ORIGINAL
FILE COPY

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

IN RE: Application for Certificates to provide Water and Wastewater Service in Clay County by Point Water and Sewer, Inc.	)))))	DOCKET NO. 961321-WS Date Submitted for Filing: May 27, 1997

NOTICE OF FILING

POINT WATER & SEWER, INC. (hereinafter referred to as "PWS"), by and through its undersigned attorneys, hereby files an original and fifteen (15) copies of the following exhibits:

1. "JY-2" of the Prehearing Rebuttal Testimony of JOHN YONGE;
2. "JL-2", Report submitted by James Lucas; and
3. "JY-4-A", Notice of DEP Permit Issuance dated May 23, 1997.

Dated this 5th day of June, 1997.

Respectfully submitted,

COX & REYNOLDS
4875 North Federal Highway
10th Floor
Fort Lauderdale, FL 33308
Phone: (954) 491-5220
Fax: (954) 491-0702

BY: _____
DOUGLAS H. REYNOLDS
Florida Bar No. 367435

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that the original and seven copies of the Notice of Filing and an original and fifteen copies of the exhibits listed above, have been furnished by Hand Delivery this 5th day of June, 1997 to Blanca Bayo, Director, Division of Records and Reporting, Florida Public Service Commission, 2450 Shumard Oak Boulevard, Tallahassee, Florida 32399-0850, and copies of the foregoing have been furnished to J. Michael Lindell, Esq., Hayes & Lindell, P.A., 233 E. Bay Street, Suite 620, Jacksonville, Florida 32202; Kathleen M. Johnson, Staff Counsel Division of Legal Services, Florida Public Service Commission, 2540 Shumard Oak Boulevard, Tallahassee, Florida 32399-0850; and Scott G. Schildberg, Esq., Martin, Ade, Birchfield & Mickler, 3000 Independent Square, Jacksonville, Florida 32201, by U.S. Mail this 5th day of June, 1997.

DOUGLAS H. REYNOLDS

the appropriate rates are deemed.

BY MR. REYNOLDS:

Q You're not here to argue or to attest that you're entitled to free water services, are you?

A Absolutely not.

Q And you're not here to argue that you're entitled to free water services for the period of March 1995 to the present, are you?

A No.

Q You just want to pay what's reasonable and fair?

A Correct.

Q And you're relying on the PSC to set that amount?

A Yes.

Q Have you looked into having anyone else or requested anyone else to operate the facility, such as Clay County Water and Sewer?

A A couple of years ago, yes, they talked to Clay County Water to see what their plans were for bringing water and sewer service up to our area. Our understanding is it's all up there now directly across the street from us and there were some figures put together as to the cost to bring

EXHIBIT "JY-2"

Q And do you plan to attend the hearing?
A Yes.
Q In what purpose or capacity do you plan to attend the hearing?
A As a board member.
Q And what are you asking the Court to do in your capacity as a board member?
A To prevent Point Water and Sewer from turning off our water.
Q Are you asking the Court to have anyone else operate the facility at this time?
A No.
Q And I take it you are prepared -- I saw some paperwork indicating that you are prepared to tender to the Court the monies that you have in escrow?
A Yes.
Q And have you escrowed $750 every month since March of 1995?
A Yes.
Q And the exact amount is 750, right?
A Exactly.
MR. LINDELL: Through what month? You might want to clarify.
THE WITNESS: I haven't done

CAPACITY ANALYSIS REPORT

THE POINT TOWNHOMES
HIGHWAY 17, FLEMING ISLAND

CLAY COUNTY

DER NO. 3110PO0304

PERMIT NO. DO10-221312

EXPIRES 6/30/96

January 20, 1997

EXHIBIT "JL-2"

CERTIFICATIONS

Permittee:

Name: John Yonge, President

Company: Point Water and Sewer, Inc.

Address: 4753 Raggedy Point Road

City: Orange Park, Florida 32073

County: Clay

Phone No.: (904) 269-1825

We, the above signee, are fully aware and intends to comply with the recommendations and schedules included in the report.

Engineer:

Name: James M. Lucas, P.E.

Company: J. Lucas & Associates, Inc.

Address: 10475 Fortune Parkway, Suite 202

City: Jacksonville, Florida 32256

Phone: (904) 464-0090

This is to certify that the information contained in the report is true and correct to the best of our knowledge, the report was prepared in accordance with sound engineering principles, and that the recommendations and schedules were discussed with the permittee or their representative.

Chapter 1 - Introduction

The existing plant is a 0.015 mgd extended aeration steel package plant with dechlorination and discharge to the St. Johns River. The plant serves a 19 unit townhomes complex and the adjacent marina. Wastewater from the complex flows into a pumping station located adjacent to the plant before being lifted into the treatment unit's aeration tank. Flow from the aeration tank enters a clarifier where the solids are separated from the liquid. Effluent from the clarifier enters a 1460 gallon chlorine contact chamber for disinfection. The effluent leaves the plant by gravity where it flows through a dechlorination unit prior to discharge to the river for disposal.

Solids from the clarifier is returned to the treatment unit by the return sludge air lift. Excess sludge is stored in the digester or hauled off by independent contractor.

Effluent from the plant discharges via a 6-inch gravity line to the river after dechlorination.

Chapter 2 - Existing Conditions

Permitted Capacities:

The plant is presently permitted for 15,000 gallons per day. The discharge parameters are as follows:

flow:	0.015 gpd	Daily 5/wk
BOD:	20 ppm	Monthly Grab
SS:	20 ppm	Monthly Grab
pH:	6-8.5	Daily 5/wk
Chlorine Residual (contact tank)	0.5-1.0	Daily 5/wk
Residual (Outfall)	0.01	Daily 5/wk
Fecal	200/800	Monthly

Parameter	Annual	Monthly	Weekly	One time
B O D	20 ppm	30 ppm	45 ppm	60 ppm
S S	20 ppm	30 ppm	45 ppm	60 ppm

Monthly Average Daily Flows, Three-month Ave. Daily Flows, Annual Ave. Daily Flows:

The monthly operating reports were examined and the following tables were generated. The plant was constructed in the early 1980's with the construction of the townhomes. Flows have gradually increased over the years due to increases in the marina activities from an annual average of 8,000 to 10,000 gpd. Flows are reflective of the occupancy rate of the townhomes, the use of the Marina and any infiltration inflow entering the system. The past operator stated that the flows for the past few years have not changed appreciably. Table 1 shows the monthly, three month average and annual average flows for the facility for the data provided. Flows were measured by the elapsed timer on the influent pumps.

Chapter 3 - Future Conditions

The treatment plant for this facility was designed for only this facility. There are no plans to expand the facility or add additional connections to the wastewater treatment plant at this time. The plant was designed to handle 34 townhome units but as of this date, there are no plans to add the remaining units. The collection system only receives domestic waste. In fact there are plans for phaseout of this facility within the next few years depending on availability. At present, the County has no facilities to connect to economically.

Chapter 4 - Summary and Conclusions

The treatment plant is properly sized for the use intended and does not require enlarging or updating. The average flows are well within the capacity of the plant and require no expansion. There are no projections that will exceed the capacity of the existing plant within the next five years. When regional facilities are extended to this location, the plant will be eliminated.

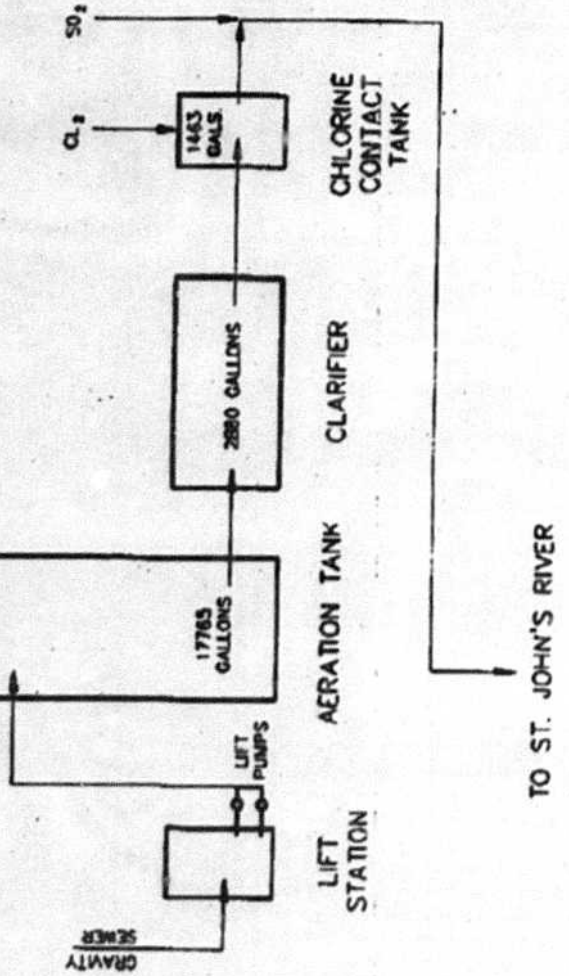

FIGURE 1
PROCESS SCHEMATIC
POINTE TOWNHOMES WWF

J. LUCAS & ASSOCIATES, INC.
CONSULTING AND DESIGN ENGINEERS
10475 FORTUNE PARKWAY, SUITE 202
JACKSONVILLE, FLORIDA 32256
(904) 464-0090

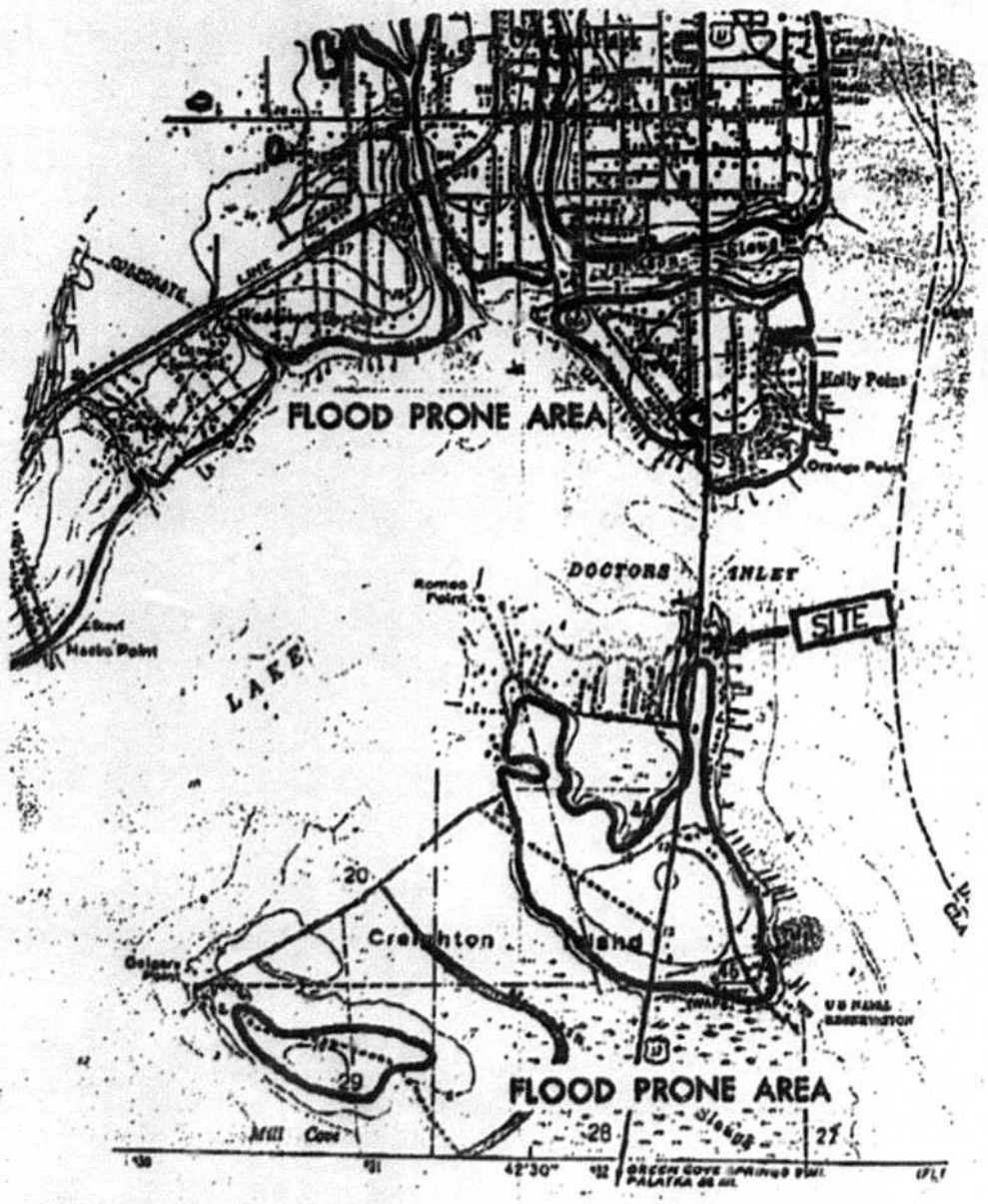

FIGURE 2
SITE PLAN/LOCATION PLAN
POINTE TOWNHOMES WWF

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THE POINT TOWNHOMES WASTEWATER TREATMENT FACILITY

FLOW ANALYSIS

	MONTH	MGD	3 MONTH AVERAGE	PERCENT OF CAP.	ANNUAL AVERAGE	PERCENT OF CAP.	RATIO 3 MO/AN. AVE.
1993	January	0.006					
	February	0.005					
	March	0.004	0.0047	31.11			
	April	0.005	0.0047	31.11			
	May	0.007	0.0053	35.56			
	June	0.009	0.0070	46.67			
	July	0.005	0.0070	46.67			
	August	0.006	0.0067	44.44			
	Septembe	0.005	0.0057	37.78			
	October	0.005	0.0057	37.78			
	November	0.006	0.0057	37.78			
	December	0.006	0.0057	37.78	0.0058	38.33	0.9855
1994	January	0.006	0.0060	40.00	0.0058	38.89	1.0286
	February	0.006	0.0060	40.00	0.0059	39.44	1.0141
	March	0.006	0.0060	40.00	0.0061	40.56	0.9863
	April	0.006	0.0060	40.00	0.0062	41.11	0.9730
	May	0.006	0.0060	40.00	0.0061	40.56	0.9863
	June	0.005	0.0057	37.78	0.0058	38.33	0.9855
	July	0.006	0.0057	37.78	0.0058	38.89	0.9714
	August	0.006	0.0057	37.78	0.0058	38.89	0.9714
	Septembe	0.009	0.0070	46.67	0.0061	40.56	1.1507
	October	0.006	0.0070	46.67	0.0062	41.11	1.1351
	November	0.005	0.0067	44.44	0.0061	40.56	1.0959
	December	0.006	0.0057	37.78	0.0061	40.56	0.9315
1995	January	0.006	0.0063	42.22	0.0063	41.67	1.0135
	February	0.007	0.0070	46.67	0.0063	42.22	1.1053
	March	0.007	0.0073	48.89	0.0064	42.78	1.1429
	April	0.006	0.0073	48.89	0.0066	43.89	1.1139
	May	0.008	0.0077	51.11	0.0068	45.00	1.1358
	June	0.007	0.0077	51.11	0.0069	46.11	1.1084
	July	0.008	0.0077	51.11	0.0071	47.22	1.0824
	August	0.01	0.0083	55.56	0.0074	49.44	1.1236
	Septembe	0.01	0.0093	62.22	0.0075	50.00	1.2444
	October	0.01	0.0100	66.67	0.0078	52.22	1.2766
	November	0.011	0.0103	68.89	0.0083	55.56	1.2400
	December	0.009	0.0100	66.67	0.0086	57.22	1.1650
1996	January	0.008	0.0093	62.22	0.0086	57.22	1.0874
	February	0.009	0.0087	57.78	0.0088	58.33	0.9905
	March	0.011	0.0093	62.22	0.0091	60.56	1.0275
	April	0.014	0.0113	75.56	0.0096	63.89	1.1826
	May		0.0125	83.33	0.0097	64.85	1.2850
	June	0.007	0.0105	70.00	0.0097	64.85	1.0794
	July	0.015	0.0110	73.33	0.0104	69.09	1.0614
	August	0.009	0.0103	68.89	0.0103	68.48	1.0059
	Septembe	0.007	0.0103	68.89	0.0100	66.67	1.0333
	October	0.011	0.0090	60.00	0.0101	67.27	0.8919

OPERATION AND MAINTENANCE PERFORMANCE REPORT

POINT TOWNHOMES WASTEWATER TREATMENT FACILITY

CLAY COUNTY

DER NO. 3110PO0304

DEP PERMIT NO. DO10-221312

EXPIRES JUNE 30, 1996

January 20, 1997

CERTIFICATIONS

Permittee:

Name: John Yonge

Company: Point Water and Sewer, Inc.

Address: 4753 Raggedy Point Road

City: Orange Park, Florida 32073

County: Clay

Phone No.: (904) 269-1825

We, the above signee, have reviewed and is fully aware of the recommendations and schedules included in the report.

Operator:

Name: Mr. Ed McCormick
Company: Coastal Utility Services
Address: 9615 Shellie Road
City: Jacksonville, Florida 32257
Phone: (904) 262-4035
Certification No. C-0187

We, the above signee, have reviewed and is fully aware of the recommendations and schedules included in the report.

Engineer:

Name: James M. Lucas, P.E.
Company: J. Lucas & Associates, Inc.
Address: 10475 Fortune Parkway, Suite 202
City: Jacksonville, Florida 32256
Phone: (904) 464-0090

This is to certify that the information contained in the report is true and correct to the best of our knowledge, the report was prepared in accordance with sound engineering principles, and that the recommendations and schedules were discussed with the permittee or their representative and the lead operator and agrees that if the recommended schedules for corrective action are met, the facilities, when properly operated and maintained, will comply with all applicable statutes of the State of Florida and rules of the Department.

Chapter 1 - Introduction

The existing plant is a 0.015 mgd extended aeration steel package plant with discharge to the St. Johns River. The plant serves a 19 unit townhomes complex and the adjacent marina. Wastewater from the complex flows into the plant lift station where it is pumped to the aeration unit. Flow from the treatment unit enters a clarifier where the solids are separated from the liquid. Effluent from the clarifier enters a 1463 gallon chlorine contact chamber for disinfection. The effluent then flows through a dechlorine unit before discharging by gravity to the St. Johns River for disposal.

Solids from the clarifier is returned to the treatment unit by the return sludge air lift. Excess sludge is sent to the aerobic digester/sludge holding tank or hauled off by independent contractor. Effluent from the plant discharges via a 6-inch gravity outfall to the river.

The plant is presently permitted for 15,000 galluns per day. The discharge parameters are as follows:

flow:	0.015 gpd	Daily 5/wk
BOD:	20 ppm	Monthly Grab
SS:	20 ppm	Monthly Grab
pH:	6-8.5	Daily 5/wk
Chlorine Residual (contact tank)	0.5-1.0	Daily 5/wk
Residual (Outfall)	0.01	Daily 5/wk
Fecal	200/800	Monthly

Parameter	Annual	Monthly	Weekly	One time
B O D	20 ppm	30 ppm	45 ppm	60 ppm
S S	20 ppm	30 ppm	45 ppm	60 ppm

Monthly Average Daily Flows, Three-month Ave. Daily Flows, Annual Ave. Daily Flows are all shown in Table No. 1 and the Plant Performance Analysis is shown in Table No. 2

The monthly operating reports were examined and the following tables were generated. The plant was constructed in the early 1980's with the construction of the townhomes. Flows have fluctuated but not changed substantially since units have been occupied. Flows are reflective of the occupancy rate of the townhomes, the use of the Marina and the amount of infiltration inflow entering the system. The past operator stated that the flows for the past few years have not changed. Table 1 shows the monthly, three month average and annual average flows for the facility for the data provided. Flows were measured by the elapsed timer on the influent pumps.

Chapter 2 - Physical Conditions

At the Point Townhomes Wastewater Facility, there are numerous unit processes required for the treatment of wastewater. These components and processes used at the plant are as follows:

A. Pumping

Raw water pumping is conducted by the lift station located adjacent to the treatment plant. The plant receives flow from the station via a 4-inch force main.

B. Biological Treatment - Activated Sludge

There is one package extended aeration plant at this facility with sizes and flow ratings shown on the flow diagram.

C. Sedimentation - Final

There is a secondary clarifier.

D. Disinfection

Flow from the treatment unit is directed to the chlorination chamber. The chlorination system at present consists of solid tablet chlorine feed.

E. Dechlorination

Since this plant discharges to surface waters, there is dechlorination using a dechlorination chamber. The dechlorine solution is fed in solid form.

F. Residuals Treatment - Aerobic digestion

Treatment of residuals consists of aerobic digestion in the digester / sludge holding tank. Excess residuals are disposed of by independent

carrier to an approved disposal site.

G. Instrumentation

There is no instrumentation at this plant except for the elapsed time meters on the influent pumps.

H. Laboratory

There is no laboratory located at the plant. Operator uses portable lab equipment for in field testing and contracted laboratory for other testing.

I. Discharge

The plant discharges through a 6" outfall directly to the St. Johns River.

The field visit did not reveal evidence of hydraulic overload at this facility. The visit did reveal a plant in good condition. This observation was also made by DEP in their last visit to the plant on October 23rd. At that date, they suggested relocating the chlorine tablet basket away from the effluent discharge point to allow adequate disinfection prior to discharge. Our visit revealed that two chlorine baskets were put at the effluent launder of the clarifier prior to discharge to the chlorine contact tank. The existing tanks are in good condition due mainly to good maintenance. In general, the plant is operating well and efficiently.

The District noticed gas bubbles rising from the chlorine contact tank which would be an indication of sludge accumulation. Our visit indicated that this problem has been corrected. This in fact was caused by a leaky scum air lift located in the chlorine contact tank. The plant is equipped with a bottom air lift to remove solid material that may settle in this tank. The operator routinely checks for solids accumulation.

Chapter 3 - Treatment Efficiency

In table 2, a summary was made on the performance analysis of the plant for the last 46 month period from January 1993 thru October 1996. The discharge conditions are being met through the proper operation of this plant. The overall treatment efficiency of the plant appears adequate for discharge to the St. Johns River during this interim period until County service is available.

Examining the individual units, each unit is operating within the normal parameters for extended aeration. Under extended aeration, there must be a 15 to 24 hour detention time allowed. There is 28.4 hours detention time designed in the plant aeration zone. The clarifier was designed for a surface loading rate of 400 gallons per day per sq. ft. Based on the latest 3 month average

daily flow of .009 mgd, the aeration detention time is 47.4 hours. The surface loading rate for the clarifier based on the same three month average is 233 gallons per day per sf. Both these parameters are well within the limits of extended aeration.

The chlorine contact chamber does not show signs of short circuiting. With the chlorine being added to the effluent of the clarifier, the effluent has adequate time to mix and disinfect prior to discharge.

Chapter 4 - Performance Trends

Reviewing the operating data in Table 2, we see no change in the characteristics of the wastewater entering the plant. We see no change in the makeup of the service area and do not anticipate any modifications in the type of waste from this area. The flow records do not indicate an excessive infiltration/ inflow problem. The loadings into the plant are within the capabilities of the unit processes within the plant. The treatment facility, with proper operation and maintenance, should be capable of producing an effluent within permit limits through the life of the operation permit or until County service is available. The plant is within their limits to date.

The plant operation data does not show that there is an I/I problem at this facility. Therefore, the current I/I is within the limits of the plants ability to meet the discharge limits.

There are no plans to expand the service area beyond the development property. Therefore, there are no plans to expand the plant. This plant will be phased out when regional systems are available. There have been no bypasses of untreated wastewater from this treatment plant.

Chapter 5 - Operation and Maintenance Program

There are no record drawings of the plant. There is a generic general operation and maintenance manual at the office of the operator to be used by the operators in reference to the operation of the facilities. There is no suitable place to store written material at the site. The operation and maintenance manual is continually updated as equipment and processes are phased out and new systems are added. However, there have not been any additional systems added to this facility since startup. All equipment are basic common equipment for facilities of this size and are readily available. The operator is very familiar with the equipment at the plant and keeps the equipment bulletins at his main office.

The operators keep records on operation and maintenance in a log kept on the property. This facility has been inspected by the Florida Department of Environmental Protection in the past. All records were in order at that time. The plant is adequately staffed. All testing done is acceptable as stated in their last

State inspection.

Chapter 6 - Collection System Evaluation

Based on the flow evaluation shown in the capacity analysis report, the system does not experience an overabundance of inflow during rain events.

There are 19 lots and a marina tied into the plant. Estimated flow per capita is unable to determine due to the nature of the marina.

Based on interviews with the operation personnel, there are no septic sewer problems within the collection system. There are no industrial waste contributors in this system. The plant is not affected by any toxic materials discharged into the system.

Chapter 7 - Problems, Deficiencies and Corrective Actions

The treatment plant is operating well and should operate successfully throughout the permit period without any modifications.

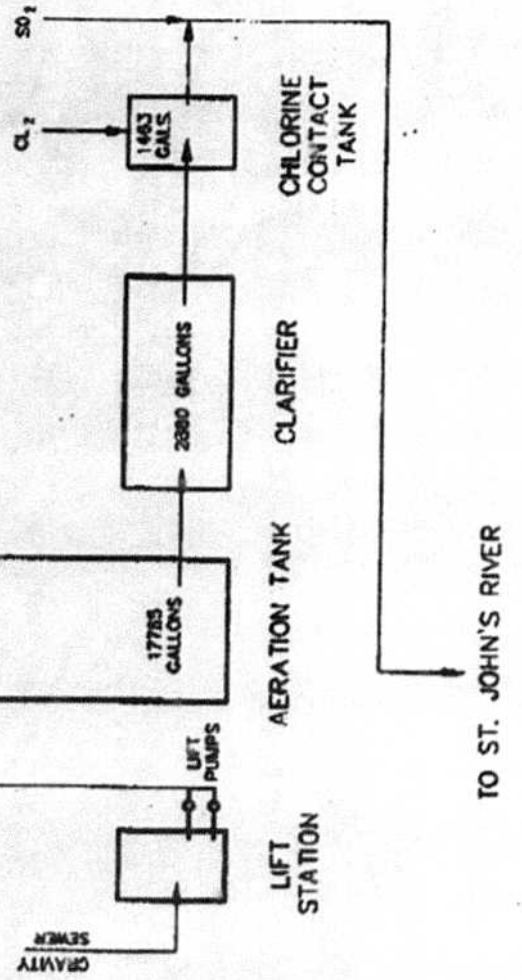

FIGURE 1
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POINTE TOWNHOMES WWF

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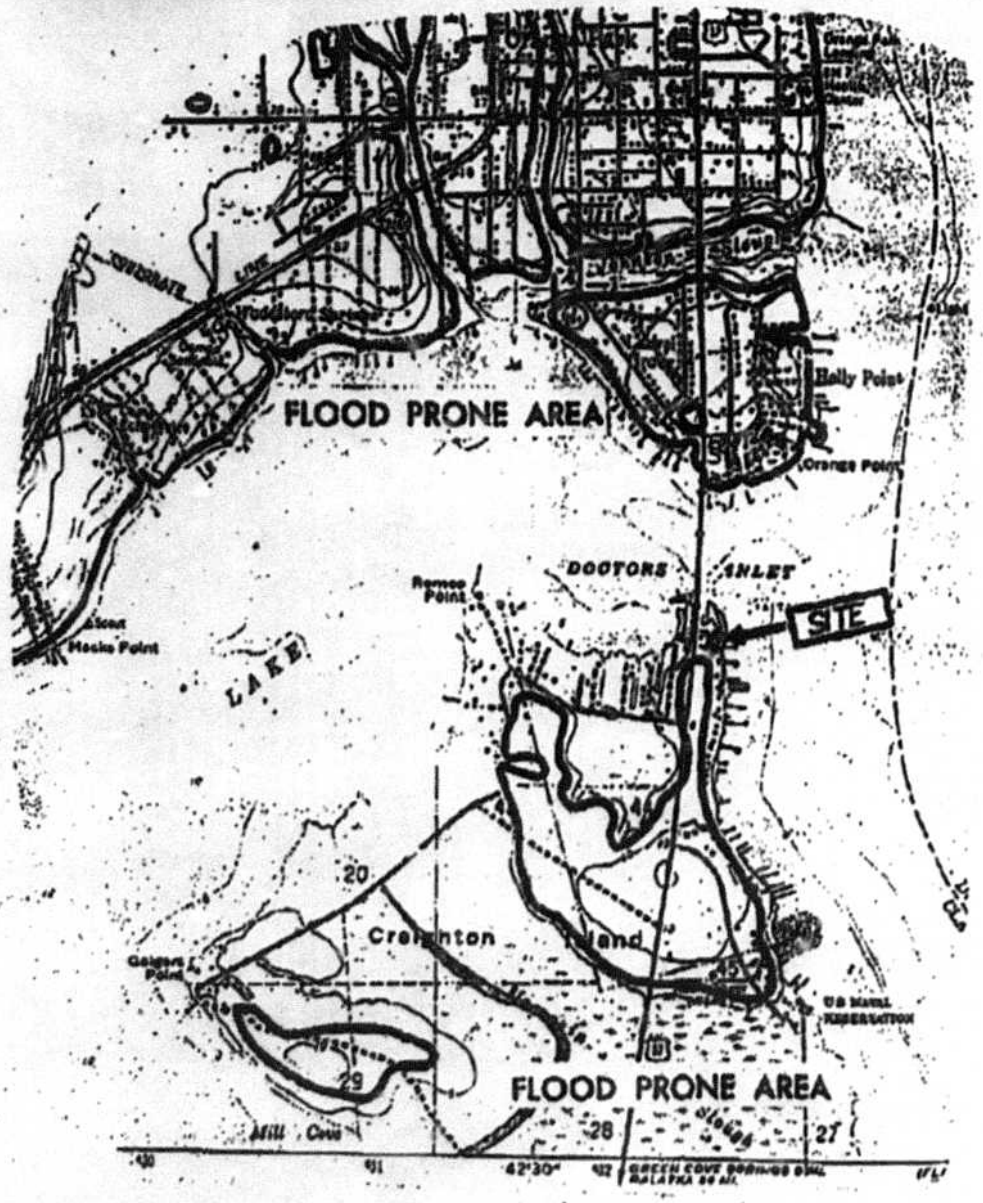

FIGURE 2
SITE PLAN/LOCATION PLAN
POINTE TOWNHOMES WWF

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THE POINT TOWNHOMES WASTEWATER TREATMENT FACILITY

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	March	0.006	0.0060	40.00	0.0061	40.56	0.9863
	April	0.006	0.0060	40.00	0.0062	41.11	0.9780
	May	0.006	0.0060	40.00	0.0061	40.56	0.9863
	June	0.005	0.0057	37.78	0.0059	38.33	0.9855
	July	0.006	0.0057	37.78	0.0058	38.89	0.9714
	August	0.006	0.0057	37.78	0.0058	38.89	0.9714
	Septembe	0.009	0.0070	46.67	0.0061	40.56	1.1507
	October	0.006	0.0070	46.67	0.0062	41.11	1.1351
	November	0.005	0.0067	44.44	0.0061	40.56	1.0959
	December	0.006	0.0057	37.78	0.0061	40.56	0.9315
1995	January	0.006	0.0063	42.22	0.0063	41.67	1.0133
	February	0.007	0.0070	46.67	0.0063	42.22	1.1053
	March	0.007	0.0073	48.89	0.0064	42.78	1.1429
	April	0.006	0.0073	48.89	0.0066	43.89	1.1139
	May	0.006	0.0077	51.11	0.0068	45.00	1.1358
	June	0.007	0.0077	51.11	0.0069	46.11	1.1084
	July	0.006	0.0077	51.11	0.0071	47.22	1.0824
	August	0.01	0.0083	55.56	0.0074	49.44	1.1236
	Septembe	0.01	0.0093	62.22	0.0075	50.00	1.2444
	October	0.01	0.0100	66.67	0.0078	52.22	1.2766
	November	0.011	0.0103	68.89	0.0083	55.56	1.2400
	December	0.009	0.0100	66.67	0.0086	57.22	1.1650
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	August	0.009	0.0100	66.69	0.0103	68.48	1.0059
	Septembe	0.007	0.0103	66.69	0.0100	66.67	1.0333
	October	0.011	0.0090	60.00	0.0101	67.27	0.8919

17. Is there a build-up of residuals in the basin? (✓) yes (✓) no

18. Are there gas bubbles in the basin? (✓) yes ( ) no from skimmer airlift

19. Is there floating scum and/or solids in the basin? ( ) yes (✓) no

20. Is there excessive foaming downstream? ( ) yes (✓) no

21. Is there evidence of toxicity (dead fish, other dead organisms) downstream? ( ) yes (✓) no

22. What is the frequency of routine inspections for proper operation? 2-3 /day

23. What is the frequency of maintenance inspections by plant personnel? 260 /year

24. What is the general condition of the chlorination facilities? (✓) good ( ) fair ( ) poor

25. What are the most common problems that the operator has had with the chlorination process? ______

* Operator checks for any sludge buildup in CCC chamber and can use a skimmer air lift to remove

RESIDUALS TREATMENT

Aerobic Stabilization

1. How many aerobic digesters are there? 1
2. What is the design influent flow to each digester? 15 gallons/day average
3. What is the actual influent flow to each digester? As needed gallons/day average
4. What are the dimensions of each unit? 1463 gal.
5. How many units are presently operating? 1
6. What type of residuals are treated in the aerobic digester? (✓) waste activated ( ) primary ( ) primary and waste activated ( ) other _____.
7. How often are residuals applied to the digester? As needed/day
8. What is the total duration of influent pumping? 5 hours/day
9. How are influent residuals pumped? (✓) manually ( ) automatically
10. What is the solids concentration in the influent residuals? ± 1.5 %
11. What is the solids concentration in the aerobic digesters? ± 2 %
12. What type of aeration equipment is used? (✓) diffused air ( ) mechanical mixers ( ) combination ( ) other _____
13. If diffused aeration is used, do air diffusers require frequent cleaning? ( ) yes (✓) no ( ) not applicable
14. What type of aerobic digesters are used? (✓) open ( ) closed
15. What type of aeration is provided? (✓) conventional ( ) pure oxygen
16. What is the residuals retention time? ± 45 days
17. What is the volatile suspend solids (VSS) loading? _____ lb VSS/cu ft/day
18. What type of feed system is used? ( ) continuous (✓) batch
19. What is the solids concentration of the residuals following settling? 3 %
20. How much waste residuals are pumped? As needed gallons/day

21. How often do waste residuals pumps run? As needed minutes/hour

22. How are residuals wasted? (✓) manually ( ) automatically

23. What volume of residuals are recycled back to the aerobic digester? 2-10" gallons/day average

24. What percentage of the influent residuals flow is the recycle residuals flow? 2-4 %

25. Are the contents of the tanks well mixed and relatively free of odors? (✓) yes ( ) no

26. Is there a foaming problem? ( ) yes (✓) no

27. What is the dissolved oxygen (DO) concentration in the aerobic digestion units? 2 / mg/l

28. Are there provisions for pH adjustment by the addition of lime, sodium hydroxide, or sodium bicarbonate? ( ) yes (✓) no

29. What is the volume of supernatant flow? _____ gallons/day average

30. What is the BOD of the supernatant flow? _____ mg/l

31. What is the suspended solids concentration of the supernatant? _____ mg/l

32. What is the nitrate nitrogen concentration of supernatant? _____ mg/l

33. What is the ammonia nitrogen concentration of the supernatant? ____ mg/l

34. Is there excessive foaming in the tank? ( ) yes (✓) no

35. Are there objectionable odors in the aerobically digested residuals? ( ) yes (✓) no

36. Is the digester overloaded? ( ) yes (✓) no

37. Is there clogging of diffusers in the digester? ( ) yes (✓) no ( ) not applicable

38. What is the depth of the sand and grit layer? .5 feet

39. What is the active capacity of the digester? 195.5 cubic feet

40. Is there adequate supernatant removal? (✓) yes ( ) no

41. If multiple units are used, is the flow distributed evenly? ( ) yes ( ) no (✓) not applicable

42. Does the unit show signs of short circuiting and/or overloads?
( ) yes (✓) no

43. Does the method of stabilization comply with either the Process to Further Reduce Pathogens (PFRP) or the Process to Significantly Reduce Pathogens (PSRP) as described in Title 40 Code of Federal Regulation's Part 257? ( ) yes ( ) no

If yes, which one? ( ) PFRP ( ) PSRP

If no, explain. _____

44. What is the frequency of routine inspections for proper operation?
24 /day

45. What is the frequency of maintenance inspections by plant personnel?
24 /year

46. What is the general condition of the aerobic digesters?
(✓) good ( ) fair ( ) poor

47. What are the most common problems that the operator has had with the aerobic digesters? _____

DISPOSAL SYSTEMS

Outfalls

1. How many outfalls are there? 1

2. What type of receiving waters does the outfall(s) discharge to?
( ) ocean ( ) estuary ( ) lake (✓) river ( ) other _____

3. What is the design capacity of each outfall?
.015 mgd average .030 mgd peak

4. What is the present discharge at each outfall?
.010 mgd average .020 mgd peak

5. What are the diameter and length of each outfall? 6" PVC, 800'±

6. Are the outfall diffusers functioning properly?
( ) yes ( ) no (✓) not applicable

7. Is the outfall(s) operating so that the discharge limitations specified in the permit are consistently met? (✓) yes ( ) no

8. How does the effluent flow in the outfall? (✓) gravity ( ) pressure

   If the flow is by gravity and if the outfall(s) extends into the receiving waters, is a manhole provided at the shore end of the outfall? ( ) yes (✓) no ( ) not applicable

9. Is adequate corrosion control provided (i.e., pipe coatings, cathodic protection, etc.)? (✓) yes ( ) no

10. For outfalls subject to tidal or high water backup, are flap valves or automatically closing gates functioning properly?
( ) yes ( ) no (✓) not applicable.

11. Does the outfall(s) exhibit signs of scour or undercutting?
( ) yes (✓) no

12. Is the outfall(s) adequately protected from floodwaters, tides, and other hazards so as to reasonably ensure structural stability and prevent stoppage? (✓) yes ( ) no

13. Can effluent samples be obtained at a point after the final treatment process and before discharge to or mixing with the receiving waters?
(✓) yes ( ) no

14. Are outfall and diffuser pipes routinely inspected for breakage and corrosion? (✓) yes ( ) no

15. What is the frequency of maintenance inspections by plant personnel?
260 /year

16. What is the general condition of the outfall facilities?
(✓) good ( ) fair ( ) poor

17. What are the most common problems that the operator has had with the plant outfall(s)? none

Department of Environmental Protection

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

May 23, 1997

CERTIFIED MAIL -- RETURN RECEIPT

In the Matter of an Application
for Permit by:

Mr. John Yonge, President
Point Water and Sewer, Inc.
4753 Raggedy Point Road
Orange Park, Florida 32073

DEP File No. 297836
Clay County
The Point Townhomes WWTF

NOTICE OF PERMIT ISSUANCE

Enclosed is Permit Number FL0042871 to operate an existing 0.015 mgd AADF permitted capacity extended aeration WWTF with disinfected effluent dechlorinated and discharged to the St. Johns River 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;

EXHIBIT "JY-4-A"

(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.

BFW

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

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

JMO/jd

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 5/29/97 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 Date 5/29/97

Copies furnished to:

Darryl Joyner, DEP, Tallahassee
Douglas H. Reynolds, Cox & Reynolds
Robert A. Routa
James Lucas, P.E., J, Lucas and Associates
Patricia Brady, PSC

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:

Point Water and Sewer, Inc.

RESPONSIBLE AUTHORITY:

Mr. John Yonge, President
4753 Raggedy Point Road
Orange Park, FL 32073

PERMIT NUMBER:	FL0042871
ISSUANCE DATE:	May 23, 1997
EXPIRATION DATE:	May 22, 2002
FACILITY I.D. NO.:	FL0042871 (3110P00304)
APPLICATION NO.:	297836

FACILITY:

The Point Townhomes WWTF
U. S. Highway 17, Fleming Island
Orange Park, FL 32073
Clay County

Latitude: 30° 08' 48" N Longitude: 81° 42' 00" 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 0.015 mgd annual average daily flow (AADF) permitted capacity extended aeration wastewater treatment plant (WWTP) consisting of a 17,765 gallon aeration tank, a 2,880 gallon secondary clarifier, a 1,463 gallon chlorine contact chamber, and dechlorination. WWTP residuals are stabilized in an aerobic digester prior to hauling to a land application site.

EFFLUENT DISPOSAL:

Surface Water Discharge: An existing 0.015 mgd AADF permitted discharge to St. Johns River (Class III fresh waters) at Discharge Location (D001). The point of discharge is located approximately at latitude 30° 08' 48" N, longitude 81° 42' 00" W.

IN ACCORDANCE WITH: The limitations, monitoring requirements and other conditions as set forth in Pages 1 through 15 of this permit.

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	Post-Disinfection
EFD-1	Final Effluent

3. 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]*

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. *[62-600.440(4)(b), 6-8-93]*

5. In order to calculate the unionized ammonia value, the final treated effluent must be sampled for total ammonia nitrogen and temperature and pH of the effluent at the time of sample collection. The unionized ammonia value shall be calculated based on the total ammonia nitrogen, temperature, and pH.

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	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow	mgd	Maximum	0.015	5 Days/Week	Elapsed time meters on pumps	INF-1	See Cond. I.B.3, 4
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Report	-	Monthly	Grab	INF-1	See Cond. I.B.3
Total Suspended Solids	mg/L	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 prior to biological treatment

Department of Environmental Protection

Lawton Chiles
Governor

Northeast District
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STATE OF FLORIDA
DOMESTIC WASTEWATER FACILITY PERMIT

PERMITTEE:

Point Water and Sewer, Inc.

RESPONSIBLE AUTHORITY:

Mr. John Yonge, President
4753 Raggedy Point Road
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FACILITY:

The Point Townhomes WWTF
U. S. Highway 17, Fleming Island
Orange Park, FL 32073
Clay County

Latitude: 30° 08' 48" N Longitude: 81° 42' 00" W

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TREATMENT FACILITIES:

An existing 0.015 mgd annual average daily flow (AADF) permitted capacity extended aeration wastewater treatment plant (WWTP) consisting of a 17,765 gallon aeration tank, a 2,880 gallon secondary clarifier, a 1,463 gallon chlorine contact chamber, and dechlorination. WWTP residuals are stabilized in an aerobic digester prior to hauling to a land application site.

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IN ACCORDANCE WITH: The limitations, monitoring requirements and other conditions as set forth in Pages 1 through 15 of this permit.

PERMITTEE: Point Water and Sewer, Inc.
FACILITY: The Point Townhomes WWTF
U.S. 17, Fleming Island
Orange Park, FL 32073

PERMIT NUMBER: FL0042871
ISSUANCE DATE: May 23, 1997
EXPIRATION DATE: May 22, 2002
APPLICATION NO.: 297836

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 the 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
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	20.0	25.0	40.0	60.0	Monthly	Grab	EFD-1	
Total Suspended Solids	mg/L	Maximum	20.0	30.0	45.0	60.0	Monthly	Grab	EFD-1	
pH	std. units	Range	-	-	-	6.0 to 8.5	5 Days/Week	Meter or Instrument	EFD-1	
Fecal Coliform Bacteria	See Permit Condition I.A.3.						Monthly	Grab	EFD-1	
Total Residual Chlorine (For Disinfection)	mg/L	Minimum	-	-	-	0.5	5 Days/Week	Meter or Instrument	EFA-1	See Cond. I.A.4
Total Residual Chlorine (For Dechlorination)	mg/L	Maximum	-	-	-	0.01	Monthly	Meter or Instrument	EFD-1	
Nitrogen, Total as N	mg/L as N	Report	-	-	-	-	Quarterly	Grab	EFD-1	
Nitrogen, Organic, Total as N	mg/L as N	Report	-	-	-	-	Quarterly	Grab	EFD-1	
NO2+NO3, Total 1 DET. as N	mg/L as N	Report	-	-	-	-	Quarterly	Grab	EFD-1	
Ammonia, Total as N	mg/L as N	Report	-	-	-	-	Quarterly	Grab	EFD-1	
Ammonia, Unionized as N	mg/L as N	Report	-	-	-	-	Quarterly	Calculation	EFD-1	See Cond. I.A.5.
Phosphorus, Total as P	mg/L as P	Report	-	-	-	-	Quarterly	Grab	EFD-1	
Phosphorus in Total Orthophosphate as P	mg/L as P	Report	-	-	-	-	Quarterly	Grab	EFD-1	
Temperature, Water	deg C	Report	-	-	-	-	Quarterly	Meter or Instrument	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	Post-Disinfection
EFD-1	Final Effluent

3. 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]*

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. *[62-600.440(4)(b), 6-8-93]*

5. In order to calculate the unionized ammonia value, the final treated effluent must be sampled for total ammonia nitrogen and temperature and pH of the effluent at the time of sample collection. The unionized ammonia value shall be calculated based on the total ammonia nitrogen, temperature, and pH.

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	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow	mgd	Maximum	0.015	5 Days/Week	Elapsed time meters on pumps	INF-1	See Cond. I.B.3, 4
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Report	-	Monthly	Grab	INF-1	See Cond. I.B.3
Total Suspended Solids	mg/L	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 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. Elapsed time meters on pumps shall be utilized to measure flow and calibrated at least annually. *[62-601.200(17) and .500(6), 5-31-93]*

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)
$CBOD_5$	405.1	0.2 (mg/L)	1.0 (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 Residual Chlorine (for disinfection)	330.1 or 330.2 or 330.4 or 330.5	10.0 / 1000.0 / 100.0 / 200.0 (µg/L)	10.0 / 1000.0 / 100.0 / 200.0 (µg/L)
Total Residual Chlorine (after dechlorination)	330.1 or 330.5	10.0 / 200.0 (µg/L)	10.0 / 200.0 (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]

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 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]

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
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

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 C.

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 12 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 C residuals shall not be used on unrestricted access areas. *[62-640.600(7)(b), 3-1-91]*

7. Class C 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. The public shall be restricted from the application area for 12 months after the last application of Class C residuals. *[62-640.600(7)(f), 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 C residuals. *[62-640.600(7)(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 60 days following the last application of Class C 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(7)(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 C residuals. *[62-640.600(7)(e), 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 Location	
Site Name	Application Area (Acres)	City	County
Effie Peterson Site	100	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 District Office by July 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. 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 III, Class D facility and, at a minimum, operators with appropriate certification must be on the site as follows:

A Class D or higher operator for 3 nonconsecutive visits/week for 1 1/2 hours/week. The lead operator must be a Class D 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. A certified operator shall be on call during periods the plant is unattended. Daily checks of the plant shall be performed by the permittee or his representative or agent 5 days per week. On those days when the facility is not staffed by a certified operator, the permittee shall ensure that flow, pH, and total residual chlorine (for disinfection) are monitored in accordance with Section I of this permit. *[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), 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. 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. 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. 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. 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]*

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 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]*

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, 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]*

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 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.

BFW

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

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

DATE: 5-29-97

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 5/29/97
Date

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

PERMIT NUMBER: FL0042871

FACILITY NAME: The Point Townhomes WWTF

FACILITY LOCATION: Orange Park, Clay County

NAME OF PERMITTEE: Point Water and Sewer, Inc.

PERMIT WRITER: Jon Dinges

1. EFFLUENT DISPOSAL AND REUSE LOCATION(S):

Surface Water Discharge:

Outfall D001

The facility discharges to St. Johns River (Class III Fresh Waters).

2. DESCRIPTION OF FACILITIES:

An existing 0.015 mgd annual average daily flow (AADF) permitted capacity extended aeration wastewater treatment plant (WWTP) consisting of a 17,765 gallon aeration tank, a 2,880 gallon secondary clarifier, a 1,463 gallon chlorine contact chamber, and dechlorination. WWTP residuals are stabilized in an aerobic digester prior to hauling to a land application site.

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
Carbonaceous Biochemical Oxygen Demand (5 day)	Annual Average Monthly Average Weekly Average Single Sample Max.	62-600.420(1)(a) & .740(1)(b)1.a. FAC 62-620.625(5) FAC & 40 CFR 133.102(a)(4)(i) 62-620.625(5) & 40 CFR 133.102(a)(4)(i) 62-600.740(1)(b)1.d.FAC
Total Suspended Solids	Annual Average Monthly Average Weekly Average Single Sample Max.	62-600.420(1)(a) & .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	Minimum and Maximum	62-302.530(52) FAC
Fecal Coliform	Annual Average	62-600.440(4)(c)1. FAC

Bacteria	Monthly Geo. Mean. 90th Percentile Single Sample Max.	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)	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
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 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. 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

The renewed NPDES permit contains the same limits as the previous NPDES permit. The facility discharge is limited to 0.015 mgd AADF, which is a relatively small discharge. As a result, the Department believes that secondary limits will be adequate to protect the classification of the receiving stream.

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

Other Limitations and Monitoring Requirements:

Parameter	Basis	Rationale
Flow	Annual Average	62-600.400(3)(b)FAC
Carbonaceous Biochemical Oxygen Demand (5 day)	Monitor & Report	62-601.300(1)FAC

Total Suspended Solids	Monitor & Report	62-601.300(1)FAC

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

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
62-601	05-31-93

4. RESIDUALS MANAGEMENT:

Class of residuals stabilization to be provided: C

Proposed method of residuals use or disposal: Land application at the Effie Peterson site in Duval county.

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) 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.

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

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
62-640	8-12-1990

5. INDUSTRIAL PRETREATMENT REQUIREMENTS:

Not Applicable

6. PROPOSED SCHEDULE FOR PERMIT ISSUANCE:

Draft permit to Applicant		February 13, 1997
Proposed Public Comment Period	Beginning	February 17, 1997
Proposed Public Comment Period	Ending	March 19, 1997
Proposed permit to EPA (if necessary)		February 17, 1997
Notice of Agency Action		May 23, 1997
Effective Date of Permit		May 23, 1997

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:	Point Water and Sewer, Inc.	**PERMIT NUMBER:**	FL0042871		
MAILING ADDRESS:	4753 Raggedy Point Road Orange Park, FL 32073	**MONITORING PERIOD From:**		**To:**	
		LIMIT:	Final	**REPORT:**	Monthly
		CLASS SIZE:	Minor	**GROUP:**	Domestic
FACILITY:	The Point Townhomes WWTF	**FACILITY ID:**	FL0042871	**WAFR SITE NO.:**	8561
LOCATION:	U. S. Highway 17 Fleming Island Orange Park, FL 32073	**GMS ID NO.:**	3110P00304	**GMS TEST SITE NO.:**	3110X10177
		DISCHARGE POINT NUMBER:	1 001		
		PLANT SIZE/TREATMENT TYPE:	IIID		
COUNTY:	Clay				

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
CBOD5	Sample Measurement										
STORET No. 80082 Y Mon.Site No. EFD-1	Permit Requirement				20.0 (Av.Avg.)			mg/L		Monthly	Grab
CBOD5	Sample Measurement										
STORET No. 80082 1 Mon.Site No. EFD-1	Permit Requirement				25.0 (Mo.Avg.)		60.0 (Max.)	mg/L		Monthly	Grab
TSS	Sample Measurement										
STORET No. 00530 Y Mon.Site No. EFD-1	Permit Requirement				20.0 (Av.Avg.)			mg/L		Monthly	Grab
TSS	Sample Measurement										
STORET No. 00530 1 Mon.Site No. EFD-1	Permit Requirement				30.0 (Mo.Avg.)		60.0 (Max.)	mg/L		Monthly	Grab
pH	Sample Measurement										
STORET No. 00400 1 Mon.Site No. EFD-1	Permit Requirement					6.0 (Min.)	8.5 (Max.)	S.U.		5 Days/Week	Meter or Instantaneous
Fecal Coliform Bacteria	Sample Measurement										
STORET No. 31613 Y Mon.Site No. EFD-1	Permit Requirement				200 (An.Avg.)			#/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 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: The Point Townhomes WWTF PERMIT NUMBER: FL0042871 DISCHARGE POINT NUMBER: D001 WAFR SITE No.: 8561

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Fecal Coliform Bacteria	Sample Measurement										
STORET No. 31615 1 Mon.Site No. EFD-1	Permit Requirement					Report (Mo.Geo.Mean)	800 (Max)	#/100mL		Monthly	Grab
TRC for disinfection	Sample Measurement										
STORET No. 50060 A Mon.Site No. Ex A-1	Permit Requirement					0.5 (Min)		mg/L		5 Days/Week	Meter or Instrument
TRC for dechlorination	Sample Measurement										
STORET No. 50060 1 Mon.Site No. EFD-1	Permit Requirement						0.01 (Max)	mg/L		Monthly	Meter or Instrument
Flow	Sample Measurement										
STORET No. 50050 Y Mon.Site No. INF-1	Permit Requirement	0.015 (An.Avg.)		mgd						5 Days/Week	E/M
Flow	Sample Measurement										
STORET No. 50050 0 Mon.Site No. INF-1	Permit Requirement	Report (Mo.Avg.)		mgd						5 Days/Week	E/M
CBOD5	Sample Measurement										
STORET No. 80082 0 Mon.Site No. INF-1	Permit Requirement				Report (Mo.Avg.)			mg/L		Monthly	Grab
TSS	Sample Measurement										
STORET No. 00530 0 Mon.Site No. INF-1	Permit Requirement				Report (Mo.Avg.)			mg/L		Monthly	Grab
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										

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	30/31
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																														
Fecal Coliform (col./100ml)																														
Total Nitrogen (mg/l as N)																														
Total Ammonia (mg/l as N)																														
Nitrate + Nitrite (mg/L as N)																														
Unionized Ammonia (mg/L as N)																														
Organic Nitrogen (mg/L as N)																														
Total Phosphorous (mg/L as P)																														
Orthophosphate (mg/L as P)																														

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.

THE POINT TOWNHOMES WASTEWATER TREATMENT FACILITY

PERFORMANCE ANALYSIS

		FLOW - MGD ADF	INFLUENT BOD	INFLUENT TSS	EFFLUENT BOD	EFFLUENT TSS	pH	Chl Resid CCC	Chl Resid Out.	FECAL
1993	January	0.005	405	359	6.4	15	7.4	0.5	0.01	100
	February	0.005			29.4	11	7.25	0.5	0.01	100
	March	0.004	232	60	18.5	1	7.2	0.5	0.01	10
	April	0.005	145	180	1	2	7.2	1	0.01	10
	May	0.007	630	207	11.3	6	6.9	0.5	0.01	
	June	0.009	300	77	3.2	2	7	0.5	0.01	10
	July	0.006	68	3	2	1	7.4	0.1	0.01	10
	August	0.006	120	47	4.5	7	7.45	0.1	0.01	10
	September	0.006	420	467	23.5	7	7.095	0.5		10
	October	0.005	60	5	16	4	7	0.2	0.01	10
	November	0.006	145	75	3.5	1	7.15	0.6	0.01	10
	December	0.006	233	290	5.9	4	7.2	0.6	0.01	10
	Average	0.006	319	325	6.2	9.8	7.3	0.66	0.01	55
1994	January	0.006	152	92	1	1	7.1	0.5	0.01	10
	February	0.006	141	100	9.7	5	7.1	0.5	0.01	10
	March	0.006	239	370	4.1	1	7.15	1	0.01	1
	April	0.006	158	70	1.7	1	7.2	0.6	0.01	10
	May	0.006	101	367	1.8	2	7.45	0.6	0.01	
	June	0.005	169	28	10.1	1	7.15	0.6	0.01	2
	July	0.006	103	44	10.4	1	7.15	0.6	0.01	88
	August	0.006	129	126	1.3	1	6.9	0.6	0.01	4
	September	0.009	101	66	5.6	6	6.95	0.5	0.01	2
	October	0.006	340	407	3.3	1	7.35	0.7	0.01	
	November	0.005	200	306	2.6	1	7.15	0.5	0.01	
	December	0.006	109	22	4	8	7.86	0.8	0.01	1552
	Average	0.006	162	169	4.6	2.6	7.19	0.61	0.01	187
1995	January	0.006	80	70	7.2	1	7.7	0.8		1
	February	0.007	135	76	4.4	2	7.75	0.8		2
	March	0.007	55	64	2	4	7.4	0	1.4	2
	April	0.006	206	216	6	3	7.25	0.5	1	2
	May	0.006	354	544	2	4	7.4	0.6	0.8	2
	June	0.007	232	342	2	4	7.35	0.5	0.8	2
	July	0.006	199	132	2	2	7.4	0.5	1	1600
	August	0.01	156	276	2	4	7.45	0.5	0.01	2
	September	0.01	262	360	2	10	7.45	0.5	0.8	2
	October	0.01	448	656	2	7	7.5	0.5	0.8	2
	November	0.011	261	750	2	17	7.45	0.6	0.01	2
	December	0.009	263	932	2	2	7.5	0.5	0.01	2
	Average	0.009	221	368	2.9	5	7.47	0.5	0.66	135
1996	January	0.008	110	71	2	6	7.45	0.5	0.01	6
	February	0.009	157	56	2	2	7.45	0		2
	March	0.011	316	120	2	1	7.45	0	0.01	2
	April	0.014	258	216	2	1	7.45	0	0.01	2
	May									
	June	0.007	177	92	2	1	7.45	0	0.01	2
	July	0.015	183	356	2	3	7.45	0	0.01	2
	August	0.009	218	16	2	1	7.45	1	0.01	2
	September	0.007	242	284	2	1	7.45	1	0.01	2
	October	0.011	166	220	5	1	7.45	1	0.01	2
	Average	0.010	203	159	2.3	1.9	7.45	0.4	0.01	2

ATTACHMENT 2

FIELD EVALUATION OF COMPONENT OPERATIONS

POINT TOWNHOMES WASTEWATER FACILITY

PHYSICAL CONDITION

Hydraulic and Organic Overloading

1. Is there evidence of past spills at the plant or through nearby (upstream) manholes? (Discoloration of the ground or a strong smell may indicate past spills at the plant.) ( ) yes (✓) no

2. Are raw sewage pumping stations, influent lines, overflow weirs, or other structures surcharged? ( ) yes (✓) no

3. Is there flow through bypass channels? ( ) yes (✓) no

4. Are there old high water lines or are the weirs on the clarifier flooded? ( ) yes (✓) no

5. Are there overflows at alternative discharge points, channels, or other areas? ( ) yes (✓) no

6. Are there any open-ended pipes that appear to originate in a process or storage area and periodically contain flows to the ground or to surface water? (Although these pipes have been disconnected from a closed system or otherwise removed from service, they can still be connected to a discharge source.) ( ) yes (✓) no

7. Is the facility receiving excessive septage dumping from septic tanks? ( ) yes (✓) no

8. Are checks for overflows performed routinely? (✓) yes ( ) no

General Condition

1. Is there evidence of corrosion problems at the treatment plant and in the collection system? ( ) yes (✓) no

2. Do any of the units or associated equipment show signs of excessive wear? ( ) yes (✓) no

Rule Requirements

1. Does each component, system, or process meet the applicable reliability standards required by Rule 17-600.400(1)(b), F.A.C.? (✓) yes ( ) no

2. Does the facility have adequate alarm systems for power or equipment failures as recommended by standard design references? (✓) yes ( ) no High level alarm on L.S. only

   Are they working properly? (✓) yes ( ) no

3. Is standby power or other equivalent provisions provided for all components, systems, and processes as recommended by standard design references? ( ) yes (✓) no

4. Are there adverse effects resulting from odors, noise, aerosol drift, and lighting at the facility? ( ) yes (✓) no

5. Are there piles of collected screenings, slurries, residuals, or by-products of treatment? (Their disposal, including run-off of any water, must be such that none enters surface waters or their tributaries.) ( ) yes (✓) no

Operating Problems

1. Are all components, systems, or processes (including associated equipment such as pumps, blowers, air compressors, oxygen systems, scum collection systems, residuals collection systems, diffusers, mechanical aerators, mechanical drives, mechanical mixers, motors, residuals heater, feed systems, backwash systems, control systems, flow measurement devices, automatic valves, ventilation fans, and other miscellaneous equipment) operating properly? (✓) yes ( ) no

If no, explain.

_____

_____

_____

_____

_____

2. Are any components, systems, or processes out of service?
( ) yes (✓) no

If yes, complete the following table for each component, system, or process that is not operating.

Name	Date Out of Service	Type of Failure	Expected Date to Return to Service

3. Are there excessive noises associated with any component, system, or process? ( ) yes (✓) no

4. Is there any unusual equipment intended to correct operational problems (e.g. special pumps, floating aerators in diffused air systems, chemical feeders, temporary construction or structures, or any improvised systems)? ( ) yes (✓) no

5. Are all components, systems, and processes expected to continue to operate properly for the permit period? (✓) yes ( ) no

If no, explain. _____

_____

_____

_____

Safety Features

1. Are proper safety precautions used for each component, system, and process? (✓) yes ( ) no

If no, explain. _____

_____

_____

_____

2. Is a written set of safety rules available to all employees? ( ) yes (✓) no

3. Is the plant generally clean and free from open trash areas? (✓) yes ( ) no

4. Is the plant site enclosed with a fence or otherwise designed with appropriate features that discourage the entry of animals or unauthorized persons? (✓) yes ( ) no

5. Are wastewater pipes clearly distinguished from product pipes? ( ) yes (✓) no

6. Are there any cross connections between a potable water supply and non-potable source? ( ) yes (✓) no has adequate backflow preventer

7. Does the plant have the following recommended safety equipment?

   a. Portable air blower (gas motor or electric motor operated) ( ) yes (✓) no

   b. Electric explosion-proof lantern ( ) yes (✓) no

   c. Safety harness ( ) yes (✓) no

d. Hose mask with hand blower and 50-foot hose ( ) yes (✓) no

e. Self contained breathing apparatus for plants using chlorine ( ) yes ( ) no (✓) not applicable

f. Explosion and oxygen meters ( ) yes (✓) no

8. Is personal protective clothing provided (safety helmets, ear protectors, goggles, gloves, rubber boots with steel toes, etc.)? ( ) yes (✓) no

9. Are portable hoists available for equipment removal? ( ) yes (✓) no

10. Are ladders provided to enter manholes of wetwells (fiberglass or wooden for electrical work)? ( ) yes (✓) no

11. Are life preservers and throwlines provided adjacent to all basins, ponds, and lagoons? ( ) yes (✓) no

12. Are handrails provided and in-place around all basins and openings? (✓) yes ( ) no

13. Are all stairs, walkways, and platforms free of grease, oil, and debris and are nonskid surfaces used when needed? (✓) yes ( ) no

14. Is adequate lighting provided? (✓) yes ( ) no

15. Are all components, systems, and processes adequately ventilated? (✓) yes ( ) no

16. Are protective guards provided and in-place on all rotating machinery? (✓) yes ( ) no

17. Is all electrical circuitry enclosed and identified? (✓) yes ( ) no

18. Are appropriate warning signs posted (no smoking, high voltage, non-potable water, chlorine hazard, toxic and flammable gases, etc.)? (✓) yes ( ) no

19. Are emergency shower and eye wash facilities provided where needed? ( ) yes (✓) no

20. Are appropriate fire extinguishers provided where needed? (✓) yes (✓) no none needed

21. Is instrumentation provided and operational for the detection of toxic and flammable gases and low oxygen levels? ( ) yes (✓) no

22. Do pressure vessels operate within their design rating and have a functional pressure relief? ( ) yes ( ) no (✓) not applicable

23. Are chemicals stored properly? (✓) yes ( ) no

24. Are undiked oil/chemical storage tanks used at the facility?
( ) yes ( ) no (✓) not applicable

25. Are chemical storage tanks designed to handle the particular chemical? ( ) yes ( ) no (✓) not applicable

26. Are storage bins provided with dust collectors and vents?
( ) yes ( ) no (✓) not applicable

27. Are storage bins large enough to avoid continuous filling which requires the presence of an operator all the time?
( ) yes ( ) no (✓) not applicable

28. Are access points for sampling dry points which can be reached safely? (✓) yes ( ) no

OPERATION AND MAINTENANCE PROGRAM

Staffing

1. Is the facility adequately staffed with certified operators in accordance with the requirements of Rule 17-602, F.A.C.?
(✓ yes ( ) no

Maintenance Management

1. Is there an identification system to locate and identify all items of equipment? ( ) yes (✓ no

2. Does the facility maintain a records system which includes the following?

   a. Preventive and corrective maintenance work performed
   (✓ yes ( ) no

   b. Maintenance man-hours (✓ yes ( ) no

   c. Spare parts used in the repair ( ) yes (✓ no

   d. Name of the person performing the work (✓ yes ( ) no

   e. Maintenance related costs ( ) yes (✓ no

3. Is routine and preventive maintenance scheduled and performed on time?
(✓ yes ( ) no

4. Are adequate spare parts and supply inventories maintained for each component, system, and process? (✓ yes ( ) no parts readily available locally

5. Is the maintenance program adequate? (✓ yes ( ) no

   If no, explain. _____

Records Keeping

1. Are records required by the permit maintained for a period of five years? (✓ yes ( ) no

2. Is the information required by the permit available, complete, and current? (✓ yes ( ) no

3. Are analytical results consistent with the data reported in the following?

   a. Monthly operating report (✓ yes ( ) no

   b. Limited wet weather discharge report ( ) yes (✓ no

   c. Ground water monitoring report ( ) yes (✓ no

   d. Reclaimed water or effluent analysis report ( ) yes (✓ no

4. Do sampling and analyses data include the following?

   a. Dates, times, and location of the sampling (✓ yes ( ) no

   b. The name of the individual performing the sampling (✓ yes ( ) no

   c. The analytical methods and techniques used (✓ yes ( ) no

   d. The results of the analyses and calibration (✓ yes ( ) no

   e. The dates of the analyses (✓ yes ( ) no

   f. The name of the person performing the analyses (✓ yes ( ) no

   g. The instantaneous flow at the grab sample station ( ) yes (✓ no

5. Do monitoring records include records for all parameters that must be monitored in accordance with the permit? (✓ yes ( ) no

6. Are flow meter calibration records available? ( ) yes ( ) no N/A ETM meters

7. Are laboratory equipment calibration and maintenance records adequate? (✓ yes ( ) no

8. Are plant records adequate and do they include the following?

   a. A copy of the Department permit (✓ yes ( ) no

   b. An up-to-date operation and maintenance manual (✓ yes ( ) no generic O&M manual

   c. Record drawings ( ) yes (✓ no

   d. Schedules and dates of equipment maintenance repairs (✓ yes ( ) no in log book

   e. Equipment suppliers manual ( ) yes (✓ no

   f. Equipment data cards or equal ( ) yes (✓ no

9. Are operating records adequate? (✓) yes ( ) no

10. Have all untreated bypasses and discharges or overflows been reported to the Department? (✓) yes ( ) no

If no, explain. _____

Sampling

1. Are samples taken at the sites specified in the permit? (✓) yes ( ) no

2. Is sampling and analysis completed for each parameter specified by the permit? (✓) yes ( ) no

3. Is the frequency of sampling in accordance with the permit? (✓) yes ( ) no

4. Is the method of sample collection (grab or composite) in accordance with the permit? (✓) yes ( ) no

5. Are sample collection procedures in accordance with the approved test procedures referenced in Rule 17-601.400(1)(a), F.A.C.? (✓) yes ( ) no

6. For flows of 100,000 gallons per day or greater, are recording flow meters and totalizers used? ( ) yes ( ) no (✓) not applicable

7. Are flow recording devices calibrated at least annually? ( ) yes (✓) no GTM meter

Laboratory Analysis

1. Are all laboratory tests required by Department rules performed by a laboratory that has been certified by HRS, or, for on-site tests for dissolved oxygen, pH, and total chlorine residual, are all tests performed by a certified laboratory or under the direction of an operator certified in accordance with Chapter 17-602, F.A.C.? (✓) yes ( ) no

Raw Wastewater

1. What is the location of the pump station? adjacent to plant

2. What are the design flows to the pump station? 10-15 gpm average
   50 gpm peak

3. What are the actual flows to the pump station? 10 gpm average
   25 gpm peak

4. What type of pump control system is used? ( ) variable speed
   (✓) constant speed

5. If the control system is variable speed, what type of controller is used? _____ (✓) not applicable

6. If multiple pumps are used, how is each unit operated?
   ( ) about 15-20% apart (✓) equally ( ) not alternated
   ( ) not applicable

   Is the system remotely monitored? ( ) yes ( ) no (✓) not applicable

7. Does the pump station have a bypass? ( ) yes (✓) no

   If yes, can the bypass flow be disinfected?
   ( ) yes ( ) no (✓) not applicable

8. Can the wet well be isolated into a minimum of two separate basins for maintenance? ( ) yes (✓) no

9. If one wet well basin is down for maintenance, how many pumps are operable? —

10. Does the wet well design provide for equal division of flow to each of the pumps? (✓) yes ( ) no

11. What is the condition of the sump pump?
    (✓) good ( ) fair ( ) poor ( ) not applicable

12. What is the condition of the water seal systems?
    ( ) good ( ) fair ( ) poor (✓) not applicable

13. How often is the pump station checked? (✓) daily ( ) other _____

14. What is the downtime of the pumps? none last year

15. What is the frequency of maintenance inspections by plant personnel?
    260 /year

16. If the pump station is constant speed, do sudden surges affect the operation of the treatment facility when each pump is activated?
( ) yes (✓) no ( ) not applicable

17. What is the general condition of the raw wastewater pump station?
(✓) good ( ) fair ( ) poor

18. What are the most common problems that the operator has had with the pump station? If there are problems with the screens, use the section on screens. Occasional clog which is easily removed from the wheel of recent pumps.

None in last 18 mo.'s.

PUMPING

Residuals

1. What is the design residuals pumping rate? 15,000 gallons/day
2. What is the actual residuals pumping rate? 10,000 gallons/day
3. What types of residuals are pumped? ( ) primary
   (✓) return activated sludge ( ) waste activated sludge
   ( ) other _____
4. How are residuals pumped? ( ) manually (✓) automatically
5. How often do the residuals pumps run? air lift, when blower is operating
6. What is the frequency of maintenance inspections by plant personnel?
   2x0 /year
7. What is the general condition of the residuals pump station?
   (✓) good ( ) fair ( ) poor
8. What are the most common problems that the operator has had with the pump station? None

FLOW MEASUREMENT

1. What type of flow meter is used? ( ) propeller meter
( ) magnetic meter ( ) venturi tube ( ) flow tube
( ) positive displacement ( ) diaphragm meter ( ) weir
( ) Parshall flume ( ) rotameter (✓) other ETM on influent pumps

2. What is the design capacity of the flow measurement device?
— mgd

3. What is the present wastewater flow measured? — mgd

4. Where is the flow meter located? on influent pumps

5. Are the flow measurement device and associated instruments (totalizers, recorders, etc.) properly installed? (✓) yes ( ) no

6. Is there adequate straight length of pipe or channel before and after the flowmeter? ( ) yes ( ) no N/A

7. Is the flow entering the flume reasonably well-distributed across the channel and free of turbulence, boils, or other disturbances?
( ) yes ( ) no (✓) not applicable.

8. Is the flow measurement system capable of measuring the entire range of wastewater flow? (✓) yes ( ) no

9. Are flow measurements being properly made by plant personnel?
(✓) yes ( ) no

10. Are flow records properly kept? (✓) yes ( ) no

11. Are sharp drops or increases in flow records accounted for?
( ) yes ( ) no N/A

12. Does the flow chart exhibit uniform flow? ( ) yes ( ) no N/A

13. Do any plant return flows discharge upstream from the meter?
( ) yes (✓) no

14. Are float and bubble wells clean and free of grease and debris?
( ) yes ( ) no (✓) not applicable

15. Are weirs free of debris? ( ) yes ( ) no (✓) not applicable

16. Are weirs or flumes broken or cracked?
( ) yes ( ) no (✓) not applicable

17. Are weir plates corroded or damaged, not sharp edged (≤ 1/8"), or not level? ( ) yes ( ) no (✓) not applicable

18. Are stilling wells clogged or broken?
( ) yes ( ) no (✓) not applicable

9. What is the frequency of calibration of the flow meter?
_____/month N/A

10. What date was the flow meter last calibrated? —

11. Who performed the calibration? —

12. What is the frequency of routine inspections for proper operation?
260 /day

13. What is the frequency of maintenance inspections by plant personnel?
260 /year

14. What is the general condition of the flow measurement facilities?
(✓) good ( ) fair ( ) poor

15. What are the most common problems that the operator has had with the flow meter? None

BIOLOGICAL TREATMENT

Activated Sludge

1. How many aeration basins are there? 1
2. What is the design capacity of each basin? 0.015 mgd
3. What is the actual flow to each basin? 0.010 mgd average
   0.014 mgd peak
4. What is the flow regime? (✓) conventional ( ) step aeration
   ( ) complete mix ( ) pure oxygen ( ) other _____
5. What type of aeration equipment is used?
   (✓) diffused air ( ) mechanical aerators ( ) other _____
6. What are the dimensions of each aeration basin? 12'Ø * 21' long.
7. What is the color of the activated sludge? ( ) black ( ) dark brown
   ( ) light brown (✓) other medium brown
8. What is the odor of the activated sludge? ( ) septic (✓) earthy
   ( ) none ( ) other _____
9. What characteristics most accurately describe the foam?
   (✓) light, crisp ( ) thick, dark ( ) heavy, white ( ) other _____
10. Are the tank contents mixed thoroughly? (✓) yes ( ) no
11. Are there excessive air leaks in the compressed air piping?
    ( ) yes (✓) no ( ) not applicable
12. Is the dissolved oxygen level in the aeration tank low (<1.0 mg/l)?
    ( ) yes (✓) no
13. Does mixing appear excessive? ( ) yes (✓) no
14. Does air rise in clumps? ( ) yes (✓) no
15. Do there appear to be dead spots in the aeration basin?
    ( ) yes (✓) no

    If yes, at what location? _____
16. What is the depth of the sand and grit layer? ± 1" feet
17. What is the active capacity of the aeration basin?
    2,375 cubic feet
18. Is the process operating in its design mode? (✓) yes ( ) no

    If no, explain. _____

19. Are the return activated sludge pumps operating? (✓) yes ( ) no

If no, what is the reason? _____

20. Are there flow measurement devices for the return activated sludge and waste activated sludge systems? ( ) yes (✓) no

21. Does the aeration basin have a foam control system? ( ) yes (✓) no

22. If multiple basins are operating, is the flow distributed equally?
( ) yes ( ) no (✓) not applicable

How is it distributed? _____

23. Are the characteristics of the basin contents different in the various units? ( ) yes ( ) no (✓) not applicable

24. How is the system operated? ( ) manually ( ) semi-automatically
(✓) automatically ( ) computer-controlled ( ) other _____

25. What is the frequency of routine inspections for proper operation?
260 /day

26. What is the frequency of maintenance inspections by plant personnel?
260 /year

27. What is the general condition of the activated sludge facilities?
(✓) good ( ) fair ( ) poor

28. What are the most common problems that the operator has had with the activated sludge system? none in last 18 mos.

SEDIMENTATION

Final

1. How many final sedimentation basins are there? 1
2. What is the design capacity of each basin? .015 mgd average .030 mgd peak
3. What is the actual flow to each basin? .010 mgd average .020 mgd peak
4. What are the dimensions of the basins? 7'ϕ x 12' Deep
5. Is chemical addition used to improve settling? ( ) yes (X) no

   If yes, what chemical(s) are added? _____
6. Is there an excessive accumulation of scum, grease foam, or floating residuals in the clarifier? ( ) yes (X) no
7. Are there excessive gas bubbles on the surface of the clarifier? ( ) yes (X) no
8. Is there scum overflow, lack of adequate scum disposal, or is the scum pit full? ( ) yes (X) no
9. Does the tank surface indicate improper residuals withdrawal (i.e., excessive floating solids, gas, etc.)? ( ) yes (X) no
10. What volume of residuals is pumped? 15,000 gpd total 15,000 gpd RAS 150 gpd WAS
11. What is the solids concentration of the residuals? ± 1.5% %
12. Are there settleable solids in the effluent? ( ) yes (✓) no
13. How are residuals pumped? ( ) manually (✓) automatically
14. How often do residuals pumps run? — number of times each day

    How long do residuals pumps run? — number of minutes each time

    Air Lift pump operator diverts RAS to waste.
15. Does the residuals collection system show any signs of mechanical failure? ( ) yes (✓) no
16. Is there excessive residuals on the bottom of the basin (i.e., inadequate residuals removal)? ( ) yes (✓) no
17. Is there excessive solids build-up in the center well of the clarifier? ( ) yes (✓) no
18. What is the depth of the sand and grit layer? ± 1' feet

19. Are residuals withdrawal ports clogged? ( ) yes (✓) no

20. Is the residuals blanket too high? ( ) yes (✓) no

21. Is there deflocculation in the clarifier? ( ) yes (✓) no

22. Is there pin floc in the overflow? ( ) yes (✓) no

23. Is there billowing sludge in the clarifier? ( ) yes (✓) no

24. Does the influent baffle system accomplish its purpose?
(✓) yes ( ) no

25. Does the effluent baffle system accomplish its purpose?
(✓) yes ( ) no

26. Does the unit show signs of short circuiting and/or overloads?
( ) yes (✓) no

27. Are the effluent weirs level? (✓) yes ( ) no

28. Are the effluent weirs clean? (✓) yes ( ) no

29. If multiple units are used, is the flow distributed evenly?
( ) yes ( ) no (✓) not applicable

30. What is the frequency of routine inspections for proper operation?
2 /day

31. What is the frequency of maintenance inspections by plant personnel?
260 /year

32. What is the general condition of the final sedimentation facilities?
(✓) good ( ) fair ( ) poor

33. What are the most common problems that the operator has had with the final sedimentation facilities? Replaced clarifier drive

DISINFECTION

Chlorination

1. How many chlorine contact basins are there? 1
2. What is the design capacity of each basin? .015 mgd average .030 mgd peak hourly flow
3. What is the actual flow to each basin? .010 mgd average .020 mgd peak hourly flow
4. What are the dimensions of the basins? 19.5'L
5. What is the detention time of each contact basin at peak hourly flow? 56 minutes
6. What chlorine dosage is applied? 10 mg/l (solid tablets)
7. What is the normal level of chlorine residual in the basin effluent? .5-1 mg/l
8. Are disinfection standards being met? (✓) yes ( ) no
9. What type of chlorination system is being used? ( ) chlorine cylinders ( ) on-site sodium hypochlorite generation ( ) sodium hypochlorite solution ( ) calcium hypochlorite solution Solid Chlorine tablets.
10. What is the design capacity of the chlorination system? — lbs/day

    What is the maximum capacity of the chlorination system? — lbs/day
11. What is the configuration of the chlorine contact basin? ( ) round (✓) rectangular ( ) other _____
12. Is the contact basin adequately baffled to minimize short-circuiting? (✓) yes ( ) no
13. How is chlorine introduced into the wastewater entering the contact basin? ( ) perforated diffusers ( ) injector with single entry point (✓) other Tablet basin at Urban
14. Are mechanical mixing provisions incorporated in the chlorine contact basins design? ( ) yes (✓) no
15. Is there an adequate reserve supply of chlorine? (✓) yes ( ) no

    How many days of supply is maintained? 30 weekdays
16. Are there high temperatures in the chlorination rooms? ( ) yes (✓) no