other permit holders are identified by the District as also contributing to the interference, the permittee may choose to mitigate in a cooperative effort with these other permittees. The permittee must submit a mitigation plan to the District for approval prior to implementing such mitigation.

6.
Off-site land uses existing at the time of permit application may not be significantly adversely impacted as a result of the consumptive use. If unanticipated significant adverse impacts occur, the District shall revoke the permit in whole or in part to curtail or abate the adverse impacts, unless the

impacts can be mitigated by the permittee.

7. The District must be notified, in writing, within 30 days of any sale, conveyance, or other transfer of a well or facility from which the permitted consumptive use is made or within 30 days of any transfer of ownership or control of the real property at which the permitted consumptive use is located. All transfers of ownership or transfers of permits are subject to the provisions of section 40C-1.612, Florida Administrative Code.

8. A District-issued identification tag shall be prominently displayed at each withdrawal site by permanently affixing such tag to the pump, headgate, valve or other withdrawal facility as provided by Section 40C-2.401, Florida Administrative Code. Permittee shall notify the District in the event that a replacement tag is needed.

9. If the permittee does not serve a new projected demand located within the service area upon which the annual allocation was calculated, the annual allocation will be subject to modification.

10. If water source is from wells, permittee must develop, implement, and submit to the District a Wellfield Operating Program within six (6) months on permit issuance. This program must explain which wells are primary, secondary, standby reserve, (the order of preference in turning on well, criteria for shutting down and restarting well, and any other aspects of wellfield management and operation.

11. Landscape irrigation is prohibited between the hours of 10:00 a.m. and 4:00 p.m., except as follows:
(a) Irrigation using a micro-irrigation system is allowed anytime.

(b) The use of reclaimed water for irrigation is allowed anytime, provided appropriate signs are placed on the property to inform the general public and District enforcement personnel of such use. Such signs must be in accordance with local restrictions.

(c) Irrigation of, or in preparation for planting, new landscape is allowed any time of day for one 30 day period provided irrigation is limited to the amount necessary for plant establishment.

(d) Watering in of chemicals, including insecticides, pesticides, fertilizers, fungicides, and herbicides when required by law, the manufacturer, or best management practices is allowed anytime within 24 hours of application.

(e) Irrigation systems may be operated anytime for maintenance and repair purposes not to exceed ten minutes per hour per zone.

12. Treated effluent must be used as irrigation water when it becomes available, economically feasible, and permissible under applicable state and federal statutes or regulations promulgated thereunder.

13.
If chemicals are injected into the irrigation system, the well or surface pump must be equipped with backflow prevention devices installed pursuant to Section 5E-2.030, F.A.C.

14.
Whenever feasible, the permittee must use native vegetation that requires little supplemental irrigation for landscaping with the service are or the project.

15.
All submittals made to demonstrate compliance with this permit must include the CUP number 1089 plainly labeled on the submittal.
(ST. JOHNS NORTH)

16.
This permit will expire 10 years from the date of issuance. (ST. JOHNS NORTH)

17.
Maximum annual ground water withdrawals, from wells one (1), two (2), three (3) and four (4), as listed on the application, for household use must not exceed:

229.95 million gallons in 1999,
255.50 million gallons in 2000,
281.05 million gallons in 2001,
306.60 million gallons in 2002,
332.15 million gallons in 2003,
357.70 million gallons in 2004,
383.25 million gallons in 2005,
408.80 million gallons in 2006,
434.35 million gallons in 2007,
459.90 million gallons in 2008 and
485.42 million gallons in 2009. (ST. JOHNS NORTH)

18.
Maximum annual ground water withdrawals, from wells one (1) and two (2), three (3) and four (4), as listed on the application, for both unaccounted water losses must not exceed

16.06 million gallons in 1998,
18.25 million gallons in 1999,
20.44 million gallons in 2000,
22.63 million gallons in 2001,
24.46 million gallons in 2002,
26.65 million gallons in 2003,
28.47 million gallons in 2004,
30.66 million gallons in 2005,
32.49 million gallons in 2006,
34.68 million gallons in 2007,
36.87 million gallons in 2008 and
38.69 million gallons in 2009. (ST. JOHNS NORTH)

19. Maximum daily groundwater withdrawals from the Floridan aquifer for essential use (fire protection) must not exceed 5.16 million gallons. (ST. JOHNS NORTH)

20. Wells no. one (1), two (2), three (3) and four (4), as listed on the application, are equipped with totalizing flow meters. These meters must maintain 95% accuracy, be verifiable and be installed according to the manufacturer's specifications.
(ST. JOHNS NORTH)

21. Total withdrawals from wells no's one (1), two (2), three (3) and four (4) as listed on the application, must be recorded continuously, totaled monthly, and reported to the District at least every six months, for the duration of this permit, using District Form No. EN-50. The reporting dates each year will be as follows:

Reporting Period	Report Due Date
January - June	July 31
July - December	January 31

(ST. JOHNS NORTH)

22. The permittee must maintain all meters. In case of failure or breakdown of any meter, the District must be notified in writing within 5 days of its discovery. A defective meter must be repaired or replaced within 30 days of its discovery.
(ST. JOHNS NORTH)

23. The permittee must have all flow meters checked for accuracy at least once every 3 years within 30 days of the anniversary date of permit issuance, and recalibrated if the difference between the actual flow and the meter reading is greater than 5%. District Form No. EN-51 must be submitted to the District within 10 days of the inspection/calibration.
(ST. JOHNS NORTH)

24. The use of master meters to supply potable water to any multi-family or multi-unit structure (excluding hospitals, hotels) developed after January 1, 1999 is prohibited. All individually owned units must be individually metered for water use.
(ST. JOHNS NORTH)

25. The permittee must begin conducting and submitting audits, using the Districts current audit form, annually for permit duration. The annual audits must span a 12 month period from January 1 through December 31 and must be submitted to the District by January 31 of each year for permit duration.
(ST. JOHNS NORTH)

Water quality monitoring

The permitee must collect a water quality sample from Floridan aquifer wells no's 1, 3 and 4, in February, May, August and November of each year for the

28 .
The permittee must continue to implement the Water Conservation Plan measures as submitted in the application dated May, 1998, and must implement the following revisions to the plan:

a. In addition to Duval County, the student education program must be extended to supply lecturers or other educational medium to Nassau and St. Johns Counties.

b. The applicant must continue to pursue the provision of reclaimed water from all wastewater treatment facilities (i.e. San Jose, St. Johns Forest, St. Johns North and Royal Lakes) if it is deemed economically, environmentally and technologically feasible.

c. A new meter replacement program designed to replace meters based on the manufacturer's recommendations or an approved testing program. (ST. JOHNS NORTH)

Henry Dean, Executive Director
John R. Wehle, Assistant Executive Director

WATER MANAGEMENT DISTRICT

POST OFFICE BOX 1429 PALATKA, FLORIDA 32178-1429
TELEPHONE 904-329-4500 SUNCOM 904-860-4500
TDD 904-329-4450 TDD SUNCOM 860-4450
FAX (Executive) 329-4125 (Legal) 329-4485 (Permitting) 329-4315 (Administration/Finance) 329-4508

SERVICE CENTERS

618 E. South Street
Orlando, Florida 32801
407-897-4300
TDD 407-897-5960

7775 Baymeadows Way
Suite 102
Jacksonville, Florida 32256
904-730-6270
TDD 904-448-7900

PERMITTING:
305 East Drive
Melbourne, Florida 32904
407-984-4940
TDD 407-722-5368

OPERATIONS:
2133 N. Wickham Road
Melbourne, Florida 32935-8109
407-752-3100
TDD 407-752-3102

File - CUP Permit
St Johns Forest.

CERTIFIED NO.: P 093 764 776

January 14, 1998

UNITED WATER FLORIDA, INC.
1400 MILLCOE ROAD
JACKSONVILLE, FL 32239

SUBJECT: Consumptive Water Use Permit Number 2-109-0227NRM

The District has received a copy of the Warranty deed naming UNITED WATER FLORIDA, INC. as the owner of the parcel of property formerly owned by SUNRAY UTILITIES - ST. JOHNS, INC..

The above referenced permit is hereby transferred to UNITED WATER FLORIDA, INC.. As the new permit holder, you are required to comply with all conditions as noted in the permit. If you have any questions concerning the conditions of your permit, please contact JAY LAWRENCE in the Jacksonville office at 904-730-6270.

Thank you for your cooperation with this matter. If you have any questions or if the District can be of further assistance, please do not hesitate to contact us.

Sincerely,

Gloria Lewis

Gloria R. Lewis, Director
Division of Permit Data Services

Enclosures: Permit with Conditions
Well and/or Pump Tags
Compliance Forms

cc: District Permit File
JAY LAWRENCE
SUNRAY UTILITIES - ST. JOHNS, INC.
MARTIN, ADE, BIRCHFIELD & MICKLER, P.A.

William M. Segal, CHAIRMAN MAITLAND
Dan Roach, VICE CHAIRMAN FERNANDINA BEACH
James T. Swann, TREASURER COCOA
Otis Mason, SECRETARY ST. AUGUSTINE
Katr[illegible] Chinoy JACK[illegible]VILLE
Griffin A. Greene VERO BEACH
James H. Williams OCALA
Patricia T. Harden SANFORD
Reid Hughes DAYTONA BEACH

40C-1.612 TRANSFER OF OWNERSHIP OF PERMIT

(1) Transfer of Permitted Facility. Within (30) days of any sale, conveyance, or other transfer of a facility, system, or well permitted by the District, the existing permittee must notify the District, in writing, of such transfer, giving the name and address of the transferee and providing a copy of the instrument effectuating the transfer.

(2) Transfer of Interest in Real Property. Within 30 days of any transfer of ownership or control of the real property at which any permitted facility, system, consumptive use, or activity is located the permittee must notify the District, in writing, of the transfer, giving the name and address of the new owner or person in control and providing a copy of the instrument effectuating the transfer.

(3) Transfer of Permit. To transfer a permit, the permittee must provide the information required in subsections (1) and (2), together with a written statement from the proposed transferee that it will bound by all terms and conditions of the permit. Additionally, where applicable, the transferee must demonstrate that it is capable of constructing, operating and maintaining the permitted facility, system, consumptive use, well or or activity. Once the required information has been provided, the District may transfer the permit to the transferee.

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
Post Office Box 1429
Palatka, Florida 32178-1429

PERMIT NO. 2-109-0227NRM ORIGINAL PERMIT ISSUED October 12, 1993
PERMIT TRANSFER ISSUED January 14, 1998

A PERMIT AUTHORIZING:

USE OF GROUND WATER FROM THE FLORIDAN AQUIFER AND THE LOWER SURFICIAL AQUIFER TO SUPPLY AN ESTIMATED POPULATION OF 3,378 PEOPLE IN 7 YEARS.

LOCATION:

Section MULTIPLE, Township 05 South, Range 28 East
St. Johns County

ISSUED TO:
(owner)

UNITED WATER FLORIDA, INC.
1400 MILLCOE ROAD
JACKSONVILLE, FL 32239

Permittee agrees to hold and save the St. Johns River Water Management District and its successors harmless from any and all damages, claims, or liabilities which may arise from permit issuance. Said application, including all plans and specifications attached thereto, is by reference made a part hereof.

This permit does not convey to permittee any property rights nor any rights or privileges other than those specified herein, nor relieve the permittee from complying with any law, regulation or requirement affecting the rights of other bodies or agencies. All structures and works installed by permittee hereunder shall remain the property of the permittee.

This Permit may be revoked, modified or transferred at any time pursuant to the appropriate provisions of Chapter 373 or 403, Florida Statutes and 40C-1, Florida Administrative Codes:

PERMIT IS CONDITIONED UPON:

See conditions on attached "Exhibit A", dated October 12, 1993

AUTHORIZED BY: St. Johns River Water Management District

Department of Resource Management

By: _____
(DIRECTOR)
JEFF ELLEDGE

Governing Board

By: _____
(ASSISTANT SECRETARY)
HENRY DEAN

"EXHIBIT A"

CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 2-109-0227NRM

UNITED WATER FLORIDA, INC.

ORIGINAL PERMIT ISSUED OCTOBER 12, 1993

PERMIT TRANSFER ISSUED JANUARY 14, 1998

1. District authorized staff, upon proper identification, will have permission to enter, inspect and observe permitted and related facilities in order to determine compliance with the approved plans, specifications and conditions of this permit.

2. Nothing in this permit should be construed to limit the authority of the St. Johns River Water Management District to declare a water shortage and issue orders pursuant to Section 373.175, Florida Statutes, or to formulate a plan for implementation during periods of water shortage, pursuant to Section 373.246, Florida Statutes. In the event a water shortage, is declared by the District Governing Board, the permittee must adhere to the water shortage restriction as specified by the District, even though the specified water shortage restrictions may be inconsistent with the terms and conditions of this permit.

3. Prior to the construction, modification, or abandonment of a well, the permittee must obtain a Water Well Construction Permit from the St. Johns River Water Management District or the appropriate local government pursuant to Chapter 40C-3, Florida Administrative Code. Construction, Modification, or abandonment of a well will require modification of the consumptive use permit when such construction, modification or abandonment is other than that specified and described on the consumptive use permit application form.

4. Leaking or inoperative well casings, valves, or controls must be repaired or replaced as required to eliminate the leak or make the system fully operational.

5. Legal uses of water existing at the time of permit application may not be significantly adversely impacted by the consumptive use. If unanticipated significant adverse impacts occur, the District shall revoke the permit in whole or in part to curtail or abate the adverse impacts, unless the impacts can be mitigated by the permittee.

6. Off-site land uses existing at the time of permit application may not be significantly adversely impacted as a result of the consumptive use. If unanticipated

significant adverse impacts occur, the District shall revoke the permit in whole or in part to curtail or abate the adverse impacts, unless the impacts can be mitigated by the permittee.

7. The District must be notified, in writing, within 30 days of any sale, conveyance, or other transfer of a well or facility from which the permitted consumptive use is made or within 30 days of any transfer of ownership or control of the real property at which the permitted consumptive use is located. All transfers of ownership or transfers of permits are subject to the provisions of section 40C-1.612.

8. A District-issued identification tag shall be prominently displayed at each withdrawal site by permanently affixing such tag to the pump, headgate, valve or other withdrawal facility as provided by Section 40C-2.401, Florida Administrative Code. Permittee shall notify the District in the event that a replacement tag is needed.

9. If the permittee does not serve a new projected demand located within the service area upon which the annual allocation was calculated, the annual allocation will be subject to modification.

10. If water source is from wells, permittee must develop, implement, and submit to the District a Wellfield Operating Program within six (6) months of permit issuance. This program must explain which wells are primary, secondary, standby (reserve), the order of preference in turning on wells, criteria for shutting down and restarting wells, and any other aspects of wellfield management and operation.

11. On the tenth day following the month of record, permittee must submit to the District copies of the DER monthly water treatment plant reports on a monthly basis following the month of record. The permit number must be attached to all reports.

12. The permittee must ensure that all service connections are metered.

13. Treated effluent must be used as irrigation water when it becomes available, economically feasible, and permissible under applicable state and federal statutes or regulations promulgated thereunder.

14. Whenever feasible, the permittee must use native vegetation that requires little supplemental irrigation for landscaping within the service area of the project.

15. This permit will expire 7 years from the date of issuance.

16. Maximum annual groundwater withdrawals for public supply must not exceed:

    3.55 million gallons in 1993,
    16.32 million gallons in 1994,
    36.90 million gallons in 1995,
    66.00 million gallons in 1996,
    100.07 million gallons in 1997,
    117.10 million gallons in 1998, and
    136.98 million gallons in 1999

17. Maximum daily groundwater withdrawals for public supply must not exceed:

    21.88 million gallons in 1993
    100.63 million gallons in 1994
    227.50 million gallons in 1995
    406.88 million gallons in 1996
    616.88 million gallons in 1997
    721.88 million gallons in 1998
    844.38 million gallons in 1999

18. Water quality monitoring

    a) Permittee must begin monitoring existing Floridan wells 1 and 2 quarterly for each calendar year and must analyze each well for the following:

Chlorides	Total Iron
Sulfates	Total Hardness
Calcium	Magnesium
Field Temperature	Sodium
Specific Conductance	Potassium
Field Ph	Carbonate - field & lab

    Bi-carbonate - total alkalinity if Ph is 6.9 or lower

    Results of all analysis must be submitted to the District no later than the 15th day of receipt of analyses from the laboratory.

The results must be submitted to the following Jacksonville Field Office:

Attn: Caroline M. Silvers
St. Johns River Water Management District
7775 Baymeadows Way, Suite 102
Jacksonville, Fl 32256

Quality Assurance

Prior to sample collection a minimum of 3-5 casing volumes must be removed from each well.

All major ion analyses must be checked for anion-cation balance and should balance within 5%. It is recommended that duplicates be taken to allow for laboratory errors or data loss.

All sampling and water quality analysis shall be performed by organizations with approved comprehensive or generic quality assurance plans (COMQAPS) on file with the Dept. of Environmental Regulation or a laboratory having DHRS certification.

19. The permittee must measure the quantity of water withdrawn through the use of in-line totalizing flow meters on each well;

    (a) These meters must maintain 95% accuracy, be verifiable and be installed according to manufacturer specifications.

20. Total withdrawals from Floridan wells 1 and 2 and shallow wells 1 and 2 as listed on the application must be recorded continuously, totalled monthly, and reported to the District at least every six months from the initiation of the monitoring using Form No. EN-50.

21. The permittee must maintain all meters or other District approved flow measuring devices. In case of failure or breakdown of any meter or other device, the District must be notified in writing within 5 days of its discovery. A defective meter or other device must be repaired or replaced within 30 days of its discovery.

22. The permittee must have all flow meters checked for accuracy at least once every 3 years within 30 days of the anniversary date of permit issuance, and recalibrated if the difference between

the actual flow and the meter reading is greater than 5%. District Form No. EN-51 must be submitted to the District within 10 days of the inspection/calibration.

23. Each master meter's flows within the permittee's service area, must be recorded monthly and submitted to the District by January 15 of each year following the last 12 months of record. In addition, the permittee must record the name of the customer and the # of individual service connections per month within each customer base.

24. Permittee must implement the conservation plan submitted to the District on June 12, 1992 in accordance with the schedule contained therein. A report detailing the progress of plan implementation must be submitted to the District on or before January 1997 or upon modification, whichever date is sooner.

25. Prior to construction of any proposed wells, the permittee must submit an application to the District to modify their Consumptive Use Permit. The modification must include a proposed aquifer testing and drilling program for any proposed wells, a hydrogeologic evaluation of the Floridan and surficial aquifers accenting sulfate and TDS concentration trends, growth updates, reclaimed water distribution network report and an updated water conservation plan.

26. To insure that all new uses supplied by the permittee are reasonable beneficial, each new water supply contract entered into by the permittee must contain the following language: "Within one year of entering into this water supply agreement, Customer shall submit a water conservation plan to the St. Johns River Water Management District, Jacksonville Office, for review and approval. Each conservation plan must meet the requirements of Rule 40C-2.301, Florida Administrative Code, and Section 12.4.5.1, Applicant's Handbook, Consumptive Uses of Water. Customer agrees that this requirement shall be independently enforceable by the St. Johns River Water Management District, and the District's conservation plan requirements shall be satisfied at Customer's sole expense. Upon approval, Customer's water conservation plan shall be enforceable by the District."

Upon inclusion of the above language in permittee's water supply contracts, the District shall not require the permittee to enforce the requirement that the customers submit and have approved the aforementioned conservation plan by action for breach of

contract or other judicial means, and the permittee's lack of enforcement of this provision shall not be deemed a violation of this permit condition. In the event permittee or a customer fails to comply with this condition, the District may modify this permit to reduce or eliminate that portion of the water allocated under this permit for said customer's use.

In the event the District adopts amendments to Chapter 40C-2 which require "secondary users" to obtain consumptive use permits, the amendments shall supersede condition no. 12 to the extent the new rule is applicable to the Permittee's prospective wholesale customers.

27. The permittee must provide 100% of the reclaimed water available within seven years to Cimarrone Country Club for golf course and landscape irrigation. If reclaimed water in excess of the allocated irrigation requirements provided in Cimarrone's consumptive use permit becomes available, the excess reclaimed water must be made available for purposes considered reasonable beneficial in accordance with Chapter 40C-2.

28. The quantity of reclaimed water delivered to a permitted end user may not be in excess of District allocations for the site, provided there is a feasible alternative use for the reclaimed water.

29. Source classification is confined or semi-confined aquifer (136.98 Mgals/Yr).

30. Use classification is 90% household, 10% water utility.

Ponte Vedra

ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT

Henry Dean, Executive Director
...in R. Wehle, Assistant Executive Director

POST OFFICE BOX 1429 PALATKA, FLORIDA 32178-1429
TELEPHONE 904/329-4500 SUNCOM 904/860-4500
FAX (EXECUTIVE/LEGAL) 329-4125 (PERMITTING) 329-4315 (ADMINISTRATION/FINANCE) 329-4508

FIELD STATIONS

618 E. South Street
Orlando, Florida 32801
407 897-4300

7775 Baymeadows Way
Suite 102
Jacksonville, Florida 32256
904/730-6270

PERMITTING:
305 East Drive
Melbourne, Florida 32904
407/984-4940

OPERATIONS:
2133 N. Wickham Road
Melbourne, Florida 32935-8109
407/254-1762

JUNE 30, 1994

RECEIVED
JUL 05 1994
FLORIDA DISTRICT

PONTE VEDRA UTILITIES
1400 MILLCOE ROAD
JACKSONVILLE, FL 32225

CERTIFIED MAIL NO.: P 052 215 722

SUBJECT: CONSUMPTIVE WATER USE PERMIT 2-109-0118M
PONTE VEDRA UTILITIES

DEAR SIR/MADAM,

OUR RECORDS INDICATE PONTE VEDRA UTILITIES WAS ISSUED THE ABOVE CONSUMPTIVE USE PERMIT BY ST. JOHNS RIVER WATER MANAGEMENT DISTRICT FOR PUBLIC SUPPLY ON OCTOBER 15, 1987. THE EXPIRATION DATE ON THIS PERMIT IS OCTOBER 15, 1994. FOR YOUR CONVENIENCE, WE ARE ENCLOSING AN APPLICATION FORM FOR YOUR USE IN SUBMITTING AN APPLICATION FOR RENEWAL. IN ADDITION, IF YOU WOULD LIKE ASSISTANCE IN COMPLETING THIS APPLICATION FORM YOU MAY CONTACT THIS OFFICE AND WE WILL BE HAPPY TO ASSIST YOU. A MEETING CAN BE ARRANGED ON-SITE OR IN ONE OF OUR FOUR OFFICES.

PLEASE SUBMIT THE ENCLOSED APPLICATION, ALONG WITH THE APPROPRIATE FEE AS LISTED ON THE ENCLOSED ATTACHMENT, SO THAT YOUR PERMIT WILL CONTINUE AND YOU WILL NOT BE IN VIOLATION OF CHAPTER 40C-2. YOUR APPLICATION FOR RENEWAL MUST BE RECEIVED BY THIS AGENCY NO LATER THAN 5:00 PM ON THE DATE OF EXPIRATION. IF YOUR SUBMITTAL IS NOT RECEIVED BY OCTOBER 15, 1994, YOU WILL THEN HAVE TO RE-APPLY TO THE DISTRICT AS A NEW APPLICANT FOR A NEW PERMIT IN ORDER TO RESUME USE.

IF YOU HAVE ANY QUESTIONS REGARDING YOUR PERMIT OR IF WE CAN BE OF ANY ASSISTANCE, PLEASE FEEL FREE TO CONTACT THIS OFFICE.

SINCERELY,

Sandra Jones

LYNN MINOR, DATA MANAGEMENT SUPERVISOR
DIVISION OF PERMIT DATA SERVICES

ENCLOSURES: APPLICATION
FEE SCHEDULE

CC: DISTRICT PERMIT FILE

Joe E. Hill, CHAIRMAN LEESBURG
Patricia T. Harden, VICE CHAIRMAN SANFORD
Jesse J. Parrish, III, TREASURER TITUSVILLE
Lenore N. McCullagh, SECRETARY ORANGE PARK
Reid Hughes DAYTONA BEACH
Dan Roach FERNANDINA BEACH
William Segal MAITLAND
Denise M. Prescod JACKSONVILLE
James H. Williams OCALA

SJR WATER MANAGEMENT DISTRICT

Henry Dean, Executive Director
John R. Wehle, Assistant Executive Director

POST OFFICE BOX 1429 PALATKA, FLORIDA 32178-1429
TELEPHONE 904/329-4500 SUNCOM 904/860-4500
FAX (EXECUTIVE/LEGAL) 329-4125 (PERMITTING) 329-4315 (ADMINISTRATION/FINANCE) 329-4508

FIELD STATIONS

618 E. South Street
Orlando, Florida 32801
407/897-4300

7775 Baymeadows Way
Suite 102
Jacksonville, Florida 32256
904/730-6270

PERMITTING:
305 East Drive
[illegible]

OPERATIONS:
2133 N. Wickham Road
[illegible]32935-8109
[illegible]

JANUARY 26, 1994

RECEIVED
FEB 10 1994
FLORIDA DISTRICT

JACKSONVILLE SUBURBAN UTILITIES CORPORATION
1400 MILLCOE ROAD
JACKSONVILLE, FL 32225

SUBJECT: CONSUMPTIVE WATER USE PERMIT NUMBER 2-109-0118MM

THE DISTRICT HAS RECEIVED A COPY OF THE WARRANTY DEED NAMING JACKSONVILLE SUBURBAN UTILITIES CORPORATION AS THE OWNER OF THE PARCEL OF PROPERTY FORMERLY OWNED BY PONTE VEDRA UTILITIES.

PURSUANT TO SECTION 40C-1.612 (1), (2) AND (3) WHICH STATES:

"(1) TRANSFER OF PERMITTED FACILITY. WITHIN (30) DAYS OF ANY SALE, CONVEYANCE, OR OTHER TRANSFER OF A FACILITY, SYSTEM, OR WELL PERMITTED BY THE DISTRICT, THE EXISTING PERMITTEE MUST NOTIFY THE DISTRICT, IN WRITING, OF SUCH TRANSFER, GIVING THE NAME AND ADDRESS OF THE TRANSFEREE AND PROVIDING A COPY OF THE INSTRUMENT EFFECTUATING THE TRANSFER.

(2) TRANSFER OF INTEREST IN REAL PROPERTY. WITHIN 30 DAYS OF ANY TRANSFER OF OWNERSHIP OR CONTROL OF THE REAL PROPERTY AT WHICH ANY PERMITTED FACILITY, SYSTEM, CONSUMPTIVE USE, OR ACTIVITY IS LOCATED THE PERMITTEE MUST NOTIFY THE DISTRICT, IN WRITING, OF THE TRANSFER, GIVING THE NAME AND ADDRESS OF THE NEW OWNER OR PERSON IN CONTROL AND PROVIDING A COPY OF THE INSTRUMENT EFFECTUATING THE TRANSFER.

(3) TRANSFER OF PERMIT. TO TRANSFER A PERMIT, THE PERMITTEE MUST PROVIDE THE INFORMATION REQUIRED IN SUBSECTIONS (1) AND (2), TOGETHER WITH A WRITTEN STATEMENT FROM THE PROPOSED TRANSFEREE THAT IT WILL BOUND BY ALL TERMS AND CONDITIONS OF THE PERMIT. ADDITIONALLY, WHERE APPLICABLE, THE TRANSFEREE MUST DEMONSTRATE THAT IT IS CAPABLE OF CONSTRUCTING, OPERATING AND MAINTAINING THE PERMITTED FACILITY, SYSTEM, CONSUMPTIVE USE, WELL OR OR ACTIVITY. ONCE THE REQUIRED INFORMATION HAS BEEN PROVIDED, THE DISTRICT MAY TRANSFER THE PERMIT TO THE TRANSFEREE."

PERMIT 2-109-0118MM IS HEREBY TRANSFERRED TO JACKSONVILLE SUBURBAN UTILITIES CORPORATION. IF THERE IS AN ANTICIPATED CHANGE IN LAND OR WATER USE, A MODIFIED APPLICATION MUST BE SUBMITTED TO THE DISTRICT PRIOR TO THE PROPOSED CHANGE.

Joe E. Hill, CHAIRMAN LEESBURG
Patricia T. Harden, VICE CHAIRMAN SANFORD
Jesse J. Parrish, III, TREASURER TITUSVILLE
Lenore N. McCullagh, SECRETARY ORANGE PARK
Reid Hughes DAYTONA BEACH
Dan Roach FERNANDINA BEACH
William Segal MAITLAND
Denise M. Prescod JACKSONVILLE
James H. Williams OCALA

AS THE PERMIT HOLDER, YOU WILL BE RESPONSIBLE FOR SUPPLYING ANY INFORMATION WHICH IS SHOWN IN THE PERMIT CONDITIONS. IF YOU HAVE ANY QUESTIONS CONCERNING THE CONDITIONS, PLEASE CONTACT ME AT THE ABOVE ADDRESS OR CALL 904/329-4274.

THANK YOU FOR YOUR COOPERATION WITH THIS MATTER. IF YOU HAVE ANY QUESTIONS OR IF THE DISTRICT CAN BE OF FURTHER ASSISTANCE TO YOU, PLEASE DO NOT HESITATE TO CONTACT THIS OFFICE.

SINCERELY,

Rosie Parker

ROSIE PARKER, DATA CONTROL TECHNICIAN
DIVISION OF PERMIT DATA SERVICES

ENCLOSURES: PERMIT WITH CONDITIONS
WELL TAGS
COMPLIANCE FORMS

CC: DISTRICT PERMIT FILE
LYNN MINOR
PONTE VEDRA UTILITIES
MARTIN ADE BIRCHFIELD & MICKLER

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
POST OFFICE BOX 1429
PALATKA, FLORIDA 32178-1429

PERMIT NO. 2-109-0119WM DATE ISSUED OCTOBER 13, 1987

A PERMIT AUTHORIZING:

USE OF GROUNDWATER FROM THE FLORIDAN AQUIFER TO SERVE AN ESTIMATED POPULATION OF 11,422 PEOPLE IN 7 YEARS

LOCATION:

SECTION 16 27 43, TOWNSHIP 03 SOUTH, RANGE 29 EAST
ST. JOHNS COUNTY,
PONTE VEDRA BEACH NTH & STH

ISSUED TO:
(OWNER)

JACKSONVILLE SUBURBAN UTILITIES CORPORATION
1400 MILLCOE ROAD
JACKSONVILLE, FL 32225

PERMITTEE AGREES TO HOLD AND SAVE THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND ITS SUCCESSORS HARMLESS FROM ANY AND ALL DAMAGES, CLAIMS, OR LIABILITIES WHICH MAY ARISE FROM PERMIT ISSUANCE. SAID APPLICATION, INCLUDING ALL PLANS AND SPECIFICATIONS ATTACHED THERETO, IS BY REFERENCE MADE A PART HEREOF.

THIS PERMIT DOES NOT CONVEY TO PERMITTEE ANY PROPERTY RIGHTS NOR ANY RIGHTS OR PRIVILEGES OTHER THAN THOSE SPECIFIED HEREIN, NOR RELIEVE THE PERMITTEE FROM COMPLYING WITH ANY LAW, REGULATION OR REQUIREMENT AFFECTING THE RIGHTS OF OTHER BODIES OR AGENCIES. ALL STRUCTURES AND WORKS INSTALLED BY PERMITTEE HEREUNDER SHALL REMAIN THE PROPERTY OF THE PERMITTEE.

THIS PERMIT MAY BE REVOKED, MODIFIED OR TRANSFERRED AT ANY TIME PURSUANT TO THE APPROPRIATE PROVISIONS OF CHAPTER 373 OR 403, FLORIDA STATUTES AND 40C-1, FLORIDA ADMINISTRATIVE CODES:

PERMIT IS CONDITIONED UPON:

SEE CONDITIONS ON ATTACHED "EXHIBIT A", DATED OCTOBER 13, 1987

AUTHORIZED BY: ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

DEPARTMENT OF RESOURCE MANAGEMENT , GOVERNING BOARD

BY: _____
(DIRECTOR)
JEFF ELLEDGE

BY: _____
(ASSISTANT SECRETARY)
HENRY DEAN

"EXHIBIT A"

CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 2-109-0118NM

JACKSONVILLE SUBURBAN UTILITIES CORPORATION

DATED OCTOBER 13, 1987

1. DISTRICT AUTHORIZED STAFF, UPON PROPER IDENTIFICATION, WILL HAVE PERMISSION TO ENTER, INSPECT AND OBSERVE PERMITTED AND RELATED FACILITIES IN ORDER TO DETERMINE COMPLIANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND CONDITIONS OF THIS PERMIT.

2. NOTHING IN THIS PERMIT SHOULD BE CONSTRUED TO LIMIT THE AUTHORITY OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT TO DECLARE A WATER SHORTAGE AND ISSUE ORDERS PURSUANT TO SECTION 373.175, FLORIDA STATUTES, OR TO FORMULATE A PLAN FOR IMPLEMENTATION DURING PERIODS OF WATER SHORTAGE, PURSUANT TO SECTION 373.246, FLORIDA STATUTES. IN THE EVENT OF A WATER SHORTAGE, AS DECLARED BY THE DISTRICT GOVERNING BOARD, THE PERMITTEE MUST ADHERE TO REDUCTIONS IN WATER WITHDRAWALS AS SPECIFIED BY THE DISTRICT.

3. PRIOR TO THE CONSTRUCTION, MODIFICATION, OR ABANDONMENT OF A WELL, THE PERMITTEE MUST OBTAIN A WATER WELL CONSTRUCTION PERMIT FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT PURSUANT TO CHAPTER 40C-3, FLORIDA ADMINISTRATIVE CODE. CONSTRUCTION, MODIFICATION OR ABANDONMENT OF A WELL WILL REQUIRE MODIFICATION OF THE CONSUMPTIVE USE PERMIT WHEN SUCH CONSTRUCTION, MODIFICATION OR ABANDONMENT IS OTHER THAN THAT SPECIFIED AND DESCRIBED ON THE CONSUMPTIVE USE PERMIT APPLICATION FORM.

4. LEAKING OR INOPERATIVE WELL CASINGS, VALVES, OR CONTROLS MUST BE REPAIRED OR REPLACED AS REQUIRED TO PUT THE SYSTEM BACK IN AN OPERATIVE CONDITION ACCEPTABLE TO THE DISTRICT. FAILURE TO MAKE SUCH REPAIRS WILL BE CAUSE FOR DEEMING THE WELL ABANDONED IN ACCORDANCE WITH CHAPTER 17.21.02(5), FLORIDA ADMINISTRATIVE CODE AND CHAPTER 373.309, FLORIDA STATUTES.

5. PERMITTEE MUST MITIGATE ANY ADVERSE IMPACT CAUSED BY WITHDRAWALS PERMITTED HEREIN ON LEGAL USES OF WATER EXISTING AT THE TIME OF PERMIT APPLICATION. THE DISTRICT HAS THE RIGHT TO CURTAIL PERMITTED WITHDRAWAL RATES OR WATER ALLOCATIONS IF THE WITHDRAWALS OF WATER CAUSE AN ADVERSE IMPACT ON LEGAL USES OF WATER WHICH EXISTED AT THE TIME OF PERMIT APPLICATION. ADVERSE IMPACTS ARE EXEMPLIFIED BUT NOT LIMITED TO:

   (A) REDUCTION OF WELL WATER LEVELS RESULTING IN A REDUCTION OF 10% IN THE ABILITY OF AN ADJACENT WELL TO PRODUCE WATER;

(B) REDUCTION OF WATER LEVELS IN AN ADJACENT SURFACE WATER BODY RESULTING IN A SIGNIFICANT IMPAIRMENT OF THE USE OF WATER IN THAT WATER BODY.

(C) SALINE WATER INTRUSION OR INTRODUCTION OF POLLUTANTS INTO THE WATER SUPPLY OF AN ADJACENT WATER USE RESULTING IN A SIGNIFICANT REDUCTION OF WATER QUALITY; AND

(D) CHANGE IN WATER QUALITY RESULTING IN EITHER IMPAIRMENT OR LOSS OF USE OF A WELL OR WATER BODY.

6. PERMITTEE MUST MITIGATE ANY ADVERSE IMPACT CAUSED BY WITHDRAWALS PERMITTED HEREIN ON ADJACENT LAND USES WHICH EXISTED AT THE TIME OF PERMIT APPLICATION. THE DISTRICT HAS THE RIGHT TO CURTAIL PERMITTED WITHDRAWAL RATES OF WATER ALLOCATIONS IF WITHDRAWALS OF WATER CAUSE AN ADVERSE IMPACT ON ADJACENT LAND USE WHICH EXISTED AT THE TIME OF PERMIT APPLICATION. ADVERSE IMPACTS ARE EXEMPLIFIED BY BUT NOT LIMITED TO:

(A) SIGNIFICANT REDUCTION IN WATER LEVELS IN AN ADJACENT SURFACE WATER BODY;

(B) LAND COLLAPSE OR SUBSIDENCE CAUSED BY A REDUCTION IN WATER LEVELS; AND

(C) DAMAGE TO CROPS AND OTHER TYPES OF VEGETATION.

7. THE DISTRICT MUST BE NOTIFIED, IN WRITING, WITHIN 30 DAYS OF THE TRANSFER OF THIS PERMIT. ALL TRANSFERS ARE SUBJECT TO THE PROVISIONS OF SECTION 40C-2.351, FLORIDA ADMINISTRATIVE CODE, WHICH STATES THAT ALL TERMS AND CONDITIONS OF THE PERMIT SHALL BE BINDING OF THE TRANSFEREE.

8. A DISTRICT-ISSUED IDENTIFICATION TAG SHALL BE PROMINENTLY DISPLAYED AT EACH WITHDRAWAL SITE BY PERMANENTLY AFFIXING SUCH TAG TO THE PUMP, HEADGATE, VALVE OR OTHER WITHDRAWAL FACILITY AS PROVIDED BY SECTION 40C-2.401, FLORIDA ADMINISTRATIVE CODE. PERMITTEE SHALL NOTIFY THE DISTRICT IN THE EVENT THAT A REPLACEMENT TAG IS NEEDED.

9. IF THE PERMITTEE DOES NOT SERVE A NEW PROJECTED DEMAND LOCATED WITHIN THE SERVICE AREA UPON WHICH THE ANNUAL ALLOCATION WAS CALCULATED, THE ANNUAL ALLOCATION WILL BE SUBJECT TO MODIFICATION.

10. ON THE TENTH DAY FOLLOWING THE MONTH OF RECORD, PERMITTEE MUST SUBMIT TO THE DISTRICT COPIES OF THE DER MONTHLY WATER TREATMENT PLANT REPORTS ON A MONTHLY BASIS FOLLOWING THE MONTH OF RECORD. THE PERMIT NUMBER MUST BE ATTACHED TO ALL REPORTS.

11. TREATED EFFLUENT MUST BE USED AS IRRIGATION WATER WHEN IT BECOMES PRACTICAL, ECONOMICALLY FEASIBLE, AND PERMISSIBLE UNDER APPLICABLE STATE AND FEDERAL STATUTES OR REGULATIONS PROMULGATED THEREUNDER.

12. WHENEVER FEASIBLE, THE PERMITTEE MUST USE NATIVE VEGETATION THAT REQUIRES LITTLE SUPPLEMENTAL IRRIGATION FOR LANDSCAPING WITHIN THE SERVICE AREA OF THE PROJECT.

13. THIS PERMIT WILL EXPIRE 7 YEARS FROM THE DATE OF ISSUANCE.

14. MAXIMUM ANNUAL WITHDRAWALS MUST NOT EXCEED 488.5 MGAL IN 1988; 548.7 MGAL IN 1989; 614.4 MGAL IN 1990; 668.1 MGAL IN 1991; 700.9 MGAL IN 1992; 730.0 MGAL IN 1993; AND 833.8 MGAL IN 1994.

15. MAXIMUM DAILY WITHDRAWALS MUST NOT EXCEED 2.68 MGAL IN 1988; 3.01 MGAL IN 1989; 3.37 MGAL IN 1990; 3.65 MGAL IN 1991; 3.84 MGAL IN 1992; 4.00 MGAL IN 1993; AND 4.57 MGAL IN 1994.

16. SOURCE CLASSIFICATION IS CONFINED OR SEMI-CONFINED AQUIFER.

17. USE CLASSIFICATION IS 70% HOUSEHOLD; 25% COMMERCIAL/ INDUSTRIAL; AND 5% URBAN LANDSCAPE IRRIGATION.

18. A WATER SAMPLE MUST BE TAKEN FROM EACH PRODUCTION WELL IN MAY AND OCTOBER EACH YEAR FOR THE DURATION OF THE PERMIT. THE SAMPLES MUST BE COLLECTED AFTER THE WELL HAS BEEN ALLOWED TO DISCHARGE AT LEAST 20 MINUTES AT DESIGN CAPACITY. THE SAMPLES MUST BE ANALYZED FOR CHLORIDE; SODIUM; POTASSIUM; CALCIUM; MAGNESIUM; SULFATE; TOTAL DISSOLVED SOLIDS (TDS); AND PH. THE ANALYSES MUST BE SENT TO THE DISTRICT WITHIN 30 DAYS OF SAMPLING.

19. THE PERMITTEE MUST MAINTAIN RECORDS OF THE DAILY WASTEWATER FLOW FROM THE PONTE VEDRA WASTEWATER TREATMENT PLANT. THE AVERAGE DAILY FLOW (ADF) MUST BE CALCULATED ON A MONTHY BASIS. THE MONTHLY ADF CALCULATIONS MUST BE SENT TO THE DISTRICT EVERY 6 MONTHS STARTING AT THE ISSUANCE OF THIS PERMIT. WHEN THE ADF REACHES .300 MGD; THE PERMITTEE MUST DISPOSE OF ALL TREATED EFFLUENT ON THE PONTE VEDRA GOLF COURSE.

SJR WATER MANAGEMENT DISTRICT

Ponce de Leon

Henry Dean, Executive Director
John R. Wehle, Assistant Executive Director

POST OFFICE BOX 1429 PALATKA, FLORIDA 32178-1429
TELEPHONE 904/329-4500 SUNCOM 904/860-4500
FAX (EXECUTIVE/LEGAL) 329-4125 (PERMITTING) 329-4315 (ADMINISTRATION/FINANCE) 329-4508

FIELD STATIONS

618 E. South Street
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PERMITTING:
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Melbourne, Florida 32904
407/984-4940

OPERATIONS:
2133 N. Wickham Road
Melbourne, Florida 32935-8109
407/254-1762

JANUARY 26, 1994

RECEIVED
FEB 04 1994
FLORIDA DISTRICT

JACKSONVILLE SUBURBAN UTILITIES
1400 MILLCOE ROAD
JACKSONVILLE, FL 32225

SUBJECT: CONSUMPTIVE WATER USE PERMIT NUMBER 2-109-0110NMR

OPERATIONS - W/TAGS
GN
FILE - W/COPY OF TAGS
A·I·A NORTH & SOUTH

THE DISTRICT HAS RECEIVED A COPY OF THE WARRANTY DEED NAMING JACKSONVILLE SUBURBAN UTILITIES AS THE OWNER OF THE PARCEL OF PROPERTY FORMERLY OWNED BY PONTE VEDRA UTILITIES.

PURSUANT TO SECTION 40C-1.612 (1), (2) AND (3) WHICH STATES:

"(1) TRANSFER OF PERMITTED FACILITY. WITHIN (30) DAYS OF ANY SALE, CONVEYANCE, OR OTHER TRANSFER OF A FACILITY, SYSTEM, OR WELL PERMITTED BY THE DISTRICT, THE EXISTING PERMITTEE MUST NOTIFY THE DISTRICT, IN WRITING, OF SUCH TRANSFER, GIVING THE NAME AND ADDRESS OF THE TRANSFEREE AND PROVIDING A COPY OF THE INSTRUMENT EFFECTUATING THE TRANSFER.

(2) TRANSFER OF INTEREST IN REAL PROPERTY. WITHIN 30 DAYS OF ANY TRANSFER OF OWNERSHIP OR CONTROL OF THE REAL PROPERTY AT WHICH ANY PERMITTED FACILITY, SYSTEM, CONSUMPTIVE USE, OR ACTIVITY IS LOCATED THE PERMITTEE MUST NOTIFY THE DISTRICT, IN WRITING, OF THE TRANSFER, GIVING THE NAME AND ADDRESS OF THE NEW OWNER OR PERSON IN CONTROL AND PROVIDING A COPY OF THE INSTRUMENT EFFECTUATING THE TRANSFER.

(3) TRANSFER OF PERMIT. TO TRANSFER A PERMIT, THE PERMITTEE MUST PROVIDE THE INFORMATION REQUIRED IN SUBSECTIONS (1) AND (2), TOGETHER WITH A WRITTEN STATEMENT FROM THE PROPOSED TRANSFEREE THAT IT WILL BOUND BY ALL TERMS AND CONDITIONS OF THE PERMIT. ADDITIONALLY, WHERE APPLICABLE, THE TRANSFEREE MUST DEMONSTRATE THAT IT IS CAPABLE OF CONSTRUCTING, OPERATING AND MAINTAINING THE PERMITTED FACILITY, SYSTEM, CONSUMPTIVE USE, WELL OR OR ACTIVITY. ONCE THE REQUIRED INFORMATION HAS BEEN PROVIDED, THE DISTRICT MAY TRANSFER THE PERMIT TO THE TRANSFEREE."

PERMIT 2-109-0110NMR IS HEREBY TRANSFERRED TO JACKSONVILLE SUBURBAN UTILITIES. IF THERE IS AN ANTICIPATED CHANGE IN LAND OR WATER USE, A MODIFIED APPLICATION MUST BE SUBMITTED TO THE DISTRICT PRIOR TO THE PROPOSED CHANGE.

Joe E. Hill, CHAIRMAN, LEESBURG
Patricia T. Harden, VICE CHAIRMAN, SANFORD
Jesse J. Parrish, III, TREASURER, TITUSVILLE
Lenore N. McCullagh, SECRETARY, ORANGE PARK
Reid Hughes, DAYTONA BEACH
Dan Roach, FERNANDINA BEACH
William Segal, MAITLAND
Denise M. Prescod, JACKSONVILLE
James H. Williams, OCALA

AS THE PERMIT HOLDER, YOU WILL BE RESPONSIBLE FOR SUPPLYING ANY INFORMATION WHICH IS SHOWN IN THE PERMIT CONDITIONS. IF YOU HAVE ANY QUESTIONS CONCERNING THE CONDITIONS, PLEASE CONTACT ME AT THE ABOVE ADDRESS OR CALL 904/329-4274.

THANK YOU FOR YOUR COOPERATION WITH THIS MATTER. IF YOU HAVE ANY QUESTIONS OR IF THE DISTRICT CAN BE OF FURTHER ASSISTANCE TO YOU, PLEASE DO NOT HESITATE TO CONTACT THIS OFFICE.

SINCERELY,

Rosie Parker

ROSIE PARKER, DATA CONTROL TECHNICIAN
DIVISION OF PERMIT DATA SERVICES

ENCLOSURES: PERMIT WITH CONDITIONS
WELL TAGS
COMPLIANCE FORMS

CC: DISTRICT PERMIT FILE
LYNN MINOR
PONTE VEDRA UTILITIES
MARTIN ADE BIRCHFIELD & MICKLER, P.A.

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
POST OFFICE BOX 1429
PALATKA, FLORIDA 32178-1429

PERMIT NO. 2-109-0110NMR DATE ISSUED FEBRUARY 11, 1992

A PERMIT AUTHORIZING:

USE OF GROUND WATER FROM THE FLORIDAN AQUIFER TO SERVE AN ESTIMATED POPULATION OF 980 PEOPLE IN 7 YEARS.

LOCATION:

SECTION 06 30, TOWNSHIP 05 06 SOUTH, RANGE 30 EAST
ST. JOHNS COUNTY
SOUTH PONTE VEDRA WATER SYSTEM

ISSUED TO:
(OWNER)

JACKSONVILLE SUBURBAN UTILITIES
1400 MILLCOE ROAD
JACKSONVILLE, FL 32225

PERMITTEE AGREES TO HOLD AND SAVE THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND ITS SUCCESSORS HARMLESS FROM ANY AND ALL DAMAGES, CLAIMS, OR LIABILITIES WHICH MAY ARISE FROM PERMIT ISSUANCE. SAID APPLICATION, INCLUDING ALL PLANS AND SPECIFICATIONS ATTACHED THERETO, IS BY REFERENCE MADE A PART HEREOF.

THIS PERMIT DOES NOT CONVEY TO PERMITTEE ANY PROPERTY RIGHTS NOR ANY RIGHTS OR PRIVILEGES OTHER THAN THOSE SPECIFIED HEREIN, NOR RELIEVE THE PERMITTEE FROM COMPLYING WITH ANY LAW, REGULATION OR REQUIREMENT AFFECTING THE RIGHTS OF OTHER BODIES OR AGENCIES. ALL STRUCTURES AND WORKS INSTALLED BY PERMITTEE HEREUNDER SHALL REMAIN THE PROPERTY OF THE PERMITTEE.

THIS PERMIT MAY BE REVOKED, MODIFIED OR TRANSFERRED AT ANY TIME PURSUANT TO THE APPROPRIATE PROVISIONS OF CHAPTER 373 OR 403, FLORIDA STATUTES AND 40C-1, FLORIDA ADMINISTRATIVE CODES:

PERMIT IS CONDITIONED UPON:

SEE CONDITIONS ON ATTACHED "EXHIBIT A", DATED FEBRUARY 11, 1992

AUTHORIZED BY: ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

DEPARTMENT OF RESOURCE MANAGEMENT

BY: _____
(DIRECTOR)
JEFF ELLEDGE

GOVERNING BOARD

BY: _____
(ASSISTANT SECRETARY)
HENRY DEAN

"EXHIBIT A"

CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 2-109-0110NMR

JACKSONVILLE SUBURBAN UTILITIES

DATED FEBRUARY 11, 1992

1. DISTRICT AUTHORIZED STAFF, UPON PROPER IDENTIFICATION, WILL HAVE PERMISSION TO ENTER, INSPECT AND OBSERVE PERMITTED AND RELATED FACILITIES IN ORDER TO DETERMINE COMPLIANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND CONDITIONS OF THIS PERMIT.

2. NOTHING IN THIS PERMIT SHOULD BE CONSTRUED TO LIMIT THE AUTHORITY OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT TO DECLARE A WATER SHORTAGE AND ISSUE ORDERS PURSUANT TO SECTION 373.175, FLORIDA STATUTES, OR TO FORMULATE A PLAN FOR IMPLEMENTATION DURING PERIODS OF WATER SHORTAGE, PURSUANT TO SECTION 373.246, FLORIDA STATUTES. IN THE EVENT OF A WATER SHORTAGE, AS DECLARED BY THE DISTRICT GOVERNING BOARD, THE PERMITTEE MUST ADHERE TO REDUCTIONS IN WATER WITHDRAWALS AS SPECIFIED BY THE DISTRICT.

3. PRIOR TO THE CONSTRUCTION, MODIFICATION, OR ABANDONMENT OF A WELL, THE PERMITTEE MUST OBTAIN A WATER WELL CONSTRUCTION PERMIT FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT PURSUANT TO CHAPTER 40C-3, FLORIDA ADMINISTRATIVE CODE. CONSTRUCTION, MODIFICATION OR ABANDONMENT OF A WELL WILL REQUIRE MODIFICATION OF THE CONSUMPTIVE USE PERMIT WHEN SUCH CONSTRUCTION, MODIFICATION OR ABANDONMENT IS OTHER THAN THAT SPECIFIED AND DESCRIBED ON THE CONSUMPTIVE USE PERMIT APPLICATION FORM.

4. LEAKING OR INOPERATIVE WELL CASINGS, VALVES, OR CONTROLS MUST BE REPAIRED OR REPLACED AS REQUIRED TO PUT THE SYSTEM BACK IN AN OPERATIVE CONDITION ACCEPTABLE TO THE DISTRICT. FAILURE TO MAKE SUCH REPAIRS WILL BE CAUSE FOR DEEMING THE WELL ABANDONED IN ACCORDANCE WITH CHAPTER 17.21.02(5), FLORIDA ADMINISTRATIVE CODE AND CHAPTER 373.309, FLORIDA STATUTES.

5. PERMITTEE MUST MITIGATE ANY ADVERSE IMPACT CAUSED BY WITHDRAWALS PERMITTED HEREIN ON LEGAL USES OF WATER EXISTING AT THE TIME OF PERMIT APPLICATION. THE DISTRICT HAS THE RIGHT TO CURTAIL PERMITTED WITHDRAWAL RATES OR WATER ALLOCATIONS IF THE WITHDRAWALS OF WATER CAUSE AN ADVERSE IMPACT ON LEGAL USES OF WATER WHICH EXISTED AT THE TIME OF PERMIT APPLICATION. ADVERSE IMPACTS ARE EXEMPLIFIED BUT NOT LIMITED TO:

   (A) REDUCTION OF WELL WATER LEVELS RESULTING IN A REDUCTION OF 10% IN THE ABILITY OF AN ADJACENT WELL TO PRODUCE WATER;

(B) REDUCTION OF WATER LEVELS IN AN ADJACENT SURFACE WATER BODY RESULTING IN A SIGNIFICANT IMPAIRMENT OF THE USE OF WATER IN THAT WATER BODY.

(C) SALINE WATER INTRUSION OR INTRODUCTION OF POLLUTANTS INTO THE WATER SUPPLY OF AN ADJACENT WATER USE RESULTING IN A SIGNIFICANT REDUCTION OF WATER QUALITY; AND

(D) CHANGE IN WATER QUALITY RESULTING IN EITHER IMPAIRMENT OR LOSS OF USE OF A WELL OR WATER BODY.

6. PERMITTEE MUST MITIGATE ANY ADVERSE IMPACT CAUSED BY WITHDRAWALS PERMITTED HEREIN ON ADJACENT LAND USES WHICH EXISTED AT THE TIME OF PERMIT APPLICATION. THE DISTRICT HAS THE RIGHT TO CURTAIL PERMITTED WITHDRAWAL RATES OF WATER ALLOCATIONS IF WITHDRAWALS OF WATER CAUSE AN ADVERSE IMPACT ON ADJACENT LAND USE WHICH EXISTED AT THE TIME OF PERMIT APPLICATION. ADVERSE IMPACTS ARE EXEMPLIFIED BY BUT NOT LIMITED TO:

(A) SIGNIFICANT REDUCTION IN WATER LEVELS IN AN ADJACENT SURFACE WATER BODY;

(B) LAND COLLAPSE OR SUBSIDENCE CAUSED BY A REDUCTION IN WATER LEVELS; AND

(C) DAMAGE TO CROPS AND OTHER TYPES OF VEGETATION.

7. THE DISTRICT MUST BE NOTIFIED, IN WRITING, WITHIN 30 DAYS OF THE TRANSFER OF THIS PERMIT. ALL TRANSFERS ARE SUBJECT TO THE PROVISIONS OF SECTION 40C-2.351, FLORIDA ADMINISTRATIVE CODE, WHICH STATES THAT ALL TERMS AND CONDITIONS OF THE PERMIT SHALL BE BINDING OF THE TRANSFEREE.

8. A DISTRICT-ISSUED IDENTIFICATION TAG SHALL BE PROMINENTLY DISPLAYED AT EACH WITHDRAWAL SITE BY PERMANENTLY AFFIXING SUCH TAG TO THE PUMP, HEADGATE, VALVE OR OTHER WITHDRAWAL FACILITY AS PROVIDED BY SECTION 40C-2.401, FLORIDA ADMINISTRATIVE CODE. PERMITTEE SHALL NOTIFY THE DISTRICT IN THE EVENT THAT A REPLACEMENT TAG IS NEEDED.

9. IF THE PERMITTEE DOES NOT SERVE A NEW PROJECTED DEMAND LOCATED WITHIN THE SERVICE AREA UPON WHICH THE ANNUAL ALLOCATION WAS CALCULATED, THE ANNUAL ALLOCATION WILL BE SUBJECT TO MODIFICATION.

10. ON THE TENTH DAY FOLLOWING THE MONTH OF RECORD, PERMITTEE MUST SUBMIT TO THE DISTRICT COPIES OF THE DER MONTHLY WATER TREATMENT PLANT REPORTS ON A MONTHLY BASIS FOLLOWING THE MONTH OF RECORD. THE PERMIT NUMBER MUST BE ATTACHED TO ALL REPORTS.

11. THE PERMITTEE MUST ENSURE THAT ALL SERVICE CONNECTIONS ARE METERED.

12. LANDSCRAPE IRRIGATION IS PROHIBITED BETWEEN THE HOURS OF 10:00 A.M. AND 4:00 P.M., EXCEPT AS FOLLOWS:

ALLOWED ANYTIME.

B. THE USE O ECLAIMED WATER FOR IRRIG ON IS ALLOWED ANYTIME, PROVIDED APPROPRIATE SIGNS ARE PLACED ON THE PROPERTY TO INFORM THE GENERAL PUBLIC AND DISTRICT ENFORCEMENT PERSONNEL OF SUCH USE. SUCH SIGNS MUST BE IN ACCORDANCE WITH LOCAL RESTRICTIONS.

C. IRRIGATION OF, OR IN PREPARATION FOR PLANTING, NEW LANDSCAPE IS ALLOWED ANY TIME OF DAY FOR ONE 30 DAY PERIOD PROVIDED IRRIGATION IS LIMITED TO THE AMOUNT NECESSARY FOR PLANT ESTABLISHMENT.

D. WATERING IN OF CHEMICALS, INCLUDING INSECTICIDES, PESTICIDES, FERTILIZERS, FUNGICIDES, AND HERBICIDES WHEN REQUIRED BY LAW, THE MANUFACTURER, OR BEST MANAGEMENT PRACTICES IS ALLOWED ANYTIME WITHIN 24 HOURS OF APPLICATION.

E. IRRIGATION SYSTEMS MAY BE OPERATED ANYTIME FOR MAINTENANCE AND REPAIR PURPOSES NOT TO EXCEED TEN MINUTES PER HOUR PER ZONE.

13. TREATED EFFLUENT MUST BE USED AS IRRIGATION WATER WHEN IT BECOMES PRACTICAL, ECONOMICALLY FEASIBLE, AND PERMISSIBLE UNDER APPLICABLE STATE AND FEDERAL STATUTES OR REGULATIONS PROMULGATED THEREUNDER.

14. WHENEVER FEASIBLE, THE PERMITTEE MUST USE NATIVE VEGETATION THAT REQUIRES LITTLE SUPPLEMENTAL IRRIGATION FOR LANDSCAPING WITHIN THE SERVICE AREA OF THE PROJECT.

15. CONSTRUCTION MUST BE IN COMPLIANCE WITH SUBSECTION 553.14, F.S.

16. THIS PERMIT WILL EXPIRE 7 YEARS FROM THE DATE OF ISSUANCE.

17. MAXIMUM ANNUAL WITHDRAWALS MUST NOT EXCEED:

33.77	MGALS IN 1992	38.50	MGALS IN 1996
34.82	MGALS IN 1993	39.98	MGALS IN 1997
35.54	MGALS IN 1994	41.46	MGALS IN 1998
37.02	MGALS IN 1995		

MAXIMUM DAILY WITHDRAWALS MUST NOT EXCEED:

.127	MGALS IN 1992	.143	MGALS IN 1996
.130	MGALS IN 1993	.149	MGALS IN 1997
.132	MGALS IN 1994	.154	MGALS IN 1998
.139	MGALS IN 1995		

19. WITHIN ONE YEAR OF PERMIT ISSUANCE ALL EXISTING WITHDRAWAL POINTS MUST BE EQUIPPED WITH TOTALIZING FLOW METERS OR AN ALTERNATIVE METHOD FOR MEASURING FLOW MUST BE IMPLEMENTED. TOTALIZING FLOW METERS MUST MAINTAIN A 95% ACCURACY, BE VERIFIABLE AND BE INSTALLED ACCORDING TO MANUFACTURER SPECIFICATIONS. ALTERNATIVE METHODS FOR MEASURING WATER WITHDRAWALS MUST BE 90% ACCURATE, VERIFIABLE AND APPROVED BY THE DISTRICT PRIOR TO IMPLEMENTATION. IF AFTER A PERIOD OF ONE YEAR, THE SELECTED ALTERNATIVE DOES NOT MEET THE ACCURACY AND VERIFIABILITY REQUIREMENTS, TOTALIZING FLOW METERS OR ANOTHER DISTRICT APPROVED ALTERNATIVE MUST BE USED.

20. THE PERMITTEE MUST MAINTAIN THE REQUIRED FLOW METER(S) OR OTHER DISTRICT APPROVED FLOW MEASURING DEVICE(S). IN CASE OF FAILURE OR BREAKDOWN OF ANY METER OR OTHER DEVICE, THE DISTRICT MUST BE NOTIFIED IN WRITING WITHIN 5 DAYS OF ITS DISCOVERY. A DEFECTIVE METER OR OTHER DEVICE MUST BE REPAIRED OR REPLACED WITHIN 30 DAYS OF ITS DISCOVERY.

21. A WATER SYSTEM AUDIT MUST BE PERFORMED BY FEBRUARY 11, 1993. THE RESULTS OF THE AUDIT MUST BE OUTLINED IN THE WATER CONSERVATION PLAN MIDPOINT REPORT. IF THE UNACCOUNTED FOR WATER VOLUME IS 10% OR GREATER, A PROPOSED METHOD OF REDUCING THE UNACCOUNTED FOR WATER TO 10% OR LESS MUST BE INCLUDED. A LEAK DETECTION PROGRAM MUST BE INCLUDED IN THE WATER AUDIT REPORT.

22. A RATE STRUCTURE ANALYSIS MUST BE PERFORMED WITHIN 3 YEARS OF PERMIT ISSUANCE. THE RESULT OF THE ANALYSIS MUST BE OUTLINED IN THE WATER CONSERVATION PLAN MIDPOINT REPORT. IF THE RATE STRUCTURE DOES NOT ENCOURAGE WATER CONSERVATION, THE PERMITTEE MUST REFORMULATE THE RATE STRUCTURE TO ONE WHICH ENCOURAGES CONSERVATION SUCH AS AN INCLINING RATE STRUCTURE OR GOAL BILLING.

23. THE PERMITTEE MUST IMPLEMENT THE WATER CONSERVATION PLAN RECEIVED BY THE DISTRICT ON DECEMBER 2, 1991, IN ACCORDANCE WITH THE SCHEDULE CONTAINED THEREIN. A REPORT DETAILING THE PROGRESS OF THE PLAN IMPLEMENTATION MUST BE SUBMITTED TO THE DISTRICT ON OR BEFORE AUGUST 15, 1995.

24. THE PERMITTEE MUST ADOPT A RATE STRUCTURE WHICH PROMOTES WATER CONSERVATION, I.E., INCLINING RATE STRUCTURE OR GOAL BILLING, BY FEBRUARY 11, 1994.

25. SOURCE CLASSIFICATION IS CONFINED OR SEMI-CONFINED AQUIFER.

26. USE CLASSIFICATION IS 5% - WATER UTILITY; 95% - HOUSEHOLD; AND ESSENTIAL - AS NEEDED.

Ortega Hills

SJR WATER MANAGEMENT DISTRICT

Henry Dean, Executive Director
John R. Wehle, Assistant Executive Director

POST OFFICE BOX 1429 PALATKA, FLORIDA 32178-1429
TELEPHONE 904/329-4500 SUNCOM 904/860-4500
FAX (EXECUTIVE/LEGAL) 329-4125 (PERMITTING) 329-4315 (ADMINISTRATION/FINANCE) 329-4508

FIELD STATIONS

618 E. South Street
Orlando, Florida 32801
407/897-4300

7775 Baymeadows Way
Suite 102
Jacksonville, Florida 32256
904/730-6270

PERMITTING:
305 East Drive
Melbourne, Florida 32904
407/984-4940

OPERATIONS:
2133 N. Wickham Road
Melbourne, Florida 32935-8109
407/254-1762

CERTIFIED NO.: Z 273 104 542

RECEIVED
NOV 14 1994
WATER RESOURCES
FLORIDA DISTRICT

NOVEMBER 3, 1994

JACKSONVILLE SUBURBAN UTILITIES CORP.
544 CESERY BLVD.
SUITE 104
JACKSONVILLE, FL 32239

SUBJECT: CONSUMPTIVE WATER USE PERMIT NUMBER 2-031-0025UF

THE DISTRICT HAS RECEIVED A COPY OF THE WARRANTY DEED NAMING JACKSONVILLE SUBURBAN UTILITIES CORP. AS THE OWNER OF THE PARCEL OF PROPERTY FORMERLY OWNED BY ATLANTIC UTILITIES OF JACKSONVILLE, INC..

THE ABOVE REFERENCED PERMIT IS HEREBY TRANSFERRED TO JACKSONVILLE SUBURBAN UTILITIES CORP.. AS THE NEW PERMIT HOLDER, YOU ARE REQUIRED TO COMPLY WITH ALL CONDITIONS AS NOTED IN THE PERMIT. IF YOU HAVE ANY QUESTIONS CONCERNING THE CONDITIONS OF YOUR PERMIT, PLEASE CONTACT JAY LAWRENCE IN THE JACKSONVILLE OFFICE AT 904-730-6270.

THANK YOU FOR YOUR COOPERATION WITH THIS MATTER. IF YOU HAVE ANY QUESTIONS OR IF THE DISTRICT CAN BE OF FURTHER ASSISTANCE, PLEASE DO NOT HESITATE TO CONTACT US.

SINCERELY,

Gloria Lewis

GLORIA R. LEWIS, DIRECTOR
DIVISION OF PERMIT DATA SERVICES

ENCLOSURES: PERMIT WITH CONDITIONS
WELL AND/OR PUMP TAGS
COMPLIANCE FORMS

CC: DISTRICT PERMIT FILE
JAY LAWRENCE
ATLANTIC UTILITIES OF JACKSONVILLE, INC.

Joe E. Hill, CHAIRMAN LEESBURG
Patricia T. Harden, VICE CHAIRMAN SANFORD
Jesse J. Parrish, III, TREASURER TITUSVILLE
Lenore N. McCullagh, SECRETARY ORANGE PARK
Reid Hughes DAYTONA BEACH
Dan Roach FERNANDINA BEACH
William Segal MAITLAND
Denise M. Prescod JACKSONVILLE
James H. Williams OCALA

40C-1.612 TRANSFER OF OWNERSHIP OF PERMIT

(1) TRANSFER OF PERMITTED FACILITY. WITHIN (30) DAYS OF ANY SALE, CONVEYANCE, OR OTHER TRANSFER OF A FACILITY, SYSTEM, OR WELL PERMITTED BY THE DISTRICT, THE EXISTING PERMITTEE MUST NOTIFY THE DISTRICT, IN WRITING, OF SUCH TRANSFER, GIVING THE NAME AND ADDRESS OF THE TRANSFEREE AND PROVIDING A COPY OF THE INSTRUMENT EFFECTUATING THE TRANSFER.

(2) TRANSFER OF INTEREST IN REAL PROPERTY. WITHIN 30 DAYS OF ANY TRANSFER OF OWNERSHIP OR CONTROL OF THE REAL PROPERTY AT WHICH ANY PERMITTED FACILITY, SYSTEM, CONSUMPTIVE USE, OR ACTIVITY IS LOCATED THE PERMITTEE MUST NOTIFY THE DISTRICT, IN WRITING, OF THE TRANSFER, GIVING THE NAME AND ADDRESS OF THE NEW OWNER OR PERSON IN CONTROL AND PROVIDING A COPY OF THE INSTRUMENT EFFECTUATING THE TRANSFER.

(3) TRANSFER OF PERMIT. TO TRANSFER A PERMIT, THE PERMITTEE MUST PROVIDE THE INFORMATION REQUIRED IN SUBSECTIONS (1) AND (2), TOGETHER WITH A WRITTEN STATEMENT FROM THE PROPOSED TRANSFEREE THAT IT WILL BOUND BY ALL TERMS AND CONDITIONS OF THE PERMIT. ADDITIONALLY, WHERE APPLICABLE, THE TRANSFEREE MUST DEMONSTRATE THAT IT IS CAPABLE OF CONSTRUCTING, OPERATING AND MAINTAINING THE PERMITTED FACILITY, SYSTEM, CONSUMPTIVE USE, WELL OR OR ACTIVITY. ONCE THE REQUIRED INFORMATION HAS BEEN PROVIDED, THE DISTRICT MAY TRANSFER THE PERMIT TO THE TRANSFEREE.

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
POST OFFICE BOX 1429
PALATKA, FLORIDA 32178-1429

PERMIT NO. 2-031-0025AF ORIGINAL PERMIT ISSUED JULY 7, 1992
PERMIT TRANSFER ISSUED SEPTEMBER 28, 1994

A PERMIT AUTHORIZING:

USE OF GROUNDWATER FROM THE FLORIDAN AQUIFER TO SERVE AN ESTIMATE POPULATION OF 1672 PEOPLE IN 7 YEARS.

LOCATION:

SECTION 43, TOWNSHIP 03 SOUTH, RANGE 26 EAST
DUVAL COUNTY
ORTEGA HILLS SUBDIVISION

ISSUED TO:
(OWNER)

JACKSONVILLE SUBURBAN UTILITIES CORP.
844 CESERY BLVD.
SUITE 108
JACKSONVILLE, FL 32239

PERMITTEE AGREES TO HOLD AND SAVE THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND ITS SUCCESSORS HARMLESS FROM ANY AND ALL DAMAGES, CLAIMS, OR LIABILITIES WHICH MAY ARISE FROM PERMIT ISSUANCE. SAID APPLICATION, INCLUDING ALL PLANS AND SPECIFICATIONS ATTACHED THERETO, IS BY REFERENCE MADE A PART HEREOF.

THIS PERMIT DOES NOT CONVEY TO PERMITTEE ANY PROPERTY RIGHTS NOR ANY RIGHTS OR PRIVILEGES OTHER THAN THOSE SPECIFIED HEREIN, NOR RELIEVE THE PERMITTEE FROM COMPLYING WITH ANY LAW, REGULATION OR REQUIREMENT AFFECTING THE RIGHTS OF OTHER BODIES OR AGENCIES. ALL STRUCTURES AND WORKS INSTALLED BY PERMITTEE HEREUNDER SHALL REMAIN THE PROPERTY OF THE PERMITTEE.

THIS PERMIT MAY BE REVOKED, MODIFIED OR TRANSFERRED AT ANY TIME PURSUANT TO THE APPROPRIATE PROVISIONS OF CHAPTER 373 OR 403, FLORIDA STATUTES AND 40C-1, FLORIDA ADMINISTRATIVE CODES:

PERMIT IS CONDITIONED UPON:

SEE CONDITIONS ON ATTACHED "EXHIBIT A", DATED JULY 7, 1992

AUTHORIZED BY: ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

DEPARTMENT OF RESOURCE MANAGEMENT

BY: _____
(DIRECTOR)

GOVERNING BOARD

BY: _____
(ASSISTANT SECRETARY)

"EXHIBIT A"

CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 2-031-0025UF

JACKSONVILLE SUBURBAN UTILITIES CORP.

ORIGINAL PERMIT ISSUED JULY 7, 1992

PERMIT TRANSFER ISSUED SEPTEMBER 28, 1994

1. DISTRICT AUTHORIZED STAFF, UPON PROPER IDENTIFICATION, WILL HAVE PERMISSION TO ENTER, INSPECT AND OBSERVE PERMITTED AND RELATED FACILITIES IN ORDER TO DETERMINE COMPLIANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND CONDITIONS OF THIS PERMIT.

2. NOTHING IN THIS PERMIT SHOULD BE CONSTRUED TO LIMIT THE AUTHORITY OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT TO DECLARE A WATER SHORTAGE AND ISSUE ORDERS PURSUANT TO SECTION 373.175, FLORIDA STATUTES, OR TO FORMULATE A PLAN FOR IMPLEMENTATION DURING PERIODS OF WATER SHORTAGE, PURSUANT TO SECTION 373.246, FLORIDA STATUTES. IN THE EVENT OF A WATER SHORTAGE, AS DECLARED BY THE DISTRICT GOVERNING BOARD, THE PERMITTEE MUST ADHERE TO REDUCTIONS IN WATER WITHDRAWALS AS SPECIFIED BY THE DISTRICT.

3. PRIOR TO THE CONSTRUCTION, MODIFICATION, OR ABANDONMENT OF A WELL, THE PERMITTEE MUST OBTAIN A WATER WELL CONSTRUCTION PERMIT FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT PURSUANT TO CHAPTER 40C-3, FLORIDA ADMINISTRATIVE CODE. CONSTRUCTION, MODIFICATION OR ABANDONMENT OF A WELL WILL REQUIRE MODIFICATION OF THE CONSUMPTIVE USE PERMIT WHEN SUCH CONSTRUCTION, MODIFICATION OR ABANDONMENT IS OTHER THAN THAT SPECIFIED AND DESCRIBED ON THE CONSUMPTIVE USE PERMIT APPLICATION FORM.

4. LEAKING OR INOPERATIVE WELL CASINGS, VALVES, OR CONTROLS MUST BE REPAIRED OR REPLACED AS REQUIRED TO PUT THE SYSTEM BACK IN AN OPERATIVE CONDITION ACCEPTABLE TO THE DISTRICT. FAILURE TO MAKE SUCH REPAIRS WILL BE CAUSE FOR DEEMING THE WELL ABANDONED IN ACCORDANCE WITH CHAPTER 17.21.02(5), FLORIDA ADMINISTRATIVE CODE AND CHAPTER 373.309, FLORIDA STATUTES.

5. PERMITTEE MUST MITIGATE ANY ADVERSE IMPACT CAUSED BY WITHDRAWALS PERMITTED HEREIN ON LEGAL USES OF WATER EXISTING AT THE TIME OF PERMIT APPLICATION. THE DISTRICT HAS THE RIGHT TO CURTAIL PERMITTED WITHDRAWAL RATES OR WATER ALLOCATIONS IF THE WITHDRAWALS OF WATER CAUSE AN ADVERSE IMPACT ON LEGAL USES OF WATER WHICH EXISTED AT THE TIME OF PERMIT APPLICATION. ADVERSE IMPACTS ARE EXEMPLIFIED BUT NOT LIMITED TO:

   (A) REDUCTION OF WELL WATER LEVELS RESULTING IN A REDUCTION OF 10% IN THE ABILITY OF AN ADJACENT WELL TO PRODUCE WATER;

(B) REDUCTION OF WATER LEVELS IN AN ADJACENT SURFACE WATER BODY RESULTING IN A SIGNIFICANT IMPAIRMENT OF THE USE OF WATER IN THAT WATER BODY.

(C) SALINE WATER INTRUSION OR INTRODUCTION OF POLLUTANTS INTO THE WATER SUPPLY OF AN ADJACENT WATER USE RESULTING IN A SIGNIFICANT REDUCTION OF WATER QUALITY; AND

(D) CHANGE IN WATER QUALITY RESULTING IN EITHER IMPAIRMENT OR LOSS OF USE OF A WELL OR WATER BODY.

6. PERMITTEE MUST MITIGATE ANY ADVERSE IMPACT CAUSED BY WITHDRAWALS PERMITTED HEREIN ON ADJACENT LAND USES WHICH EXISTED AT THE TIME OF PERMIT APPLICATION. THE DISTRICT HAS THE RIGHT TO CURTAIL PERMITTED WITHDRAWAL RATES OF WATER ALLOCATIONS IF WITHDRAWALS OF WATER CAUSE AN ADVERSE IMPACT ON ADJACENT LAND USE WHICH EXISTED AT THE TIME OF PERMIT APPLICATION. ADVERSE IMPACTS ARE EXEMPLIFIED BY BUT NOT LIMITED TO:

(A) SIGNIFICANT REDUCTION IN WATER LEVELS IN AN ADJACENT SURFACE WATER BODY;

(B) LAND COLLAPSE OR SUBSIDENCE CAUSED BY A REDUCTION IN WATER LEVELS; AND

(C) DAMAGE TO CROPS AND OTHER TYPES OF VEGETATION.

7. THE DISTRICT MUST BE NOTIFIED, IN WRITING, WITHIN 30 DAYS OF THE TRANSFER OF THIS PERMIT. ALL TRANSFERS ARE SUBJECT TO THE PROVISIONS OF SECTION 40C-2.351, FLORIDA ADMINISTRATIVE CODE, WHICH STATES THAT ALL TERMS AND CONDITIONS OF THE PERMIT SHALL BE BINDING OF THE TRANSFEREE.

8. A DISTRICT-ISSUED IDENTIFICATION TAG SHALL BE PROMINENTLY DISPLAYED AT EACH WITHDRAWAL SITE BY PERMANENTLY AFFIXING SUCH TAG TO THE PUMP, HEADGATE, VALVE OR OTHER WITHDRAWAL FACILITY AS PROVIDED BY SECTION 40C-2.401, FLORIDA ADMINISTRATIVE CODE. PERMITTEE SHALL NOTIFY THE DISTRICT IN THE EVENT THAT A REPLACEMENT TAG IS NEEDED.

9. ON THE TENTH DAY FOLLOWING THE MONTH OF RECORD, PERMITTEE MUST SUBMIT TO THE DISTRICT COPIES OF THE DER MONTHLY WATER TREATMENT PLANT REPORTS ON A MONTHLY BASIS FOLLOWING THE MONTH OF RECORD. THE PERMIT NUMBER MUST BE ATTACHED TO ALL REPORTS.

10. THE PERMITTEE MUST ENSURE THAT ALL SERVICE CONNECTIONS ARE METERED.

11. LANDSCAPE IRRIGATION IS PROHIBITED BETWEEN THE HOURS OF 10:00 A.M. AND 4:00 P.M., EXCEPT AS FOLLOWS:

A. IRRIGATION USING A MICRO-IRRIGATION SYSTEM IS ALLOWED ANYTIME.

B. THE USE OF RECLAIMED WATER FOR IRRIGATION IS ALLOWED ANYTIME, PROVIDED APPROPRIATE SIGNS ARE PLACED ON THE PROPERTY TO INFORM THE GENERAL PUBLIC AND DISTRICT ENFORCEMENT PERSONNEL OF SUCH USE. SUCH SIGNS MUST BE IN ACCORDANCE WITH LOCAL RESTRICTIONS.

C. IRRIGATION OF, OR IN PREPARATION FOR PLANTING, NEW LANDSCAPE IS ALLOWED ANY TIME OF DAY FOR ONE 30 DAY PERIOD PROVIDED IRRIGATION IS LIMITED TO THE AMOUNT NECESSARY FOR PLANT ESTABLISHMENT.

D. WATERING IN OF CHEMICALS, INCLUDING INSECTICIDES, PESTICIDES, FERTILIZERS, FUNGICIDES, AND HERBICIDES WHEN REQUIRED BY LAW, THE MANUFACTURER, OR BEST MANAGEMENT PRACTICES IS ALLOWED ANYTIME WITHIN 24 HOURS OF APPLICATION.

E. IRRIGATION SYSTEMS MAY BE OPERATED ANYTIME FOR MAINTENANCE AND REPAIR PURPOSES NOT TO EXCEED TEN MINUTES PER HOUR PER ZONE.

12. TREATED EFFLUENT MUST BE USED AS IRRIGATION WATER WHEN IT BECOMES PRACTICAL, ECONOMICALLY FEASIBLE, AND PERMISSIBLE UNDER APPLICABLE STATE AND FEDERAL STATUTES OR REGULATIONS PROMULGATED THEREUNDER.

13. WHENEVER FEASIBLE, THE PERMITTEE MUST USE NATIVE VEGETATION THAT REQUIRES LITTLE SUPPLEMENTAL IRRIGATION FOR LANDSCAPING WITHIN THE SERVICE AREA OF THE PROJECT.

14. CONSTRUCTION MUST BE IN COMPLIANCE WITH SUBSECTION 553.14, F.S.

15. THIS PERMIT WILL EXPIRE 7 YEARS FROM THE DATE OF ISSUANCE.

16. MAXIMUM ANNUAL WITHDRAWALS MUST NOT EXCEED:

54.6 MGALS IN 1992	54.8 MGALS IN 1996
54.7 MGALS IN 1993	54.9 MGALS IN 1997
54.7 MGALS IN 1994	55.0 MGALS IN 1998
54.8 MGALS IN 1995	55.0 MGALS IN 1999

17. MAXIMUM DAILY WITHDRAWALS MUST NOT EXCEED:

.237 MGALS IN 1992	.239 MGALS IN 1996
.238 MGALS IN 1993	.239 MGALS IN 1997
.238 MGALS IN 1994	.239 MGALS IN 1998
.238 MGALS IN 1995	.239 MGALS IN 1999

18. MAXIMUM DAILY WITHDRAWALS FOR ESSENTIAL USE MUST NOT EXCEED .72 MGALS.

19. WITHIN SIX MONTHS OF PERMIT ISSUANCE ALL WITHDRAWAL POINTS MUST BE EQUIPPED WITH TOTALIZING FLOW METERS. SUCH METERS MUST MAINTAIN A 95% ACCURACY, BE VERIFIABLE AND BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

20. TOTAL WITHDRAWAL FROM EACH MONITORED SOURCE MUST BE RECORDED CONTINUOUSLY, TOTALLED MONTHLY, AND REPORTED TO THE DISTRICT AT LEAST EVERY SIX MONTHS FROM THE INITIATION OF THE MONITORING USING FORM NO. EN-50.

21. THE PERMITTEE MUST HAVE ALL FLOW METERS CALIBRATED ONCE EVERY 3 YEARS WITHIN 30 DAYS OF THE ANNIVERSARY DATE OF PERMIT ISSUANCE, AND RECALIBRATED IF THE DIFFERENCE BETWEEN THE ACTUAL FLOW AND THE METER READING IS GREATER THAN 5%. DISTRICT FORM EN-51 MUST BE SUBMITTED TO THE DISTRICT WITHIN 10 DAYS OF THE INSPECTION/CALIBRATION.

22. THE PERMITTEE MUST MAINTAIN THE REQUIRED FLOW METER(S). IN CASE OF FAILURE OR BREAKDOWN OF ANY METER, THE DISTRICT MUST BE NOTIFIED IN WRITING WITHIN 5 DAYS OF ITS DISCOVERY. A DEFECTIVE METER MUST BE REPAIRED OR REPLACED WITHIN 30 DAYS OF ITS DISCOVERY.

23. THE PERMITTEE MUST IMPLEMENT THE CONSERVATION PLAN SUBMITTED TO THE DISTRICT ON FEBRUARY 3, 1992, REVISED ON APRIL 13, 1992, AND SUBSEQUENTLY APPROVED BY THE DISTRICT IN ACCORDANCE WITH THE SCHEDULE CONTAINED THEREIN. A REPORT DETAILING THE PROGRESS OF PLAN IMPLEMENTATION MUST BE SUBMITTED TO THE DISTRICT ON OR BEFORE JANUARY 31, 1996.

24. SOURCE CLASSIFICATION IS CONFINED OR SEMI-CONFINED AQUIFER.

25. USE CLASSIFICATION IS 94% HOUSEHOLD; 6% WATER UTILITY AND ESSENTIAL - AS NEEDED.

SAN PABLO
MARSH VIEW

SJR WATER MANAGEMENT DISTRICT

Henry Dean, Executive Director
John R. Wehle, Assistant Executive Director
Charles T. Myers III, Deputy Assistant Executive Director

POST OFFICE BOX 1429 PALATKA, FLORIDA 32178-1429
TELEPHONE 904/329-4500 SUNCOM 904/860-4500
TDD 904/329-4450 TDD SUNCOM 860-4450
FAX (EXECUTIVE/LEGAL) 329-4125 (PERMITTING) 329-4315 (ADMINISTRATION/FINANCE) 329-4508

FIELD STATIONS

618 E. South Street
Orlando, Florida 32801
407/897-4300
TDD 407/897-5960

7775 Baymeadows Way
Suite 102
Jacksonville, Florida 32256
904/730-6270
TDD 904/730-7900

PERMITTING:
305 East Drive
Melbourne, Florida 32904
407/984-4940
TDD 407/722-5368

OPERATIONS:
2133 N. Wickham Road
Melbourne, Florida 32935-8109
407/254-1762
TDD 407/253-1203

file C.U.P. permits - MARSHVIEW

RECEIVED
APR 04 1995
FLORIDA DISTRICT

MARCH 7, 1995

JACKSONVILLE SUBURBAN UTILITIES CORPORATION
1400 MILLCOE ROAD
JACKSONVILLE, FL 32225

SUBJECT: CONSUMPTIVE USE PERMIT NO. 2-031-0165UVFM

ENCLOSED IS YOUR PERMIT AND THE FORMS NECESSARY FOR SUBMITTING INFORMATION TO COMPLY WITH CONDITIONS OF THE PERMIT AS AUTHORIZED BY THE GOVERNING BOARD OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT ON MARCH 7, 1995. ALL COMPLIANCE INFORMATION MUST BE SUBMITTED TO THE DISTRICT'S PALATKA OFFICE, P. O. BOX 1429, PALATKA, FLORIDA 32178-1429.

PERMIT ISSUANCE DOES NOT RELIEVE YOU FROM THE RESPONSIBILITY OF OBTAINING PERMITS FROM ANY FEDERAL, STATE, AND/OR LOCAL AGENCIES ASSERTING CONCURRENT JURISDICTION FOR THIS WORK. THE ENCLOSED PERMIT WILL EXPIRE ON MARCH 7, 2002.

IN THE EVENT YOU SELL YOUR PROPERTY, THE PERMIT WILL BE TRANSFERRED TO THE NEW OWNER IF WE ARE NOTIFIED BY YOU WITHIN THIRTY DAYS OF THE RECORDING OF THE SALE. PLEASE ASSIST US IN THIS MATTER SO AS TO MAINTAIN A VALID PERMIT FOR THE NEW PROPERTY OWNER.

THE PERMIT ENCLOSED IS A LEGAL DOCUMENT AND SHOULD BE KEPT WITH YOUR OTHER IMPORTANT DOCUMENTS. PLEASE READ THE PERMIT CAREFULLY SINCE YOU ARE RESPONSIBLE FOR COMPLIANCE WITH ANY PROVISOS WHICH ARE A PART OF THIS PERMIT. PROVISO COMPLIANCE IS A LEGAL REQUIREMENT AND YOUR ASSISTANCE IN THIS MATTER WILL BE GREATLY APPRECIATED.

ACCORDING TO CHAPTER 40C-2.401 AND SECTION 6.4 OF THE CONSUMPTIVE WATER USE HANDBOOK, A PERMANENT TAG WILL BE ISSUED BY THE DISTRICT FOR WELL IDENTIFICATION. THIS TAG IS PROMINENTLY DISPLAYED AT THE SITE OF WITHDRAWAL BY PERMANENTLY AFFIXING THE TAG TO THE PUMP, HEADGATE, VALVE, OR OTHER WITHDRAWAL FACILITY. FAILURE TO DISPLAY

Patricia T. Harden, CHAIRMAN SANFORD
Lenore N. McCullagh, VICE CHAIRMAN ORANGE PARK
Jesse J. Parrish, III, TREASURER TITUSVILLE
William Segal, SECRETARY MAITLAND
Reid Hughes DAYTONA BEACH
Dan Roach FERNANDINA BEACH
Denise M. Prescod JACKSONVILLE
Joe E. Hill LEESBURG
James H. Williams OCALA

A WELL TAG SHALL CONSTITUTE VIOLATION OF A PERMIT CONDITION AND MAY, IF WILLFUL, BE GROUNDS FOR REVOCATION OF THE PERMIT. PLEASE REFER TO YOUR COPY OF 40C-2 IF YOU NEED FURTHER CLARIFICATION.

YOU WILL FIND ENCLOSED A COPY OF THE MAP SUBMITTED WITH YOUR APPLICATION, WITH EACH WELL'S LOCATION AND NUMBER IDENTIFIED. WHEN PLACING THE TAG ON THE WELL, REFER TO THIS MAP TO ENSURE PROPER WELL IDENTIFICATION.

IF YOU HAVE ANY QUESTIONS CONCERNING YOUR PERMIT COMPLIANCE INFORMATION, THE ATTACHED FORMS OR WELL TAGS, CONTACT ME AT 904-329-4274.

THANK YOU FOR YOUR INTEREST IN OUR WATER RESOURCES.

SINCERELY,

Rosie Parker

ROSIE PARKER, DATA CONTROL TECHNICIAN
DIVISION OF PERMIT DATA SERVICES

ENCLOSURES: PERMIT WITH COMPLIANCE FORMS
MAP
WELL TAG(S)

CC: DISTRICT PERMIT FILE

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
POST OFFICE BOX 1429
PALATKA, FLORIDA 32178-1429

PERMIT NO. 2-031-0165UVEM DATE ISSUED MARCH 7, 1995

A PERMIT AUTHORIZING:

USE OF GROUND WATER FROM THE FLORIDAN AQUIFER TO SUPPLY AN ESTIMATED RESIDENTIAL POPULATION OF 3922 PEOPLE IN 7 YEARS WITH WATER FOR HOUSEHOLD USE AND ESSENTIAL USE (FIRE PROTECTION).

LOCATION:

SECTION 06, TOWNSHIP 03 SOUTH, RANGE 29 EAST
DUVAL COUNTY
SAN PABLO

ISSUED TO:
(OWNER)

JACKSNVILLE SUBURBAN UTILITIES CORPORATION
1400 MILLCOE ROAD
JACKSONVILLE, FL 32225

PERMITTEE AGREES TO HOLD AND SAVE THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND ITS SUCCESSORS HARMLESS FROM ANY AND ALL DAMAGES, CLAIMS, OR LIABILITIES WHICH MAY ARISE FROM PERMIT ISSUANCE. SAID APPLICATION, INCLUDING ALL PLANS AND SPECIFICATIONS ATTACHED THERETO, IS BY REFERENCE MADE A PART HEREOF.

THIS PERMIT DOES NOT CONVEY TO PERMITTEE ANY PROPERTY RIGHTS NOR ANY RIGHTS OR PRIVILEGES OTHER THAN THOSE SPECIFIED HEREIN, NOR RELIEVE THE PERMITTEE FROM COMPLYING WITH ANY LAW, REGULATION OR REQUIREMENT AFFECTING THE RIGHTS OF OTHER BODIES OR AGENCIES. ALL STRUCTURES AND WORKS INSTALLED BY PERMITTEE HEREUNDER SHALL REMAIN THE PROPERTY OF THE PERMITTEE.

THIS PERMIT MAY BE REVOKED, MODIFIED OR TRANSFERRED AT ANY TIME PURSUANT TO THE APPROPRIATE PROVISIONS OF CHAPTER 373 OR 403, FLORIDA STATUTES AND 40C-1, FLORIDA ADMINISTRATIVE CODES:

PERMIT IS CONDITIONED UPON:

SEE CONDITIONS ON ATTACHED "EXHIBIT A", DATED MARCH 7, 1995

AUTHORIZED BY: ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

DEPARTMENT OF RESOURCE MANAGEMENT

BY: _____
(DIRECTOR)
JEFF ELLEDGE

GOVERNING BOARD

BY: _____
(ASSISTANT SECRETARY)
HENRY DEAN

"EXHIBIT A"

CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 2-031-0165UVFM

JACKSONVILLE SUBURBAN UTILITIES CORPORATION

DATED MARCH 7, 1995

1. DISTRICT AUTHORIZED STAFF, UPON PROPER IDENTIFICATION, WILL HAVE PERMISSION TO ENTER, INSPECT AND OBSERVE PERMITTED AND RELATED FACILITIES IN ORDER TO DETERMINE COMPLIANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND CONDITIONS OF THIS PERMIT.

2. NOTHING IN THIS PERMIT SHOULD BE CONSTRUED TO LIMIT THE AUTHORITY OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT TO DECLARE A WATER SHORTAGE AND ISSUE ORDERS PURSUANT TO SECTION 373.175, FLORIDA STATUTES, OR TO FORMULATE A PLAN FOR IMPLEMENTATION DURING PERIODS OF WATER SHORTAGE, PURSUANT TO SECTION 373.246, FLORIDA STATUTES. IN THE EVENT A WATER SHORTAGE, IS DECLARED BY THE DISTRICT GOVERNING BOARD, THE PERMITTEE MUST ADHERE TO THE WATER SHORTAGE RESTRICTION AS SPECIFIED BY THE DISTRICT, EVEN THOUGH THE SPECIFIED WATER SHORTAGE RESTRICTIONS MAY BE INCONSISTENT WITH THE TERMS AND CONDITIONS OF THIS PERMIT.

3. PRIOR TO THE CONSTRUCTION, MODIFICATION, OR ABANDONMENT OF A WELL, THE PERMITTEE MUST OBTAIN A WATER WELL CONSTRUCTION PERMIT FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT OR THE APPROPRIATE LOCAL GOVERNMENT PURSUANT TO CHAPTER 40C-3, FLORIDA ADMINISTRATIVE CODE. CONSTRUCTION, MODIFICATION, OR ABANDONMENT OF A WELL WILL REQUIRE MODIFICATION OF THE CONSUMPTIVE USE PERMIT WHEN SUCH CONSTRUCTION, MODIFICATION OR ABANDONMENT IS OTHER THAN THAT SPECIFIED AND DESCRIBED ON THE CONSUMPTIVE USE PERMIT APPLICATION FORM.

4. LEAKING OR INOPERATIVE WELL CASINGS, VALVES, OR CONTROLS MUST BE REPAIRED OR REPLACED AS REQUIRED TO ELIMINATE THE LEAK OR MAKE THE SYSTEM FULLY OPERATIONAL.

5. LEGAL USES OF WATER EXISTING AT THE TIME OF PERMIT APPLICATION MAY NOT BE SIGNIFICANTLY ADVERSELY IMPACTED BY THE CONSUMPTIVE USE. IF UNANTICIPATED SIGNIFICANT ADVERSE IMPACTS OCCUR, THE DISTRICT SHALL REVOKE THE PERMIT IN WHOLE OR IN PART TO CURTAIL OR ABATE THE ADVERSE IMPACTS, UNLESS THE IMPACTS CAN BE MITIGATED BY THE PERMITTEE.

6. OFF-SITE LAND USES EXISTING AT THE TIME OF PERMIT APPLICATION MAY NOT BE SIGNIFICANTLY ADVERSELY IMPACTED AS A RESULT OF THE CONSUMPTIVE USE. IF UNANTICIPATED SIGNIFICANT ADVERSE IMPACTS OCCUR, THE DISTRICT SHALL REVOKE THE PERMIT IN WHOLE OR IN PART TO CURTAIL OR ABATE THE ADVERSE IMPACTS, UNLESS THE IMPACTS CAN BE MITIGATED BY THE PERMITTEE.

7. THE DISTRICT MUST BE NOTIFIED, IN WRITING, WITHIN 30 DAYS OF ANY SALE, CONVEYANCE, OR OTHER TRANSFER OF A WELL OR FACILITY FROM WHICH THE PERMITTED CONSUMPTIVE USE IS MADE OR WITHIN 30 DAYS OF ANY TRANSFER OF OWNERSHIP OR CONTROL OF THE REAL PROPERTY AT WHICH THE PERMITTED CONSUMPTIVE USE IS LOCATED. ALL TRANSFERS OF OWNERSHIP OR TRANSFERS OF PERMITS ARE SUBJECT TO THE PROVISIONS OF SECTION 40C-1.612.

8. A DISTRICT-ISSUED IDENTIFICATION TAG SHALL BE PROMINENTLY DISPLAYED AT EACH WITHDRAWAL SITE BY PERMANENTLY AFFIXING SUCH TAG TO THE PUMP, HEADGATE, VALVE OR OTHER WITHDRAWAL FACILITY AS PROVIDED BY SECTION 40C-2.401, FLORIDA ADMINISTRATIVE CODE. PERMITTEE SHALL NOTIFY THE DISTRICT IN THE EVENT THAT A REPLACEMENT TAG IS NEEDED.

9. IF THE PERMITTEE DOES NOT SERVE A NEW PROJECTED DEMAND LOCATED WITHIN THE SERVICE AREA UPON WHICH THE ANNUAL ALLOCATION WAS CALCULATED, THE ANNUAL ALLOCATION WILL BE SUBJECT TO MODIFICATION.

10. THE PERMITTEE MUST ENSURE THAT ALL SERVICE CONNECTIONS ARE METERED.

11. TREATED EFFLUENT MUST BE USED AS IRRIGATION WATER WHEN IT BECOMES AVAILABLE, ECONOMICALLY FEASIBLE, AND PERMISSIBLE UNDER APPLICABLE STATE AND FEDERAL STATUTES OR REGULATIONS PROMULGATED THEREUNDER.

12. THIS PERMIT WILL EXPIRE 7 YEARS FROM THE DATE OF ISSUANCE.

13. MAXIMUM ANNUAL GROUNDWATER WITHDRAWALS FOR HOUSEHOLD USE MUST NOT EXCEED:

    239.69 MILLION GALLONS IN 1995,
    236.89 MILLION GALLONS IN 1996,
    233.73 MILLION GALLONS IN 1997,
    230.24 MILLION GALLONS IN 1998,
    226.42 MILLION GALLONS IN 1999,
    224.75 MILLION GALLONS IN 2000 AND
    222.68 MILLION GALLONS IN 2001.

14. MAXIMUM DAILY GROUNDWATER WITHDRAWALS FOR HOUSEHOLD USE MUST NOT EXCEED:

    1.51 MILLION GALLONS IN 1995,
    1.46 MILLION GALLONS IN 1996,
    1.40 MILLION GALLONS IN 1997,
    1.34 MILLION GALLONS IN 1998,
    1.28 MILLION GALLONS IN 1999,
    1.23 MILLION GALLONS IN 2000 AND
    1.22 MILLION GALLONS IN 2001.

15. MAXIMUM DAILY GROUNDWATER WITHDRAWALS FOR FIRE PROTECTION ARE ESTIMATED AT 5.04 MGALS.

16. WELL NO.S 1 AND 2, AS LISTED ON THE APPLICATION, MUST EACH BE EQUIPPED WITH TOTALIZING FLOW METERS. THESE METERS MUST MAINTAIN 95% ACCURACY, BE VERIFIABLE AND BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

17. TOTAL WITHDRAWALS FROM WELL NUMBERS 1 AND 2, AS LISTED ON THE APPLICATION, MUST BE RECORDED CONTINUOUSLY, TOTALED MONTHLY, AND REPORTED TO THE DISTRICT BY SEPTEMBER 30 (DATA FROM MARCH TO AUGUST) AND MARCH 31 (DATA FROM SEPTEMBER TO FEBRUARY) OF EACH YEAR FOR PERMIT DURATION USING FORM NO. EN-50. THE INITIAL SUBMITTAL MUST BE MADE BY MARCH 31, 1995.

18. THE PERMITTEE MUST PROPERLY MAINTAIN ALL FLOW METERS. IN CASE OF FAILURE OR BREAKDOWN OF ANY METER, THE DISTRICT MUST BE NOTIFIED IN WRITING WITHIN 5 DAYS OF ITS DISCOVERY. A DEFECTIVE METER MUST BE REPAIRED OR REPLACED WITHIN 30 DAYS OF ITS DISCOVERY.

19. THE PERMITTEE MUST HAVE ALL FLOW METERS CHECKED FOR ACCURACY AT LEAST ONCE EVERY 3 YEARS WITHIN 30 DAYS OF THE ANNIVERSARY DATE OF PERMIT ISSUANCE, AND RECALIBRATED IF THE DIFFERENCE BETWEEN THE ACTUAL FLOW AND THE METER READING IS GREATER THAN 5%. DISTRICT FORM NO. EN-51 MUST BE SUBMITTED TO THE DISTRICT WITHIN 10 DAYS OF THE INSPECTION/CALIBRATION.

20. IN THE EVENT THE PERMITTEE FILES A REQUEST WITH THE FLORIDA PUBLIC SERVICE COMMISSION (FPSC) TO CHANGE THE RATES OR RATE STRUCTURE APPLICABLE TO ITS WATER CUSTOMERS, AS PART OF ITS REQUEST JSU SHALL ALSO PROPOSE A "WATER CONSERVING RATE STRUCTURE". A COPY OF THE PROPOSAL BEING FILED WITH THE FPSC, SHALL SIMULTANEOUSLY BE SUBMITTED TO THE DISTRICT'S OFFICE OF GENERAL COUNSEL, P. O. BOX 1429, PALATKA, FL 32178-1429. THE PERMITTEE AGREES THAT IT WILL NOT OPPOSE A DISTRICT MOTION TO INTERVENE IN A JSU RATE PROCEEDING BEFORE THE FPSC.

21. WATER QUALITY MONITORING

A.) THE PERMITTEE MUST COLLECT SAMPLES FROM EACH WELL QUARTERLY AND HAVE EACH SAMPLE ANALYZED FOR THE FOLLOWING:

CHLORIDES	TOTAL IRON
SULFATES	TOTAL HARDNESS
CALCIUM	MAGNESIUM
FIELD TEMPERATURE	SODIUM
SPECIFIC CONDUCTANCE	POTASSIUM
FIELD PH	CARBONATE - FIELD & LAB
TOTAL DISSOLVED SOLIDS	BI-CARBONATE - TOTAL ALKALINITY

QUALITY ASSURANCE

PRIOR TO SAMPLE COLLECTION A MINIMUM OF 3-5 CASING VOLUMES MUST BE REMOVED FROM EACH WELL (RUNNING A WELL FOR A MINIMUM 10 MINUTES SHALL ALSO BE SUFFICIENT).

ALL MAJOR ION ANALYSES MUST BE CHECKED FOR ANION-CATION BALANCE AND MUST BALANCE WITHIN 5%. IT IS RECOMMENDED THAT DUPLICATES BE TAKEN TO ALLOW FOR LABORATORY ERRORS OR DATA LOSS.

ALL SAMPLING AND WATER QUALITY ANALYSES SHALL BE PERFORMED BY ORGANIZATIONS WITH APPROVED COMPREHENSIVE OR GENERIC QUALITY ASSURANCE PLANS (COMQAPS) ON FILE WITH THE DEPT. OF ENVIRONMENTAL REGULATION OR A LABORATORY HAVING DHRS CERTIFICATION.

A REPORT INCLUDING ALL SAMPLE ANALYSES AND AN EVALUATION OF THE DATA MUST BE SUBMITTED TO THE DISTRICT WITHIN 30 DAYS OF RECEIPT FROM THE LABORATORY.

22. WATER LEVEL MEASUREMENTS (POTENTIOMETRIC LEVELS) MUST BE COLLECTED FROM EACH WELL MONTHLY AT APPROXIMATELY THE SAME TIME EACH MONTH AND SUBMITTED TO THE DISTRICT QUARTERLY ALONG WITH THE REQUIRED WATER QUALITY SAMPLING DATA. THESE MEASUREMENTS MUST BE RECORDED IN FEET WITH RESPECT TO SEA LEVEL.

23. WITHIN ONE YEAR OF PERMIT ISSUANCE AND FOR EACH YEAR UNTIL PERMIT RENEWAL, THE PERMITTEE MUST SUBMIT A REPORT UPDATING THE RESULTS OF THE ANNUAL WATER AUDIT I.E. METER TESTING, LEAK DETECTION AND REPAIR PROGRAM FOR THE POTABLE DISTRIBUTION SYSTEM. IN ADDITION TO THE RESULTS, THE PERMITTEE MUST SUBMIT A DETAILED IMPLEMENTATION SCHEDULE AND PRIORITIZATION SCHEDULE FOR CORRECTIVE ACTIONS DIRECTED AT THE REDUCTION OF UNACCOUNTED FOR WATER LOSSES.

24. WITHIN 30 DAYS OF PERMIT ISSUANCE, THE PERMITTEE SHALL SUBMIT TO THE DISTRICT A COPY OF THE LATEST DRAFT REUSE AGREEMENTS UNDER NEGOTIATION WITH THE BAYMEADOWS AND SAN JOSE COUNTRY CLUBS, AND WITH THE CITY OF JACKSONVILLE. THEREAFTER THE PERMITTEE SHALL SUBMIT QUARTERLY STATUS REPORTS TO THE DISTRICT DETAILING ANY PROGRESS MADE DURING THE PRECEDING THREE MONTHS TOWARDS IMPLEMENTATION OF REUSE WITH THE ENTITIES LISTED ABOVE. THE QUARTERLY REPORTS MUST ALSO INCLUDE A COPY OF THE LATEST DRAFT OF EACH REUSE AGREEMENT BEING NEGOTIATED BETWEEN JSU AND ANY ONE OF THE GOLF COURSES AND THE CITY OF JACKSONVILLE. IF THE PERMITTEE FAILS TO REACH A REUSE AGREEMENT WITH THE CITY OF JACKSONVILLE WITHIN ONE YEAR OF PERMIT ISSUANCE, NEGOTIATION FOR THE PROVISION OF RECLAIMED WATER TO THE MILL COVE GOLF COURSE SHALL BE INITIATED BY JSU

WITHIN 30 DAYS. WITHIN THE SAME 30 DAY PERIOD, AN IMPLEMENTATION PLAN FOR THE MILL COVE GOLF COURSE MUST ALSO BE SUBMITTED TO THE DISTRICT FOR STAFF APPROVAL. IN THE EVENT THAT MILL COVE AGREES TO ACCEPT AND UTILIZE RECLAIMED WATER FROM JSU IN ACCORDANCE WITH TARIFFS APPROVED BY THE FPSC, JSU MUST PROVIDE RECLAIMED WATER TO THE MILL COVE COUNTRY CLUB IN ACCORDANCE WITH THE DISTRICT APPROVED IMPLEMENTATION PLAN, UNLESS THE DISTRICT DETERMINES THAT IT IS NOT FEASIBLE FOR MILL COVE TO ACCEPT RECLAIMED WATER. IN THE EVENT THAT BAYMEADOWS AND SAN JOSE COUNTRY CLUBS AGREE TO ACCEPT AND UTILIZE RECLAIMED WATER FROM JSU IN ACCORDANCE WITH TARIFFS APPROVED BY THE FPSC, JSU MUST PROVIDE RECLAIMED WATER TO THE BAYMEADOWS AND SAN JOSE GOLF COURSES WITHIN THE DURATION OF THIS PERMIT, UNLESS THE DISTRICT DETERMINES THAT IT IS NOT FEASIBLE FOR THESE ENTITIES TO ACCEPT RECLAIMED WATER.

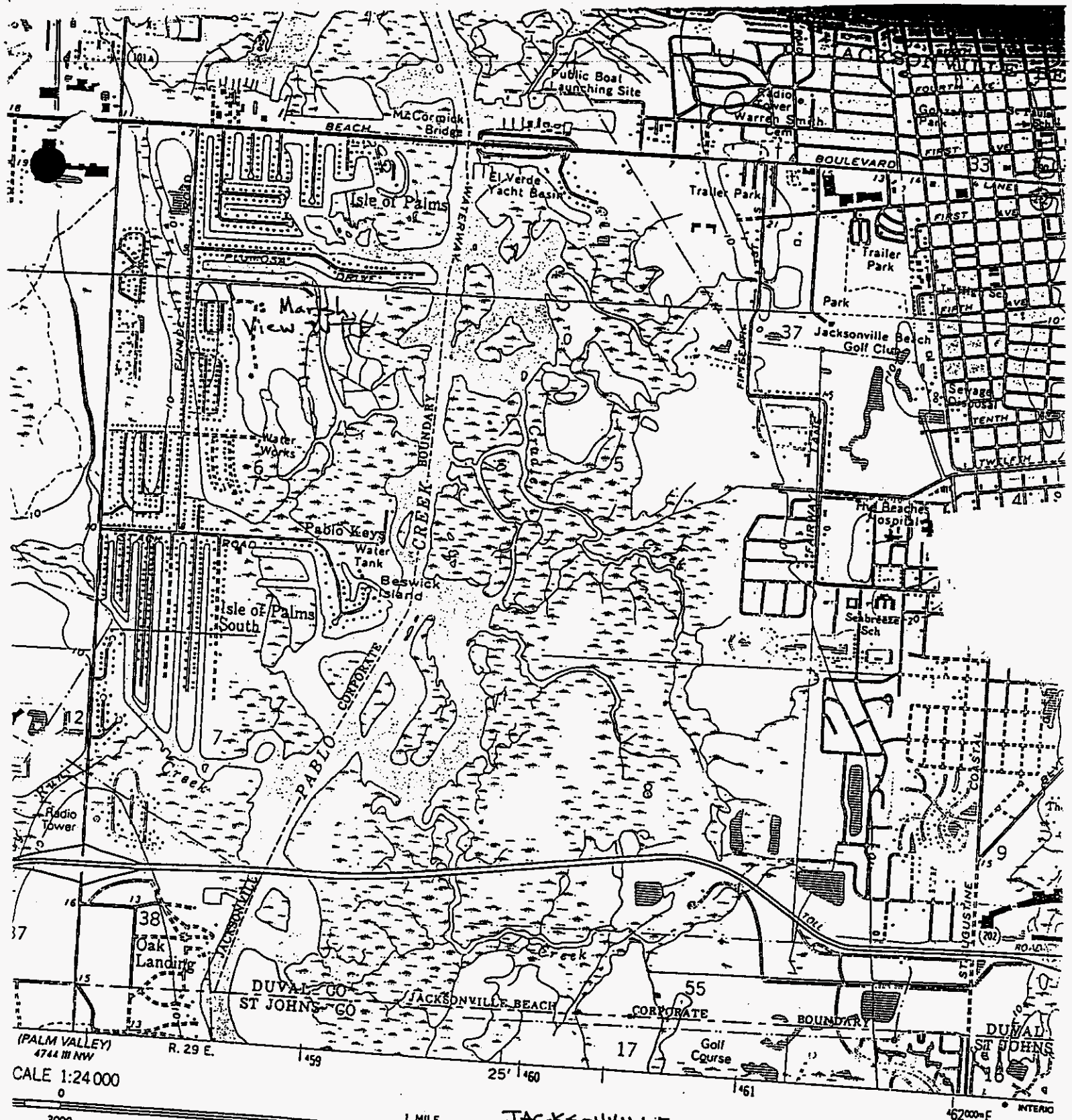
25. THE PERMITTEE MUST IMPLEMENT THE WATER CONSERVATION PLAN SUBMITTED TO THE DISTRICT ON NOVEMBER 7, 1994 AND ALL SUPPLEMENTS IN ACCORDANCE WITH THE SCHEDULE CONTAINED THEREIN AND/OR AS REFINED IN CONDITIONS OF THIS PERMIT. THE PERMITTEE MUST MAINTAIN A LOG OF THOSE ACTIVITIES COMPLETED AS PART OF THE PLAN. A REPORT, DETAILING THE PROGRESS OF PLAN IMPLEMENTATION, MUST BE SUBMITTED TO THE DISTRICT EVERY TWO YEARS ON THE ANNIVERSARY DATE OF THE PERMIT.

26. IF, AT ANY TIME WITHIN THE PERMIT DURATION JSUC CONSTRUCTS A WASTEWATER TREATMENT FACILITY IN AN AREA WHICH CURRENTLY DOES NOT HAVE SEWER SERVICE AND IT BECOMES PRACTICAL, ECONOMICALLY FEASIBLE AND PERMISSIBLE UNDER APPLICABLE STATE AND FEDERAL STATUTES OR REGULATIONS PROMULGATED THEREUNDER, THE DISTRICT MAY REQUIRE THE PERMITTEE TO PROVIDE RECLAIMED WATER FOR USE AT A PERMISSIBLE APPLICATION SITE.

27. WITHIN 6 MONTHS OF PERMIT ISSUANCE, THE PERMITTEE MUST HAVE DEVELOPED A WATER USE RECORDING PROCEDURE WITH THE FIRE DEPARTMENT AND/OR ANY OTHER UNMETERED USERS. FLOW OR WATER USE (MGALS) MUST BE RECORDED ANNUALLY AND PROVIDED TO THE DISTRICT UPON PERMIT RENEWAL OR EXPIRATION.

28. SOURCE CLASSIFICATION IS CONFINED OR SEMI-CONFINED AQUIFER.

29. USE CLASSIFICATION IS 86% HOUSEHOLD, 14% WATER UTILITY AND ESSENTIAL (FIRE PROTECTION).



JACKSONVILLE BEACH QUADRANGLE
FLORIDA - DUVAL COUNTY

2-031-0165 AUVFM

application forms.

CONSUMPTIVE USE PERMIT 2-031-0165UVFM

LOCATION: MARSHVIEW A OF 2 WELLS

ST. JOHNS RIVER WATER
MANAGEMENT DISTRICT
(904)329-4274
CONSUMPTIVE USE PERMIT TAG

JACKSONVILLE SUBURBAN UTILITIES CORP
2-031-0165UVFM EXPIRES: 3/ 7/02
SOURCE: GC USE: HT WU ES
LAT/LONG: 81 25 50 30 16 51
A OF 2 WELLS 12.0 INCHES

B OF 2

ST. JOHNS RIVER WATER
MANAGEMENT DISTRICT
(904)329-4274
CONSUMPTIVE USE PERMIT TAG

JACKSONVILLE SUBURBAN UTILITIES CORP
2-031-0165UVFM EXPIRES: 3/ 7/02
SOURCE: GC USE: HT WU ES
LAT/LONG: 81 25 49 30 16 50
B OF 2 WELLS 12.0 INCHES