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September 9, 1997

Ms. Blanco S. Bayo
Director of Records and Reporting
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Re: Sanlando Utilities Corporation Application for Approval of Reuse Project Plan and Increase for Wastewater Rates

Docket No.: ~~938250-WS~~


971186-SU

Dear Ms. Bayo:

Attached are the original and fifteen copies of the Application for Approval of Reuse Project Plan and Increase for Wastewater Rates to be filed on behalf of Sanlando Utilities Corporation.

Should you have any questions in this regard, please let me know.

Sincerely,


Cleatous J. Simmons, Esquire

ACK _____
FEA _____
JCP _____
JAE _____
JMJ _____
JTR _____
JWG _____
JYS _____
JZG _____
JZS _____
JZT _____
JZU _____
JZV _____
JZW _____
JZX _____
JZY _____
JZZ _____

CIS/kjd
Enclosures

c: Jack Shreve, Esquire
Nancy B. Barnard, Esquire
Jennifer L. Burdick, Esquire
Robert L. Taylor, Esquire

Rosanne Gervasi, Esquire
Mr. Charles Lee
Mr. Jack Hiatt
Mr. Robert E. Sweet

001080:38700/0345730

DOCUMENT NUMBER-DATE
09216 SEP 11 6
FPSC-RECORDS/REPORTING

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A MEMBER OF COMMERCIAL LAW AFFILIATES, A WORLDWIDE ORGANIZATION OF INDEPENDENT LAW FIRMS.

DOCUMENT NUMBER-DATE
09216 SEP 11 6
FPSC-RECORDS/REPORTING

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In Re: Application of Sanlando Utilities,)
Corp. for Reuse Project Plan and Increase)
in Wastewater Rates.)
_____)

Docket No.: _____

**APPLICATION FOR APPROVAL OF REUSE PROJECT
PLAN AND INCREASE FOR WASTEWATER RATES**

Applicant, Sanlando Utilities, Corp. (hereinafter "Applicant"), pursuant to Sections 367.0817 and 403.064 (Florida Statutes 1996) files this Reuse Project Plan and Application for increase in rates for wastewater service provided to its customers in Seminole County, Florida, based upon the Utility's reuse project required and undertaken pursuant to Section 403.064 (Florida Statutes 1996).

I.

The following information is provided in accordance with the requirements of Rule 25-22.036 (7), F.A.C. and requirements of Section 367.0817 (Florida Statutes 1996).

- a. The name and address of the Applicant is:

Sanlando Utilities Corp.
1105 Kensington Park Drive
Altamonte Springs, FL 32714

- b. Applicant's interest:

Applicant is a water and wastewater utility as defined by Section 367.021(3) (Florida Statutes 1996), and is not exempt from regulation from the Commission pursuant to Section 367.022 (Florida Statutes 1996). Except as provided in Section 367.081(4) (Florida Statutes 1996), Applicant's rates and charges may not be changed without approval of the Commission.

The Applicant operates its Wekiva wastewater system in Seminole County, Florida. As long ago as 1990 the Applicant began evaluating its long-term method of effluent disposal and

the possibility of reuse as a long-term alternative for its system based upon PSC Order No. 23809 requiring the Applicant to submit a plan detailing actions it would take to implement water conservation initiatives. In April, 1992, a settlement stipulation was agreed to by the Applicant and other parties to resolve a dispute over issuance of an operating permit by the Florida Department of Environmental Protections (FDEP) for the Applicant's Wekiva wastewater facility. On July 10, 1992, FDEP issued Operating Permit Number D059-200447 (the "Operating Permit") to Applicant authorizing the Applicant to continue operating its Wekiva wastewater treatment plant. Paragraphs 3 and 4 of the permit required the Applicant to enter into preliminary discussions with Florida Public Service Commission Staff and Commissioners to determine if the Public Service Commission (the "Commission") would allow implementation of reuse water conservation rates to provide capital funding for the construction of necessary improvements to further treat and deliver reclaimed wastewater to three golf courses. Ongoing discussions with interested parties have taken place since issuance of the Operating Permit about the proper funding methodology for construction of a reuse system in order to allow reuse of reclaimed water from the Applicant's existing wastewater system. A stipulated agreement was entered into between the Applicant and interested parties in Docket No. 930256-WS which provided for construction of the reuse facility by a separate non-profit tax free entity, but due to United States Internal Revenue Department rulings and interpretations the terms of that stipulated agreement may not be capable of being performed. The Applicant has determined that it will be in the best interests of the Applicant and the public to undertake the reuse project through the use of borrowed capital and as a result of that determination has petitioned the commission to put Docket No. 930256-WS in abeyance until this Application is approved or

denied. The Applicant wishes to recover the cost of such reuse project through wastewater rates in accordance with the authority granted under Sections 403.064 and 367.0817 (Florida Statutes 1996). Rather than pursuing a full rate case to recover rates for the costs incurred due to the reuse project and to avoid incurring substantial additional rate case cost, Applicant has chosen to file this Application and to submit its Reuse Project Plan and apply for a rate increase under the above referenced provisions of Florida Statutes, in order to recover these costs through wastewater rates.

II.

At this time, there are no disputed issues of material fact in this matter.

III.

The Reuse Project Plan is more fully described in Schedule No. 1 of the attached **Exhibit "A"** to this Application. In the facts as outlined therein, it should be noted that the Utility is considering other options for effluent disposal, including use of percolation/evaporation ponds which were taken out of service previously and are not currently utilized. The limited availability of land in the area and the high cost of obtaining such lands for use as ponds on a permanent basis, coupled with the environmental sensitivity of the receiving waters of the Applicant's treated effluent discharge, led the Applicant to the conclusion that a reuse project is the best long-term alternative for disposal of some portion of its effluent. In addition, the Applicant has concluded that construction and implementation of a reuse project is in the public interest as a resource conservation measure and is an environmentally sound method of effluent disposal. The base costs and capital requirements for the reuse project are set out in Schedule No. 2 of **Exhibit "A."**

IV.

Copies of the pertinent Department of Environmental Protection and Water Management District permit applications and permits, are attached hereto as **Exhibit "B"**.

V.

The Utility's wastewater service territory and wastewater treatment facilities are all located within the St. Johns River Water Management District (SJRWMD) and SJRWMD has taken an active role in encouraging the Applicant to construct the reuse project. The reuse project is required pursuant to Section 403.064 (Florida Statutes 1996), by the Department of Environmental Protection, as outlined in the attached Operating Permit (**Exhibit "B"**).

VI.

Initially, the Utility will have no reuse customers. After the project is completed the Utility anticipates the addition of up to three golf courses as reuse water customers (Schedule 3 of **Exhibit "A"**). Whether those golf courses can be required to take reuse water at any cost is a function of SJRWMD determining that the rates approved by the Commission for the reuse water to be paid by the golf courses is "economically feasible." Applicant has no control over whether the Utility will have customers eligible and willing to pay for reused water and requests that the Commission approve the rates as noted in Schedule 4 of **Exhibit "A."**

When reuse water customers are available to take the reuse effluent, then it is anticipated that the approved rate structure which results from this limited proceeding will apply to those customers, reducing the rates charged to the existing wastewater customers of the Applicant for the reuse project construction and operation. The Utility will, upon existence of customers eligible and willing to pay for reused water, apply the applicable reuse rates and will

commensurately reduce the additional rates being charged to the existing wastewater customers as outlined in Schedule 5 of **Exhibit "A."** Thereafter, pursuant to Section 367.0817 (Florida Statutes 1996), it is anticipated that the Commission will implement a proceeding to true-up the costs of the reuse project and the resulting rates.

VII.

The Utility's proposed increase in wastewater rates for recovering the projects costs are outlined in Schedules 4 and 5 of **Exhibit "A"** attached hereto.

VIII.

Initially, the Utility believes that its increased costs resulting from the project should be recovered through the wastewater rates as outlined in Schedule 4 of the **Exhibit "A"** and should be approved effective immediately.

IX.

In addition to what the Applicant has listed in Section I hereof, other people to receive copies of orders, notices and other communications concerning this Application, are as follows:

John F. Lowndes, Esquire
and
Cleatous J. Simmons, Esquire
LOWNDES, DROSDICK, DOSTER, KANTOR & REED
PROFESSIONAL ASSOCIATION
215 North Eola Drive
Orlando, Florida 32801


X.

Applicant requests that the Commission consider the information supplied herein and approve this reuse project plan and the proposed increase in wastewater rates as outlined in Schedules 4 and 5 of **Exhibit "A"**, in an expeditious manner consistent with the requirements

of Section 367.0817 (Florida Statutes 1996) and so that they may be implemented beginning in the Spring of 1998 as outlined in Schedule 6 of Exhibit "A." Until such time as the approval for these rates is received from the Commission and those rates can be implemented the Applicant cannot formally begin the design and construction of the reuse project.

Respectfully submitted this
9th day of September, 1997, by:

LOWNDES, DROSDICK, DOSTER, KANTOR
& REED, PROFESSIONAL ASSOCIATION
215 N. Eola Drive
Orlando, Florida 32801
Tel: (407) 843-4600
Fax: (407) 843-4444



Cleatous J. Simmons

001080.54729/0342119

**Sanlando Utilities Corporation
Wekiva Hunt Club WWTP
Reuse System Description**

Sanlando Utilities Corporation presently is permitted to discharge up to 2.9 MGD of advanced secondary treated wastewater into Sweetwater Creek. The current average daily flow from the plant is approximately 2.3 MGD. In seeking ways to reduce the effluent flow and nutrient loading into Sweetwater Creek, we are now planning two steps to reduce that flow. The first is to divert approximately 0.4 MGD to our existing percolation ponds. The second is to design and build a 1.1 MGD public-access reuse treatment and distribution system. That system would serve three golf courses near the plant--Sabal Point Golf Course, Sweetwater Country Club and Wekiva Golf Course. Major components of the project include: post-filtration chlorination, transfer and distribution pump stations, a ground storage tank, transmission mains and booster pump stations. The total estimated cost for these improvements, including design and permitting is \$1.8M. Additional costs, not included in that total, are those which will be incurred by each golf course to modify their irrigation systems to connect to the reuse system.

The option to reactivate the percolation ponds is being pursued as a first step to reduce Sanlando's flow contribution (nutrient loading) into Sweetwater Creek and thence into the Cove Lake System. At the same time, it takes effluent currently being fed to a surficial system and allows it to percolate naturally back into the aquifer. This offers a direct reuse benefit.

The 1.1 MGD public access reuse system provides treatment and storage suitable for public-access use and the transmission and distributions systems necessary to deliver the effluent to three major users. It will also reduce Sanlando's flow contribution (nutrient loading) into Sweetwater Creek and thence into the Cove Lake System. At the same time it will facilitate reduced withdrawals from the aquifer by the three golf courses, another direct reuse benefit.

Other effluent disposal options considered by the utility included:

- a. Continuing to send all flow to Sweetwater Creek
We did not select this option because FDEP and SJRWMD are requiring reuse implementation as part of their respective permits.
- b. 1.1 MGD Golf Course Reuse Only—Not sending any flow to the ponds
We did not select this option because it did not provide the most effective reduction of nutrient loading to Sweetwater Creek.
- c. Developing a "total" reuse system with effluent going to the three golf courses, common use areas and residential use.
We did not select this option because the marginal costs for the additional distribution system necessary to deliver the effluent were too high.

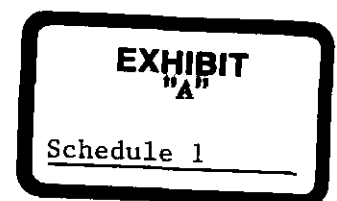


TABLE 2

RECLAIMED SYSTEM BASE COSTS				
<i>(Golf Course Irrigation Only)</i>				
DISTRIBUTION SYSTEM				
Sabal Point Golf Course				
12" PVC	LF	9265	\$20.00	\$185,300.00
Valves & Fittings	LS			\$5,000.00
Jack & Bore	LF	120	\$140.00	\$16,800.00
Restoration	LS			\$9,300.00
Subtotal				\$216,400.00
Wekiva Golf Course				
12" PVC	LF	1645	\$20.00	\$32,900.00
Valves & Fittings	LS			\$2,000.00
Jack & Bore	LF	50	\$140.00	\$7,000.00
Restoration	LS			\$48,400.00
Subtotal				\$90,300.00
Sweetwater Country Club				
12" PVC	LF	11100	\$20.00	\$222,000.00
Valves & Fittings	LS			\$5,000.00
Jack & Bore	LF	170	\$140.00	\$23,800.00
Restoration	LS			\$180,200.00
Subtotal				\$431,000.00
Contingency	10%			\$73,770.00
Total Golf Course Distribution System Cost				\$811,470.00
PLANT IMPROVEMENTS				
Chlorine Contact Chamber	EA	2		\$92,600.00
Transfer Pump Station	EA	1		\$86,900.00
Distribution Pump Station	EA	1		\$133,000.00
1 MG Storage Tanks	EA	1	\$250,000.00	\$250,000.00
Golf Course Improvements Booster Pump Station	EA	2	\$60,000.00	\$120,000.00
Subtotal				\$682,500.00
Plant Misc. & Contingency		15%		\$102,375.00
Total Plant Improvement Cost				\$784,875.00
SERVICES & FEES				
Engineering				
Design & Const. Admin.		10.00%		\$142,020.00
Surveying	LF	4500	\$1.75	\$7,875.00
Permitting				
Bore & Jack	EA	2	\$99.00	\$198.00
Longitudinal Cuts	LF	4500	\$0.08	\$360.00
Transverse Cuts	EA	6	\$270.00	\$1,620.00
Right of Way Fee		2.30%		\$16,967.00
FDEP				\$5,000.00
Total Fees & Services				\$174,040.00
TOTAL BASE COST				\$1,770,385.00

SANLANDO UTILITES CORPORATION
Effluent Rate Study
New Construction – Capital Requirements

Line No.	Col. 1 Segment / Description	Col. 2 Hydraulic Share Avg Day (TG)	Col. 3 Percent	Col. 4 Col. 5 Common Allocation (a)		Col. 6 Total Allocation
				Mains	Plant	
1	#1 Sabal Point	451.0	20.50%	43,459	51,356	94,815
2	#2 Sweetwater C.C.	359.0	16.32%	34,598	40,884	75,482
3	#3 Wekiva	291.0	13.23%	28,047	33,143	61,191
4	Total Irrigation Allocation	1,101.0	50.05%	106,104	125,384	231,488
5	#4 Sweetwater Crk / Perc Ponds	1,099.0	49.95%	741,882	876,683	1,618,564
6	Total Project Costs (b)	2,200.0	100.00%	<u>\$847,986</u>	<u>\$1,002,066</u>	<u>\$1,850,052</u>

Note (a) : 25.00% of hydraulic share of project costs are allocated to golf course effluent reuse customers based on judgement of cost benefit to general customer base.

Note (b) : Calculation of AFUDC:

Project Cost	\$1,770,385
Interest Rate	9.00%
Avg Investment Period (Years)	0.50
Interest During Construction	<u>\$79,667</u>

SANLANDO UTILITIES CORPORATION
Effluent Rate Study
Annual Financing Costs of New Construction
and Debt Coverage Requirement

Line No.	Col. 1	Constuction Cost	Col. 2	Col. 3
	Customer		20 Yr Financing	
			Annual Cost	Cost per TG
1	Effluent Disposal Plant	\$1,002,066	\$109,773	\$0.137
2	Effluent Disposal Mains	847,986	92,894	\$0.116
3	Total Capital Project Costs	\$1,850,052	<u>\$202,667</u>	\$0.252
4	Coverage Requirement @	1.25	<u>\$50,667</u>	\$0.063
5	Effective Debt Service Cost		\$253,334	
6	Effective Interest Rate		12.36%	

Note: Terms of finance costs are calculated at 9.0% interest with annual payments.

**SANLANDO UTILITIES CORPORATION
CAPITAL STRUCTURE**

	Amount	Ratio	Cost	WCC
DEBT – Existing	2,108,265	53.26%	8.40%	4.47%
DEBT – New	1,850,052	46.74%	12.36%	5.78%
EQUITY	<u>0</u>	0.00%	13.51%	<u>0.00%</u>
	3,958,317			10.25%

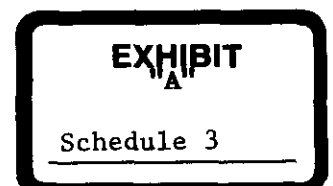
**Sanlando Utilities Corporation
Wekiva Hunt Club WWTP
Proposed Reuse Customers**

No written agreements exist between Sanlando Utilities Corporation and the following planned reuse customers. However, each golf course has a SJRWMD Consumptive use permit (CUP) for irrigation withdrawals. All three permits stipulate that the permittees must accept reuse water for irrigation when available and if "economically feasible".

Wekiva Golf Club
Attn: Kayo Bowman
200 N. Hunt Club Blvd.
Longwood, FL 32779

Sabal Point Country Club
Attn: Joe Yorty, Golf Superintendent
2662 Sabal Club Way
Longwood, FL 32779

Sweetwater Country Club
2700 Sweetwater Country Club Drive
Apopka, FL 32712



SANLANDO UTILITIES CORPORATION
Effluent Rate Study—Sewer Operations
Cost Allocation

Summary of Revenue Requirement Allocations

Line No.	Col. 1 Description	Col. 2 Test Year 1988	Col. 3 Adjusmts	Col. 4 ProForma Test Year	Col. 5 Support Sched	Col. 6 Alloc Symbol	Col. 7 Col. 8 Effluent Reuse		Col. 9 Other
							Irrigation	Disposal	
1	O & M Expense	\$ 2,157,902	\$ 77,754	\$ 2,235,656	F		\$ 0	\$ 97,644	\$ 2,138,012
2	Depreciation, Net	100,436	93,373	253,809	G		0	96,137	157,672
3	Taxes, Other	227,931	14,066	241,997	H		0	35,510	206,487
4	Income Taxes	56,845	(26,076)	30,769		I	0	14,575	15,904
5	Return Requirement	281,898	123,863	405,761	B		0	183,467	212,294
6	Revenue Requirement	\$ 2,894,812	\$ 282,880	\$ 3,167,732			\$ 0	\$ 437,333	\$ 2,730,459
7	Percentage						0.00%	13.81%	86.19%

IRRIGATION CUSTOMERS

Effluent Reuse Cost per 1,000 Gallons:

\$0 / 0 thousand gals. = \$0.00 per 1,000 gals.

OR

Effluent Reuse Cost per Base Facility and Usage Charges:

Base Facility Charge per ERC = \$0.00 per month

Usage Charge = \$0.00 per 1,000 gals.

EFFLUENT DISPOSAL CUSTOMERS

Effluent Disposal Cost per 1,000 Gallons:

\$282,980 / 1,030,967 thousand gals. = \$0.27 per 1,000 gals.

OR

Effluent Disposal Cost per Base Facility and Usage Charges:

Base Facility Charge per ERC = \$1.46 per month

Usage Charge = \$0.11 per 1,000 gals.

EXHIBIT
"A"

Schedule 4

SANLANDO UTILITIES CORPORATION
Effluent Rate Study—Sewer Operations
Cost Allocation

Rate Base Allocation

Line No.	Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7		Col. 8	Col. 9
	Description	12/31/88 Balance	Adjustmts	PreForma Balance	Support Schedule	Allocation Symbol	Effluent Reuse		Disposal	Other
							Irrigation			
1	Utility Plant in Service—Sewer	\$ 13,540,084	\$ 1,850,052	\$ 15,390,146	C		\$ 0	\$ 1,921,281	\$ 13,468,865	
2	Construction Work in Progress	0	0	0	C		0	0	0	
3	Accumulated Depreciation	(6,801,807)	(41,268)	(6,843,075)	D		0	(66,237)	(6,577,538)	
4	Contributions in Aid of Constr.	(10,334,889)	0	(10,334,889)	E		0	0	(10,334,889)	
5	Accum. Amortization of CIAC	5,247,478	0	5,247,478	E		0	0	5,247,478	
6	Avg Unamortized Rate Case Exp.	0	20,000	20,000	See note	J	0	20,000	0	
7	Working Capital Allowance	288,738	8,719	278,457	F		0	12,208	267,251	
8	Rate Base	<u>\$ 2,120,514</u>	<u>\$ 1,837,803</u>	<u>\$ 3,958,317</u>			<u>\$ 0</u>	<u>\$ 1,987,250</u>	<u>\$ 2,071,067</u>	
9	Percentage						<u>0.00%</u>	<u>47.68%</u>	<u>52.32%</u>	

Note: Based on \$40,000 of Rate Case Expense, amortized over 4 years.

SANLANDO UTILITIES CORPORATION
Effluent Rate Study—Sewer Operations
Cost Allocation

Utility Plant in Service by Primary Account

Line No.	Col. 1 Account No. and Name	Col. 2 12/31/96 Balance	Col. 3 Adjustmt	Col. 4 Adjusted Balance	Col. 5 Alloc. Symbol	Col. 6 Effluent Reuse		Col. 7 Disposal	Col. 8 Other
						Irrigation	Disposal		
1	INTANGIBLE PLANT:								
2	351.1—Organization	\$ 0	\$ 0	0	f	\$ 0		\$ 0	0
3	352.1—Franchisee	0	0	0	f	0		0	0
4	389.1—Other Plant & Misc. Eqpmt	0	0	0	f	0		0	0
5	COLLECTION PLANT:								
6	353.2—Land & Land Rights	0	0	0	c	0		0	0
7	354.2—Structures & Improvements	0	0	0	c	0		0	0
8	360.2—Collection Sewers—Force	63,772	0	63,772	c	0		0	63,772
9	361.2—Collection Sewers—Gravity	6,642,677	0	6,642,677	c	0		0	6,642,677
10	362.2—Special Collection Struct.	0	0	0	c	0		0	0
11	363.2—Services to Customers	0	0	0	c	0		0	0
12	364.2—Flow Measuring Devices	0	0	0	c	0		0	0
13	365.2—Flow Measuring Install.	0	0	0	c	0		0	0
14	369.2—Other Plant & Misc. Eqpmt	0	0	0	c	0		0	0
15	SYSTEM PUMPING PLANT:								
16	353.3—Land & Land Rights	0	0	0	c	0		0	0
17	354.3—Structures & Improvements	0	0	0	c	0		0	0
18	370.3—Receiving Wells	0	0	0	c	0		0	0
19	371.3—Electric Pumping Eqpmt	1,211,330	0	1,211,330	c	0		0	1,211,330
20	389.3—Other Plant & Misc. Eqpmt	0	0	0	c	0		0	0
21	TREATMENT/DISPOSAL PLANT:								
22	353.4—Land & Land Rights	202,207	0	202,207	b	0	34,654		167,553
23	354.4—Structures & Improvements	248,782	0	248,782	c	0	0		248,782
24	360.4—Treatment/Disposal Equip.	3,918,098	0	3,918,098	c	0	0		3,918,098
25	381.4—Plant Sewers	19,560	0	19,560	c	0	0		19,560
26	362.4—Outfall Sewers	644,005	847,986	1,491,991	a	0	847,986		644,005
27	389.4—Other Plant & Misc. Equip	14,647	1,002,066	1,016,713	a	0	1,002,066		14,647
28	GENERAL PLANT:								
29	353.5—Land & Land Rights	0	0	0	f	0	0		0
30	354.5—Structures & Improvements	9,971	0	9,971	f	0	634		9,337
31	390.5—Office Furniture & Equip.	52,467	0	52,467	f	0	3,337		49,130
32	391.5—Transportation Equipment	150,611	0	150,611	f	0	9,580		141,031
33	392.5—Stores Equipment	317	0	317	f	0	20		297
34	393.5—Tools, Shop, Garage Equip.	65,620	0	65,620	f	0	4,174		61,446
35	394.5—Laboratory Equipment	57,539	0	57,539	f	0	3,660		53,879
36	395.5—Power Operated Equip	91,169	0	91,169	f	0	5,789		85,379
37	396.5—Communication Equipment	14,728	0	14,728	f	0	937		13,791
38	397.5—Miscellaneous Equipment	12,570	0	12,570	f	0	800		11,770
40	398.5—Other Tangible Plant	120,024	0	120,024	f	0	7,634		112,390
41	Total	\$ 13,540,094	\$ 1,850,052	\$ 15,390,146		\$ 0	\$ 1,921,281		\$ 13,468,865
42	Percentage					0.00%	12.48%		87.52%

SANLANDO UTILITIES CORPORATION
Effluent Rate Study—Sewer Operations
Cost Allocation

Accumulated Depreciation Allocation

Line No.	Col. 1 Account No. and Name	Col. 2 12/31/96 Balance	Col. 3 Adjustmt	Col. 4 Adjusted Balance	Col. 5 Alloc Symbol	Col. 6		Col. 7	Col. 8
						Effluent Reuse			
						Irrigation	Disposal		Other
1	INTANGIBLE PLANT:								
2	351.1—Organization	\$ 0	\$ 0	0	f	\$ 0	\$ 0	\$ 0	0
3	352.1—Franchisees	0	0	0	f	0	0	0	0
4	389.1—Other Plant & Misc. Eqpmt	0	0	0	f	0	0	0	0
5	COLLECTION PLANT:								
6	353.2—Land & Land Rights	0	0	0	c	0	0	0	0
7	354.2—Structures & Improvements	0	0	0	c	0	0	0	0
8	360.2—Collection Sewers—Force	13,441	0	13,441	c	0	0	0	13,441
9	361.2—Collection Sewers—Gravity	2,628,042	0	2,628,042	c	0	0	0	2,628,042
10	362.2—Special Collection Struct.	0	0	0	c	0	0	0	0
11	363.2—Services to Customers	0	0	0	c	0	0	0	0
12	364.2—Flow Measuring Devices	0	0	0	c	0	0	0	0
13	365.2—Flow Measuring Install.	0	0	0	c	0	0	0	0
14	389.2—Other Plant & Misc. Eqpmt	0	0	0	c	0	0	0	0
15	SYSTEM PUMPING PLANT:								
16	353.3—Land & Land Rights	0	0	0	c	0	0	0	0
17	354.3—Structures & Improvements	0	0	0	c	0	0	0	0
18	370.3—Receiving Wells	0	0	0	c	0	0	0	0
19	371.3—Electric Pumping Eqpmt	922,471	0	922,471	c	0	0	0	922,471
20	389.3—Other Plant & Misc. Eqpmt	0	0	0	c	0	0	0	0
21	TREATMENT/DISPOSAL PLANT:								
22	353.4—Land & Land Rights	0	0	0	b	0	0	0	0
23	354.4—Structures & Improvements	118,084	0	118,084	c	0	0	0	118,084
24	360.4—Treatment/Disposal Equip.	2,176,603	0	2,176,603	c	0	0	0	2,176,603
25	361.4—Plant Sewers	10,850	0	10,850	c	0	0	0	10,850
26	362.4—Outfall Sewers	339,546	14,133	353,679	a	0	14,133	339,546	339,546
27	389.4—Other Plant & Misc. Equip	11,212	27,835	39,047	a	0	27,835	11,212	11,212
28	GENERAL PLANT:								
29	353.5—Land & Land Rights	0	0	0	h	0	0	0	0
30	354.5—Structures & Improvements	4,733	0	4,733	h	0	301	4,432	4,432
31	360.5—Office Furniture & Equip.	34,281	0	34,281	h	0	2,180	32,101	32,101
32	361.5—Transportation Equipment	93,335	0	93,335	h	0	5,837	87,398	87,398
33	362.5—Stores Equipment	317	0	317	h	0	20	297	297
34	363.5—Tools, Shop, Garage Equip.	32,482	0	32,482	h	0	2,066	30,416	30,416
35	364.5—Laboratory Equipment	33,114	0	33,114	h	0	2,106	31,008	31,008
36	365.5—Power Operated Equip	59,790	0	59,790	h	0	3,803	55,987	55,987
37	366.5—Communication Equipment	4,213	0	4,213	h	0	268	3,945	3,945
38	367.5—Miscellaneous Equipment	2,777	0	2,777	h	0	177	2,600	2,600
39	368.5—Other Tangible Plant	116,516	0	116,516	h	0	7,411	109,105	109,105
40	Total	\$ 6,601,807	\$ 41,968	\$ 6,643,775		\$ 0	\$ 66,237	\$ 6,577,538	
41	Percentage					0.00%	1.00%	99.00%	

SANLANDO UTILITIES CORPORATION
Effluent Rate Study—Sewer Operations
Cost Allocation

CIAC and Accumulated Amortization of CIAC Allocation

Line No.	Col. 1 Account No. and Name	Col. 2 12/31/96 Balance	Col. 3 Allocation Symbol	Col. 4		Col. 5	Col. 6
				Effluent Reuse		Disposal	Other
				Irrigation			
1	Contributions In Aid of Construction:						
2	Plant Capacity Fees	\$ 3,918,098	c	\$ 0	\$ 0		3,918,098
3	Main Extensions	6,416,891	c	0	0		6,416,891
4	Contributed Lines	0	c	0	0		0
5	Other Contributed Property	0	c	0	0		0
6	Service Installation Fees	0	c	0	0		0
7	Total CIAC	\$ 10,334,989		\$ 0	\$ 0		10,334,989
8	Percentage			0.00%	0.00%		100.00%
8	Accum. Amortization of CIAC:						
9	Plant Capacity Fees	\$ 2,176,803	c	\$ 0	\$ 0		2,176,803
10	Main Extensions	3,070,875	c	0	0		3,070,875
11	Contributed Lines	0	c	0	0		0
12	Other Contributed Property	0	c	0	0		0
13	Service Installation Fees	0	c	0	0		0
14	Total Amortization of CIAC	\$ 5,247,478		\$ 0	\$ 0		5,247,478
15	Percentage			0.00%	0.00%		100.00%

SANLANO UTILITIES CORPORATION
Effluent Rate Study—Sewer Operations
Cost Allocation

Allocation of Operation and Maintenance Expenses								
Line No.	Col. 1 Acct. No. and Description	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6		Col. 8
		1998	Adjustmts	Adjusted Total	Alloco Symbol	Effluent Reuse Irrigation Disposal		Other
1	COLLECTION EXPENSE:							
2	701—Salaries & Wages	\$ 33,745	\$ 0	\$ 33,745	e	\$ 0	\$ 0	\$ 33,745
3	704—Employee Benefits	6,874	0	6,874	e	0	0	6,874
4	715—Purchased Power	0	0	0	e	0	0	0
5	720—Materials & Supplies	16,140	0	16,140	e	0	0	16,140
6	731—Contract Services, Engr.	9	0	9	e	0	0	9
7	742—Equipment Rental	315	0	315	e	0	0	315
8	750—Transportation Exp.	9,076	0	9,076	e	0	0	9,076
9	775—Misc. Expenses	46,979	0	46,979	e	0	0	46,979
10	PUMPING EXPENSE:							
11	701—Salaries & Wages	74,718	0	74,718	e	0	0	74,718
12	704—Employee Benefits	15,221	0	15,221	e	0	0	15,221
13	715—Purchased Power	59,756	0	59,756	e	0	0	59,756
14	718—Chemicals	3,843	0	3,843	e	0	0	3,843
15	720—Materials & Supplies	8,640	0	8,640	e	0	0	8,640
16	731—Contract Services, Engr.	3	0	3	e	0	0	3
17	750—Transportation Exp.	11,791	0	11,791	e	0	0	11,791
18	775—Misc. Expenses	32,947	0	32,947	e	0	0	32,947
19	TREATMENT PLANT EXPENSE:							
20	701—Salaries & Wages	295,575	23,015	318,590	d	0	23,015	295,575
21	704—Employee Benefits	60,214	0	60,214	l	0	4,350	55,864
22	710—Purchased Treatment	149,289	0	149,289	e	0	0	149,289
23	711—Sludge Removal	109,796	0	109,796	e	0	0	109,796
24	715—Purchased Power	163,385	30,934	194,299	d	0	30,934	163,385
25	718—Chemicals	116,127	3,413	119,540	d	0	3,413	116,127
26	720—Materials & Supplies	24,359	3,545	27,904	d	0	3,545	24,359
27	731—Contract Services, Engr.	58,969	977	59,946	d	0	977	58,969
28	735—Contract Services, Other	30,440	3,989	34,429	d	0	3,989	30,440
29	742—Equipment Rental	0	48	48	d	0	48	0
30	750—Transportation Exp.	6,040	1,214	7,254	d	0	1,214	6,040
31	775—Misc. Expenses	27,256	621	27,877	d	0	621	27,256
32	CUSTOMER BILLING:							
33	701—Salaries & Wages	77,334	0	77,334	g	0	0	77,334
34	704—Employee Benefits	15,754	0	15,754	g	0	0	15,754
35	720—Materials & Supplies	0	0	0	g	0	0	0
36	742—Equipment Rental	0	0	0	g	0	0	0
37	770—Bad Debt Expense	2,151	0	2,151	e	0	0	2,151
38	775—Misc. Expenses	30,790	0	30,790	g	0	0	30,790
39	GENERAL & ADMINISTRATIVE:							
40	701—Salaries & Wages	96,553	0	96,553	f	0	2,006	94,547
41	703—Officers Compensation	136,364	0	136,364	f	0	3,231	136,133
42	704—Employee Benefits	17,632	0	17,632	f	0	408	17,223
43	715—Purchased Power	7,316	0	7,316	f	0	170	7,146
44	720—Materials & Supplies	0	0	0	f	0	0	0
45	732—Contract Services, Acctg.	6,332	0	6,332	f	0	147	6,185
46	733—Contract Services, Legal	41,485	0	41,485	f	0	962	40,523
47	734—Contract Serv, Mgmt Fee	109,799	0	109,799	f	0	2,545	107,254
48	735—Contract Services, Other	7,885	0	7,885	f	0	178	7,707
49	741—Property Rental	67,458	0	67,458	f	0	2,027	65,431
50	742—Equipment Rental	49	0	49	f	0	1	48
51	750—Transportation Exp.	3,059	0	3,059	f	0	71	2,988
52	756—Insurance, Vehicle	15,328	0	15,328	f	0	355	14,973
53	757—Insurance, Gen. Liability	41,896	0	41,896	f	0	971	40,925
54	758—Workman's Comp. Ins.	29,436	0	29,436	f	0	682	28,754
55	759—Insurance, Other	0	0	0	f	0	0	0
56	760—Advertising	0	0	0	f	0	0	0
57	766—Rate Case Exp.	0	10,000	10,000	j	0	10,000	0
58	767—Reg. Commission Exp.	0	0	0	f	0	0	0
59	775—Misc. Expenses	77,022	0	77,022	f	0	1,785	75,237
62	Total	\$ 2,157,902	\$ 77,764	\$ 2,235,666		\$ 0	\$ 97,844	\$ 2,138,012
63	Percentage					0.00%	4.37%	95.63%

SANLANDO UTILITIES CORPORATION
Effluent Rate Study—Sewer Operations
Cost Allocation

Depreciation Expense Allocation

Line No.	Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6
	Description	1998	Allocation Symbol	Effluent Reuse		Other
				Irrigation	Disposal	
1	Intangible Plant	\$ 0	f	\$ 0	\$ 0	\$ 0
2	Collecting System	149,740	c	0	0	149,740
3	Pumping System	87,297	c	0	0	87,297
4	Treatment and Disposal	332,225	e	0	90,781	241,444
5	General Plant:					
6	Other Than Transportation	39,715	f	0	3,282	36,433
7	Transportation Equipment	25,102	f	0	2,074	23,028
8	Total Depreciation—UPIS	614,079		0	96,137	517,942
9	Amortization of CIAC	(360,270)	Sch. E	0	0	(360,270)
10	Total Annual Depreciation	\$ <u>253,809</u>		\$ <u>0</u>	\$ <u>96,137</u>	\$ <u>157,872</u>
11	Percentage			<u>0.00%</u>	<u>37.88%</u>	<u>62.12%</u>

SANLANDO UTILITIES CORPORATION
Effluent Rate Study—Sewer Operations
Cost Allocation

Depreciation Expense by Primary Account

Line No.	Col. 1 Account No. and Name	Col. 2 UPIS Balance Adj 12/31/06	Col. 3 Deprec. Rate	Col. 4 Annual Expense
1	INTANGIBLE PLANT:			
2	351.1—Organization	\$ 0	2.5000%	\$ 0
3	352.1—Franchises	0	2.5000%	0
4	389.1—Other Plant & Misc. Equipment	0	5.5556%	0
5	COLLECTION PLANT:			
6	353.2—Land & Land Rights	0	n/a	0
7	354.2—Structures & Improvements	0	3.1250%	0
8	360.2—Collection Sewers—Force	63,772	3.3333%	2,126
9	361.2—Collection Sewers—Gravity	6,642,677	2.2222%	147,614
10	362.2—Special Collection Struct.	0	2.5000%	0
11	363.2—Services to Customers	0	2.6316%	0
12	364.2—Flow Measuring Devices	0	20.0000%	0
13	365.2—Flow Measuring Install.	0	2.6316%	0
14	389.2—Other Plant & Misc. Equipment	0	5.5556%	0
15	SYSTEM PUMPING PLANT:			
16	353.3—Land & Land Rights	0	n/a	0
17	354.3—Structures & Improvements	0	3.1250%	0
18	370.3—Receiving Wells	0	3.1250%	0
19	371.3—Electric Pumping Equipment	1,211,330	5.5556%	67,297
20	389.3—Other Plant & Misc. Equipment	0	5.5556%	0
21	TREATMENT/DISPOSAL PLANT:			
22	353.4—Land & Land Rights	202,207	n/a	0
23	354.4—Structures & Improvements	248,782	3.1250%	7,774
24	380.4—Treatment/Disposal Equip.	3,918,098	5.5556%	217,674
25	381.4—Plant Sewers	19,560	2.8571%	559
26	382.4—Outfall Sewers	1,491,991	3.3333%	49,733
27	389.4—Other Plant & Misc. Equipment	1,016,713	5.5556%	56,485
28	GENERAL PLANT – SEWER:			
29	353.5—Land & Land Rights	0	n/a	0
30	354.5—Structures & Improvements	9,971	2.5000%	249
31	390.5—Office Furniture & Equip.	52,467	6.6667%	3,498
32	391.5—Transportation Equipment	150,611	16.6667%	25,102
33	392.5—Stores Equipment	317	5.5556%	18
34	393.5—Tools, Shop, Garage Equip.	65,620	6.2500%	4,101
35	394.5—Laboratory Equipment	57,539	6.6667%	3,836
36	395.5—Power Operated Equipment	91,169	6.2500%	5,698
37	396.5—Communication Equipment	14,728	10.0000%	1,473
38	397.5—Miscellaneous Equipment	12,570	6.6667%	836
39	398.5—Other Tangible Plant	120,024	16.6667%	20,004
40	Subtotal	<u>\$ 15,390,146</u>		<u>\$ 614,079</u>
41	CIAC Amortization:			
42	Plant Capacity Fees	\$ 3,918,098	5.5556%	\$ 217,674
43	Main Extensions	6,416,891	2.2222%	142,596
44	Contributed Lines	0	3.3333%	0
45	Other Contributed Property	0	3.9900%	0
46	Service Installation Fees	0	2.6316%	0
47	Subtotal	<u>\$ 10,334,989</u>		<u>\$ 360,270</u>
48	Net, Depreciation Expense			<u>\$ 253,809</u>

SANLANDO UTILITIES CORPORATION
Effluent Rate Study--Sewer Operations
Cost Allocation

Allocation of Taxes, Other Than Income Tax

Line No.	Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6		Col. 7	Col. 8
	Description	1996	Adjustmt	ProForma Amount	Allocation Symbol	Effluent Reuse		Disposal	Other
						Irrigation			
1	Payroll Taxes	\$ 46,480	\$ 0	\$ 46,480	k	\$ 0		\$ 1,968	\$ 44,512
2	Property Taxes	32,365	0	32,365	Sch. C	0		4,039	28,326
3	Other Tax & Licenses	20,601	0	20,601	Sch. B	0		9,823	10,778
4	Revenue Taxes	<u>128,485</u>	<u>14,066 (1)</u>	<u>142,551</u>	Sch. A	<u>0</u>		<u>19,680</u>	<u>122,871</u>
5	Total Taxes, Other	\$ <u>227,931</u>	\$ <u>14,066</u>	\$ <u>241,997</u>		\$ <u>0</u>		\$ <u>35,510</u>	\$ <u>206,487</u>
6	Percentage					<u>0.00%</u>		<u>14.67%</u>	<u>85.33%</u>

Note : (1) Revenue Tax Calculation :

Pro Forma Revenue Rqt	3,167,791
Rev Tax Rate	4.50%
Pro Forma Revenue Tax	<u>142,551</u>
1996 Revenue Tax	<u>(128,485)</u>
Adj	<u>14,066</u>

SANLANDO UTILITIES CORPORATION
Effluent Rate Study—Sewer Operations
Cost Allocation

		<u>Effluent Reuse Allocation Symbols</u>				
Line No.	Allocation Symbols	Description			Allocation Factor	
1	a	Items bearing this symbol are allocated based on hydraulic share of Effluent Reuse facility with a weighing adjustment for cost benefits to general customer base.				
2						
3		ADF	Hydraulic	Benefit		
4		(kgals)	Share	Weighing		
5		0	0.00%	0%	0.00%	
6		2,200	100.00%	100%	100.00%	
7						
8	b	Treatment & Disposal Land is allocated based on proportionate share of T & D plant costs (excluding outfall mains to golf courses).				
9						
10		T & D Plant Cost		5,847,158		
11		Effluent Reuse, Irrigation Plant		0	0.00%	
12		Effluent Reuse, Disposal Plant		1,002,066	17.14%	
13						
14	c	These items are not necessary for providing effluent service and do not impact effluent costs.			0.00%	
15						
16						
17	d	Items bearing this symbol are allocated based on the relative effluent reuse flow to total effluent reuse system capacity.				
18						
19		Effluent Reuse Capacity – ADF (kgals)		2,200.0		
20		Irrigation Demand – ADF (kgals)		0.0	0.00%	
21		Reuse Disposal Capacity – ADF (kgals)		2,200.0	100.00%	
22						
23	e	Items bearing this symbol are allocated based on the relationship of effluent reuse T & D facilities to total treatment and disposal plant.				
24						
25		Total T & D Plant		6,897,951		
26		Effluent Reuse Facilities		0	0.00%	
27		Effluent Disposal Facilities		1,894,706	27.33%	
28						
29	f	Items bearing this symbol are allocated based on a 50% weighing of all other (effluent reuse disposal) items and do not impact effluent reuse irrigation costs.				
30						
31						
32	g	Items bearing this symbol are allocated to effluent reuse based on judgement.			0.00%	
33						
34	h	Accumulated depreciation for general plant items are allocated based on the UPIS (general plant) allocation.				
35						
36						
37	i	Treatment & Disposal benefits and comp insurance are allocated on the basis T & D labor costs.				
38						
39						
40	j	Rate case related costs are allocated to effluent reuse disposal costs.				
41						
42	k	Payroll taxes are allocated on the basis of the allocation of total labor costs.				
43		Total Labor		590,940		
44		Effluent Reuse Labor Costs		0	0.00%	
45		Effluent Disposal Labor Costs		25,021	4.23%	
46						
47	l	Income taxes are calculated as follows and allocated on the basis of the Rate Base.				
48		Rate of Return	10.25%	Less	10.25% Wgt Cost of Debt	=
49		Wgt Cost Equity	0.00%	x	3,958,317	Rate Base
50		Debt Coverage Rq	50,667	x	160.83%	Gross-Up
51		Pre-tax Coverage	81,236	x	37.630%	Tax Rate
52				<u>30,569</u>	FIT	=

SANLANDO UTILITIES CORPORATION
Effluent Rate Study—Sewer Operations
Cost Allocation

Summary of Revenue Requirement Allocations

Line No.	Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7		Col. 8	Col. 9
	Description	Test Year 1998	Adjustmts	ProForma Test Year	Support Sched	Aloc Symbol	Effluent Reuse		Disposal	Other
							Irrigation			
1	O & M Expense	\$ 2,157,902	\$ 77,754	\$ 2,235,656	F		\$ 39,824	\$ 51,281	\$ 2,144,551	
2	Depreciation, Net	160,436	93,373	253,809	G		11,369	84,108	158,342	
3	Taxes, Other	227,931	14,066	241,997	H		6,505	28,611	206,881	
4	Income Taxes	56,645	(28,076)	30,569		I	1,859	12,898	16,012	
5	Return Requirement	281,898	123,863	405,761	B		24,870	168,553	212,537	
6	Revenue Requirement	\$ 2,884,812	\$ 282,980	\$ 3,167,792			\$ 84,217	\$ 345,251	\$ 2,738,324	
7	Percentage						2.00%	10.90%	86.44%	

IRRIGATION CUSTOMERS

Effluent Reuse Cost per 1,000 Gallons:

$$\frac{\$84,217}{401,865 \text{ thousand gals.}} = \underline{\underline{\$0.21}} \text{ per 1,000 gals.}$$

OR

Effluent Reuse Cost per Base Facility and Usage Charges:

$$\text{Base Facility Charge per ERC} = \underline{\underline{\$1,120.00}} \text{ per month}$$

$$\text{Usage Charge} = \underline{\underline{\$0.11}} \text{ per 1,000 gals.}$$

EFFLUENT DISPOSAL CUSTOMERS

Effluent Disposal Cost per 1,000 Gallons:

$$\frac{\$198,763}{1,039,367 \text{ thousand gals.}} = \underline{\underline{\$0.19}} \text{ per 1,000 gals.}$$

OR

Effluent Disposal Cost per Base Facility and Usage Charges:

$$\text{Base Facility Charge per ERC} = \underline{\underline{\$1.00}} \text{ per month}$$

$$\text{Usage Charge} = \underline{\underline{\$0.07}} \text{ per 1,000 gals.}$$

EXHIBIT
"A"

Schedule 5

SANLANDO UTILITIES CORPORATION
Effluent Rate Study—Sewer Operations
Cost Allocation

Rate Base Allocation

Line No.	Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7		Col. 8	Col. 9
	Description	12/31/88 Balance	Adjustmts	ProForma Balance	Support Schedule	Allocation Symbol	Effluent Reuse		Disposal	Other
							Irrigation			
1	Utility Plant in Service—Sewer	\$ 13,640,094	\$ 1,850,082	\$ 15,390,146	C		\$ 235,824	\$ 1,630,882	\$ 13,473,440	
2	Construction Work in Progress	0	0	0	C		0	0	0	
3	Accumulated Depreciation	(6,601,807)	(41,968)	(6,643,775)	D		(5,251)	(57,962)	(6,580,572)	
4	Contributions in Aid of Constr.	(10,334,969)	0	(10,334,969)	E		0	0	(10,334,969)	
5	Accum. Amortization of CIAC	5,247,478	0	5,247,478	E		0	0	5,247,478	
6	Avg Unamortized Rate Case Exp.	0	20,000	20,000	See note	J	5,000	15,000	0	
7	Working Capital Allowance	289,738	9,719	279,457	F		4,978	6,410	289,069	
8	Rate Base	\$ 2,120,514	\$ 1,837,803	\$ 3,958,317			\$ 240,551	\$ 1,644,340	\$ 2,073,426	
9	Percentage						6.06%	41.54%	52.38%	

Note: Based on \$40,000 of Rate Case Expense, amortized over 4 years.

SANLANDO UTILITIES CORPORATION
Effluent Rate Study—Sewer Operations
Cost Allocation

Utility Plant in Service by Primary Account

Line No.	Col. 1 Account No. and Name	Col. 2 12/31/95 Balance	Col. 3 Adjustmt	Col. 4 Adjusted Balance	Col. 5 Alloc. Symbol	Col. 6		Col. 7 Disposal	Col. 8 Other
						Effluent Reuse Irrigation			
1	INTANGIBLE PLANT:								
2	351.1—Organization	\$ 0	\$ 0	0	f	\$ 0	0	\$ 0	0
3	352.1—Franchisees	0	0	0	f	0	0	0	0
4	369.1—Other Plant & Misc. Eqmpt	0	0	0	f	0	0	0	0
5	COLLECTION PLANT:								
6	353.2—Land & Land Rights	0	0	0	c	0	0	0	0
7	354.2—Structures & Improvements	0	0	0	c	0	0	0	0
8	360.2—Collection Sewers—Force	63,772	0	63,772	c	0	0	0	63,772
9	361.2—Collection Sewers—Gravity	6,642,677	0	6,642,677	c	0	0	0	6,642,677
10	362.2—Special Collection Struct.	0	0	0	c	0	0	0	0
11	363.2—Services to Customers	0	0	0	c	0	0	0	0
12	364.2—Flow Measuring Devices	0	0	0	c	0	0	0	0
13	365.2—Flow Measuring Install.	0	0	0	c	0	0	0	0
14	369.2—Other Plant & Misc. Eqmpt	0	0	0	c	0	0	0	0
15	SYSTEM PUMPING PLANT:								
16	353.3—Land & Land Rights	0	0	0	c	0	0	0	0
17	354.3—Structures & Improvements	0	0	0	c	0	0	0	0
18	370.3—Receiving Wells	0	0	0	c	0	0	0	0
19	371.3—Electric Pumping Eqmpt	1,211,330	0	1,211,330	c	0	0	0	1,211,330
20	369.3—Other Plant & Misc. Eqmpt	0	0	0	c	0	0	0	0
21	TREATMENT/DISPOSAL PLANT:								
22	353.4—Land & Land Rights	202,207	0	202,207	b	4,336	30,318	0	167,553
23	354.4—Structures & Improvements	248,782	0	248,782	c	0	0	0	248,782
24	360.4—Treatment/Disposal Equip.	3,918,098	0	3,918,098	c	0	0	0	3,918,098
25	361.4—Plant Sewers	19,560	0	19,560	c	0	0	0	19,560
26	362.4—Outfall Sewers	644,005	847,986	1,491,991	a	106,104	741,882	0	644,005
27	369.4—Other Plant & Misc. Equip	14,647	1,002,066	1,016,713	a	125,384	676,683	0	14,647
28	GENERAL PLANT:								
29	353.5—Land & Land Rights	0	0	0	f	0	0	0	0
30	354.5—Structures & Improvements	9,971	0	9,971	f	0	555	0	9,416
31	360.5—Office Furniture & Equip.	52,467	0	52,467	f	0	2,920	0	49,547
32	361.5—Transportation Equipment	150,611	0	150,611	f	0	8,361	0	142,230
33	362.5—Stores Equipment	317	0	317	f	0	18	0	299
34	363.5—Tools, Shop, Garage Equip.	65,620	0	65,620	f	0	3,662	0	61,958
35	364.5—Laboratory Equipment	57,539	0	57,539	f	0	3,202	0	54,337
36	365.5—Power Operated Equip	91,169	0	91,169	f	0	5,073	0	86,096
37	366.5—Communication Equipment	14,728	0	14,728	f	0	620	0	13,908
38	367.5—Miscellaneous Equipment	12,570	0	12,570	f	0	700	0	11,870
40	368.5—Other Tangible Plant	120,024	0	120,024	f	0	6,679	0	113,345
41	Total	\$ 13,540,094	\$ 1,850,052	\$ 15,390,146		\$ 236,624	\$ 1,680,692		\$ 13,473,440
42	Percentage					1.53%	10.92%		87.55%

SANLANDO UTILITIES CORPORATION
Effluent Rate Study—Sewer Operations
Cost Allocation

Accumulated Depreciation Allocation

Line No.	Col. 1 Account No. and Name	Col. 2 12/31/96 Balance	Col. 3 Adjustmt	Col. 4 Adjusted Balance	Col. 5 Alloc Symbol	Col. 6 Effluent Reuse		Col. 7 Disposal	Col. 8 Other
						Irrigation	Disposal		
1	INTANGIBLE PLANT:								
2	351.1—Organization	\$ 0	\$ 0	0	f	\$ 0		\$ 0	0
3	352.1—Franchisees	0	0	0	f	0		0	0
4	389.1—Other Plant & Misc. Eqpmt	0	0	0	f	0		0	0
5	COLLECTION PLANT:								
6	353.2—Land & Land Rights	0	0	0	c	0		0	0
7	354.2—Structures & Improvements	0	0	0	c	0		0	0
8	360.2—Collection Sewers—Force	13,441	0	13,441	c	0		0	13,441
9	361.2—Collection Sewers—Gravity	2,628,042	0	2,628,042	c	0		0	2,628,042
10	362.2—Special Collection Struct.	0	0	0	c	0		0	0
11	363.2—Services to Customers	0	0	0	c	0		0	0
12	364.2—Flow Measuring Devices	0	0	0	e	0		0	0
13	365.2—Flow Measuring Install.	0	0	0	c	0		0	0
14	389.2—Other Plant & Misc. Eqpmt	0	0	0	c	0		0	0
15	SYSTEM PUMPING PLANT:								
16	353.3—Land & Land Rights	0	0	0	c	0		0	0
17	354.3—Structures & Improvements	0	0	0	c	0		0	0
18	370.3—Receiving Wells	0	0	0	c	0		0	0
19	371.3—Electric Pumping Eqpmt	922,471	0	922,471	c	0		0	922,471
20	389.3—Other Plant & Misc. Eqpmt	0	0	0	c	0		0	0
21	TREATMENT/DISPOSAL PLANT:								
22	353.4—Land & Land Rights	0	0	0	b	0		0	0
23	354.4—Structures & Improvements	118,084	0	118,084	c	0		0	118,084
24	380.4—Treatment/Disposal Equip.	2,176,603	0	2,176,603	c	0		0	2,176,603
25	381.4—Plant Sewers	10,850	0	10,850	c	0		0	10,850
26	382.4—Outfall Sewers	339,546	14,133	353,679	a	1,768		12,365	339,546
27	389.4—Other Plant & Misc. Equip	11,212	27,835	39,047	a	3,483		24,352	11,212
28	GENERAL PLANT:								
29	353.5—Land & Land Rights	0	0	0	h	0		0	0
30	354.5—Structures & Improvements	4,733	0	4,733	h	0		263	4,470
31	390.5—Office Furniture & Equip.	34,281	0	34,281	h	0		1,908	32,373
32	391.5—Transportation Equipment	93,335	0	93,335	h	0		5,194	88,141
33	392.5—Stores Equipment	317	0	317	h	0		18	299
34	393.5—Tools, Shop, Garage Equip.	32,482	0	32,482	h	0		1,808	30,674
35	394.5—Laboratory Equipment	33,114	0	33,114	h	0		1,843	31,271
36	395.5—Power Operated Equip	59,790	0	59,790	h	0		3,327	56,463
37	396.5—Communication Equipment	4,213	0	4,213	h	0		235	3,978
38	397.5—Miscellaneous Equipment	2,777	0	2,777	h	0		155	2,622
39	398.5—Other Tangible Plant	116,516	0	116,516	h	0		6,484	110,032
40	Total	\$ 6,601,907	\$ 41,968	\$ 6,643,775		\$ 5,251		\$ 57,952	\$ 6,580,572
41	Percentage					0.08%		0.87%	99.05%

SANLANDO UTILITIES CORPORATION
Effluent Rate Study—Sewer Operations
Cost Allocation

CIAC and Accumulated Amortization of CIAC Allocation

Line No.	Col. 1 Account No. and Name	Col. 2 12/31/98 Balance	Col. 3 Allocation Symbol	Col. 4		Col. 5	Col. 6
				Effluent Reuse		Disposal	Other
				Irrigation			
1	Contributions in Aid of Construction:						
2	Plant Capacity Fees	\$ 3,918,098	c	\$ 0	\$ 0		3,918,098
3	Main Extensions	6,418,891	c	0	0		6,418,891
4	Contributed Lines	0	c	0	0		0
5	Other Contributed Property	0	c	0	0		0
6	Service Installation Fees	0	c	0	0		0
7	Total CIAC	\$ 10,334,989		\$ 0	\$ 0		10,334,989
8	Percentage			0.00%	0.00%		100.00%
8	Accum. Amortization of CIAC:						
9	Plant Capacity Fees	\$ 2,176,603	c	\$ 0	\$ 0		2,176,603
10	Main Extensions	3,070,875	c	0	0		3,070,875
11	Contributed Lines	0	c	0	0		0
12	Other Contributed Property	0	c	0	0		0
13	Service Installation Fees	0	c	0	0		0
14	Total Amortization of CIAC	\$ 5,247,478		\$ 0	\$ 0		5,247,478
15	Percentage			0.00%	0.00%		100.00%

SANLANDO UTILITIES CORPORATION
Effluent Rate Study - Sewer Operations
Cost Allocation

Allocation of Operation and Maintenance Expenses

Line No.	Col. 1 Acct. No. and Description	Col. 2 1986	Col. 3 Adjustmts	Col. 4 Adjusted Total	Col. 5 Alloc Symbol	Col. 6 Effluent Reuse		Col. 7 Disposal	Col. 8 Other
						Irrigation	Disposal		
1 COLLECTION EXPENSE:									
2	701-Salaries & Wages	\$ 33,745	\$ 0	\$ 33,745	c	\$ 0	\$ 0	\$ 0	\$ 33,745
3	704-Employee Benefits	8,874	0	8,874	e	0	0	0	8,874
4	715-Purchased Power	0	0	0	e	0	0	0	0
5	720-Materials & Supplies	16,140	0	16,140	e	0	0	0	16,140
6	731-Contract Services, Engr.	9	0	9	e	0	0	0	9
7	742-Equipment Rental	315	0	315	e	0	0	0	315
8	750-Transportation Exp.	9,076	0	9,076	e	0	0	0	9,076
9	775-Misc. Expenses	48,979	0	48,979	e	0	0	0	48,979
10 PUMPING EXPENSE:									
11	701-Salaries & Wages	74,718	0	74,718	e	0	0	0	74,718
12	704-Employee Benefits	15,221	0	15,221	e	0	0	0	15,221
13	715-Purchased Power	59,756	0	59,756	e	0	0	0	59,756
14	716-Chemicals	3,843	0	3,843	e	0	0	0	3,843
15	720-Materials & Supplies	8,640	0	8,640	e	0	0	0	8,640
16	731-Contract Services, Engr.	3	0	3	e	0	0	0	3
17	750-Transportation Exp.	11,791	0	11,791	e	0	0	0	11,791
18	775-Misc. Expenses	32,947	0	32,947	e	0	0	0	32,947
19 TREATMENT PLANT EXPENSE:									
20	701-Salaries & Wages	295,575	23,015	318,590	d	11,518	11,497	0	295,575
21	704-Employee Benefits	60,214	0	60,214	i	2,177	2,173	0	55,864
22	710-Purchased Treatment	149,299	0	149,299	e	0	0	0	149,299
23	711-Sludge Removal	109,796	0	109,796	e	0	0	0	109,796
24	715-Purchased Power	163,365	30,934	194,299	d	15,461	15,463	0	163,365
25	716-Chemicals	116,127	3,413	119,540	d	1,708	1,705	0	116,127
26	720-Materials & Supplies	24,359	3,545	27,904	d	1,774	1,771	0	24,359
27	731-Contract Services, Engr.	58,969	877	59,846	d	489	486	0	58,969
28	735-Contract Services, Other	30,440	3,969	34,409	d	1,996	1,993	0	30,440
29	742-Equipment Rental	0	46	46	d	23	23	0	0
30	750-Transportation Exp.	6,040	1,214	7,254	d	606	606	0	6,040
31	775-Misc. Expenses	27,256	621	27,877	d	311	310	0	27,256
32 CUSTOMER BILLING:									
33	701-Salaries & Wages	77,334	0	77,334	g	773	0	0	76,561
34	704-Employee Benefits	15,754	0	15,754	g	166	0	0	15,588
35	720-Materials & Supplies	0	0	0	g	0	0	0	0
36	742-Equipment Rental	0	0	0	g	0	0	0	0
37	770-Bad Debt Expense	2,181	0	2,181	e	0	0	0	2,181
38	775-Misc. Expenses	30,760	0	30,760	g	308	0	0	30,452
39 GENERAL & ADMINISTRATIVE:									
40	701-Salaries & Wages	86,553	0	86,553	f	0	1,002	0	85,551
41	703-Officers Compensation	139,394	0	139,394	f	0	1,614	0	137,780
42	704-Employee Benefits	17,632	0	17,632	f	0	204	0	17,428
43	715-Purchased Power	7,316	0	7,316	f	0	85	0	7,231
44	720-Materials & Supplies	0	0	0	f	0	0	0	0
45	732-Contract Services, Acctg.	6,332	0	6,332	f	0	73	0	6,259
46	733-Contract Services, Legal	41,485	0	41,485	f	0	480	0	41,005
47	734-Contract Serv, Mgmt Fee	108,799	0	108,799	f	0	1,271	0	108,528
48	735-Contract Services, Other	7,885	0	7,885	f	0	89	0	7,896
49	741-Property Rental	67,458	0	67,458	f	0	1,013	0	66,445
50	742-Equipment Rental	49	0	49	f	0	1	0	48
51	750-Transportation Exp.	3,059	0	3,059	f	0	35	0	3,024
52	756-Insurance, Vehicle	15,328	0	15,328	f	0	177	0	15,151
53	757-Insurance, Gen. Liability	41,896	0	41,896	f	0	485	0	41,411
54	758-Workman's Comp. Ins.	29,436	0	29,436	f	0	341	0	29,095
55	759-Insurance, Other	0	0	0	f	0	0	0	0
56	760-Advertising	0	0	0	f	0	0	0	0
57	766-Rate Case Exp.	0	10,000	10,000	j	2,500	7,500	0	0
58	767-Reg. Commission Exp.	0	0	0	f	0	0	0	0
59	775-Misc. Expenses	77,022	0	77,022	f	0	882	0	76,140
62	Total	\$ 2,157,802	\$ 77,754	\$ 2,235,556		\$ 39,824	\$ 61,291	\$ 2,144,551	
63	Percentage					1.78%	2.29%	95.93%	

SANLANDO UTILITIES CORPORATION
Effluent Rate Study--Sewer Operations
Cost Allocation

Depreciation Expense Allocation

Line No.	Col. 1	Col. 2	Col. 3	Col. 4		Col. 5	Col. 6
	Description	1996	Allocation Symbol	Effluent Fee Use		Disposal	Other
				Irrigation			
1	Intangible Plant	\$ 0	f	\$ 0	\$ 0	\$ 0	\$ 0
2	Collecting System	149,740	c	0	0	0	149,740
3	Pumping System	67,297	c	0	0	0	67,297
4	Treatment and Disposal	332,225	e	11,359	79,422	241,444	
5	General Plant:						
6	Other Than Transportation	39,715	f	0	2,871	36,844	
7	Transportation Equipment	<u>25,102</u>	f	<u>0</u>	<u>1,815</u>	<u>23,287</u>	
8	Total Depreciation--UPIS	614,079		11,359	84,108	518,612	
9	Amortization of CIAC	<u>(360,270)</u>	Sch. E	<u>0</u>	<u>0</u>	<u>(360,270)</u>	
10	Total Annual Depreciation	\$ <u>253,809</u>		\$ <u>11,359</u>	\$ <u>84,108</u>	\$ <u>158,342</u>	
11	Percentage			<u>4.48%</u>	<u>33.14%</u>	<u>62.39%</u>	

SANLANDO UTILITIES CORPORATION
Effluent Rate Study—Sewer Operations
Cost Allocation

Depreciation Expense by Primary Account

Line No.	Col. 1 Account No. and Name	Col. 2 UPIS Balance Adj 12/31/96	Col. 3 Deprec. Rate	Col. 4 Annual Expense
1	INTANGIBLE PLANT:			
2	351.1—Organization	\$ 0	2.5000%	\$ 0
3	352.1—Franchise	0	2.5000%	0
4	389.1—Other Plant & Misc. Equipment	0	5.5556%	0
5	COLLECTION PLANT:			
6	353.2—Land & Land Rights	0	n/a	0
7	354.2—Structures & Improvements	0	3.1250%	0
8	380.2—Collection Sewers—Force	63,772	3.3333%	2,126
9	381.2—Collection Sewers—Gravity	6,842,677	2.2222%	147,614
10	382.2—Special Collection Struct.	0	2.5000%	0
11	383.2—Services to Customers	0	2.6316%	0
12	384.2—Flow Measuring Devices	0	20.0000%	0
13	385.2—Flow Measuring Install.	0	2.6316%	0
14	389.2—Other Plant & Misc. Equipment	0	5.5556%	0
15	SYSTEM PUMPING PLANT:			
16	353.3—Land & Land Rights	0	n/a	0
17	354.3—Structures & Improvements	0	3.1250%	0
18	370.3—Receiving Wells	0	3.1250%	0
19	371.3—Electric Pumping Equipment	1,211,330	5.5556%	67,297
20	389.3—Other Plant & Misc. Equipment	0	5.5556%	0
21	TREATMENT/DISPOSAL PLANT:			
22	353.4—Land & Land Rights	202,207	n/a	0
23	354.4—Structures & Improvements	248,782	3.1250%	7,774
24	380.4—Treatment/Disposal Equip.	3,918,098	5.5556%	217,674
25	381.4—Plant Sewers	19,560	2.6571%	559
26	382.4—Outfall Sewers	1,491,991	3.3333%	49,733
27	389.4—Other Plant & Misc. Equipment	1,016,713	5.5556%	56,485
28	GENERAL PLANT – SEWER:			
29	353.5—Land & Land Rights	0	n/a	0
30	354.5—Structures & Improvements	9,971	2.5000%	249
31	380.5—Office Furniture & Equip.	52,467	6.6667%	3,498
32	381.5—Transportation Equipment	150,611	16.6667%	25,102
33	382.5—Stores Equipment	317	5.5556%	18
34	383.5—Tools, Shop, Garage Equip.	65,620	6.2500%	4,101
35	384.5—Laboratory Equipment	57,539	6.6667%	3,836
36	385.5—Power Operated Equipment	91,169	6.2500%	5,698
37	386.5—Communication Equipment	14,728	10.0000%	1,473
38	387.5—Miscellaneous Equipment	12,570	6.6667%	838
39	388.5—Other Tangible Plant	120,024	16.6667%	20,004
40	Subtotal	\$ 15,390,148		\$ 614,079
41	CIAC Amortization:			
42	Plant Capacity Fees	\$ 3,918,098	5.5556%	\$ 217,674
43	Main Extensions	6,418,891	2.2222%	142,596
44	Contributed Lines	0	3.3333%	0
45	Other Contributed Property	0	3.9900%	0
46	Service Installation Fees	0	2.6316%	0
47	Subtotal	\$ 10,334,989		\$ 360,270
48	Net Depreciation Expense			\$ 253,809

SANLANDO UTILITIES CORPORATION
Effluent Rate Study—Sewer Operations
Cost Allocation

Allocation of Taxes, Other Than Income Tax

Line No.	Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6		Col. 7	Col. 8
	Description	1996	Adjustmt	ProForma Amount	Allocation Symbol	Effluent Reuse		Disposal	Other
						Irrigation			
1	Payroll Taxes	\$ 46,480	\$ 0	\$ 46,480	k	\$ 967		\$ 983	44,530
2	Property Taxes	32,365	0	32,365	Sch. C	495		3,534	28,336
3	Other Tax & Licenses	20,801	0	20,801	Sch. B	1,253		8,558	10,790
4	Revenue Taxes	<u>128,485</u>	<u>14,066 (1)</u>	<u>142,551</u>	Sch. A	<u>3,790</u>		<u>15,536</u>	<u>123,225</u>
5	Total Taxes, Other	\$ <u>227,931</u>	\$ <u>14,066</u>	\$ <u>241,997</u>	.	\$ <u>8,505</u>		\$ <u>28,611</u>	\$ <u>208,881</u>
6	Percentage					<u>2.69%</u>		<u>11.82%</u>	<u>85.49%</u>

Note : (1) Revenue Tax Calculation :

Pro Forma Revenue Rqt	3,167,791
Rev Tax Rate	<u>4.50%</u>
Pro Forma Revenue Tax	142,551
1996 Revenue Tax	<u>(128,485)</u>
Adj	<u>14,066</u>

SANLAND UTILITIES CORPORATION
Effluent Rate Study—Sewer Operations
Cost Allocation

Effluent Reuse Allocation Symbols

Line No.	Allocation Symbols	Description	Allocation Factor
1	a	Items bearing this symbol are allocated based on hydraulic share of Effluent Reuse facility with a weighing adjustment for cost benefits to general customer base.	
2			
3		ADF Hydraulic Benefit	
4		(kgals) Share Weighing	
5		Irrigation Demand 1,101 50.05% -25%	12.51%
6		Reuse Disposal Capacity 1,099 49.95%	87.49%
7			
8	b	Treatment & Disposal Land is allocated based on proportionate share of T & D plant costs (excluding outfall mains to golf courses).	
9			
10		T & D Plant Cost 5,847,158	
11		Effluent Reuse, Irrigation Plant 125,384	2.14%
12		Effluent Reuse, Disposal Plant 876,683	14.99%
13			
14	c	These items are not necessary for providing effluent service and do not impact effluent costs.	0.00%
15			
16			
17	d	Items bearing this symbol are allocated based on the relative effluent reuse flow to total effluent reuse system capacity.	
18			
19		Effluent Reuse Capacity - ADF (kgals) 2,200.0	
20		Irrigation Demand - ADF (kgals) 1,101.0	50.05%
21		Reuse Disposal Capacity - ADF (kgals) 1,099.0	49.95%
22			
23	e	Items bearing this symbol are allocated based on the relationship of effluent reuse T & D facilities to total treatment and disposal plant.	
24			
25		Total T & D Plant 6,897,351	
26		Effluent Reuse Facilities 235,824	3.42%
27		Effluent Disposal Facilities 1,848,882	23.91%
28			
29	f	Items bearing this symbol are allocated based on a 50% weighing of all other (effluent reuse disposal) items and do not impact effluent reuse irrigation costs.	
30			
31			
32	g	Items bearing this symbol are allocated to effluent reuse based on judgement.	1.00%
33			
34	h	Accumulated depreciation for general plant items are allocated based on the UPIS (general plant) allocation.	
35			
36			
37	i	Treatment & Disposal benefits and comp insurance are allocated on the basis T & D labor costs.	
38			
39			
40	j	Rate case related costs are allocated:	
41		Irrigation 25.00%	
42		Disposal 75.00%	
43	k	Payroll taxes are allocated on the basis of the allocation of total labor costs.	
44		Total Labor 590,940	
45		Effluent Reuse Labor Costs 12,291	2.08%
46		Effluent Disposal Labor Costs 12,499	2.12%
47			
48	l	Income taxes are calculated as follows and allocated on the basis of the Rate Base.	
49		Rate of Return 10.25% Less 10.25% Wgt Cost of Debt =	
50		Wgt Cost Equity 0.00% x 3,958,317 Rate Base =	
51		Debt Coverage Rq 50,667 x 160.33% Gross-Up =	
52		Pre-tax Coverage 81,236 x 37.630% Tax Rate =	
53		<u>30,569</u> FIT	

PERMITTEE: Sanlando Utilities Corporation
 Mr. Hampton P. Conley, Exec. Vice-Pres.
 P.O. Box 3884
 Longwood, FL 32791

PERMIT NUMBER: FL0036251-01
 EXPIRATION DATE: TBD
 FACILITY I.D. NO.: FL0036251

DRAFT

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]

6. The permittee shall harvest the created wetland system south of Wekiva Springs road when the removal efficiency of the plants becomes less than 25% when measured on a yearly basis. To determine removal rates of nitrogen and phosphorus, water quality shall be monitored for total nitrogen and phosphorus prior to, and exiting the wetland. The permittee shall review the performance of the system and provide this information (along with any recommendation to harvest) to the Department for review.
7. During the life of this permit, the permittee shall periodically monitor the Sweetwater Creek/Lake Cove system for nuisance plants and in consultation with the Department, will consider selective herbicides which will not harm designated plants. In addition, the Department may require the manual removal of nuisance plants, related to the nutrient loading in the discharge.

VI. COMPLIANCE SCHEDULES

1. The following construction schedule for the upgrade of the wastewater treatment facility and the unrestricted public access reuse system shall be followed:

Implementation Step		Completion Date
1	Complete the final design of the plant and reuse force main	September 1997
2	Start construction of upgrade to the facility and reuse force main	May 1998
3	End construction of upgrade to the facility and reuse force main	July 1999
4	Start reuse system testing	July 1999
5	End reuse system testing	September 1999
6	Start up reuse system	December 1999

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

2. Beginning ninety (90) days from the issuance date of this permit, and every ninety (90) days thereafter, until start up of the reuse system, the permittee shall submit to the Department quarterly status reports on the progress of the final design, construction and implementation of the proposed plant upgrade and of the reuse system.
3. Extensions to the schedule contained in Condition VI.1. may be granted by the Department upon written request by the Permittee and demonstration that any delays encountered are beyond the ability of the Permittee to control and that substantial progress has been achieved in implementing the reuse program.
4. The Permittee will provide copies to the Department of any correspondence it has with the Public Service Commission regarding the planning, financing and implementation of the reuse program.

VII. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

This section is not applicable to this facility.





Department of Environmental Protection

RECEIVED MAY 30 1995

RCV

Lawton Chiles
Governor
CERTIFIED MAIL
Z 188 582 653

Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

Virginia B. Wetherell
Secretary

OCD-CE-DW-95-0085

Sanlando Utilities Corporation
Post Office Box 3884
Longwood, FL 32791

Attention: Hampton P. Conley
Executive Vice President

Re: Seminole County - DW
Wekiva Hunt Club Wastewater Treatment Facility
State I.D. 3059P03243, NPDES No. FL0036251

Dear Mr. Conley:

On May 1, 1995, the Florida Department of Environmental Protection (Department) was granted authority by the U.S. Environmental Protection Agency (EPA) to administer the National Pollutant Discharge Elimination System (NPDES) permitting program. Effective that date, the Department assumed permitting and enforcement authority for the NPDES permit(s) issued by EPA for point source discharges from your wastewater facility(ies) to waters of the United States. Also on May 1, the new wastewater permitting rule, Chapter 62-620, Florida Administrative Code, became effective. The rule applies to all state wastewater permitting and supersedes previous rule provisions.

Pursuant to Rule 62-620.105(10), Florida Administrative Code (F.A.C.), the EPA-issued NPDES permit and State-issued wastewater permit for each facility are being combined into one document (Order). Enclosed is an Order identifying the Department as the permitting agency, providing the address to which your monitoring reports should be sent, and assigning a new permit number to this combined document. The permittee should affix the referenced individual permits to the enclosed Order(s) as Section I (Federal NPDES permit) and Section II (State issued permit). If you recently received an NPDES permit from EPA with an effective date later than May 1, 1995, you should also attach the newly issued permit. Duplicate permit conditions will be addressed upon renewal of this Order or, in the interim, upon a request by the permittee for a substantial revision under Rule 62-620.325, F.A.C.

Pursuant to Chapter 403.087, Florida Statutes, and Rule 62-4.052, F.A.C., an initial pro-rated regulatory program and surveillance fee is due July 30, 1995, for the facilities referenced above. Each year thereafter, the annual regulatory program and surveillance fee will be due January 15. Enclosed is a work sheet identifying the annual fee(s) applicable to your facility(ies) according to information on file at our office. If you have questions about

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

Printed on recycled paper.

EXHIBIT

"B"

these fees, please contact this office by June 20, 1995. Invoices for the initial annual fees will be mailed after that date.

Please note that the Department did not request authorization for the federal sewage sludge management program. The EPA will issue sludge only permits for facilities with NPDES permits containing sludge management related permit conditions.

If there are any questions about your monitoring requirements or the annual fees, please contact Karen Gottwald of my staff at telephone number (407) 894-7555.

Sincerely,


Vivian F. Garfein
Director of District Management

May 26, 1995
Date

kg
VFG/kg/jb
Enclosures

cc: Daryll Joyner, DEP Tallahassee

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTICE OF AGENCY ACTION

In the Matter of an Order for:

Sanlando Utilities Corporation
Post Office Box 3884
Longwood, FL 32791

WASTEWATER PERMIT
NO. FL0036251
Seminole County

Pursuant to Rule 62-620.105(10)(a), Florida Administrative Code (F.A.C.), this order constitutes issuance of Wastewater Permit No. FL0036251 to Wekiva Hunt Club Wastewater Treatment Facility which combines NPDES permit FL0036251 (Section I) and State permit D059-200447 (Section II). The NPDES permit in Section I is adopted under Section 403.0885, Florida Statutes (F.S.). The State permit in Section II remains in effect under Sections 403.087 and 403.088, F.S. This agency action combining these permits is limited to identifying the Department as the permitting agency, providing addresses to send monitoring reports, providing an expiration date, and assigning a new permit number.

All permit conditions of both sections remain in effect and are unchanged. All of the conditions in Sections I and II are enforceable under Chapter 403, F.S. In addition, the conditions in Section I are enforceable under the Federal Clean Water Act by the Environmental Protection Agency.

The permittee shall continue all monitoring required by both sections of this Order. Monitoring required under Section I shall continue to be reported on EPA form 3320-1. EPA form 3320-1 for the months of April, May, and June shall be sent to the EPA. Effective with the report for the month of July 1995, the permittee shall submit EPA form 3320-1 to the Department of Environmental Protection, Mail Station 3551, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. All monitoring required under Section II shall continue to be reported on the forms required in Section II, but shall be sent to the Department at this Tallahassee address rather than to the District Office. Other than the monitoring reports for April - June, all correspondence and requests regarding Section I of this wastewater permit should be directed to this office beginning immediately.

In accordance with Rule 62-620.105, F.A.C., this Order expires on February 29, 1996 unless revised under Rule 62-620.325, F.A.C., or renewed under Rule 62-620.335, F.A.C. APPLICATION FOR RENEWAL 180 PRIOR TO EXPIRATION DATE.
3 SEP 95

A person whose substantial interests are affected by this agency action may petition for an administrative proceeding (hearing) in accordance with Section 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of receipt of this permit. Petitioner shall mail a copy of the petition to the permittee at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S. The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the permittee's name and address, the Department Permit number, and the county in which the project is located;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this agency action. Persons whose substantial interests will be affected by any decision of the Department with regard to the agency action have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

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

When the agency action is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date of the Final Order is filed with the Clerk of the Department.

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


Vivian F. Garfein, Director
of District Management

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to s. 120.52(11), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Mary G. DeJesus
Clerk

5/26/95
Date

^{AP}
VFG/kg/jb

Copies furnished to:

Daryll Joyner, FDEP Tallahassee

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF AGENCY ACTION and all copies were mailed by certified mail before the close of business on 5/26/95 to the listed persons by J. Bergstrom.

ANNUAL FEE WORKSHEET
Domestic Wastewater

Facility Name: Wekiva Hunt Club (Sanlando Utilities Corporation)

I.D.#: FL0036251 DEP District: Central

PART I. Regular Surface Water Discharge

Scenario A:

- 1. Permitted Capacity of Surface Water Discharge (mgd): 2.90
- 2. Permitted Reuse Capacity for which surface water discharge serves as back-up: 0.00
- 3. 70% of Permitted Reuse Capacity from 2. 0.00
- 4. Adjusted Surface Water Discharge Permitted Capacity (Item 1 minus Item 3). 2.90
- 5. Annual Fee for the capacity in item 4. \$6,250.00

Scenario B:

- 1. UIC disposal with discharge authorized during Mechanical Integrity Test only, or percolation pond disposal with discharge authorized after specified storm events only, enter \$200 \$ 0.00

PART II. Pretreatment

If this facility has an approved pretreatment program enter \$500. \$ 0.00

PART III. Stormwater-only Outfalls

Number of Stormwater-only outfalls regulated in the NPDES permit. 0

Enter the amount equal to the number of Stormwater-only outfalls times \$200. \$ 0.00

PART IV. Total Calculated Fee

TOTAL ANNUAL FEE (Sum of PART I fee from Scenario A or B, plus Parts II and III.) \$6,250.00

Note: The annual fee will be the lesser of the amount in Part IV or the Statutory Cap of \$7,500.

NOTE: NOT PAID - PER DEP, DO NOT PAY UNTIL PRO-RATA BILLED IN JUNE.

APPROVED FOR PAYMENT
By PPC Date 5/31
Sanlando Utilities Corp.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.
ATLANTA, GEORGIA 30365

CC HS
MB
MAC
BH (CPN)
RAM

RECEIVED

FEB 1 1991

SANLANDO UTILITIES CORP.

FEB 01 1991

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

REF: 4WM-FP

Mr. Brian Johnson
Assistant Vice President Engineering
Sanlando Utilities Corporation
P. O. Box 3884
Longwood, Florida 32750

RE: Final Issuance of NPDES Permit No. FL0036251
Sanlando Utilities Corporation

Dear Mr. Johnson:

Enclosed is the National Pollutant Discharge Elimination System (NPDES) permit for the above-referenced facility. This action constitutes the Environmental Protection Agency's final permit decision in accordance with Title 40, Code of Federal Regulations (C.F.R.) Section 124.15(a). The permit will become effective as specified, provided that no timely request for an evidentiary hearing is received by the Agency.

Any interested person may contest this decision by submitting a timely request for an evidentiary hearing (hearing) pursuant to the procedures at 40 C.F.R. § 124.74. If a request for a hearing is received by the Agency, following review, a determination will be made and the requester advised of the Agency's decision on the request. Until that time, please be advised that any request will render the permit ineffective pursuant to 40 C.F.R. § 124.15(b). For a new source, a new discharger, a recommencing discharger, or a facility for which an untimely permit renewal application was submitted, a hearing request renders the facility without an NPDES permit and the facility may not discharge (unless relief is granted by the Presiding Officer under 40 C.F.R. § 124.60(a)).


If the evidentiary hearing request is granted, in whole or part, to an existing source, the effect of the contested provision(s), and any other conditions not severable from those conditions, will be stayed and not subject to judicial review pending final Agency action. In this case, all provisions of the prior permit, as well as, all uncontested provisions of the reissued permit shall continue fully enforceable and effective pending final Agency action on the permit appeal. See 40 C.F.R. § 124.60.

To request an evidentiary hearing under 40 C.F.R. § 124.74, you must submit an original and two copies of the request to the Regional Hearing Clerk at the letterhead address within thirty (30) days from service of this notice. A copy of the procedures and requirements for evidentiary hearing requests and appeals to the Administrator is enclosed.

For purposes of judicial review under the Clean Water Act, 33 U.S.C. § 1251 et seq., final Agency action on a permit does not occur unless and until a party has exhausted its administrative remedies as required by 40 C.F.R. Part 124.

Further information on procedures pertaining to the filing of an evidentiary hearing request or other legal matters may be obtained by contacting Jacqueline F. Colson or Kevin B. Smith, Assistant Regional Counsels, at (404) 347-2335.

Sincerely yours,


W. Ray Cunningham, Director
Water Management Division

Enclosures (3): Evidentiary Hearing Procedures
 Final NPDES Permit
 Amendment to Fact Sheet

cc: Florida DER (with all enclosures, except Evid. Hearing
 Procedures)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.
ATLANTA, GEORGIA 30365

DATE: February 6, 1991

AMENDMENT TO STATEMENT OF BASIS AT THE TIME OF FINAL PERMIT ISSUANCE

NPDES PERMIT NUMBER: FL0036251

NAME OF APPLICANT: Sanlando Utilities Corporation
Longwood, Florida

1. Changes to Permit from Draft Permit to Final Permit Stage

The permittee has completed six valid bimonthly toxicity tests; therefore Part IV, Page IV-2, Section 2.a., has been changed to require toxicity testing once every six months.

2. Public Comments

Comments received from the Fish and Wildlife Service during the public notice period of December 27, 1990, through January 27, 1991, said in their judgement, with the possible exception of total residual chlorine (TRC), the permitted effluents should have no significant adverse impacts on species or habitats under Service trusteeship

3. State Certification

State certification was requested on December 4, 1990. State certification is hereby deemed waived per 40 CFR 124.53(c)(3).

PERMIT NO. FL0036251
Major Non-POTW

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IV

AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Clean Water Act, as amended (33 U.S.C. 1251 et seq.; the "Act"),

Sanlando Utilities Corporation
Post Office Box 3884
Longwood, Florida 32750

is authorized to discharge from a facility located at

Ledbury Drive
Longwood, Florida

to receiving waters named

Sweetwater Creek

in accordance with effluent limitations, monitoring requirements and other conditions set forth herein. The permit consists of this cover sheet, Part I 5 pages, Part II 16 pages, Part III 1 pages and Part IV 3 pages.

This permit shall become effective on April 1, 1991.

This permit and the authorization to discharge shall expire at midnight, February 29, 1996.

February 6, 1991
Date Issued



W. Ray Cunningham, Director
Water Management Division

40 CFR Ch. I (7-1-89 Edition)

**Subpart E—Evidentiary Hearings for
EPA-Issued NPDES Permits and
EPA-Terminated RCRA Permits**

§ 124.71 Applicability.

(a) The regulations in this subpart govern all formal hearings conducted by EPA under CWA sections 402 and 405(f), except those conducted under Subpart F. They also govern all evidentiary hearings conducted under RCRA section 3008 in connection with the termination of a RCRA permit. This includes termination of interim status for failure to furnish information needed to make a final decision. A formal hearing is available to challenge any NPDES permit issued under § 124.15 except for a general permit. Persons affected by a general permit may not challenge the conditions of a general permit as of right in further agency proceedings. They may instead either challenge the general permit in court, or apply for an individual NPDES permit under § 122.21 as authorized in § 122.28 and then request a formal hearing on the issuance or denial of an individual permit. (The Regional Administrator also has the discretion to use the procedures of Subpart F for general permits. See § 124.111).

(b) In certain cases, evidentiary hearings under this subpart may also be held on the conditions of UIC permits, or of RCRA permits which are being issued, modified, or revoked and reissued, rather than terminated or suspended. This will occur when the conditions of the UIC or RCRA permit in question are closely linked with the conditions of an NPDES permit as to

§ 124.71

§ 124.72

which an evidentiary hearing has been granted. See § 124.74(b)(2). Any interested person may challenge the Regional Administrator's initial new source determination by requesting an evidentiary hearing under this part. See § 122.29.

(c) PSD permits may never be subject to an evidentiary hearing under this subpart. Section 124.74(b)(2)(iv) provides only for consolidation of PSD permits with other permits subject to a panel hearing under Subpart F.

[48 FR 14264, Apr. 1, 1983, as amended at 54 FR 18786, May 2, 1989]

§ 124.72 Definitions.

For the purpose of this subpart, the following definitions are applicable:

"Hearing Clerk" means The Hearing Clerk, U.S. Environmental Protection Agency, 401 M Street, SW., Washington, DC, 20460.

"Judicial Officer" means a permanent or temporary employee of the Agency appointed as a Judicial Officer by the Administrator under these regulations and subject to the following conditions:

(a) A Judicial Officer shall be a licensed attorney. A Judicial Officer shall not be employed in the Office of Enforcement or the Office of Water and Waste Management, and shall not participate in the consideration or decision of any case in which he or she performed investigative or prosecutorial functions, or which is factually related to such a case.

(b) The Administrator may delegate any authority to act in an appeal of a given case under this subpart to a Judicial Officer who, in addition, may perform other duties for EPA, provided that the delegation shall not preclude a Judicial Officer from referring any motion or case to the Administrator when the Judicial Officer decides such action would be appropriate. The Administrator, in deciding a case, may consult with and assign the drafting of preliminary findings of fact and conclusions and/or a preliminary decision to any Judicial Officer.

"Party" means the EPA trial staff under § 124.78 and any person whose request for a hearing under § 124.74 or whose request to be admitted as a

40 CFR Ch. I (7-1-89 Edition)

party or to intervene under § 124.79 or § 124.117 has been granted.

"Presiding Officer" for the purposes of this subpart means an Administrative Law Judge appointed under 5 U.S.C. 3105 and designated to preside at the hearing. Under Subpart F other persons may also serve as hearing officers. See § 124.119.

"Regional Hearing Clerk" means an employee of the Agency designated by a Regional Administrator to establish a repository for all books, records, documents, and other materials relating to hearings under this subpart.

§ 124.73 Filing and submission of documents.

(a) All submissions authorized or required to be filed with the Agency under this subpart shall be filed with the Regional Hearing Clerk, unless otherwise provided by regulation. Submissions shall be considered filed on the date on which they are mailed or delivered in person to the Regional Hearing Clerk.

(b) All submissions shall be signed by the person making the submission, or by an attorney or other authorized agent or representative.

(c)(1) All data and information referred to or in any way relied upon in any submission shall be included in full and may not be incorporated by reference, unless previously submitted as part of the administrative record in the same proceeding. This requirement does not apply to State or Federal statutes and regulations, judicial decisions published in a national reporter system, officially issued EPA documents of general applicability, and any other generally available reference material which may be incorporated by reference. Any party incorporating materials by reference shall provide copies upon request by the Regional Administrator or the Presiding Officer.

(2) If any part of the material submitted is in a foreign language, it shall be accompanied by an English translation verified under oath to be complete and accurate, together with the name, address, and a brief statement of the qualifications of the person making the translation. Translations

of literature or other material in a foreign language shall be accompanied by copies of the original publication.

(3) Where relevant data or information is contained in a document also containing irrelevant matter, either the irrelevant matter shall be deleted or the relevant portions shall be indicated.

(4) Failure to comply with the requirements of this section or any other requirement in this subpart may result in the noncomplying portions of the submission being excluded from consideration. If the Regional Administrator or the Presiding Officer, on motion by any party or *sua sponte*, determines that a submission fails to meet any requirement of this Subpart, the Regional Administrator or Presiding Officer shall direct the Regional Hearing Clerk to return the submission, together with a reference to the applicable regulations. A party whose materials have been rejected has 14 days to correct the errors and resubmit, unless the Regional Administrator or the Presiding Officer finds good cause to allow a longer time.

(d) The filing of a submission shall not mean or imply that it in fact meets all applicable requirements or that it contains reasonable grounds for the action requested or that the action requested is in accordance with law.

(e) The original of all statements and documents containing factual material, data, or other information shall be signed in ink and shall state the name, address, and the representative capacity of the person making the submission.

§ 124.74 Requests for evidentiary hearing.

(a) Within 30 days following the service of notice of the Regional Administrator's final permit decision under § 124.15, any interested person may submit a request to the Regional Administrator under paragraph (b) of this section for an evidentiary hearing to reconsider or contest that decision. If such a request is submitted by a person other than the permittee, the person shall simultaneously serve a copy of the request on the permittee.

(b)(1) In accordance with § 124.76, such requests shall state each legal or

factual question alleged to be at issue, and their relevance to the permit decision, together with a designation of the specific factual areas to be adjudicated and the hearing time estimated to be necessary for adjudication. Information supporting the request or other written documents relied upon to support the request shall be submitted as required by § 124.73 unless they are already part of the administrative record required by § 124.18.

Note: This paragraph allows the submission of requests for evidentiary hearings even though both legal and factual issues may be raised, or only legal issues may be raised. In the latter case, because no factual issues were raised, the Regional Administrator would be required to deny the request. However, on review of the denial the Administrator is authorized by § 124.91(a)(1) to review policy or legal conclusions of the Regional Administrator. EPA is requiring an appeal to the Administrator even of purely legal issues involved in a permit decision to ensure that the Administrator will have an opportunity to review any permit before it will be final and subject to judicial review.

(2) Persons requesting an evidentiary hearing on an NPDES permit under this section may also request an evidentiary hearing on a RCRA or UIC permit. PSD permits may never be made part of an evidentiary hearing under Subpart E. This request is subject to all the requirements of paragraph (b)(1) of this section and in addition will be granted only if:

(i) Processing of the RCRA or UIC permit at issue was consolidated with the processing of the NPDES permit as provided in § 124.4;

(ii) The standards for granting a hearing on the NPDES permit are met;

(iii) The resolution of the NPDES permit issues is likely to make necessary or appropriate modification of the RCRA or UIC permit; and

(iv) If a PSD permit is involved, a permittee who is eligible for an evidentiary hearing under Subpart E on his or her NPDES permit requests that the formal hearing be conducted under the procedures of Subpart F and the Regional Administrator finds that consolidation is unlikely to delay final permit issuance beyond the PSD one-year statutory deadline.

(c) These requests shall also contain:

- (1) The name, mailing address, and telephone number of the person making such request;

- (2) A clear and concise factual statement of the nature and scope of the interest of the requester;

- (3) The names and addresses of all persons whom the requester represents; and

- (4) A statement by the requester that, upon motion of any party granted by the Presiding Officer, or upon order of the Presiding Officer *sua sponte* without cost or expense to any other party, the requester shall make available to appear and testify, the following:

- (i) The requester;

- (ii) All persons represented by the requester; and

- (iii) All officers, directors, employees, consultants, and agents of the requester and the persons represented by the requester.

- (5) Specific references to the contested permit conditions, as well as suggested revised or alternative permit conditions (including permit denials) which, in the judgment of the requester, would be required to implement the purposes and policies of the CWA.

- (6) In the case of challenges to the application of control or treatment technologies identified in the statement of basis or fact sheet, identification of the basis for the objection, and the alternative technologies or combination of technologies which the requester believes are necessary to meet the requirements of the CWA.

- (7) Identification of the permit obligations that are contested or are inseparable from contested conditions and should be stayed if the request is granted by reference to the particular contested conditions warranting the stay.

- (8) Hearing requests also may ask that a formal hearing be held under the procedures set forth in Subpart F. An applicant may make such a request even if the proceeding does not constitute "initial licensing" as defined in § 124.111.

- (d) If the Regional Administrator grants an evidentiary hearing request, in whole or in part, the Regional Administrator shall identify the permit

conditions which have been contested by the requester and for which the evidentiary hearing has been granted. Permit conditions which are not contested or for which the Regional Administrator has denied the hearing request shall not be affected by, or considered at, the evidentiary hearing. The Regional Administrator shall specify these conditions in writing in accordance with § 124.60(c).

(e) The Regional Administrator must grant or deny all requests for an evidentiary hearing on a particular permit. All requests that are granted for a particular permit shall be combined in a single evidentiary hearing.

(f) The Regional Administrator (upon notice to all persons who have already submitted hearing requests) may extend the time allowed for submitting hearing requests under this section for good cause.

§ 124.75 Decision on request for a hearing.

(a)(1) Within 30 days following the expiration of the time allowed by § 124.74 for submitting an evidentiary hearing request, the Regional Administrator shall decide the extent to which, if at all, the request shall be granted, provided that the request conforms to the requirements of § 124.74, and sets forth material issues of fact relevant to the issuance of the permit.

(2) When an NPDES permit for which a hearing request has been granted constitutes "initial licensing" under § 124.111, the Regional Administrator may elect to hold a formal hearing under the procedures of Subpart F rather than under the procedures of this subpart even if no person has requested that Subpart F be applied. If the Regional Administrator makes such a decision, he or she shall issue a notice of hearing under § 124.116. All subsequent proceedings shall then be governed by §§ 124.117 through 124.121, except that any reference to a draft permit shall mean the final permit.

(3) Whenever the Regional Administrator grants a request made under § 124.74(c)(8) for a formal hearing under Subpart F on an NPDES permit that does not constitute an initial li

cense under § 124.111, the Regional Administrator shall issue a notice of hearing under § 124.116 including a statement that the permit will be processed under the procedures of Subpart P unless a written objection is received within 30 days. If no valid objection is received, the application shall be processed in accordance with §§ 124.117 through 124.121, except that any reference to a draft permit shall mean the final permit. If a valid objection is received, this subpart shall be applied instead.

(b) If a request for a hearing is denied in whole or in part, the Regional Administrator shall briefly state the reasons. That denial is subject to review by the Administrator under § 124.91.

§ 124.76 Obligation to submit evidence and raise issues before a final permit is issued.

In any case where the Regional Administrator elected to apply the requirements of § 124.14(a), no evidence shall be submitted by any party to a hearing under this Subpart that was not submitted to the administrative record required by § 124.18 as part of the preparation of and comment on a draft permit, unless good cause is shown for the failure to submit it. No issues shall be raised by any party that were not submitted to the administrative record required by § 124.18 as part of the preparation of and comment on a draft permit unless good cause is shown for the failure to submit them. Good cause includes the case where the party seeking to raise the new issues or introduce new information shows that it could not reasonably have ascertained the issues or made the information available within the time required by § 124.18; or that it could not have reasonably anticipated the relevance or materiality of the information sought to be introduced. Good cause exists for the introduction of data available on operation authorized under § 124.60(a)(2).

(48 FR 38051, Sept. 28, 1984)

§ 124.77 Notice of hearing.

Public notice of the grant of an evidentiary hearing regarding a permit shall be given as provided in

§ 124.57(b) and by mailing a copy to all persons who commented on the draft permit, testified at the public hearing, or submitted a request for a hearing. Before the issuance of the notice, the Regional Administrator shall designate the Agency trial staff and the members of the decisional body (as defined in § 124.78).

§ 124.78 Ex parte communications.

(a) For purposes of this section, the following definitions shall apply:

(1) "Agency trial staff" means those Agency employees, whether temporary or permanent, who have been designated by the Agency under § 124.77 or § 124.116 as available to investigate, litigate, and present the evidence, arguments, and position of the Agency in the evidentiary hearing or nonadversary panel hearing. Any EPA employee, consultant, or contractor who is called as a witness by EPA trial staff, or who assisted in the formulation of the draft permit which is the subject of the hearing, shall be designated as a member of the Agency trial staff;

(2) "Decisional body" means any Agency employee who is or may reasonably be expected to be involved in the decisional process of the proceeding including the Administrator, Judicial Officer, Presiding Officer, the Regional Administrator (if he or she does not designate himself or herself as a member of the Agency trial staff), and any of their staff participating in the decisional process. In the case of a nonadversary panel hearing, the decisional body shall also include the panel members, whether or not permanently employed by the Agency;

(3) "Ex parte communication" means any communication, written or oral, relating to the merits of the proceeding between the decisional body and an interested person outside the Agency or the Agency trial staff which was not originally filed or stated in the administrative record or in the hearing. *Ex parte* communications do not include:

(i) Communications between Agency employees other than between the Agency trial staff and the members of the decisional body;

(ii) Discussions between the decisional body and either:

(A) Interested persons outside the Agency, or

(B) The Agency trial staff, if all parties have received prior written notice of the proposed communications and have been given the opportunity to be present and participate therein.

(4) "Interested person outside the Agency" includes the permit applicant, any person who filed written comments in the proceeding, any person who requested the hearing, any person who requested to participate or intervene in the hearing, any other interested person not employed by the Agency at the time of the communications, and any attorney of record for those persons.

(b)(1) No interested person outside the Agency or member of the Agency trial staff shall make or knowingly cause to be made to any members of the decisional body, an *ex parte* communication on the merits of the proceedings.

(2) No member of the decisional body shall make or knowingly cause to be made to any interested person outside the Agency or member of the Agency trial staff, an *ex parte* communication on the merits of the proceedings.

(3) A member of the decisional body who receives or who makes or who knowingly causes to be made a communication prohibited by this subsection shall file with the Regional Hearing Clerk all written communications or memoranda stating the substance of all oral communications together with all written responses and memoranda stating the substance of all oral responses.

(c) Whenever any member of the decisionmaking body receives an *ex parte* communication knowingly made or knowingly caused to be made by a party or representative of a party in violation of this section, the person presiding at the stage of the hearing then in progress may, to the extent consistent with justice and the policy of the CWA, require the party to show cause why its claim or interest in the proceedings should not be dismissed, denied, disregarded, or otherwise ad-

versely affected on account of such violation.

(d) The prohibitions of this section begin to apply upon issuance of the notice of the grant of a hearing under § 124.77 or § 124.116. This prohibition terminates at the date of final agency action.

(48 FR 14264, Apr. 1, 1983, as amended at 49 FR 38052, Sept. 28, 1984)

§ 124.79 Additional parties and issues.

(a) Any person may submit a request to be admitted as a party within 15 days after the date of mailing, publication, or posting of notice of the grant of an evidentiary hearing, whichever occurs last. The Presiding Officer shall grant requests that meet the requirements of §§ 124.74 and 124.76.

(b) After the expiration of the time prescribed in paragraph (a) of this section any person may file a motion for leave to intervene as a party. This motion must meet the requirements of §§ 124.74 and 124.76 and set forth the grounds for the proposed intervention. No factual or legal issues, besides those raised by timely hearing requests, may be proposed except for good cause. A motion for leave to intervene must also contain a verified statement showing good cause for the failure to file a timely request to be admitted as a party. The Presiding Officer shall grant the motion only upon an express finding on the record that:

(1) Extraordinary circumstances justify granting the motion;

(2) The intervener has consented to be bound by:

(i) Prior written agreements and stipulations by and between the existing parties; and

(ii) All orders previously entered in the proceedings; and

(3) Intervention will not cause undue delay or prejudice the rights of the existing parties.

§ 124.80 Filing and service.

(a) An original and one (1) copy of all written submissions relating to an evidentiary hearing filed after the notice is published shall be filed with the Regional Hearing Clerk.

(b) The party filing any submission shall also serve a copy of each submit-

sion upon the Presiding Officer and each party of record. Service shall be by mail or personal delivery.

(c) Every submission shall be accompanied by an acknowledgment of service by the person served or a certificate of service citing the date, place, time, and manner of service and the names of the persons served.

(d) The Regional Hearing Clerk shall maintain and furnish a list containing the name, service address, and telephone number of all parties and their attorneys or duly authorized representatives to any person upon request.

§ 124.81 Assignment of Administrative Law Judge.

No later than the date of mailing, publication, or posting of the notice of a grant of an evidentiary hearing, whichever occurs last, the Regional Administrator shall refer the proceeding to the Chief Administrative Law Judge who shall assign an Administrative Law Judge to serve as Presiding Officer for the hearing.

§ 124.82 Consolidation and severance.

(a) The Administrator, Regional Administrator, or Presiding Officer has the discretion to consolidate, in whole or in part, two or more proceedings to be held under this subpart, whenever it appears that a joint hearing on any or all of the matters in issue would expedite or simplify consideration of the issues and that no party would be prejudiced thereby. Consolidation shall not affect the right of any party to raise issues that might have been raised had there been no consolidation.

(b) If the Presiding Officer determines consolidation is not conducive to an expeditious, full, and fair hearing, any party or issues may be severed and heard in a separate proceeding.

§ 124.83 Prehearing conferences.

(a) The Presiding Officer, sua sponte, or at the request of any party, may direct the parties or their attorneys or duly authorized representatives to appear at a specified time and place for one or more conferences before or during a hearing, or to submit written proposals or corre-

spond for the purpose of considering any of the matters set forth in paragraph (c) of this section.

(b) The Presiding Officer shall allow a reasonable period before the hearing begins for the orderly completion of all prehearing procedures and for the submission and disposition of all prehearing motions. Where the circumstances warrant, the Presiding Officer may call a prehearing conference to inquire into the use of available procedures contemplated by the parties and the time required for their completion, to establish a schedule for their completion, and to set a tentative date for beginning the hearing.

(c) In conferences held, or in suggestions submitted, under paragraph (a) of this section, the following matter may be considered:

(1) Simplification, clarification, amplification, or limitation of the issues.

(2) Admission of facts and of the genuineness of documents, and stipulations of facts.

(3) Objections to the introduction into evidence at the hearing of any written testimony, documents, papers, exhibits, or other submissions proposed by a party, except that the administrative record required by § 124.19 shall be received in evidence subject to the provisions of § 124.85(d)(2). At any time before the end of the hearing any party may make, and the Presiding Officer shall consider and rule upon, motions to strike testimony or other evidence other than the administrative record on the grounds of relevance, competency, or materiality.

(4) Matters subject to official notice may be taken.

(5) Scheduling as many of the following as are deemed necessary and proper by the Presiding Officer:

(i) Submission of narrative statements of position on each factual issue in controversy;

(ii) Submission of written testimony and documentary evidence (e.g., affidavits, data, studies, reports, and any other type of written material) in support of those statements; or

(iii) Requests by any party for the production of additional documentation, data, or other information relevant and material to the facts in issue.

(6) Grouping participants with substantially similar interests to eliminate redundant evidence, motions, and objections.

(7) Such other matters that may expedite the hearing or aid in the disposition of the matter.

(d) At a prehearing conference or at some other reasonable time set by the Presiding Officer, each party shall make available to all other parties the names of the expert and other witnesses it expects to call. At its discretion or at the request of the Presiding Officer, a party may include a brief narrative summary of any witness's anticipated testimony, documents, papers, exhibits, or materials which a party expects to introduce into evidence, and the administrative record required by § 124.18 shall be marked for identification as ordered by the Presiding Officer. Witnesses, proposed written testimony, and other evidence may be added or amended upon order of the Presiding Officer for good cause shown. Agency employees and consultants shall be made available as witnesses by the Agency to the same extent that production of such witnesses is required of other parties under § 124.74(c)(4). (See also § 124.85(b)(16).)

(e) The Presiding Officer shall prepare a written prehearing order reciting the actions taken at each prehearing conference and setting forth the schedule for the hearing, unless a transcript has been taken and accurately reflects these matters. The order shall include a written statement of the areas of factual agreement and disagreement and of the methods and procedures to be used in developing the evidence and the respective duties of the parties in connection therewith. This order shall control the subsequent course of the hearing unless modified by the Presiding Officer for good cause shown.

§ 124.84 Summary determination.

(a) Any party to an evidentiary hearing may move with or without supporting affidavits and briefs for a summary determination in its favor upon any of the issues being adjudicated on the basis that there is no genuine issue

of material fact for determination. This motion shall be filed at least 45 days before the date set for the hearing, except that upon good cause shown the motion may be filed at any time before the close of the hearing.

(b) Any other party may, within 30 days after service of the motion, file and serve a response to it or a counter-motion for summary determination. When a motion for summary determination is made and supported, a party opposing the motion may not rest upon mere allegations or denials but must show, by affidavit or by other materials subject to consideration by the Presiding Officer, that there is a genuine issue of material fact for determination at the hearing.

(c) Affidavits shall be made on personal knowledge, shall set forth facts that would be admissible in evidence, and shall show affirmatively that the affiant is competent to testify to the matters stated therein.

(d) The Presiding Officer may set the matter for oral argument and call for the submission of proposed findings, conclusions, briefs, or memoranda of law. The Presiding Officer shall rule on the motion not more than 30 days after the date responses to the motion are filed under paragraph (b) of this section.

(e) If all factual issues are decided by summary determination, no hearing will be held and the Presiding Officer shall prepare an initial decision under § 124.89. If summary determination is denied or if partial summary determination is granted, the Presiding Officer shall issue a memorandum opinion and order, interlocutory in character, and the hearing will proceed on the remaining issues. Appeals from interlocutory rulings are governed by § 124.90.

(f) Should it appear from the affidavits of a party opposing a motion for summary determination that he or she cannot for reasons stated present, by affidavit or otherwise, facts essential to justify his or her opposition, the Presiding Officer may deny the motion or order a continuance to allow additional affidavits or other information to be obtained or may make such other order as is just and proper.

§ 124.85 Hearing procedure.

(a)(1) The permit applicant always bears the burden of persuading the Agency that a permit authorizing pollutants to be discharged should be issued and not denied. This burden does not shift.

NOTE: In many cases the documents contained in the administrative record, in particular the fact sheet or statement of basis and the response to comments, should adequately discharge this burden.

(2) The Agency has the burden of going forward to present an affirmative case in support of any challenged condition of a final permit.

(3) Any hearing participant who, by raising material issues of fact, contends:

(1) That particular conditions or requirements in the permit are improper or invalid, and who desires either:

(A) The inclusion of new or different conditions or requirements; or

(B) The deletion of those conditions or requirements; or

(1) That the denial or issuance of a permit is otherwise improper or invalid, shall have the burden of going forward to present an affirmative case at the conclusion of the Agency case on the challenged requirement.

(b) The Presiding Officer shall conduct a fair and impartial hearing, take action to avoid unnecessary delay in the disposition of the proceedings, and maintain order. For these purposes, the Presiding Officer may:

(1) Arrange and issue notice of the date, time, and place of hearings and conferences;

(2) Establish the methods and procedures to be used in the development of the evidence;

(3) Prepare, after considering the views of the participants, written statements of areas of factual disagreement among the participants;

(4) Hold conferences to settle, simplify, determine, or strike any of the issues in a hearing, or to consider other matters that may facilitate the expeditious disposition of the hearing;

(5) Administer oaths and affirmations;

(6) Regulate the course of the hearing and govern the conduct of participants;

(7) Examine witnesses;

(8) Identify and refer issues for interlocutory decision under § 124.90;

(9) Rule on, admit, exclude, or limit evidence;

(10) Establish the time for filing motions, testimony, and other written evidence, briefs, findings, and other submissions;

(11) Rule on motions and other procedural matters pending before him, including but not limited to motions for summary determination in accordance with § 124.84;

(12) Order that the hearing be conducted in stages whenever the number of parties is large or the issues are numerous and complex;

(13) Take any action not inconsistent with the provisions of this subpart for the maintenance of order at the hearing and for the expeditious, fair, and impartial conduct of the proceeding;

(14) Provide for the testimony of opposing witnesses to be heard simultaneously or for such witnesses to meet outside the hearing to resolve or isolate issues or conflicts;

(15) Order that trade secrets be treated as confidential business information in accordance with §§ 122.7 (NPDES) and 270.12 (RCRA) and 40 CFR Part 2; and

(16) Allow such cross-examination as may be required for a full and true disclosure of the facts. No cross-examination shall be allowed on questions of policy except to the extent required to disclose the factual basis for permit requirements, or on questions of law, or regarding matters (such as the validity of effluent limitations guidelines) that are not subject to challenge in an evidentiary hearing. No Agency witnesses shall be required to testify or be made available for cross-examination on such matters. In deciding whether or not to allow cross-examination, the Presiding Officer shall consider the likelihood of clarifying or resolving a disputed issue of material fact compared to other available methods. The party seeking cross-examination has the burden of demonstrating that this standard has been met.

(c) All direct and rebuttal evidence at an evidentiary hearing shall be submitted in written form, unless, upon motion and good cause shown, the

Presiding Officer determines that oral presentation of the evidence on any particular fact will materially assist in the efficient identification and clarification of the issues. Written testimony shall be prepared in narrative form.

(d)(1) The Presiding Officer shall admit all relevant, competent, and material evidence, except evidence that is unduly repetitious. Evidence may be received at any hearing even though inadmissible under the rules of evidence applicable to judicial proceedings. The weight to be given evidence shall be determined by its reliability and probative value.

(2) The administrative record required by § 124.18 shall be admitted and received in evidence. Upon motion by any party the Presiding Officer may direct that a witness be provided to sponsor a portion or portions of the administrative record. The Presiding Officer, upon finding that the standards in § 124.85(b)(3) have been met, shall direct the appropriate party to produce the witness for cross-examination. If a sponsoring witness cannot be provided, the Presiding Officer may reduce the weight accorded the appropriate portion of the record.

NOTE: Receiving the administrative record into evidence automatically serves several purposes: (1) It documents the prior course of the proceedings; (2) it provides a record of the views of affected persons for consideration by the agency decisionmaker; and (3) it provides factual material for use by the decisionmaker.

(3) Whenever any evidence or testimony is excluded by the Presiding Officer as inadmissible, all such evidence or testimony existing in written form shall remain a part of the record as an offer of proof. The party seeking the admission of oral testimony may make an offer of proof, by means of a brief statement on the record describing the testimony excluded.

(4) When two or more parties have substantially similar interests and positions, the Presiding Officer may limit the number of attorneys or other party representatives who will be permitted to cross-examine and to make and argue motions and objections on behalf of those parties. Attorneys may, however, engage in cross-examination relevant to matters not ade-

quately covered by previous cross-examination.

(5) Rulings of the Presiding Officer on the admissibility of evidence or testimony, the propriety of cross-examination, and other procedural matters shall appear in the record and shall control further proceedings, unless reversed as a result of an interlocutory appeal taken under § 124.90.

(6) All objections shall be made promptly or be deemed waived. Parties shall be presumed to have taken exception to an adverse ruling. No objection shall be deemed waived by further participation in the hearing.

(e) *Admission of evidence on environmental impacts.* If a hearing is granted under this subpart for a new source subject to NEPA, the Presiding Officer may admit evidence relevant to any environmental impacts of the permitted facility if the evidence would be relevant to the Agency's obligation under § 122.29(c)(3). If the source holds a final EPA-issued RCRA, PSD, or UIC permit, or an ocean dumping permit under the Marine Protection, Research, and Sanctuaries Act (MPRSA), no such evidence shall be admitted nor shall cross-examination be allowed relating to:

(1) Effects on air quality, (2) effects attributable to underground injection or hazardous waste management practices, or (3) effects of ocean dumping subject to the MPRSA, which were considered or could have been considered in the PSD, RCRA, UIC, or MPRSA permit issuance proceedings. However, the presiding officer may admit without cross-examination or any supporting witness relevant portions of the record of PSD, RCRA, UIC, or MPRSA permit issuance proceedings.

(48 FR 14284, Apr. 1, 1983, as amended at 49 FR 38052, Sept. 28, 1984)

§ 124.86 Motions.

(a) Any party may file a motion (including a motion to dismiss a particular claim on a contested issue) with the Presiding Officer on any matter relating to the proceeding. All motions shall be in writing and served as provided in § 124.80 except those made on

the record during an oral hearing before the Presiding Officer.

(b) Within 10 days after service of any written motion, any part to the proceeding may file a response to the motion. The time for response may be shortened to 3 days or extended for an additional 10 days by the Presiding Officer for good cause shown.

(c) Notwithstanding § 122.4, any party may file with the Presiding Officer a motion seeking to apply to the permit any regulatory or statutory provision issued or made available after the issuance of the permit under § 124.15. The Presiding Officer shall grant any motion to apply a new statutory provision unless he or she finds it contrary to legislative intent. The Presiding Officer may grant a motion to apply a new regulatory requirement when appropriate to carry out the purpose of CWA, and when no party would be unduly prejudiced thereby.

§ 124.87 Record of hearings.

(a) All orders issued by the Presiding Officer, transcripts of oral hearings or arguments, written statements of position, written direct and rebuttal testimony, and any other data, studies, reports, documentation, information and other written material of any kind submitted in the proceeding shall be a part of the hearing record and shall be available to the public except as provided in §§ 122.7 (NPDES) and 270.12 (RCRA), in the Office of the Regional Hearing Clerk, as soon as it is received in that office.

(b) Evidentiary hearings shall be either stenographically reported verbatim or tape recorded, and thereupon transcribed. After the hearing, the reporter shall certify and file with the Regional Hearing Clerk:

(1) The original of the transcript, and

(2) The exhibits received or offered into evidence at the hearing.

(c) The Regional Hearing Clerk shall promptly notify each of the parties of the filing of the certified transcript of proceedings. Any party who desires a copy of the transcript of the hearing may obtain a copy of the hearing transcript from the Regional Hearing Clerk upon payment of costs.

(d) The Presiding Officer shall allow witnesses, parties, and their counsel an opportunity to submit such written proposed corrections of the transcript of any oral testimony taken at the hearing, pointing out errors that may have been made in transcribing the testimony, as are required to make the transcript conform to the testimony. Except in unusual cases, no more than 30 days shall be allowed for submitting such corrections from the day a complete transcript of the hearing becomes available.

§ 124.88 Proposed findings of fact and conclusions; brief.

Within 45 days after the certified transcript is filed, any party may file with the Regional Hearing Clerk proposed findings of fact and conclusions of law and a brief in support thereof. Briefs shall contain appropriate references to the record. A copy of these findings, conclusions, and brief shall be served upon all the other parties and the Presiding Officer. The Presiding Officer, for good cause shown, may extend the time for filing the proposed findings and conclusions and/or the brief. The Presiding Officer may allow reply briefs.

§ 124.89 Decisions.

(a) The Presiding Officer shall review and evaluate the record, including the proposed findings and conclusions, any briefs filed by the parties, and any interlocutory decisions under § 124.90 and shall issue and file his initial decision with the Regional Hearing Clerk. The Regional Hearing Clerk shall immediately serve copies of the initial decision upon all parties (or their counsel of record) and the Administrator.

(b) The initial decision of the Presiding Officer shall automatically become the final decision 30 days after its service unless within that time:

(1) A party files a petition for review by the Administrator pursuant to § 124.91; or

(2) The Administrator *sua sponte* files a notice that he or she will review the decision pursuant to § 124.91.

§ 124.90 Interlocutory appeal.

(a) Except as provided in this section, appeals to the Administrator may be taken only under § 124.91. Appeals from orders or rulings may be taken under this section only if the Presiding Officer, upon motion of a party, certifies those orders or rulings to the Administrator for appeal on the record. Requests to the Presiding Officer for certification must be filed in writing within 10 days of service of notice of the order, ruling, or decision and shall state briefly the grounds relied on.

(b) The Presiding Officer may certify an order or ruling for appeal to the Administrator if:

(1) The order or ruling involves an important question on which there is substantial ground for difference of opinion, and

(2) *Either*: (i) An immediate appeal of the order or ruling will materially advance the ultimate completion of the proceeding; or

(ii) A review after the final order is issued will be inadequate or ineffective.

(c) If the Administrator decides that certification was improperly granted, he or she shall decline to hear the appeal. The Administrator shall accept or decline all interlocutory appeals within 30 days of their submission; if the Administrator takes no action within that time, the appeal shall be automatically dismissed. When the Presiding Officer declines to certify an order or ruling to the Administrator for an interlocutory appeal, it may be reviewed by the Administrator only upon appeal from the initial decision of the Presiding Officer, except when the Administrator determines, upon motion of a party and in exceptional circumstances, that to delay review would not be in the public interest. Such motion shall be made within 5 days after receipt of notification that the Presiding Officer has refused to certify an order or ruling for interlocutory appeal to the Administrator. Ordinarily, the interlocutory appeal will be decided on the basis of the submissions made to the Presiding Officer. The Administrator may, however, allow briefs and oral argument.

(d) In exceptional circumstances, the Presiding Officer may stay the proceeding pending a decision by the Administrator upon an order or ruling certified by the Presiding Officer for an interlocutory appeal, or upon the denial of such certification by the Presiding Officer.

(e) The failure to request an interlocutory appeal shall not prevent taking exception to an order or ruling in an appeal under § 124.91.

§ 124.91 Appeal to the Administrator.

(a)(1) Within 30 days after service of an initial decision, or a denial in whole or in part of a request for an evidentiary hearing, any party or requester, as the case may be, may appeal any matter set forth in the initial decision or denial, or any adverse order or ruling to which the party objected during the hearing, by filing with the Administrator notice of appeal and petition for review. The petition shall include a statement of the supporting reasons and, when appropriate, a showing that the initial decision contains:

(i) A finding of fact or conclusion of law which is clearly erroneous, or

(ii) An exercise of discretion or policy which is important and which the Administrator should review.

(2) Within 15 days after service of a petition for review under paragraph (c)(1) of this section, any other party to the proceeding may file a responsive petition.

(3) Policy decisions made or legal conclusions drawn in the course of denying a request for an evidentiary hearing may be reviewed and changed by the Administrator in an appeal under this section.

(b) Within 30 days of an initial decision or denial or a request for an evidentiary hearing the Administrator may, *sua sponte*, review such decision. Within 7 days after the Administrator has decided under this section to review an initial decision or the denial of a request for an evidentiary hearing, notice of that decision shall be served by mail upon all affected parties and the Regional Administrator.

(c)(1) Within a reasonable time following the filing of the petition for

review, the Administrator shall issue an order either granting or denying the petition for review. When the Administrator grants a petition for review or determines under paragraph (b) of this section to review a decision, the Administrator may notify the parties that only certain issues shall be briefed.

(2) Upon granting a petition for review, the Regional Hearing Clerk shall promptly forward a copy of the record to the Judicial Officer and shall retain a complete duplicate copy of the record in the Regional Office.

(d) Notwithstanding the grant of a petition for review or a determination under paragraph (b) of this section to review a decision, the Administrator may summarily affirm without opinion and initial decision or the denial of a request for an evidentiary hearing.

(e) A petition to the Administrator under paragraph (a) of this section for review of any initial decision or the denial of an evidentiary hearing is, under 5 U.S.C. 704, a prerequisite to the seeking of judicial review of the final decision of the Agency.

(f) If a party timely files a petition for review or if the Administrator *sua sponte* orders review, then, for purposes of judicial review, final Agency action on an issue occurs as follows:

(1) If the Administrator denies review or summarily affirms without opinion as provided in § 124.91(d), then the initial decision or denial becomes the final Agency action and occurs upon the service of notice of the Administrator's action.

(2) If the Administrator issues a decision without remanding the proceeding then the final permit, redrafted as required by the Administrator's original decision, shall be reissued and served upon all parties to the appeal.

(3) If the Administrator issues a decision remanding the proceeding, then final Agency action occurs upon completion of the remanded proceeding, including any appeals to the Administrator from the results of the remanded proceeding.

(g) The petitioner may file a brief in support of the petition within 21 days after the Administrator has granted a petition for review. Any other party may file a responsive brief within 21

days of service of the petitioner's brief. The petitioner then may file a reply brief within 14 days of service of the responsive brief. Any person may file an *amicus brief* for the consideration of the Administrator within the same time periods that govern reply briefs. If the Administrator determines, *sua sponte*, to review an initial Regional Administrator's decision or the denial of a request for an evidentiary hearing, the Administrator shall notify the parties of the schedule for filing briefs.

(h) Review by the Administrator of an initial decision or the denial of an evidentiary hearing shall be limited to the issues specified under paragraph (a) of this section, except that after notice to all parties, the Administrator may raise and decide other matters which he or she considers material on the basis of the record.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS - Final

1. These limitations are to be achieved by the effective date of the permit, and shall remain in effect until permit expiration for outfall Serial Numbers 001 and 002, treated sanitary wastewater.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>PARAMETERS</u>	<u>MONITORING REQUIREMENTS</u>				
	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	<u>Sampling Point</u>
Flow, MGD	Report	Report	Continuous	Recording flow meter & totalizer	Effluent
Biochemical Oxygen Demand (5 Day)	5.0 mg/l	6.0 mg/l	1/week	16-hr. comp.	Effluent
Suspended Solids	5.0 mg/l	6.0 mg/l	1/week	16-hr. comp.	Effluent
Ammonia Nitrogen as N	2.50 mg/l	3.0 mg/l	1/week	16-hr. comp.	Effluent
Total Phosphorus as P	0.40 mg/l	0.50 mg/l	1/week	16-hr. comp.	Effluent
Fecal Coliform Bacteria, N/100 ml	See Item 2 on Page I-2		1/week	Grab	Effluent
pH	See Item 3 on Page I-2		Continuous or hourly grab	Grab	Effluent
Total Residual Chlorine	See Item 7 on Page I-2		Daily	Grab	Effluent
Dissolved Oxygen shall not be less than 6.0 mg/l.			1/week	Grab	Effluent
Chronic Whole Effluent Toxicity	See Item 8 on Page I-3		See Part IV	24-hr. comp.	Effluent

PART I (CONTINUATION)
EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

2. The arithmetic mean of the monthly fecal coliform values, collected during an annual period shall not exceed 200 colonies per 100 ml of effluent sample. Any one sample shall not exceed 800 fecal coliform colonies per 100 ml of effluent sample.
3. The pH of the effluent shall not be less than 6.0 standard units nor greater than 8.5 standard units and shall be monitored continuously. The pH values shall not deviate outside the required range more than 1.0% of the time (7 hours and 26 minutes) in any calendar month and no individual excursion shall exceed 60 minutes. An "excursion" is an unintentional and temporary incident in which the pH value of discharge wastewater exceeds the range set forth in this permit (see 40 CFR 401.17). When hourly grab samples are collected, such samples will be collected during the period for required operator attendance.
4. There shall be no discharge of floating solids or visible foam in other than trace amounts.
5. The effluent shall not cause a visible sheen on the receiving water.
6. Any bypass of the treatment facility which is not included in the effluent monitored above, is to be monitored for flow and all other parameters. For parameters other than flow, at least one grab sample per day shall be monitored. Daily flow shall be monitored or estimated, as appropriate, to obtain reportable data. All monitoring results shall be reported on a Discharge Monitoring Report (DMR) Form (3320-1).
7. INTERIM TOTAL RESIDUAL CHLORINE (TRC) LIMIT: The daily maximum concentration of TRC in the final effluent shall not exceed 0.2 mg/l beginning the effective date of this permit through the operational level of the final TRC limits.

FINAL TRC LIMIT: The daily maximum concentration of total residual chlorine (TRC) in the final effluent shall not exceed 0.01 mg/l and shall be achieved no later than 1 year from the effective date of this permit. This limit is included to prevent toxic effects from chlorine in the receiving waters. This does not provide for a zone of mixing for TRC in the receiving water. If a mixing zone for TRC is granted by FDER and concurred in by EPA, the permittee may apply for a modification of the above TRC limit from EPA.

Testing for total residual chlorine (TRC) shall be conducted according to either the amperometric titration method, the low-level amperometric titration method (if compliance with a permit limitation of 0.02 mg/l or less is to be demonstrated), or the DPD colorimetric method as specified in Section 4500-C1 D., 4500-C1 E., or 4500-C1 G., respectively, Standard Methods for the Examination of Water and Wastewater, 17th Edition. If chlorine is not detected using one of these methods, the permittee shall report on the discharge monitoring report form, the analytical results for chlorine as being measured at less than the detection level for the test method selected; the test method shall also be reported. The permittee shall then be considered to be in compliance with the above daily maximum concentration limit for TRC.

8. The effluent (100%) for outfalls 001 and 002 (each outfall tested separately) shall not be chronically toxic to, or produce adverse physiological or behavioral responses in, aquatic animals. An effluent no observable effect concentration (NOEC) of less than 100% for any test species will constitute a violation of Florida Administrative Code (FAC) Section 17-302.510(3)(p), May 29, 1990, and the terms of this permit. The testing for this requirement shall conform with Part IV of this permit.

B. SLUDGE MANAGEMENT PRACTICES

1. The permittee must sample and analyze the sludge and report to EPA the quantitative data for the 125 priority pollutants listed in 40 CFR 122, Appendix D, Tables II and III. Qualitative data for 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) must also be submitted if the permittee knows or has reason to believe that TCDD is or may be present in the sludge.
 - a. The permittee must submit the above data within 1 year of the effective date of this permit.
2. The permittee must submit within 30 days of the effective date of this permit the sludge production volume (specify if daily or annual; if actual volume is not known, estimate the quantity of sludge being handled and so indicate) and the sludge disposal practice.
3. The permittee shall provide sludge inventory data to the State and EPA, as part of EPA's inventory updates as requested. The data should include, but not be limited to, sludge quantity and characteristics.
4. Reopener. If an applicable "acceptable management practice" or numerical limitation for pollutants in sewage sludge promulgated under Section 405(d)(2) of the Clean Water Act, as amended by the Water Quality Act of 1987, is more stringent than the sludge pollutant limit or acceptable management practice in this permit, or controls a pollutant not limited in this permit, this permit shall be promptly modified or revoked and reissued to conform to the requirements promulgated under Section 405(d)(2). The permittee shall comply with the limitations by no later than the compliance deadline specified in the applicable regulations as required by Section 405(d)(2)(D) of the Clean Water Act.
5. Notice of change in sludge disposal practice. The permittee shall give prior notice to the Regional Administrator of any change planned in the permittee's sludge disposal practice.
6. Cause for modification. 40 CFR 122.62(a)(1) provides that the following is a cause for modification but not revocation and reissuance of permits except when the permittee requests or agrees. (a) Alterations. There are material and substantial changes or additions to the permitted facility or activity which occurred after permit issuance which justify the application of permit conditions that are different or absent in the existing permit.
7. Upon review of information provided by the permittee as required by the above items, or results from an on-site inspection, the permit shall be subject to modification to incorporate appropriate requirements.

C. SCHEDULE OF COMPLIANCE

1. The permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule:

Discharge 001 and 002:

Operational Level Attained.	Effective Date of Permit
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Total Residual Chlorine Final Limit (for 001 and 002):

First Report of Progress	December 1, 1991
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Operational Level Attained	One year from the effective date of this permit.
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2. No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

Part II

STANDARD CONDITIONS FOR NPDES PERMITS

SECTION A. GENERAL CONDITIONS

1. Duty to Comply

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

2. Penalties for Violations of Permit Conditions

Any person who violates a permit condition is subject to a civil penalty not to exceed \$25,000 per day for each violation. Any person who negligently violates any permit condition is subject to criminal penalties of \$2,500 to \$25,000 per day of violation, or imprisonment for not more than 1 year, or both. Any person who knowingly violates permit conditions is subject to criminal penalties of \$5,000 to \$50,000 per day of violation, or imprisonment for not more than 3 years, or both. Also, any person who violates a permit condition may be assessed an administrative penalty not to exceed \$10,000 per violation with the maximum amount not to exceed \$125,000. [Ref: 40 CFR 122.41(a)]

3. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

4. Permit Modification

After notice and opportunity for a hearing, this permit may be modified, terminated, or revoked for cause including, but not limited to, the following:

- a. Violation of any terms or conditions of this permit;
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts;
- c. A change in any conditions that requires either temporary interruption or elimination of the permitted discharge; or
- d. Information newly acquired by the Agency indicating the discharge poses a threat to human health or the environment.

If the permittee believes that any past or planned activity would be cause for modification or revocation and reissuance under 40 CFR 122.62, the permittee must report such information to the Permit Issuing Authority. The submittal of a new application may be required of the permittee. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

5. Toxic Pollutants

Notwithstanding Paragraph A-4, above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation of such pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition and the permittee so notified.

6. Civil and Criminal Liability

Except as provided in permit conditions on "Bypassing" Section B, Paragraph B-3, and "Upsets" Section B, Paragraph B-4, nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

7. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Act.

8. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Act.

9. Property Rights

The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations.

10. Onshore or Offshore Construction

This permit does not authorize or approve the construction of any onshore or offshore physical structures or facilities or the undertaking of any work in any waters of the United States.

11. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

12. Duty to Provide Information

The permittee shall furnish to the Permit Issuing Authority, within a reasonable time, any information which the Permit Issuing Authority may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish to the Permit Issuing Authority upon request, copies of records required to be kept by this permit.

SECTION B. OPERATION AND MAINTENANCE OF POLLUTION CONTROLS

1. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.

2. Need to Halt or Reduce not a Defense

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 condition of this permit.

3. Bypass of Treatment Facilities

a. Definitions

- (1) "Bypass" means the intentional diversion of waste stream from any portion of a treatment facility, which is not designed or established operating mode for the facility

- (2) "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which cause them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

b. Bypass not exceeding limitations.

The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Paragraphs c. and d. of this section.

c. Notice

- (1) Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass; including an evaluation of the anticipated quality and effect of the bypass.
- (2) Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Section D, Paragraph D-8 (24-hour notice).

d. Prohibition of bypass

- (1) Bypass is prohibited and the Permit Issuing Authority may take enforcement action against a permittee for bypass, unless:
- (a) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
- (b) 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 backup equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
- (c) The permittee submitted notices as required under Paragraph c. of this section.

- (2) The Permit Issuing Authority may approve an anticipated bypass, after considering its adverse effects, if the Permit Issuing Authority determines that it will meet the three conditions listed above in Paragraph d.(1) of this section.

4. Upsets

"Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, lack of preventive maintenance, or careless or improper operation. An upset constitutes an affirmative defense to an action brought for non-compliance with such technology based permit limitation if the requirements of 40 CFR 122.41(n)(3) are met.

5. Removed Substances

This permit does not authorize discharge of solids, sludge, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters of the United States unless specifically limited in Part 1.

SECTION C. MONITORING AND RECORDS

Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring points specified in this permit and, unless otherwise specified, before the effluent joins or is diluted by any other wastestream, body of water, or substance. Monitoring points shall not be changed without notification to and the approval of the Permit Issuing Authority.

2. Flow Measurements

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to insure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated and maintained to insure that the accuracy of the measurements are consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than $\pm 10\%$ from the true discharge rates throughout the range of expected discharge volumes. Once-through condenser cooling water flow which is monitored by pump logs, or pump hour meters as specified in Part I of this permit and based on the manufacturer's pump curves shall not be subject to this requirement. Guidance in selection, installation, calibration, and operation of acceptable flow measurement devices can be obtained from the following references:

- (1) "A Guide of Methods and Standards for the Measurement of Water Flow", U.S. Department of Commerce, National Bureau of Standards, NBS Special Publication 421, May 1975, 97 pp. (Available from the U.S. Government Printing Office, Washington, D.C. 20402. Order by SD catalog No. C13.10:421.)
- (2) "Water Measurement Manual", U.S. Department of Interior, Bureau of Reclamation, Second Edition, Revised Reprint, 1974, 327 pp. (Available from the U.S. Government Printing Office, Washington, D.C. 20402. Order by catalog No. 127.19/2:W29/2; Stock No. S/N 24003-0027.)
- (3) "Flow Measurement in Open Channels and Closed Conduits", U.S. Department of Commerce, National Bureau of Standards, NBS Special Publication 484, October 1977, 982 pp. (Available in paper copy or microfiche from National Technical Information Service (NTIS), Springfield, VA 22151. Order by NTIS No. PB-273 535/5ST.)
- (4) "NPDES Compliance Flow Measurement Manual", U.S. Environmental Protection Agency, Office of Water Enforcement, Publication MCD-77, September 1981, 135 pp. (Available from the General Services Administration (8BRC), Centralized Mailing Lists Services, Building 41, Denver Federal Center, Denver, CO 80255.)

3. Monitoring Procedures

Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.

4. Penalties for Tampering

The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate, any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or imprisonment for not more than 2 years, or both.

5. Retention of Records

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report, or application. This period may be extended by the Permit Issuing Authority at any time.

6. Record Contents

Records of monitoring information shall include:

- a. The date, exact place, and time of sampling or measurements;
- b. The individual(s) who performed the sampling of measurements;
- c. The date(s) analyses were performed;
- d. The individual(s) who performed the analyses;
- e. The analytical techniques or methods used; and
- f. The results of such analyses.

7. Inspection and Entry

The permittee shall allow the Permit Issuing Authority, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to;

- a. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit.

- c. Inspect at reasonable time any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
- d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location.

SECTION D. REPORTING REQUIREMENTS

1. Change in Discharge

The permittee shall give notice to the Permit Issuing Authority as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

- a. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source; or
- b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under Section D, Paragraph D-10(a).

2. Anticipated Noncompliance

The permittee shall give advance notice to the Permit Issuing Authority of any planned change in the permitted facility or activity which may result in noncompliance with permit requirements. Any maintenance of facilities, which might necessitate unavoidable interruption of operation and degradation of effluent quality, shall be scheduled during noncritical water quality periods and carried out in a manner approved by the Permit Issuing Authority.

3. Transfer of Ownership or Control

A permit may be automatically transferred to another if:

- a. The permittee notifies the Permit Issuing Authority of the proposed transfer at least 30 days in advance of the proposed transfer date;
- b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and

- c. The Permit Issuing Authority does not notify the existing permittee of his or her intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in paragraph b.

4. Monitoring Reports

See Part III of this permit.

5. Additional Monitoring by the Permittee

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures approved under 40 CFR 136 or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Discharge Monitoring Report (DMR). Such increased frequency shall also be indicated.

6. Averaging of Measurements

Calculations for limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Permit Issuing Authority in the permit.

7. Compliance Schedules

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date. Any reports of noncompliance shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

8. Twenty-Four Hour Reporting

The permittee shall orally report any noncompliance which may endanger health or the environment, within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 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 the exact dates and times; 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 reoccurrence of the noncompliance. The Permit Issuing Authority may verbally waive the written report, on a case-by-case basis, when the oral report is made.

The following violations shall be included in the 24 hour report when they might endanger health or the environment:

- a. An unanticipated bypass which exceeds any effluent limitation in the permit.
- b. Any upset which exceeds any effluent limitation in the permit.

9. Other Noncompliance

The permittee shall report in narrative form, all instances of noncompliance not previously reported under Section D, Paragraphs D-2, D-4, D-7, and D-8 at the time monitoring reports are submitted. The reports shall contain the information listed in Paragraph D-8.

10. Changes in Discharges of Toxic Substances

The permittee shall notify the Permit Issuing Authority as soon as it knows or has reason to believe:

- a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic substance(s) (listed at 40 CFR 122, Appendix D, Table II and III) which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - (1) One hundred micrograms per liter (100 ug/l);
 - (2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony; or
 - (3) Five (5) times the maximum concentration value reported for that pollutant(s) in the application.
- b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant (listed at 40 CFR 122, Appendix D, Table II and III) which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - (1) Five hundred micrograms per liter (500 ug/l);
 - (2) One milligram per liter (1 mg/l) for antimony; or
 - (3) Ten (10) times the maximum concentration value reported for that pollutant(s) in the permit application.

11. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. The application should be submitted at least 180 days before the expiration date of this permit. The Permit Issuing Authority may grant permission to submit an application less than 180 days in advance but not later than the permit expiration date.

Where EPA is the Permit Issuing Authority, the terms and conditions of this permit are automatically continued in accordance with 40 CFR 122.6, only where the permittee has submitted a timely and complete application for a renewal permit and the Permit Issuing Authority is unable through no fault of the permittee to issue a new permit before the expiration date.

12. Signatory Requirements

All applications, reports, or information submitted to the Permit Issuing Authority shall be signed and certified.

a. All permit applications shall be signed as follows:

- (1) For a corporation: by a responsible corporate officer. For the purpose of this Section, a responsible corporate officer means: (1) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or (2) the manager of one or more manufacturing production facilities employing more than 250 persons or having gross annual sales or expenditures exceeding 25 million (in second quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
- (2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
- (3) For a municipality, State, Federal, or other public agency by either a principal executive officer or ranking elected official.

b. All reports required by the permit and other information requested by the Permit Issuing Authority shall be signed by a person described above or by a duly authorized representative of the person. A person is a duly authorized representative only if:

- (1) The authorization is made in writing by a person described above;

- (2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and
- (3) The written authorization is submitted to the Permit Issuing Authority.
- c. Certification. Any person signing a document under paragraphs (a) or (b) of this section shall make the following certification:

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

13. Availability of Reports

Except for data determined to be confidential under 40 CFR Part 2, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Permit Issuing Authority. As required by the Act, permit applications, permits and effluent data shall not be considered confidential.

14. Penalties for Falsification of Reports

The Clean Water Act provides that any person who knowingly makes any false material statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance, or who knowingly falsifies, tampers with, or renders inaccurate any monitoring device or method required to be maintained under the Clean Water Act, shall, upon conviction, be punished by a fine of not more than \$10,000 or by imprisonment for not more than 2 years, or both.

SECTION E. DEFINITIONS

1. Permit Issuing Authority

The Regional Administrator of EPA Region IV or his designee, unless at some time in the future the State receives authority to administer the NPDES program and assumes jurisdiction over the permit; at which time, the Director of the State program receiving the authorization becomes the issuing authority.

2. Act

"Act" means the Clean Water Act (formerly referred to as the Federal Water Pollution Control Act) Public Law 92-500, as amended by Public Laws 95-217, 95-576, 96-483, 97-117, and 100-4, 33 U.S.C. 1251 et seq.

3. Mass/Day Measurements

- a. The "average monthly discharge" is defined and the total mass of all daily discharges sampled and/or measured during a calendar month on which daily discharges are sampled and measured, divided by the number of daily discharges sampled and/or measured during such month. It is therefore, an arithmetic mean found by adding the weights of the pollutant found each day of the month and then dividing this sum by the number of days the tests were reported. The limitation is identified as "Daily Average" or "Monthly Average" in Part I of the permit and the average monthly discharge value is reported in the "Average" column under "Quantity" on the Discharge Monitoring Report (DMR).
- b. The "average weekly discharge" is defined as the total mass of all daily discharges sampled and/or measured during the calendar week on which daily discharges are sampled and measured, divided by the number of daily discharges sampled and/or measured during such week. It is, therefore, an arithmetic mean found by adding the weights of pollutants found each day of the week and then dividing this sum by the number of days the tests were reported. This limitation is identified as "Weekly Average" in Part I of the permit. Enter the highest weekly average of sample measurements obtained during the reporting period in the "Maximum" column under "Quantity" on the DMR.
- c. The "maximum daily discharge" is the total mass (weight) of a pollutant discharged during a calendar day. If only one sample is taken during any calendar day the weight of pollutant calculated from it is the "maximum daily discharge". This limitation is identified as "Daily Maximum", in Part I of the permit and the highest such value recorded during the reporting period is reported in the "Maximum" column under "Quantity" on the DMR.

- d. The "average annual discharge" is a rolling average equal to the arithmetic mean of the mass measured in all discharges sampled and/or measured during consecutive reporting periods which comprise one year. For parameters that are measured at least once per month, the annual average shall be computed at the end of each month and is equal to the arithmetic mean of the monthly average of the month being reported and the monthly average of each of the previous eleven months. This limitation is defined as "Annual Average" in Part I of the permit and the average annual discharge value is reported in the "Average" column under "Quantity" on the DMR.

4. Concentration Measurements

- a. The "average monthly concentration", other than for fecal coliform bacteria, is the sum of the concentrations of all daily discharges sampled and/or measured during a calendar month on which daily discharges are sampled and measured, divided by the number of daily discharges sampled and/or measured during such month (arithmetic mean of the daily concentration values). The daily concentration value is equal to the concentration of a composite sample or in the case of grab samples is the arithmetic mean (weighted by flow value) of all the samples collected during that calendar day. This limitation is identified as "Monthly Average" or "Daily Average" under "Other Limits" in Part I of the permit and the average monthly concentration value is reported under the "Average" column under "Quality" of the DMR.
- b. The "average weekly concentration", other than for fecal coliform bacteria, is the sum of the concentrations of all daily discharges sampled and/or measured during a calendar week on which daily discharges are sampled and measured divided by the number of daily discharges sampled and/or measured during such week (arithmetic mean of the daily concentration values). The daily concentration value is equal to the concentration of a composite sample or in the the case of grab samples is the arithmetic mean (weighted by flow value) of all the samples collected during that calendar day. This limitation is identified as "Weekly Average" under "Other Limits" in Part I of the permit. Enter the highest weekly average of sample measurements obtained during the reporting period in the "Maximum" column under "Quality" on the DMR.

- c. The "maximum daily concentration" is the concentration of a pollutant discharged during a calendar day. It is identified as "Daily Maximum" under "Other Units" in Part I of the permit and the highest such value recorded during the reporting period is reported under the "Maximum" column under "Quality" on the DMR.
- d. The "average annual concentration", other than for fecal coliform bacteria, is a rolling average equal to the arithmetic mean of the effluent or influent samples collected during consecutive reporting periods which comprise one year. For parameters that are measured at least once per month, the annual average shall be computed at the end of each month and is equal to the arithmetic mean of the monthly average of the month being reported and the monthly average of each of the previous eleven months. This limitation is identified as "Annual Average" under "Other Limits" in Part I of the permit and the average annual concentration value is reported under the "Average" column under "Quality" on the DMR.

5. Other Measurements

- a. The effluent flow expressed as million gallons per day (MGD) is the 24 hour average flow averaged monthly. It is the arithmetic mean of the total daily flows recorded during the calendar month. Where monitoring requirements for flow are specified in Part I of the permit the flow rate values are reported in the "Average" column under "Quantity" on the DMR.
- b. An "instantaneous flow measurement" is a measure of flow taken at the time of sampling, when both the sample and flow will be representative of the total discharge.
- c. Where monitoring requirements for pH, dissolved oxygen or fecal coliform bacteria are specified in Part I of the permit, the values are generally reported in the "Quality or Concentration" column on the DMR.
- d. The "average annual discharge" for fecal coliform bacteria shall be calculated in the same manner as that for mass limitations (see item II.E.3.d.).

6. Types of Samples

- a. **Composite Sample:** A "composite sample" is a combination of not less than 8 influent or effluent portions, of at least 100 ml, collected over the full time period specified in Part I.A. The composite sample must be flow proportioned by either time interval between each aliquot or by volume as it relates to effluent flow at the time of sampling or total flow since collection of the previous aliquot. Aliquots may be collected manually or automatically.
- b. **Grab Sample:** A "grab sample" is a single influent or effluent portion which is not a composite sample. The sample(s) shall be collected at the period(s) most representative of the total discharge.

7. Calculation of Means

- a. **Arithmetic Mean:** The "arithmetic mean" of any set of values is the summation of the individual values divided by the number of individual values.
- b. **Geometric Mean:** The "geometric mean" of any set of values is the N^{th} root of the product of the individual values where N is equal to the number of individual values. The geometric mean is equivalent to the antilog of the arithmetic mean of the logarithms of the individual values. For purposes of calculating (geometric mean, values of zero (0) shall be considered to be (1).
- c. **Weighted by Flow Value:** "Weighted by flow value" means the summation of each concentration times its respective flow divided by the summation of the respective flows.

8. Calendar Day

A "calendar day" is defined as the period from midnight of one day until midnight of the next day. However, for purposes of this permit, any consecutive 24-hour period that reasonably represents the calendar day may be used for sampling.

9. Hazardous Substance

A "hazardous substance" means any substance designated under 40 CFR Part 116 pursuant to Section 311 of the Clean Water Act.

10. Toxic Pollutants

A "toxic pollutant" is any pollutant listed as toxic under Section 307(a)(1) of the Clean Water Act.

Part III

Other Requirements

A. Reporting of Monitoring Results

Monitoring results obtained for each calendar month shall be summarized for that month and reported on a Discharge Monitoring Report Form (EPA No. 3320-1), postmarked no later than the 28th day of the month following the completed calendar month. (For example, data for January shall be submitted by February 28.) Signed copies of these, and all other reports required by Section D of Part II, Reporting Requirements, shall be submitted to the Permit Issuing Authority and the State at the following addresses:

Environmental Protection Agency
Region IV
Facilities Performance Branch
Water Management Division
345 Courtland Street, N.E.
Atlanta, GA 30365

If no discharge occurs during the reporting period, sampling requirements of this permit do not apply. The statement "No Discharge" shall be written on the DMR form. If, during the term of this permit, the facility ceases discharge to surface waters, the Permit Issuing Authority and the State shall be notified immediately upon cessation of discharge. This notification shall be in writing.

B. Reopener Clause

1. This permit shall be modified, or alternatively, revoked and reissued, to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 307(a)(2), and 405(d)(2)(D) of the Clean Water Act, as amended, if the effluent standard, limitation, or sludge disposal requirement so issued or approved:
 - a. Contains different conditions or is otherwise more stringent than any condition in the permit; or
 - b. Controls any pollutant or sludge disposal method not addressed in the permit.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Act then applicable.

Whole Effluent Toxicity Testing Program

As required by Part I of this permit, the permittee shall initiate the series of tests described below beginning in July, 1991, to evaluate whole effluent toxicity of the discharge from outfalls 001 and 002 (each outfall tested separately). All test species, procedures and quality assurance criteria used shall be in accordance with Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, EPA/600/4-89/001, or the most current edition(s). The dilution/control water used will be a moderately hard water as described in EPA/600/4-89/001, Section 7 (or the most current edition). A standard reference toxicant quality assurance test shall be conducted concurrently with each species used in the toxicity tests and the results submitted with the discharge monitoring report (DMR). Alternatively, if monthly QA/QC reference toxicant tests are conducted, these results must be submitted with the DMR.

1. a. The permittee shall conduct a daphnid (Ceriodaphnia dubia) Survival and Reproduction Test and a short-term Fathead Minnow (Pimephales promelas) Larval Survival and Growth Test. These tests shall be conducted using a control (0% effluent) and one test concentration consisting of 100% effluent (equivalent to the Receiving Water Concentration (RWC) of the effluent in the receiving water at critical conditions). Unacceptable chronic toxicity will be demonstrated if either test results in a no observable effect concentration (NOEC) less than 100% effluent. All test results shall be statistically analyzed according to Appendix H, EPA/600/4-89/001, or the most current edition.
- b. For each set of tests conducted, a minimum of three different 24-hour composite samples of final effluent shall be collected and used per the sampling schedule of Section 8.1.4.2, EPA/600/4-89/001 (or the most current edition). All test solutions shall be renewed daily. If test results do not meet the acceptability criteria of either Section 12, paragraph 12.10 or Section 10, paragraph 11.11, EPA/600/4-89/001 (or the most current edition), that test shall be repeated. A chronic test will be considered valid only if the acceptability criteria referenced above are met.
- c. If 100% mortality occurs in the RWC test concentration prior to the end of the test and control mortality is acceptable at that time, that test (including the control) shall be terminated with the conclusion that the sample demonstrates unacceptable chronic toxicity.

2. a. The toxicity tests specified above shall be conducted once every 6 months for the duration of the permit, unless notified otherwise by EPA. These tests are referred to as "routine" tests.
- b. Results from "routine" tests shall be reported according to EPA/600/4-89/001, Section 9, Report Preparation (or the most current edition), and shall be submitted as an attachment to the DMR. Such results are to be entered on the DMR in the following manner:

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

3. a. If unacceptable chronic toxicity (a NOEC less than 100% effluent in either test) is found in a "routine" test, the permittee shall conduct two additional toxicity tests based on the specie(s) indicating unacceptable toxicity. For each additional test, the sample collection requirements and test acceptability criteria specified in Section 1(b) must be met for the test to be considered valid. The first test shall begin within two weeks of the end of the "routine" test and the second test shall be conducted two weeks later. If either or both of these tests are invalid, additional test(s) are to be conducted every two weeks until two valid tests are completed (e.g., if the first test is valid and the second test is not, the permittee shall continue to conduct tests until one more test is valid). The additional tests will be used to determine if the toxicity found in the "routine" test is still present.

1. For "routine" tests with unacceptable chronic toxicity, the permittee shall conduct additional daphnid (Ceriodaphnia dubia) Survival and Reproduction and/or short-term fathead minnow (Pimephales promelas) Survival and Growth multi-concentration tests, as appropriate. The tests will be conducted on a control, 100% effluent, and the following % effluent concentrations: 0.25 x the RWC, 0.5 x the RWC, the RWC, and $[\text{the RWC} + 100]/2$. The sample collection requirements specified in Section 1(b) above shall be met.
 - b. Results from additional tests, required due to unacceptable chronic toxicity in the "routine" test, shall be submitted in a single report prepared according to EPA/600/4-89/001, Section 9, Report Preparation (or the most current edition) and submitted within 45 days of completion of the second additional, valid test.
4. For all tests conducted prior to the effective date of the final total residual chlorine limit, the final effluent sample must be artificially dechlorinated before test initiation. For all tests conducted after this date, a final effluent sample must be used.



Jersey *Hampton* S 3.7A

Department of Environmental Protection

Lawton Chiles
Governor

Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

Virginia B. Wetherell
Secretary

SANLANDO UTILITIES CORPORATION
P O BOX 3884
LONGWOOD FL 32791

OCD-DW-96-0574

RECEIVED

JUL 12 1996

ATTENTION HAMPTON P CONLEY
EXECUTIVE VICE-PRESIDENT

SANLANDO UTILITIES CORP.

Seminole County - DW
Wekiva Hunt Club WWTF
Wastewater Permit No. FL0036251
Modification of Conditions

Dear Mr. Conley:

We are in receipt of your request for modification of the permit conditions and the Agricultural Use Plans (AUPs). The conditions are changed to modify or expand approved residuals application sites as follows:

**Generator: Sanlando Utilities Corporation
Wekiva Hunt Club Wastewater Treatment Facility
Agricultural Use Plans for the sites described below**

The following AUPs have been approved for application of residuals:

Site Name	Total Acreage	Application Area (Acres)	Site Location	County
C. H. Cowart Site	1237.7	133.3	Bunnell	Flagler
Henry I	277.2	133.3	-	Flagler
Beasley Property	115.8	115.8	-	Seminole
Clonts Ranch	140.5	133.3	-	Seminole
Kilbee Ranch	565.9	133.3	-	Seminole
Lee Ranches, Inc.	1670.0	133.3	Chuluota	Seminole
Wheeler Ranch	165.5	133.3	Chuluota	Seminole
Henry II	250.4	133.3	-	Volusia
Fore Brothers	381.1	133.3	-	Volusia
Harris Sod I	189.8	72.9	-	Volusia
Harris Sod II	220.3	72.9	-	Volusia
Pell Property	138.7	85.3	-	Volusia
Nolan Ranch	354.1	133.3	-	Volusia
Stokes Site	111.1	111.1	Osteen	Volusia

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

Veino Ranch	56.9	56.9	Osteen	Volusia
Arnold Ranch	160.5	85.3	-	Lake
Whiting Ranch	224.1	133.3	-	Volusia

This approval will extend for one (1) year from the date of this letter. These AUPs will be included in the pending wastewater permit (File #276697) to be issued separately.

An updated AUP must be submitted annually for approval by the Department. A copy of this letter will be attached to your wastewater permit to verify the date for resubmittal. Each annual update shall include the completed residual record keeping Form 17-640.900(3) for the previous year and the current sludge analysis.

Pursuant to Rule 62-640.300(3), F.A.C., the wastewater treatment facility permittee shall be responsible for proper disposal of the residuals it generates.

This letter must be attached to Wastewater Permit #FL0036251 and becomes a part of that permit.

Sincerely,



Christianne C. Ferraro, P.E.
Program Administrator
Water Facilities

DATE: July 3, 1996

CCF/hc/sp
hc

Enclosure: Form 17-640.900 (3)

cc: Wheelabrator Clean Water Systems, Inc.



Department of Environmental Protection

RECEIVED

APR 21 1995

SANLANDO UTILITIES CORP.

Lawton Chiles
Governor

Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

Virginia B. Wetherell
Secretary

SANLANDO UTILITIES CORPORATION
BOX 3884
LONGWOOD FL 32791

ATTENTION HAMPTON P CONLEY
EXECUTIVE VICE PRESIDENT

Seminole County - DW
Wekiva Hunt Club, S.T.P.
Permit No. D059-200447
Reactivate Percolation Ponds

Dear Mr. Conley:

This is in response to your March 24, 1995 letter requesting modification of the referenced operating permit to allow periodic short-term use of the old percolation ponds while performing cleaning and maintenance of the dechlorination/outfall structure. It is understood that up to 180,000 GPD is proposed for discharge to the percolation ponds approximately eight (8) times per year.


The Department has no objections to this request, provided the following procedures are adhered to:

- a) The required weekly 16-hour composite effluent sample shall be scheduled the day before the structure is dewatered and effluent diverted to the percolation ponds.
- b) The quality and quantity of effluent shall be recorded separately on the monthly operating reports for each day discharge to the percolation ponds occurs.
- c) The ground water monitoring network may remain inactive until further notice.

Sanlando Utilities Corporation
April 18, 1995
Page 2

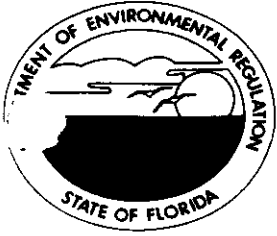
This letter must be attached to permit DO59-200447 and becomes a part of that permit.

Sincerely,


Vivian F. Garfein
Director Of District Management
DATE: April 19, 1995

VFG/lm/dv

cc: Ground Water Section



Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767

Lawton Chiles, Governor

Carol M. Browner, Secretary

NOTICE OF PERMIT ISSUANCE

CERTIFIED MAIL
P 037 854 039

RECEIVED

JUL 17 1992

SANLANDO UTILITIES CORP.

*cc: HC
MAC
SOTH
RAM
GHS 8/7/92*

Sanlando Utilities Corporation
Post Office Box 3884
Longwood, FL 32750

Attention: Hubert Jacques,
Executive Vice President

Seminole County - DW
Wekiva Hunt Club, W.W.T.P.

Dear Mr. Jacques:

Enclosed is Permit Number D059-200447 to operate a domestic wastewater treatment facility issued pursuant to Section(s) 403.087, Florida Statutes.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The petition shall contain the following information; (a) the name, address, and telephone number of each petitioner, the applicant's name and address, the Department permit file number and the county in which the project is proposed; (b) a statement of how and when each petitioner received notice of the Department's action or proposed action; (c) a statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) a statement of the material facts disputed by petitioner, if any; (e) a statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) a statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and (g) a statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

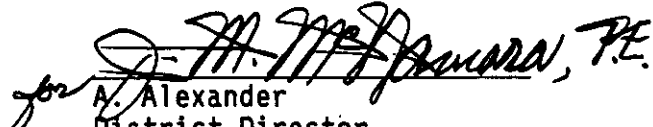
If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

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

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION


for A. Alexander
District Director
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to
§120.52(11), Florida Statutes,
with the designated Department
Clerk, receipt of which is hereby
acknowledged.

[Signature] 7/10/92
Clerk Date

CEK
AA/lm/dv

Copies furnished to:

Terry M. Zaudtke, P.E.
Richard Drew, NPDES, Tallahassee
Nancy Prine
Charles Lee
Doug Maclaughlin, Esquire

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT ISSUANCE and all copies were
mailed before the close of business on 7/14/92 to the listed
persons, by *[Signature]*



Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767

Lawton Chiles, Governor

Carol M. Browner, Secretary

Permittee:
Sanlando Utilities Corporation
Post Office Box 3884
Longwood, FL 32750

I. D. Number: 3059P03243
Permit Number: D059-200447
Expiration Date: 06/27/97
County: Seminole
Project: Wekiva Hunt Club, W.W.T.P.

Attention: Hubert Jacques,
Executive Vice President

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

Operate: A 2.9 MGD design capacity wastewater treatment facility, consisting of three (3) parallel activated sludge package plants with chemical feed (sodium aluminate) facilities for phosphorus control, disinfection by chlorination, tertiary filtration and dechlorination via a sulfur dioxide system. Domestic residuals (sludge) stabilization/processing is by aerobic digestion and two (2) vacuum assisted drying beds. The disinfected/dechlorinated effluent is discharged to surface water via outfall pipe to Sweetwater Creek at the existing north outfall structure.

Location: 144 Ledbury Drive, Wekiva Hunt Club Subdivision, Longwood, Seminole County, Florida.

Treatment Required: Treatment beyond secondary in accordance with the effluent limitations contained in Specific Condition #7, basic disinfection and dechlorination prior to discharge to Sweetwater Creek.

Operators Required: This is a Class B, Category I treatment facility. In accordance with Chapter 17-602, F.A.C. an operator of minimum certification Class C shall be on-site for sixteen (16) hours per day for seven (7) days per week. The lead/chief operator shall be Class B, or higher.

Other Permits: This permit supersedes and replaces D059-164029. This permit also supersedes and replaces D059-200447, originally issued October 23, 1991.

General Conditions are attached to be distributed to the permittee only.

DER FORM 17-1.201(5) Effective November 30, 1982 Page 1 of 8

GENERAL CONDITIONS:

1. *The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.*
2. *This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.*
3. *As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.*
4. *This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.*
5. *This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.*
6. *The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.*
7. *The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
 - (a) *Have access to and copy any records that must be kept under conditions of the permit;*
 - (b) *Inspect the facility, equipment, practices, or operations regulated or required under this permit; and*
 - (c) *Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.*Reasonable time may depend on the nature of the concern being investigated.*
8. *If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
 - (a) *A description of and cause of noncompliance; and*
 - (b) *The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.**

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

PERMITTEE:
Sanlando Utilities Corporation

I. D. Number: 3059P03243
Permit Number: D059-200447
Expiration Date: 06/27/97

Attention: Hubert Jacques,
Executive Vice President

SPECIFIC CONDITIONS:

1. The required compliance sampling for the treatment plant effluent (at the meter box) prior to discharge to Sweetwater Creek shall be as follows:

<u>Parameter</u>	<u>Recording or sampling Frequency</u>
Total Suspended Solids (TSS)*	weekly
CBOD ₅ *	weekly
pH	continuous
Chlorine residual	continuous
Flow	continuous
Fecal coliform	weekly
Nitrate Nitrogen as N	weekly
Total Nitrogen as N	weekly
Ammonia Nitrogen as N	weekly
Total Phosphorus as P	weekly
Dissolved Oxygen	daily
Chlorine Residual following dechlorination (at outfall)	daily

* Influent and effluent

The sampling and analysis required above shall be in accordance with Chapter 17-601, F.A.C. and approved standard methods. Properly executed reports shall be submitted monthly to this office, by the 28th day of the following month.

2. Water quality monitoring shall be performed in Sweetwater Creek/Cove Lake for the six (6) sampling stations identified in Section 4-4 of the Wekiva Hunt Club, S.T.P. Phase III Expansion and Improvement Engineering Report dated March 1989 and an additional station in the Wekiva River where Miami Springs Road bridge is located as follows:

<u>Parameter</u>	<u>Frequency</u>
CBOD ₅	monthly
Chloride	monthly
TOC	monthly
Nitrate Nitrogen as N	monthly
Ammonia Nitrogen as N	monthly
Total Kjeldahl Nitrogen as N	monthly
Total Phosphorus as P	monthly
Ortho Phosphorus as P	monthly
Total Suspended Solids	monthly
Chlorophyll-a	monthly
Alkalinity	monthly
Dissolved Oxygen	monthly
pH	monthly
Temperature	monthly
Sediment Oxygen Demand	annually

Attention: Hubert Jacques,
Executive Vice President

SPECIFIC CONDITIONS:

Monthly sampling must be conducted to ensure that two (2) of the twelve (12) samples are taken during low flow and high flow conditions in Sweetwater Creek and Cove Lake. USGS gauging stations in the Wekiva River will be used to predict high and low flow conditions. In addition, during the first two (2) years of this permit - four (4) sampling events (two (2) each year) shall be conducted within twenty four (24) hours of a significant rainfall event following a period of dry weather of a minimum seven (7) day duration.

Whole Effluent Toxicity Testing shall be conducted in accordance with the requirements of NPDES permit FLO036251, dated February 1, 1991, (see Attachment A) and the results submitted to the Central District Office following each testing period.

3. In order to encourage the conservation of water and the reduction of sewage effluent, and in order to provide a fund for the construction of the improvements described in Paragraphs 3(i) and 3(ii) hereof, Sanlando Utilities Corporation, and any successor owner of the sewage treatment plant which is the subject of the Operating Permit, shall use its best efforts to implement an "inverted rate structure" which shall charge customers an increased rate based upon the amount of water consumed. Beginning when permitted by the Florida Public Service Commission, the rates charged shall be not less than the following schedule:

Charge per 1,000 gallons of water:

Up to 10,000 gallons per month:	\$.34 per 1,000 gallons.
10,000 to 20,000 gallons per month:	\$.50 per 1,000 gallons.
20,000 to 30,000 gallons per month:	\$.65 per 1,000 gallons.
30,000 gallons per month and up:	\$.85 per 1,000 gallons.

It is agreed that the obligation of Sanlando Utilities Corporation to implement such an inverted rate structure shall be subject to the prior approval of the Florida Public Service Commission. Petitioners agree to join with Sanlando Utilities Corporation in preliminary discussions with the staff of the Public Service Commission, and selected individual members of the Commission (to the extent permitted by law), to determine if the Commission and its staff would be receptive to the approval of rate changes such as those specified herein for the purposes of encouraging water conservation, generating capital for the construction of the improvements specified in Subparagraphs (3)(i) and (ii) below, and for the operation and maintenance of reclaimed water processing and distribution facilities. If these preliminary discussions provide positive indications that there is a reasonable likelihood that a formal application for such rate changes (or similar rate changes) will be approved by the Commission, Sanlando will do the following:

- (i) The charges set forth in this paragraph, shall be requested by Sanlando Utilities Corporation in a rate proceeding which Sanlando Utilities Corporation shall initiate no later than nine (9) months subsequent to the effective date of this stipulation. It is agreed by the parties hereto that the rate changes initially sought through the Commission shall be not less than those shown above.

PERMITTEE:
Sanlando Utilities Corporation

I. D. Number: 3059P03243
Permit Number: D059-200447
Expiration Date: 06/27/97

Attention: Hubert Jacques,
Executive Vice President

SPECIFIC CONDITIONS:

- (ii) Sanlando Utilities Corporation shall diligently pursue and advocate these rate changes before the Public Service Commission.
 - (iii) Sanlando Utilities Corporation shall advocate these rate changes pursuant to Section 403.064(6), Florida Statutes, which provides that " The Public Service Commission shall allow utilities which implement reuse projects to recover the full cost of such facilities through their rate structure."
4. SANLANDO UTILITIES CORPORATION, or any successor operating pursuant to the Operating Permit, will do the following:
- (i) By December 31, 1995, improve the Wekiva wastewater plant so that this plant meets all regulatory standards for providing and distributing reclaimed water for golf course irrigation purposes in sufficient quantities to irrigate the Sweetwater Club, Wekiva Hunt Club and Sabal Point Golf courses. Such quantities shall not be less than 1.8 MGD.
 - (ii) By December 31, 1996, have installed distribution lines necessary for the delivery of reclaimed water to the boundary of each of the three (3) golf courses identified in subparagraph (i) above.
 - (iii) In the event that the rate structure of Sanlando Utilities Corporation is not sufficient to fund the construction of improvements by the times required as identified in subparagraphs (i) and (ii) above because the Florida Public Service Commission fails to approve the inverted rate structure outlined in Specific Condition 3 or some alternative rate structure, which will provide the funding for the construction of said improvements, the Department shall provide Sanlando Utilities Corporation, or any successor operating under this permit, with the opportunity to demonstrate to the Department, that it lacks sufficient revenue from customer rates to fund the construction and complete these requirements on the schedule provided herein. Should Sanlando Utilities Corporation, or its successor, satisfy the Department that it lacks sufficient revenue to make these improvements, the Department will grant extensions of time, or such other relief as is appropriate under the circumstances.
5. Sanlando Utilities Corporation and any successor to Sanlando Utilities Corporation, and any successor operating pursuant to this Operating Permit, agrees to install one (1) additional water quality monitoring station to be located within the Wekiva River at a location immediately downstream of the confluence of Sweetwater Creek/Cove Lake and the Wekiva River. The precise location of this monitoring station shall be fixed in consultation with Friends of the Wekiva and Florida Audubon Society. Parameters to be monitored at this location shall be the same as those stated in Specific Condition 2 above.

PERMITTEE:
Sanlando Utilities Corporation

I. D. Number: 3059P03243
Permit Number: D059-200447
Expiration Date: 06/27/97

Attention: Hubert Jacques,
Executive Vice President

SPECIFIC CONDITIONS:

6. A mixing zone for Dissolved Oxygen (DO) is granted for this facility. The zone shall extend from the upstream outfall (East) to a point approximately 1,000 feet downstream from the outfall at the foot bridge off Wild Oak Circle.
7. The facility shall be operated to provide compliance with the following effluent limits at the meter box:

Flow	2.9	MGD annual average
CBOD ₅	5.0	mg/L monthly average
TSS	5.0	mg/L monthly average
NH ₃ as N	2.5	mg/L monthly average
TP as P	0.40	mg/L monthly average
DO	6.0	mg/L daily minimum
8. Monitoring of the existing ground water monitoring wells shall be continued as established in the previously approved Ground Water Monitoring Plan through December 1991.
9. The maintenance and operation log required pursuant to Rule 17-602.360(e), F.A.C., shall be stored on-site in a weather resistant structure.
10. Operational difficulties, which may cause or result in non-compliance with the requirements of this permit, shall be immediately reported to both the local pollution control program and to the Department.
11. The permittee shall submit the prescribed application and supporting data for an operation permit no later than sixty (60) days prior to the expiration date of this permit.
12. Domestic residual (sludge) disposal shall be in accordance with Rule 17-640, F.A.C. Residuals shall be analyzed quarterly and the information submitted to the Department. Agricultural land use plans shall be submitted annually on forms approved by the Department. In accordance with this rule, the permittee is responsible for compliance with the requirements of Department rules as they relate to land application of residuals.
13. The treatment plant effluent shall be adequately chlorinated at all times so as to maintain a minimum 0.5 mg/L total chlorine residual after a minimum contact period of 15 minutes (based on peak hourly flow) or as required to achieve the basic disinfection criteria of Rule 17-600.440(4), F.A.C. Effluent shall be dechlorinated to reduce chlorine residual to not more than 0.01 mg/L prior to discharge to Sweetwater Creek.
14. The permittee will promptly notify the Department upon sale or legal transfer of the permitted facility. In accordance with General Condition #11 of this permit, this permit is transferable only upon Department approval. The new owner must apply, by letter, for a transfer of permit within thirty (30) days.

PERMITTEE:
Sanlando Utilities Corporation

I. D. Number: 3059P03243
Permit Number: D059-200447
Expiration Date: 06/27/97

Attention: Hubert Jacques,
Executive Vice President

SPECIFIC CONDITIONS:


15. The permittee shall submit to the Department, at least (180) days prior to the expiration date of this permit a "Surface Water Impact Summary Report" (SWISR) summarizing water quality impacts and the previous five (5) years water quality monitoring data, in numerical and graphical form and indicating any changes to the operation, processes or loadings to the receiving stream. This data includes all effluent data and any monitoring data which may have been collected on the receiving water.

The Department will evaluate the information submitted to determine if water quality of Sweetwater Creek and/or Cove Lake is being degraded below the water quality standards established for Class III waters. If adverse water quality impacts attributable to the discharge are detected, the Department will require an additional level of treatment and/or implementation of water reuse.

16. The permittee shall harvest the created wetland system south of Wekiva Springs road when the removal efficiency of the plants becomes less than 25% when measured on a yearly basis. To determine removal rates of nitrogen and phosphorus, water quality shall be monitored for total nitrogen and total phosphorus prior to, and exiting the wetland. One (1) year after issuance of this permit and ever twelve (12) months thereafter, the permittee shall review the performance of the system and provide this information (along with any recommendation to harvest) to the Department for review.
17. During the life of this permit, the permittee shall periodically monitor the Sweetwater Creek/Cove Lake system for nuisance plants and in consultation with the Department, will consider selective herbicides which will not harm designated plants. In addition, the Department may require the manual removal of nuisance plants, related to the nutrient loading in the discharge.

ISSUED 7-10-92

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION


A. Alexander
District Director

3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803-3767

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

RECEIVED

JUN 18 1997

SANLANDO UTILITIES CORP.

CERTIFIED MAIL
Z 422 476 196

In the Matter of an
Application for Permit by:
SANLANDO UTILITIES CORPORATION
POST OFFICE BOX 3884
LONGWOOD FL 32791

Seminole County
Wekiva Hunt Club WWTF
Wastewater Permit Application
DEP File Number: 276697

ATTENTION HAMPTON P CONLEY
EXECUTIVE VICE PRESIDENT

INTENT TO ISSUE

The Department of Environmental Protection gives notice of its intent to issue a permit (copy of conditions attached) for the proposed project as detailed in the application specified above, for the reasons stated below.

The applicant, Sanlando Utilities Corporation, applied on August 30, 1995 to the Department of Environmental Protection for a permit to operate the existing 2.9 MGD activated sludge wastewater treatment facility including all ground water and surface water discharge systems. This permit will also authorize the construction of an upgrade to the existing domestic wastewater treatment facility to provide reclaimed water for public access irrigation and to meet Class I reliability and a new slow-rate public access land application system for irrigation of three (3) golf courses located in unincorporated Seminole and Orange Counties. The wastewater treatment facility serves parts of unincorporated Seminole County and is located at 144 Ledbury Drive, Longwood, Seminole County, Florida.

The Department has permitting jurisdiction under Section(s) 403.087 and 403.0885, Florida Statutes, and Chapters 62-4 and 62-620, Florida Administrative Code (F.A.C.). The project is not exempt from permitting procedures. The Department has determined that a domestic wastewater permit is required for the proposed activities.

Under section 403.815 of the Florida Statutes and Rule 62-103.150 of the Florida Administrative Code, you (the applicant) are required to publish at your own expense the enclosed Notice of Intent to Issue Permit. The

notice must be published one time only within 30 days in the legal ad section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of sections 50.011 and 50.031 of the Florida Statutes, in the county where the activity is to take place. Where there is more than one newspaper of general circulation in the county, the newspaper used should be one with significant circulation in the area that may be affected by the permit. If you are uncertain that a newspaper meets these requirements, please contact the Department at the address or telephone number listed below. The applicant must provide proof of publication to the Department, at 3319 Maguire Boulevard, Suite 232, Orlando, FL 32803-3767 within seven days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit.

The Department will issue the permit with the attached conditions unless a timely petition for an administrative hearing is filed under sections 120.569 and 120.57 of the Florida Statutes.

A person whose substantial interests are affected by the proposed permitting decision of the Department may petition for an administrative hearing in accordance with sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Department of Environmental Protection, Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any other person must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. A petitioner must mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes. 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 permit identification number and the county in which the subject matter or activity is located;

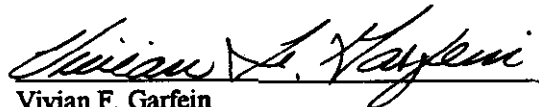
- (b) A statement of how and when each petitioner received notice of the Department action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department action;
- (d) A statement of the material facts disputed by the petitioner, if any;
- (e) A statement of facts that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

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

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

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Vivian F. Garfein

Director of District Management
3319 Maguire Boulevard, Suite 232
Orlando, FL 32803
Phone (407) 894-7555

Date: June 13, 1997

FILING AND ACKNOWLEDGMENT
FILED, on this date, under section
120.52(7), Florida Statutes, with the
designated Department Clerk, receipt of
which is hereby acknowledged.

E. B. Williams 6/13/97
Clerk Date

⁸
VFG/hc/cs

Enclosures: Draft Permit/Notice of Intent

Copies furnished to:
Kenneth C. Crooks, Esq.
J.A. Jurgens, Esq.
Doug Maclaughlin, Esq., FDEP-OGC
Nancy Prine
Wayne Chilton
USEPA-Region IV

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this INTENT TO ISSUE and all copies were mailed by certified mail before the close of business on 6/16/97 to the listed persons by C. Stafford.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTICE OF INTENT TO ISSUE PERMIT

The Department of Environmental Protection gives notice of its intent to issue a permit to Sanlando Utilities Corporation, Post Office Box 3884, Longwood, FL 32791 to operate the existing 2.9 MGD domestic wastewater treatment facility, including all ground water and surface water discharge systems, which serves parts of unincorporated Seminole County, and is located at 144 Ledbury Drive, Longwood, Seminole County, Florida. This permit will also authorize the construction of an upgrade to the existing domestic wastewater treatment facility to provide reclaimed water for public access irrigation and to meet Class I reliability and a new slow-rate public access land application system for irrigation of three (3) golf courses located in unincorporated Seminole and Orange Counties. The Department has considered the effects of the discharge from this facility to ground waters and surface waters and has assigned File Number 276697 to this project.

The Department will issue the permit with the attached conditions unless a timely petition for an administrative hearing is filed under sections 120.569 and 120.57 of the Florida Statutes.

A person whose substantial interests are affected by the proposed permitting decision of the Department may petition for an administrative hearing in accordance with sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Department of Environmental Protection, Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any other person must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. A petitioner must mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes. 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 permit identification number and the county in which the subject matter or activity is located;
- (b) A statement of how and when each petitioner received notice of the Department action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department action;
- (d) A statement of the material facts disputed by the petitioner, if any;
- (e) A statement of facts that the petitioner contends warrant reversal or modification of the Department action;
- (f) A statement of which rules or statutes the petitioner contends require reversal or modification of the Department action; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take.

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

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

The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the Department of Environmental Protection, 3319 Maguire Boulevard, Suite 232, Orlando, Florida, 32803, Telephone Number (407) 894-7555.



Department of Environmental Protection

RECEIVED

JUN 18 1997

Lawton Chiles
Governor

Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

SANLANDO UTILITIES CORP.
DRAFT
Virginia B. Vetherell
Secretary

STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT

PERMITTEE:

Sanlando Utilities Corporation
Mr. Hampton P. Conley
Executive Vice-President
P.O. Box 3884
Longwood, FL 32791

PERMIT NUMBER

FL0036251-01

ISSUANCE DATE

EXPIRATION DATE

TBD

FACILITY LD. NO

FL0036251 (Major)

PATS NUMBER:

59-276697

FACILITY:

Wekiva Hunt Club Wastewater Treatment Facility
144 Ledbury Drive
Seminole County
Longwood, FL 32791
Latitude: 28° 41' 50" N Longitude: 81° 26' 08" 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:

Operate: An existing 2.9 mgd annual average daily flow (aafd) activated sludge domestic wastewater treatment facility consisting of three (3) contiguous package wastewater treatment plants (0.97 mgd design capacity, each), connected in parallel with manual influent screening, aeration, clarification, chemical feed facilities, disinfection by chlorination, tertiary filtration, dechlorination, aerobic digestion of residuals and dewatering by two (2) vacuum assisted drying beds.

Construct: An upgrade to the existing 2.9 mgd aafd activated sludge domestic wastewater treatment facility, to provide reclaimed water for public access irrigation and to meet Class I reliability. New facilities include a chlorine contact chamber, a reclaimed water transfer pump station, a reclaimed water distribution pump station and a 1.0 mg reclaimed water storage tank.

EFFLUENT DISPOSAL:

Surface Water Discharge: An existing 2.9 mgd aafd permitted discharge to Sweetwater Creek thence to Cove Lake (Class III fresh waters) at Discharge Location D001 which discharges at approximately water surface level. The point of discharge is located approximately at latitude 28° 41' 51" N, longitude 81° 25' 54" W.

PERMITTEE: Sanlando Utilities Corporation
Mr. Hampton P. Conley, Exec. Vice-Pres.
P.O. Box 3884
Longwood, FL 32791

PERMIT NUMBER: FL0036251-01
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FACILITY I.D. NO.: FL0036251

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REUSE:

Land Application: An existing 0.40 mgd aadf permitted capacity Part IV rapid rate restricted public access land application system (R001), consisting of four (4) percolation ponds with an approximate total wetted area of 338,000 square feet. Discharge to the percolation ponds shall be in accordance with Conditions IV.22. and IV.23. of this permit. Land application system R001 is located approximately at latitude 28° 41' 51" N, longitude 81° 25' 54" W.

Land Application: Construct: A new slow-rate public access land application system (R002) consisting of a reclaimed water transmission/distribution system for public access irrigation of three (3) golf courses located in unincorporated Seminole and Orange Counties, with an anticipated reuse capacity of 1.1 mgd. Land application system R002 will include the Wekiva, the Sweetwater Country Club and the Sabal Point Golf Courses.

IN ACCORDANCE WITH: The limitations, monitoring requirements and other conditions as set forth in Pages 1 through 30 of this permit including the enclosed Monitoring Discharge Report (DMR). This permit supersedes and replaces Permit DO59-200447 and Federal NPDES Permit No. FL0036251 which are now considered null and void.

PERMITTEE: Sanlando Utilities Corporation
 Mr. Hampton P. Conley, Exec. Vice-Pres.
 P.O. Box 3884
 Longwood, FL 32791

PERMIT NUMBER: FL0036251-01
 EXPIRATION DATE: TBD
 FACILITY I.D. NO.: FL0036251

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 Sweetwater Creek thence to Cove Lake (Class III fresh waters). Such discharge shall be limited and monitored by the permittee as specified below:

Parameter	Units	Max/Min	Effluent Limitations				Monitoring Requirements			Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	
Flow	mgd	Maximum	2.9	-	-	-	Continuous	Recording flow meters and totalizers	EFF-1	See Cond.I.A.4
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	-	5.0	-	6.0	Weekly	16-hour flow proportioned composite	EFD-1	
Total Suspended Solids	mg/L	Maximum	-	5.0	-	6.0	Weekly	16-hour flow proportioned composite	EFD-1	
Fecal Coliform Bacteria	See Permit Condition I.A.5.						Weekly	Grab	EFD-1	
pH	std. units	Range	-	-	-	6.0-8.5	Continuous	Analyzer	EFD-1	Cond.I.A.3.
Total Residual Chlorine (For Disinfection)	mg/L	Minimum	-	-	-	0.5	Continuous	Analyzer	EFA-1	Cond.I.A.3, 6
Total Residual Chlorine (after Dechlorination)	mg/L	Maximum	-	-	-	0.01	Daily	Grab	EFD-1	
Whole Effluent Toxicity	See Condition I.A.7.							24-hour flow proportioned composite	EFD-2	
Nitrate Nitrogen, Total as N	mg/L as N	Report	-	-	-	-	Weekly	16-hour flow proportioned composite	EFD-1	
NH3-Nitrogen, Total as N	mg/L as N	Maximum	-	2.5	-	3.0	Weekly	16-hour flow proportioned composite	EFD-1	
Nitrogen, Total as N	mg/L as N	Report	-	-	-	-	Weekly	16-hour flow proportioned composite	EFD-1	
Phosphorus, Total as P	mg/L as P	Maximum	-	0.4	-	0.5	Weekly	16-hour flow proportioned composite	EFD-1	
Oxygen, Dissolved (DO)	mg/L	Minimum	-	-	-	6.0	Daily	Grab	EFD-1	

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PERMITTEE: Sanlando Utilities Corporation
 Mr. Hampton P. Conley, Exec. Vice-Pres.
 P.O. Box 3884
 Longwood, FL 32791

PERMIT NUMBER: FL0036251-01
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 FACILITY I.D. NO.: FL0036251

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

Monitoring Location Site Number	Description of Monitoring Location
EFA-1	Post disinfection
EFF-1	Submerged probe flow meter at dechlorination tank
EFD-1	Outfall box
EFD-2	End of outfall discharge pipe

3. Hourly measurement of pH and total residual chlorine for disinfection during the period of required operator attendance may be substituted for continuous measurement. [Chapter 62-601, Figure 2, Footnotes 1 and 2, 5-31-93]
4. Recording flow meters and totalizers shall be utilized to measure flow and calibrated at least annually. [62-601.200(17) and .500(6), 5-31-93]
5. The arithmetic mean of the monthly fecal coliform values collected during an annual period shall not exceed 200 per 100 mL of effluent sample. The geometric mean of the fecal coliform values for a minimum of 10 samples of effluent each collected on a separate day during a period of 30 consecutive days (monthly), shall not exceed 200 per 100 mL of sample. No more than 10 percent of the samples collected (the 90th percentile value) during a period of 30 consecutive days shall exceed 400 fecal coliform values per 100 mL of sample. Any one sample shall not exceed 800 fecal coliform values per 100 mL of sample. Note: To report the 90th percentile value, list the fecal coliform values obtained during the month in ascending order. Report the value of the sample that corresponds to the 90th percentile (multiply the number of samples by 0.9). For example, for 30 samples, report the corresponding fecal coliform number for the 27th value of ascending order. [62-600.440(4)(c), 6-8-93]
6. A minimum of 0.5 mg/L total residual chlorine must be maintained for a minimum contact time of 15 minutes based on peak hourly flow. [62-600.440(4)(b), 6-8-93]
7. The permittee shall initiate the series of tests described below beginning in January 1997 to evaluate whole effluent toxicity of the discharge from outfall D001. All test species, procedures and quality assurance criteria used shall be in accordance with Short-term methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, EPA/600/4-91/002, or the most current edition. The control and dilution water will be moderately hard water as described in EPA/600/4-91/002, Table 3. A standard reference toxicant quality assurance chronic toxicity test shall be conducted concurrently with each species used in the toxicity tests and the results submitted with the bioassay report. Alternatively, if monthly QA/QC reference toxicant tests are conducted, these results must be submitted with the bioassay report. Any deviation from the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use.
- i. a. The permittee shall conduct a daphnid, Ceriodaphnia dubia, Survival and Reproduction test and a fathead minnow, Pimephales promelas, Larval Survival and Growth Test. These tests shall be conducted using a control (0% effluent) and one test concentration of 100% effluent. A no observed effect concentration (NOEC) less than

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Mr. Hampton P. Conley, Exec. Vice-Pres.
P.O. Box 3884
Longwood, FL 32791

PERMIT NUMBER: FL0036251-01
EXPIRATION DATE: TBD
FACILITY I.D. NO.: FL0036251

100% effluent will constitute a violation of this permit and Rule 62-302.400(2), F.A.C.
All test results shall be statistically analyzed according to the Appendix in EPA/600/4-91/002, or the most current edition.

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b. For each set of tests conducted, a 24-hour composite sample of final effluent shall be collected and used per the sampling schedule discussed in EPA/600/4-91/002, Section 8. Two additional 24-hour composite samples shall be collected and used according to the protocol as renewal solutions at 48 hours (day 3 of the test) and 96 hours (day 5 of the test).

c. If control mortality exceeds 20% for either species in any test, the test(s) for that species (including the control) shall be repeated. A test will be considered valid only if control mortality does not exceed 20% for either species. If, in any separate grab sample test, 100% mortality occurs prior to the end of the test, and control mortality is less than 20% at that time, that test (including the control) shall be terminated with the conclusion that the sample demonstrates unacceptable acute toxicity. Additionally, test must meet the acceptability criteria for the appropriate test species as defined in EPA/600/4-91/002 Section 13.11 and Section 11.11.

ii. a. The toxicity tests specified above shall be conducted once every twelve months (annually) for the duration of the permit, unless notified otherwise by the Department. These tests are referred to as "routine" tests.

b. Results from "routine" tests shall be reported according to EPA/600/4-91/002, Section 10, Report Preparation (or the most current edition), and shall be submitted to:

Florida Department of Environmental Protection
Central District Office
Florida Dept. of Environmental Protection 3319 Maguire Boulevard Suite 232
Orlando, Florida 32802-3767

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

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

iii. a. If unacceptable toxicity (an NOEC of less than 100% effluent) is found in a "routine" test, the permittee shall conduct three additional tests on the specie(s) indicating unacceptable toxicity.

b. The first additional test shall be conducted using a control (0% effluent) and a minimum of five dilutions: 100%, 50%, 25%, 12.5% and 6.25% effluent. The dilution series may be modified in the second and third test to more accurately identify the toxicity, such that at least two dilutions above (but not greater than 100% effluent) and two dilutions below the target toxicity and a control (0% effluent) are run.

c. For each additional test, the sample collection requirements and the test acceptability criteria specified in Section i above must be met for the test to be

PERMITTEE: Sanlando Utilities Corporation
 Mr. Hampton P. Conley, Exec. Vice-Pres.
 P.O. Box 3884
 Longwood, FL 32791

PERMIT NUMBER: FL0036251-01
 EXPIRATION DATE: TBD
 FACILITY I.D. NO.: FL0036251

I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Continued)

B. Reuse and Land Application Systems

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to direct reclaimed water to Reuse System(s) R001. Such reclaimed water shall be limited and monitored by the permittee as specified below:

Parameter	Units	Max/Min	Reclaimed Water Limitations				Monitoring Requirements			Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	
Flow	mgd	Maximum	0.40	Report	-	-	Continuous	Recording flow meter and totalizer	EFF-2	See Cond.I.B.3.
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	20.0	30.0	45.0	60.0	Weekly	16-hour flow proportioned composite	EFD-1	
Total Suspended Solids	mg/L	Maximum	20.0	30.0	45.0	60.0	Weekly	16-hour flow proportioned composite	EFD-1	
pH	std. units	Range	-	-	-	6.0 to 8.5	Continuous	Analyzer	EFD-1	
Fecal Coliform Bacteria	See Permit Condition I.B.7.						Weekly	Grab	EFD-1	
Total Residual Chlorine (For Disinfection)	mg/L	Minimum	-	-	-	0.5	Continuous	Analyzer	EFA-1	See Cond.I.B.4., 5.
Nitrate (as N)	mg/L	Maximum	-	-	-	12.0	Weekly	16-hour flow proportioned composite	EFD-1	See Cond.I.B.6.

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PERMITTEE: Sanlando Utilities Corporation
 Mr. Hampton P. Conley, Exec. Vice-Pres.
 P.O. Box 3884
 Longwood, FL 32791

PERMIT NUMBER: FL0036251-01
 EXPIRATION DATE: TBD
 FACILITY I.D. NO.: FL0036251

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

Monitoring Location Site Number	Description of Monitoring Location
EFA-1	Post disinfection
EFD-1	Outfall Box
EFF-2	Flow meter to the rapid infiltration basins

3. Recording flow meters and totalizers shall be utilized to measure flow and calibrated at least annually. [62-601.200(17) and .500(6), 5-31-93]
4. 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. Hourly measurement of total residual chlorine for disinfection during the period of required operator attendance may be substituted for continuous measurement. [Chapter 62-601, Figure 2, Footnotes 1 and 2, 5-31-93]
6. Nitrate nitrogen (NO₃) concentration in the water discharged to the percolation ponds shall not exceed 12.0 mg/L to comply with Chapter 62-610, F.A.C. [62-610.510, 1-9-96]
7. The arithmetic mean of the monthly fecal coliform values collected during an annual period shall not exceed 200 per 100 mL of reclaimed water sample. The geometric mean of the fecal coliform values for a minimum of 10 samples of reclaimed water, each collected on a separate day during a period of 30 consecutive days (monthly), shall not exceed 200 per 100 mL of sample. No more than 10 percent of the samples collected (the 90th percentile value) during a period of 30 consecutive days shall exceed 400 fecal coliform values per 100 mL of sample. Any one sample shall not exceed 800 fecal coliform values per 100 mL of sample. Note: To report the 90th percentile value, list the fecal coliform values obtained during the month in ascending order. Report the value of the sample that corresponds to the 90th percentile (multiply the number of samples by 0.9). For example, for 30 samples, report the corresponding fecal coliform number for the 27th value of ascending order. [62-600.440(4)(c), 6-8-93]

PERMITTEE: Sanlando Utilities Corporation
 Mr. Hampton P. Conley, Exec. Vice-Pres.
 P.O. Box 3884
 Longwood, FL 32791

PERMIT NUMBER: FL0036251-01
 EXPIRATION DATE:TBD
 FACILITY I.D. NO.: FL0036251

I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Continued)

B. Reuse and Land Application Systems

8. During the period beginning upon placing the system into operation and lasting through the expiration date of this permit, the permittee is authorized to land apply reclaimed water to Reuse System R002. Such reuse shall be limited and monitored by the permittee as specified below:

Parameter	Units	Max/Min	Reclaimed Water Limitations				Monitoring Requirements			Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	
Flow	mgd	Report	-	-	-	-	Continuous	Recording flow meters and totalizers	EFF-3	See Cond.I.B.11.
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	20.0	30.0	45.0	60.0	Weekly	16-hour flow proportioned composite	EFA-2	
Total Suspended Solids	mg/L	Maximum	-	-	-	5.0	Daily	Grab	EFB-1	
Fecal Coliform Bacteria	See Permit Condition I.B.12.						Daily	Grab	EFA-2	
pH	std. units	Range	-	-	-	6.0 to 8.5	Continuous	Analyzer	EFA-2	See Cond.I.B.10.
Total Residual Chlorine (For Disinfection)	mg/L	Minimum	-	-	-	1.0	Continuous	Analyzer	EFA-2	See Cond.I.B.15.
Turbidity	NTU	Maximum	See Permit Condition I.B.16.				Continuous	Analyzer	EFB-1	

[62-600, 6-8-93], [62-601, 5-31-93], [62-610, 4-2-90]

DRAFT

PERMITTEE: Sanlando Utilities Corporation
 Mr. Hampton P. Conley, Exec. Vice-Pres.
 P.O. Box 3884
 Longwood, FL 32791

PERMIT NUMBER: FL0036251-01
 EXPIRATION DATE: TBD
 FACILITY ID NO: FL0036251

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9. Reclaimed Water samples shall be taken at the monitoring site locations listed in Permit Condition I.B.8. and as described below:

Monitoring Location Site Number	Description of Monitoring Location
EFA-2	Post public access disinfection.
EFF-3	Meter at reuse pump station.
EFB-1	Sampling point after filtration and prior to disinfection.

10. Hourly measurement of pH during the period of required operator attendance may be substituted for continuous measurement. *[Chapter 62-601, Figure 2, Footnotes 1 and 2, 5-31-93]*
11. Recording flow meters and totalizers shall be utilized to measure flow and calibrated at least annually. *[62-601.200(17) and .500(6), 5-31-93]*
12. Over a 30 day period, 75 percent of the fecal coliform values (the 75th percentile value) shall be below the detection limits. Any one sample shall not exceed 25 fecal coliform values per 100 mL of sample. Any one sample shall not exceed 5.0 milligrams per liter of total suspended solids (TSS) at a point before application of the disinfectant. Note: To report the 75th percentile value, list the fecal coliform values obtained during that month in ascending order. Report the value of the sample that corresponds to the 75th percentile (multiply the number of samples by 0.75). For example, for 30 samples, report the corresponding fecal coliform value for the 23rd value of ascending order. *[62-600.440(5)(f), 6-8-93]*
13. Prior to placing in service the initial part, portion, or phase of the public access reuse system R002, the permittee shall submit to the Department for review and approval, an operating protocol. The operating protocol shall be prepared in accordance with the requirements of Rule 62-610.320(6)(d), F.A.C.. *[62-610.463(2), 1-9-96]*
14. Prior to placing in service the initial part, portion, or phase of the public access reuse system R002, the permittee shall submit to the Department for review and approval, documentation of controls on individual users (golf courses) of reclaimed water through detailed agreements (including copy of the agreement). *[62-610.491(c), 1-9-96]*
15. The minimum total chlorine residual shall be limited as described in the approved operating protocol, such that the permit limitation for fecal coliform bacteria will be achieved. In no case shall the total chlorine residual be less than 1.0 mg/L. *[62-600.440(5)(b) and (6)(b), 6-8-93]*
16. The maximum turbidity shall be limited as described in the approved operating protocol, such that the permit limitations for total suspended solids and fecal coliforms will be achieved. *[62-610.463, 4-2-90]*

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C. OTHER LIMITATIONS AND MONITORING AND REPORTING REQUIREMENTS

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

Parameter	Units	Max/Min	Limitations				Monitoring Requirements			Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	
Flow	mgd	Maximum	2.9	-	-	-	Continuous	Flow meters	INF-1	See Cond.I.C.4
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Report	-	Report	-	-	Weekly	16-hour flow proportioned composite	INF-2	See Cond.I.C.3
Total Suspended Solids	mg/L	Report	-	Report	-	-	Weekly	16-hour flow proportioned composite	INF-2	See Cond.I.C.3

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2. Samples shall be taken at the monitoring site locations listed in Permit Condition 4 and as described below:

Monitoring Location Site Number	Description of Monitoring Location
INF-1	The sum of EFF-1, EFF-2 and EFF-3
INF-2	Inflow Splitter Box

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. Flow meters shall be utilized to measure flow and calibrated at least annually. [62-601.200(17) and .500(6), 5-31-93]
5. Parameters which must be monitored as a result of a surface water discharge shall be analyzed using a sufficiently sensitive method in accordance with 40 CFR Part 136. Parameters which must be monitored as a result of a ground water discharge (ie., underground injection or land application system) shall be analyzed in accordance with Chapter 62-601, F.A.C. [62-620.610(18), 11-29-94]
6. The permittee shall provide safe access points for obtaining representative influent, reclaimed water, and effluent samples which are required by this permit. [62-601.500(5), 5-31-93]
7. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department on a monthly basis 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]

Note: Enclosed for your use is a complementary computer diskette containing a copy of all DMR's created using Microsoft Word 6. As required above, the permittee must still submit hard copies of these reports in lieu of a loaded diskette.

8. During the period of operation authorized by this permit, reclaimed water or effluent shall be monitored annually for the primary and secondary drinking water standards contained in Chapter 62-550, F.A.C., (except for turbidity, total coliforms, color, and corrosivity). Twenty-four hour composite samples shall be used to analyze reclaimed water or effluent for the primary and secondary drinking water standards. These monitoring results shall be reported to the Department annually on the Reclaimed Water or Effluent Analysis Report, Form 62-601.900(4), or in another format if requested by the permittee and if approved by the Department as being compatible with data entry into the Department's computer system. During years when a permit is not renewed, a certification stating that no new non-domestic wastewater dischargers have been added to the collection system since the last reclaimed water or effluent analysis was conducted may be submitted in lieu of the report. The annual reclaimed water or effluent analysis report or the certification shall be completed and submitted in a timely manner so as to be received by the

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Department's Central District Office by April 1st. of each year. [62-601.300(4), 5-31-93][62-601.500(3), 5-31-93]

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

Florida Department of Environmental Protection
Central District Office
Florida Dept. of Environmental Protection 3319 Maguire Boulevard Suite 232
Orlando, Florida 32803-3767

Phone Number - (407) 894-7555
FAX Number - (407) 897-2966

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D. SWEETWATER CREEK/COVE LAKE WATER QUALITY MONITORING REQUIREMENTS

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, water quality monitoring shall be performed by the permittee in Sweetwater Creek/Cove Lake as well as the Wekiva River as specified below:

Parameter	Units	Max/Min	Effluent Limitations				Monitoring Requirements				Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number		
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	-	-	-	-	Report	Monthly	Grab	Each sampling station	I.D.2., I.D.3	
Chloride	mg/L	-	-	-	-	Report	Monthly	Grab	Each sampling station	I.D.2., I.D.3	
Total Organic Carbon (TOC)	mg/L as C	-	-	-	-	Report	Monthly	Grab	Each sampling station	I.D.2., I.D.3.	
Nitrate Nitrogen	mg/L as N	-	-	-	-	Report	Monthly	Grab	Each sampling station	I.D.2., I.D.3.	
NH ₃ -Nitrogen, Total as N	mg/L as N	-	-	-	-	Report	Monthly	Grab	Each sampling station	I.D.2., I.D.3.	
Total Kjeldahl Nitrogen	mg/L as N	-	-	-	-	Report	Monthly	Grab	Each sampling station	I.D.2., I.D.3.	
Phosphorus, Total as P	mg/L as P	-	-	-	-	Report	Monthly	Grab	Each sampling station	I.D.2., I.D.3.	
Ortho-Phosphorus, Total as P	mg/L as P	-	-	-	-	Report	Monthly	Grab	Each sampling station	I.D.2., I.D.3.	
Total Suspended Solids	mg/L	-	-	-	-	Report	Monthly	Grab	Each sampling station	I.D.2., I.D.3.	
Chlorophyll-a	mg/m ³	-	-	-	-	Report	Monthly	Grab	Each sampling station	I.D.2., I.D.3.	
Alkalinity	mg/L as CaCO ₃	-	-	-	-	Report	Monthly	Grab	Each sampling station	I.D.2., I.D.3.	
Oxygen, Dissolved (DO)	mg/L	-	-	-	-	Report	Monthly	Grab	Each sampling station	I.D.2., I.D.3.	
pH	std. units	-	-	-	-	Report	Monthly	Grab	Each sampling station	I.D.2., I.D.3.	
Temperature	°(C)	-	-	-	-	Report	Monthly	Grab	Each sampling station	I.D.2., I.D.3.	
Sediment Oxygen Demand	mg/m ³ /d	-	-	-	-	Report	Annually	Grab	Each sampling station	I.D.2., I.D.3.	

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

Monitoring Location Site Number	Description of Monitoring Location
SWB-1	Station #1: 300' upstream of the deactivated outfall D002 (Background Sweetwater Creek).
SWD-2	Station #2: 2400' downstream of outfall D001, ±200' upstream of the southernmost tributary that enters from the creek from the east.
SWD-3	Station #3: 1000' upstream of the Wekiva Springs Road bridge.
SWD-4	Station #4: Downstream side of the Wekiva Springs Road bridge, 200' downstream of the northernmost tributary that enters from the west.
SWD-5	Station #5: North End of Cove Lake at the discharge culvert to Wekiva Marina.
SWD-6	Station #6: Weir structure located at River Bend Road (N. Weir).
SWB-7	Station #7: Miami Springs Road bridge, upstream of confluence with Sweetwater Creek (Background Wekiva River).
SWD-8	Station #8: Wekiva River, downstream of Sweetwater Creek discharge.

3. Monthly sampling shall be conducted to ensure that two (one sample for each extreme) of the twelve (12) samples are taken during low flow and high flow conditions in Sweetwater Creek and Cove Lake. USGS gauging stations in the Wekiva River will be used to predict high and low flow conditions.

II. RESIDUALS MANAGEMENT REQUIREMENTS

Basic Management Requirements

- The method of residuals use or disposal by this facility is land application.
- 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]
- The domestic wastewater residuals for this facility are classified as Class B.
- 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]
- The permittee shall sample and analyze the residuals at least once every 3 months. All samples shall be representative and shall be taken after final treatment of the residuals but before use or disposal. Sampling and analysis shall be in accordance with the U.S. Environmental Protection Agency publication - POTW Sludge Sampling and Analysis Guidance Document, 1989. The following parameters shall be sampled and analyzed:

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

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

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

Agricultural Sites

7. Class B residuals shall not be used on unrestricted access areas. [62-640.600(6)(b), 3-1-91]
8. Class B residuals application shall be in accordance with the Agricultural Use Plan approved by the Department for this facility. [62-640.300(1), 3-1-91]
9. Root crops, and fruits and vegetables which touch the soil and which are to be consumed raw shall not be grown on the application site for 18 months after the last application of Class B residuals. [62-640.600(6)(c), 3-1-91]
10. Fruits and vegetables which do not touch the soil and which are to be consumed raw shall not be harvested from the application site for 30 days following the last application of Class B residuals. Orchard tree crops, which do not come in contact with the residuals due to the application method, are exempted. This exemption does not apply to orchard tree crops which have fallen to the ground before harvesting. [62-640.600(6)(d), 3-1-91]
11. Pasture vegetation on the application site shall not be cut or used for grazing by livestock for 30 days following the last application of Class B residuals. [62-640.600(6)(e), 3-1-91]
12. The public shall be restricted from the application area for 12 months after the last application of Class B residuals. [62-640.600(6)(f), 3-1-91]

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13. The wastewater treatment facility permittee shall apply for a minor permit revision on DEP Form 62-620.910(9) for new, modified, or expanded residuals land application sites. The facilities permit shall be revised to include the new or revised Agricultural Use Plan(s) prior to application of residuals to the new, modified, or expanded sites. The current Agricultural Use Plan(s) identifies residuals landspreading on the following sites: [62-620.330, 11-29-94]

Site Name	Application Area (Acres)	Site Location	
		City	County
C. H. Cowart Site	133.3	Bunnell	Flagler
Henry I	133.3	-	Flagler
Beasley Property	115.8	-	Seminole
Clonts Ranch	133.3	-	Seminole
Kilbee Ranch	133.3	-	Seminole
Lee Ranches, Inc.	133.3	Chuluota	Seminole
Wheeler Ranch	133.3	Chuluota	Seminole
Henry II	133.3	-	Volusia
Fore Brothers	133.3	-	Volusia
Harris Sod I	72.9	-	Volusia
Harris Sod II	72.9	-	Volusia
Pell Property	85.3	-	Volusia
Nolan Ranch	133.3	-	Volusia
Stokes Site	111.1	Osteen	Volusia
Veino Ranch	56.9	Osteen	Volusia
Arnold Ranch	85.3	-	Lake
Whiting Ranch	133.3	-	Volusia

14. Annual residuals application rates shall not exceed the agronomic rates based on the nitrogen requirements of the site vegetation in accordance with the approved Agricultural Use Plan. [62-640.700(3)(d), 3-1-91]
15. Residuals shall be applied with techniques and equipment to assure uniform application over the site. [62-640.700(3)(n), 3-1-91]
16. The pH of the domestic wastewater residuals soil mixture shall be 6.5 or greater at the time domestic wastewater residuals are applied. At a minimum, testing shall be done annually. [62-640.700(3)(h), 3-1-91]
17. The permittee shall maintain records of application areas and application rates on DEP Form 62-640.900(3) and shall have these records available for inspection upon request by the Department or the appropriate Local Environmental Program. These records shall include:
- Date of application of the residuals,
 - Location of the residuals application site,
 - Amount of residuals applied or delivered,
 - Identification of specific areas of the site where residuals were applied and acreage of that area,
 - Method of incorporation of residuals (if any),
 - Water table level at time of application, and
 - Concentration of nitrogen and heavy metals in the residuals, percent solids, and date of last analysis.

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

III. GROUND WATER MONITORING REQUIREMENTS

1. During the period of operation authorized by this permit, the permittee shall sample ground water in accordance with this permit and the approved ground water monitoring plan prepared in accordance with Rule 62-522.600, F.A.C. [62-522.600, 4/14/94]
2. The following monitoring wells shall be sampled quarterly for Land Application System R001:

Monitoring Location Site Number	Depth (Feet)	Aquifer Monitored	Well Type	New or Existing
W-1	20	Surficial	Intermediate	Existing
W-2	20	Surficial	Background	Existing
W-3	20	Surficial	Compliance	Existing
W-4	20	Surficial	Compliance	Existing

[62-522.600, 4-14-94][62-610.463,1-9-96]

3. The following parameters shall be analyzed for each of the monitoring wells identified in the Permit Condition III.1:
 - a. Water level (field measurement)
 - b. Nitrate (as N)
 - c. Total dissolved solids
 - d. Chloride
 - e. Fecal Coliform
 - f. pH
 - g. Turbidity

[62-522.600 (11) (b), 4-1-94] [62-601.300(3), 62-601.700, and Figure 3 of 62-601, 5-31-93]

4. Ground water monitoring wells shall be purged prior to sampling to obtain representative samples. [62-601.700(5), 5-31-93]
5. In accordance with Part D of Form 62-620.910(10), water levels shall be recorded before purging wells for sample collection. Elevation references shall include the top of the well casing and land surface at each well site (NVGD) at a precision of plus or minus 0.1 foot. [62-610.424(3), 4-2-94]
6. Ground water monitoring parameters shall be analyzed in accordance with Chapter 62-601, F.A.C. [62-620.610(18), 11-29-94]

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7. Analyses shall be conducted on un-filtered samples, unless filtered samples have been approved by the Department as being more representative of ground water conditions.
8. Ground water monitoring test results shall be submitted on Part D of Form 62-620.910(10). Results shall be submitted with the April, July, October and January DMRs for each year during the period of operation allowed by this permit. [62-522.600(10) and (11)(b), 4/14/94] [62-601.300(3), 62.601.700, and Figure 3 of 62-601] [62-620.610(18), 11-29-94]
9. If a monitoring well becomes damaged or cannot be sampled for some reason, the permittee shall notify the Department with a written report within seven days detailing the circumstances and remedial measures taken or proposed. Replacement of monitoring wells shall be approved in advance by the Department.
10. Note: the facility is not required to provide an annual summary report of ground water monitoring data.

IV. ADDITIONAL REUSE AND LAND APPLICATION REQUIREMENTS

Part III Public Access System(s)

1. The following use of reclaimed water is authorized and required within this general service area: golf course irrigation.
2. This reuse system includes the following major users (i.e., using 0.1 mgd or more of reclaimed water) with a combined anticipated reuse capacity of 1.1 mgd:

User Name	User Type
Wekiva Golf Course	Golf Courses
Swetwater Country Club Golf Course	Golf Courses
Sabal Point Golf Course	Golf Courses

[62-610.800(5), 1-2-96, 62-620.630(10)(b), 11-29-94]

3. All ground water quality criteria specified in Chapter 62-520, F.A.C., shall be met at the edge of the zone of discharge. For major users of reclaimed water (i.e., using 0.1 mgd or more), the zone of discharge shall extend horizontally 100 feet from the application site or to the user's property line, whichever is less, and vertically to the base of the surficial aquifer. For other users, the zone of discharge shall extend horizontally to the boundary of the general service area identified in the attached map and vertically to the base of the surficial aquifer. [62-520.200(23), 4-14-94] [62-522.400 and 62-522.410, 4-14-94]
4. New major users of reclaimed water (i.e., using 0.1 mgd or more) may be added to the reuse system using the general permit described in Rule 62-610.890, F.A.C., if the requirements in this rule are complied with. Application for use of this general permit shall be made using Form 62-610.30 0(4)(a)1. [62-610.890, 1-9-96]
5. The treatment facilities shall be operated in accordance with the approved operating protocol. Only reclaimed water that meets the criteria established in the approved operating

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protocol may be released to system storage or to the reuse system(s). Reclaimed water that fails to meet the criteria in the approved operating protocol shall be directed to reject storage for subsequent additional treatment or disinfection. The operating protocol shall be reviewed and updated periodically (at least once each year) to ensure continuous compliance with the minimum treatment and disinfection requirements. Updated operating protocols shall be submitted to the Department's Central District Office for review and approval with the application for permit renewal. [62-610.320(6), 1-9-96]

6. Cross-connections to the potable water system are prohibited. [62-610.469(7), 1-9-96]
7. A cross-connection control program shall be implemented and/or remain in effect within the areas where reclaimed water will be provided for use. [62-610.469(7), 1-9-96]
8. Maximum obtainable separation of reclaimed water lines and potable water lines shall be provided and the minimum separation distances specified in Rule 62-610.469(7), F.A.C., shall be provided. Reuse facilities shall be color coded or marked. Underground piping which is not manufactured of metal and concrete pipe shall be color coded Pantone Purple 522C using light stable colorants. Underground metal and concrete pipe shall be color coded or marked using purple as a predominant color. [62-610.469(7), 1-9-96]
9. In constructing reclaimed water distribution piping, the permittee shall maintain a 75-foot setback distance from a reclaimed water transmission facility to public water supply wells. No setback distances are required to other potable water supply wells or to any nonpotable water supply wells. [62-610.471(3), 1-9-96]
10. A setback distance of 75 feet shall be maintained between the edge of the wetted area and potable water supply wells, unless the utility adopts and enforces an ordinance prohibiting potable water supply wells within the reuse service area. No setback distances are required to any nonpotable water supply well, to any surface water, to any developed areas, or to any private swimming pools, hot tubs, spas, saunas, picnic tables, barbecue pits, or barbecue grills. [62-610.471(1), (2), (5), and (7), 1-9-96]
11. Reclaimed water shall not be used to fill swimming pools, hot tubs, or wading pools. [62-610.469(4), 1-9-96]
12. Low trajectory nozzles, or other means to minimize aerosol formation shall be used within 100 feet from outdoor public eating, drinking, or bathing facilities. [62-610.471(6), 1-9-96]
13. A setback distance of 100 feet shall be maintained from indoor aesthetic features using reclaimed water to adjacent indoor public eating and drinking facilities. [62-610.471(8), 1-9-96]
14. The public shall be notified of the use of reclaimed water. This shall be accomplished by posting of advisory signs in areas where reuse is practiced, notes on scorecards, or other methods. [62-610.468(2), 1-9-96]
15. Reclaimed water shall only be released to the system storage or reuse system during periods of operator attendance in compliance with the approved operating protocol. [62-610.462(2) 1-9-96]
16. The permittee shall submit an annual report of reclaimed water utilization using Form 62-610.300(4)(a)2 by January 1 of each year. [62-610.870(3), 1/09/96]

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Part IV Rapid-rate Land Application System(s)

17. All ground water quality criteria specified in Chapter 62-520, F.A.C., shall be met at the edge of the zone of discharge. The zone of discharge for this project shall extend horizontally 100 feet from the site or to the site property line, whichever is less, and vertically to the base of the surficial aquifer. No zone of discharge shall be allowed for other ground water criteria. [62-610.625, 1/9/96] [62-520.200(23), 4/14/94] [62-522.400 and 62-522.410, 4/14/94]
18. The annual average hydraulic loading rate shall be limited to a maximum of 1.9 inches per day (as applied to the entire bottom area). [62-610.523(3), 4/2/90]
19. Rapid infiltration basins shall be routinely maintained to control vegetation growth and to maintain percolation capability by scarification or removal of deposited solids. Basin bottoms shall be maintained to be level. [62-610.523(6), 1/9/96]
20. Routine aquatic weed control and regular maintenance of storage pond embankments and access areas are required. [62-610.515 and 62-610.414, 1/9/96]
21. Overflows from emergency discharge facilities on storage ponds or on infiltration ponds, basins, or trenches shall be reported as an abnormal event to the Department's Central District Office within 24 hours of an occurrence as an abnormal event. The provisions of Rule 62-610.800(9), F.A.C., shall be met. [62-610.800(9), 1/9/96]
22. Discharge to the percolation ponds is limited to 0.4 mgd aadf. If discharge to the percolation ponds causes operational problems such as berm seepage or overflow due to insufficient bottom percolation, the permittee shall cease the discharge and notify the Department as required by Condition IX.20. The permittee shall then prepare a hydraulic loading test protocol to determine an appropriate hydraulic loading and submit such protocol for Department review and approval prior to recommencing any discharge to the percolation ponds.
23. The loading test preparation and submission addressed in Condition IV.22., shall be accomplished by the Permittee for Department approval of any increase in the permitted capacity of the percolation ponds beyond 0.4 mgd aadf.
24. The existing underdrain system shall remain plugged and inoperable.

V. OPERATION AND MAINTENANCE REQUIREMENTS

Staffing Requirements

1. During the period of operation authorized by this permit, the wastewater facilities shall be operated under the supervision of a(n) operator(s) certified in accordance with Chapter 61E12-41, F.A.C. In accordance with Chapter 62-699, F.A.C., this facility is a Category I, Class B facility and, at a minimum, operators with appropriate certification must be on the site as follows:

A Class C or higher operator 16 hours/day for 7 days/week. The lead operator must be a Class B operator, or higher.
[62-699, 5-20-94] [62-620.630(3), 11-29-94] [62-699.310, 5-20-92] [62-610.462(2), 4-2-90]

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

Capacity Analysis Report and Operation and Maintenance Performance Report Requirements

3. An updated capacity analysis report shall be submitted to the Department with the application for renewal of this permit. The updated capacity analysis report shall be prepared in accordance with Rule 62-600.405, F.A.C. *[62-600.405(5), 6-8-93]*
4. The application to renew this permit shall include a detailed operation and maintenance performance report prepared in accordance with Rule 62-600.735, F.A.C. *[62-600.735(1), 6-8-93]*

Recordkeeping Requirements

5. The permittee shall maintain the following records and make them available for inspection on the site of the permitted facility:
 - a. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation and a copy of the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;
 - b. Copies of all reports required by the permit for at least three years from the date the report was prepared;
 - c. Records of all data, including reports and documents, used to complete the application for the permit for at least three years from the date the application was filed;
 - d. Monitoring information, including a copy of the laboratory certification showing the laboratory certification number, related to the residuals use and disposal activities for the time period set forth in Chapter 62-640, F.A.C., for at least three years from the date of sampling or measurement;
 - e. A copy of the current permit;
 - f. A copy of the current operation and maintenance manual as required by Chapter 62-600, F.A.C.;
 - g. A copy of the facility record drawings;
 - h. Copies of the licenses of the current certified operators; and
 - i. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date of the logs or schedules. The logs shall, at a minimum, include identification of the plant; the signature and certification number of the operator(s) and the signature of the person(s) making any entries; date and time in and out; specific operation and maintenance activities; tests performed and samples taken; and major repairs made. The logs shall be maintained on-site in a location accessible to

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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]

6. The permittee shall harvest the created wetland system south of Wekiva Springs road when the removal efficiency of the plants becomes less than 25% when measured on a yearly basis. To determine removal rates of nitrogen and phosphorus, water quality shall be monitored for total nitrogen and phosphorus prior to, and exiting the wetland. The permittee shall review the performance of the system and provide this information (along with any recommendation to harvest) to the Department for review.
7. During the life of this permit, the permittee shall periodically monitor the Sweetwater Creek/Lake Cove system for nuisance plants and in consultation with the Department, will consider selective herbicides which will not harm designated plants. In addition, the Department may require the manual removal of nuisance plants, related to the nutrient loading in the discharge.

VI. COMPLIANCE SCHEDULES

1. The following construction schedule for the upgrade of the wastewater treatment facility and the unrestricted public access reuse system shall be followed:

Implementation Step		Completion Date
1	Complete the final design of the plant and reuse force main	September 1997
2	Start construction of upgrade to the facility and reuse force main	May 1998
3	End construction of upgrade to the facility and reuse force main	July 1999
4	Start reuse system testing	July 1999
5	End reuse system testing	September 1999
6	Start up reuse system	December 1999

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

2. Beginning ninety (90) days from the issuance date of this permit, and every ninety (90) days thereafter, until start up of the reuse system, the permittee shall submit to the Department quarterly status reports on the progress of the final design, construction and implementation of the proposed plant upgrade and of the reuse system.
3. Extensions to the schedule contained in Condition VI.1. may be granted by the Department upon written request by the Permittee and demonstration that any delays encountered are beyond the ability of the Permittee to control and that substantial progress has been achieved in implementing the reuse program.
4. The Permittee will provide copies to the Department of any correspondence it has with the Public Service Commission regarding the planning, financing and implementation of the reuse program.

VII. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

This section is not applicable to this facility.

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VIII. OTHER SPECIFIC CONDITIONS

1. If the permittee wishes to continue operation of this wastewater facility after the expiration date of this permit, the permittee shall submit an application for renewal, using Department Forms 62-620.910(1) and (2), no later than one-hundred and eighty days (180) prior to the expiration date of this permit. *[62-620.410(5), 11-26-94]*
2. The facilities shall comply with any conditions that the Secretary of the Army (United States Army Corps of Engineers) considers necessary to ensure that navigation and anchorage will not be substantially impaired. *[62-620.620(1)(q), 11-29-94]*
3. In the event that the treatment facilities or equipment no longer function as intended, are no longer safe in terms of public health and safety, or odor, noise, aerosol drift, or lighting adversely affects neighboring developed areas at the levels prohibited by Rule 62-600.400(2)(a), F.A.C., corrective action (which may include additional maintenance or modifications of the permitted facilities) shall be taken by the permittee. Other corrective action may be required to ensure compliance with rules of the Department. *[62-600.410(8), 6-8-93]*
4. The 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 shall be enclosed with a fence or otherwise provided with features to discourage the entry of animals and unauthorized persons. *[62-600.400(2)(b), 6-8-93]*
8. Screenings and grit removed from the wastewater facilities shall be collected in suitable containers and hauled to a Department approved Class I landfill or to a landfill approved by the Department for receipt/disposal of screenings and grit. *[62-7.540, 12-10-85]*

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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]*

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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]*

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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.

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- 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]

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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;

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3. The permittee submitted notice of the upset as required in Permit Condition IX. 20. of this permit; and
 4. The permittee complied with any remedial measures required under Permit Condition IX. 5. of this permit.
- b. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.
- c. Before an enforcement proceeding is instituted, no representation made during the Department review of a claim that noncompliance was caused by an upset is final agency action subject to judicial review.

[62-620.610(23), 11-29-94]

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

Vivian F. Garfein
Director of District Management

DATE: _____

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

DRAFT
 REPORT: Monthly
 GROUP: Domestic

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: Sanlando Utilities Corporation
 MAILING ADDRESS: P.O. Box 3884
 Longwood, FL 32791

PERMIT NUMBER: FL0036251-01
 MONITORING PERIOD From: _____
 LIMIT: Final
 CLASS SIZE: Major

FACILITY: Wekiva Hunt Club Wastewater Treatment Facility
 LOCATION: 144 Ledbury Drive
 Longwood, Florida

FACILITY ID: FL0036251
 GMS ID NO.: 3059P03243
 DISCHARGE POINT NUMBER: D001
 PLANT SIZE/TREATMENT TYPE: IB

WAFR SITE NO.: 7083
 GMS TEST SITE NO.: 3059X12885
 Sweetwater Creek

COUNTY: Seminole

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Flow (to Sweetwater Creek)	Sample Measurement							
STORET No. 30050 Y Mon. Site No. EFF-1	Permit Measurement	2.9 (An. Avg.)	mgd				Continuous	Flow Meters
Flow (to Sweetwater Creek)	Sample Measurement							
STORET No. 30050 I Mon. Site No. EFF-1	Permit Measurement	Report (Mo. Avg.)	mgd				Continuous	Flow Meters
Flow (Influent)	Sample Measurement							
STORET No. 30050 G Mon. Site No. INF-1	Permit Measurement	2.9 (An. Avg.)	mgd				Continuous	Flow meters
Flow (Influent)	Sample Measurement							
STORET No. 30050 G Mon. Site No. INF-1	Permit Measurement	Report (Mo. Avg.)	mgd				Continuous	Flow meters
CBOD ₅	Sample Measurement							
STORET No. 90082 Y Mon. Site No. EFF-1	Permit Measurement			5.0 (Mo. Avg.)	6.0 (Max.)	mg/L	Weekly	16-hour FPC
CBOD ₅ (Influent)	Sample Measurement							
STORET No. 90082 G Mon. Site No. INF-2	Permit Measurement			Report (Mo. Avg.)		mg/L	Weekly	16-hour FPC

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

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

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

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY NAME: Wekiva Hunt Club Wastewater Treatment Facility

PERMIT NUMBER: FL0036251-01

DISCHARGE POINT NUMBER: D-01

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Parameter	Sample Measurement	Quantity or Loading	Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
TSS	Sample Measurement									
STORET No. 00530 Y Mon. Site No. EPD-1	Permit Measurement			5.0 (Mo. Avg.)		6.0 (Max.)	mg/L		Weekly	16-hour FPC
TSS (Influent)	Sample Measurement									
STORET No. 00530 G Mon. Site No. INF-2	Permit Measurement			Report (Mo. Avg.)			mg/L		Weekly	16-hour FPC
Fecal Coliform Bacteria	Sample Measurement									
STORET No. 31616 Y Mon. Site No. EPD-1	Permit Measurement			200 (Ar. Avg.)			#/100mL		Weekly	Grab
Fecal Coliform Bacteria	Sample Measurement									
STORET No. 31616 I Mon. Site No. EPD-1	Permit Measurement			200 (Mo. Geo. Mean)	400 (90 Percentile)	800 (Max.)	#/100mL		Weekly	Grab
pH	Sample Measurement									
STORET No. 00406 I Mon. Site No. EPD-1	Permit Measurement			6.0 (Min.)		8.5 (Max.)	S.U.		Continuous	Analyzer
TRC for disinfection	Sample Measurement									
STORET No. 50060 A Mon. Site No. EFA-1	Permit Measurement			0.5 (Min.)			mg/L		Continuous	Analyzer
TRC after dechlorination	Sample Measurement									
STORET No. 50060 I Mon. Site No. EPD-1	Permit Measurement			0.01 (Max.)			mg/L		Daily	Grab

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

DEP Form 62-620.910(10), Effective November 29, 1994

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Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrate Nitrogen, Total as N	Sample Measurement							
STORET No. 00620 Mon. Site No. EFD-1	Permit Measurement			Report (Mo. Avg.)	mg/L as N		Weekly	16-hour PPC
Nitrogen, Total as N	Sample Measurement							
STORET No. 00600 Mon. Site No. EFD-1	Permit Measurement			Report (Mo. Avg.)	mg/L as N		Weekly	16-hour PPC
NH ₃ Nitrogen, Total as N	Sample Measurement							
STORET No. 00610 Mon. Site No. EFD-1	Permit Measurement			2.5 (Mo. Avg.)	mg/L as N		Weekly	16-hour PPC
Phosphorus, Total as P	Sample Measurement							
STORET No. 00625 Mon. Site No. EFD-1	Permit Measurement			0.40 (Mo. Avg.)	mg/L as P		Weekly	16-hour PPC
Oxygen, Dissolved (DO)	Sample Measurement							
STORET No. 00300 Mon. Site No. EFD-1	Permit Measurement			5.0 (Min.)	mg/L		Daily	Grab

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

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

DRAFT

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: Sanlando Utilities Corporation
 MAILING ADDRESS: P.O. Box 3884
 Longwood, FL 32791

PERMIT NUMBER: FL0036251-01
 MONITORING PERIOD From: _____
 LIMIT: Final
 CLASS SIZE: Major

To: _____
 REPORT: Toxicity
 GROUP: Domestic

FACILITY: Wekiva Hunt Club Wastewater Treatment Facility
 LOCATION: 144 Ledbury Drive
 Longwood, Florida

FACILITY ID: FL0036251
 GMS ID NO.: 3059P03243
 DISCHARGE POINT NUMBER: D001
 PLANT SIZE/TREATMENT TYPE: IB

WAFR SITE NO.: 7083
 GMS TEST SITE NO.: 3059X12885
 Sweetwater Creek

COUNTY: Seminole

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
7-Day Chronic Static Renewal Ceriodaphnia dubia	Sample Measurement							
STORET No. TBP3B P Mon. Site No. EFD-2	Permit Measurement			100% (Min)	%		Annually	24-hr comp.
7-Day Chronic Static Renewal Ceriodaphnia dubia	Sample Measurement							
STORET No. TBP3B Q Mon. Site No. EFD-2	Permit Measurement			100% (Min)	%		As required	24-hr comp.
7-Day Chronic Static Renewal Pimephales promelas	Sample Measurement							
STORET No. TBP6C P Mon. Site No. EFD-2	Permit Measurement			100% (Min)	%		Annually	24-hr comp.
7-Day Chronic Static Renewal Pimephales promelas	Sample Measurement							
STORET No. TBP6C Q Mon. Site No. EFD-2	Permit Measurement			100% (Min)	%		As required	24-hr comp.
	Sample Measurement							
	Permit Measurement							

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)

P = ROUTINE TESTS Q = ADDITIONAL TESTS Enter NODI=9 if monitoring is not required this month

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

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT, PART A

DRAFT

When Completed mail this report to: Department of Environmental Protection, Central District, 3319 Maguire Boulevard, Suite 232, Orlando, FL 32803-3767

PERMITTEE NAME: Sanlando Utilities Corporation
 MAILING ADDRESS: P.O. Box 3884
 Longwood, FL 32791

PERMIT NUMBER: FL0036251-01
 MONITORING PERIOD From: _____
 LIMIT: Final
 CLASS SIZE: Major

To: _____
 REPORT: Monthly
 GROUP: Domestic

FACILITY: Wekiva Hunt Club Wastewater Treatment Facility
 LOCATION: 144 Lodbury Drive
 Longwood, Florida

FACILITY ID: FL0036251
 GMS ID NO.: 3059P03243
 DISCHARGE POINT NUMBER: R001
 PLANT SIZE/TREATMENT TYPE: IB

WAFR SITE NO.: 25454
 GMS TEST SITE NO.: 3059X17622
 Percolation Ponds

COUNTY: Seminole

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement							
STORET No. 50050 Y Mon. Site No. EFD-2	Permit Measurement	0.40 (An. Avg.)	mgd				Continuous	Flow Meters
Flow	Sample Measurement							
STORET No. 50050 I Mon. Site No. EFD-2	Permit Measurement	Report (Mo. Avg.)	mgd				Continuous	Flow Meters
CBOD ₅	Sample Measurement							
STORET No. 80082 Y Mon. Site No. EFD-1	Permit Measurement			20.0 (An. Avg.)			Weekly	16-hour FPC
CBOD ₅	Sample Measurement							
STORET No. 80082 I Mon. Site No. EFD-1	Permit Measurement			30.0 (Mo. Avg.)	45.0 (Wkly. Avg.)	60.0 (Max.)	Weekly	16-hour FPC
TSS	Sample Measurement							
STORET No. 00530 Y Mon. Site No. EFD-1	Permit Measurement			20.0 (An. Avg.)			Weekly	16-hour FPC
TSS	Sample Measurement							
STORET No. 00530 I Mon. Site No. EFD-1	Permit Measurement			30.0 (Mo. Avg.)	45.0 (Wkly. Avg.)	60.0 (Max.)	Weekly	16-hour FPC

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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: Wekiva Hunt Club Wastewater Treatment Facility

PERMIT NUMBER: FL0036251-01

DISCHARGE POINT NUMBER: R001 WAFR SITE No# 25454

Parameter		Quantity or Loading	Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
pH	Sample Measurement									
STORET No. 00406 Mon. Site No. EFD-1	Permit Measurement			6.0 (Min.)	8.5 (Max.)		S.U.		Continuous	Analyzer
Fecal Coliform Bacteria	Sample Measurement									
STORET No. 31616 Mon. Site No. EFD-1	Permit Measurement			200 (An. Avg.)			#/100ml		Weekly	Grab
Fecal Coliform Bacteria	Sample Measurement									
STORET No. 31616 Mon. Site No. EFD-1	Permit Measurement			Report (Mo. Geo. Mean)	800 (Max.)	400.0 (90th. Percentile)	#/100ml		Weekly	Grab
TRC for disinfection	Sample Measurement									
STORET No. 50060 Mon. Site No. EPA-1	Permit Measurement			0.5 (Min.)			mg/L		Continuous	Analyzer
NO ₃ -Nitrogen, Total as N	Sample Measurement									
STORET No. 09620 Mon. Site No. EFD-1	Permit Measurement			12.0 (Max.)			mg/L as N		Weekly	16-hr. comp.

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

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Central District, 3319 Maguire Boulevard, Suite 232, Orlando, FL 32803-3767

PERMITTEE NAME: Sanlando Utilities Corporation
 MAILING ADDRESS: P.O. Box 3884
 Longwood, FL 32791

PERMIT NUMBER: FL0036251-01
 MONITORING PERIOD From: _____
 LIMIT: Final
 CLASS SIZE: Major

To: _____
 REPORT: Monthly
 GROUP: Domestic

FACILITY: Wekiva Hunt Club Wastewater Treatment Facility
 LOCATION: 144 Ledbury Drive
 Longwood, Florida

FACILITY ID: FL0036251
 GMS ID NO.: 3059P03243
 DISCHARGE POINT NUMBER: R002
 PLANT SIZE/TREATMENT TYPE: IB

WAFR SITE NO.: 28336
 GMS TEST SITE NO.: 3059X17862
 Golf Courses
 Reuse Irrigation

COUNTY: Seminole

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement							
STORET No. 30050 Mon. Site No. EFF-3	Y Permit Measurement	Report (An. Avg.)	mgd				Continuous	Flow Meters
Flow	Sample Measurement							
STORET No. 30050 Mon. Site No. EFF-3	I Permit Measurement	Report (Ma. Avg.)	mgd				Continuous	Flow Meters
CBOD ₅	Sample Measurement							
STORET No. 00082 Mon. Site No. EFA-2	Y Permit Measurement			20.0 (An. Avg.)	mg/L		Weekly	16-hour FPC
CBOD ₅	Sample Measurement							
STORET No. 00082 Mon. Site No. EFA-2	A Permit Measurement			30.0 (Mo. Avg.) 45.0 (Week. Avg.) 60.0 (Max.)	mg/L		Weekly	16-hour FPC
TSS	Sample Measurement							
STORET No. 00130 Mon. Site No. EFB-1	B Permit Measurement			5.0 (Max.)	mg/L		7 Days/Week	Grab
pH	Sample Measurement							
STORET No. 00406 Mon. Site No. EFA-2	A Permit Measurement			6.0 (Min.) 8.5 (Max.)	S.U.		Continuous	Analyzer

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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: Wekiva Hunt Club Wastewater Treatment Facility

PERMIT NUMBER: FL0036251-01

DISCHARGE POINT NUMBER: R012

WAPP SITE No.: 28836

Parameter		Quantity or Loading	Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Fecal Coliform Bacteria	Sample Measurement								
STORET No. 11616 A Mon. Site No. EFA-2	Permit Measurement			Non Detectable (75 Percentile)	25 (Max.)	#/100ml		7 Days/Week	Grab
TRC for disinfection	Sample Measurement								
STORET No. 30060 A Mon. Site No. EFA-2	Permit Measurement			1.0 (Min.)		mg/L		Continuous	Analyzer
Turbidity	Sample Measurement								
STORET No. 12074 B Mon. Site No. EFB-1	Permit Measurement			Report (Max)		NTU		Continuous	Analyzer

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

DEP Form 62-620.910(10), Effective November 29, 1994

DAILY SAMPLE RESULTS - PART B

DRAFT

Permit Number: **FL0036251-01** **Wekiva Hunt Club WWTF** **D001-Discharge to Sweetwater Creek**
 Month/Year: _____

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

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	
Parameter/Unit/Monitoring Location Site Number																															
Flow (mgd), Influent, INF-1																															
Flow (mgd), EFF-1																															
CBOD5 (mg/L), Influent, INF-2																															
CBOD5 (mg/L), EFD-1																															
CBOD5 (mg/L), EFD-1																															
TSS (mg/L), Influent, INF-2																															
TSS (mg/L), EFD-1																															
pH (std. units), EFD-1, Max																															
pH (std. units), EFD-1, Min																															
Fecal Coliform Bacteria (#/100 mL), EFD-1																															
TRC (For Disinfection) (mg/L), EFA-1																															
TRC (After Dechlorination) (mg/L), EFD-1																															
Nitrate Nitrogen (mg/L as N), EFD-1																															
Nitrogen, Total as N (mg/L as N), EFD-1																															
Ammonia, Total as N (mg/L as N), EFD-1																															
Phosphorus, Total as P (mg/L as P), EFD-1																															
Dissolved Oxygen (mg/L as P), EFD-1																															

Plant Staffing:

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

Type of Effluent Disposal or Reclaimed Water Reuse: _____
 Limited Wet Weather Discharge Activated: Yes ___ No ___ Not Applicable ___ If yes, cumulative days of wet weather discharge: _____
 * Attach additional sheets necessary to list all certified operators necessary for required operations.
 DEP Form 62-620.910(10), Effective November 29, 1994

DAILY SAMPLE RESULTS - PART B

DRAFT

Permit Number: **FL036251-01** **Wekiva Hunt Club WWTF** **R001-Discharge to Percolation Ponds**
 Month/Year:

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

Days of the Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30/31	
Parameter/Unit/Monitoring Location Site Number																															
Flow (mgd), EFF-2 (To percolation ponds)																															
CBOD5 (mg/L), EFD-1																															
TSS (mg/L), EFD-1																															
pH (std. units), EFD-1 Min.																															
pH (std. units), EFD-1 Max.																															
Fecal Coliform Bacteria (#/100 mL), EFD-1																															
TRC (For Disinfection) (mg/L), EFA-1																															
NO3-Nitrogen, Total as N (mg/L as N), EFD-1																															

Plant Staffing:

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

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

DAILY SAMPLE RESULTS - PART B

Permit Number: **FL0036251-01** **Wekiva Hunt Club WWTF R002-Reuse Irrigation**
 Month/Year:

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

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
Parameter/Unit/Monitoring Location Site Number																														
Flow (mgd), EFF-3 R001 (Reuse Total)																														
Flow (mgd), To Wekiva Golf Course (Monthly)																														
Flow (mgd), To Sweetwater Country Club Golf Course (Monthly)																														
Flow (mgd), To Sabal Point Golf Course (Monthly)																														
CBOD5 (mg/L), EFA-2																														
TSS (mg/L), EFB-1																														
Turbidity (NTU), EFB-1																														
pH (std. units), EFA-2Max.																														
pH (std. units), EFA-2Min.																														
Fecal Coliform Bacteria (#/100 mL), EFA-2																														
TRC (For Disinfection) (mg/L), EFA-2																														

Plant Staffing:

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

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

GROUNDWATER MONITORING REPORT - PART D (Wekiva Hunt Club / SeminoleCounty)

Facility ID: FL0036251

Sample Period From Month/Year: _____ To Month/Year: _____

Date Sample Obtained: _____

Was the well purged before sampling? Yes No

DRAFT
 Test Site ID: 2090
 Well Type: Intermediate

Ground Water Class: GII

Well Name: W-1

Parameter	Storet Code	Sampling Method	Samples Filtered (Y/N)	Preservatives Added	Analysis Method	Analysis Result/Units	Detection Limits/Units
Water Level (ft. NGVD)	082545						
Nitrate (mg/L as N)	000620						
TDS (mg/L)	070304						
Chloride (mg/L)	000940						
Fecal Coliform (#/100ML)	031616						
pH (standard units)	000400						
Turbidity (NTU)	082079						

Comments and Explanations:
 5/19/97

GROUNDWATER MONITORING REPORT - PART D (Wekiva Hunt Club / SeminoleCounty)

Facility ID: FL0036251

Sample Period From Month/Year: _____ To Month/Year: _____

Date Sample Obtained: _____

Was the well purged before sampling? Yes No

DRAFT
Well ID: 0088
 Well Type: Background

Ground Water Class: GII

Well Name: W-2

Parameter	Storet Code	Sampling Method	Samples Filtered (Y/N)	Preservatives Added	Analysis Method	Analysis Result/Units	Detection Limits/Units
Water Level (ft. NGVD)	082545						
Nitrate (mg/L as N)	000620						
TDS (mg/L)	070304						
Chloride (mg/L)	000940						
Fecal Coliform (#/100ML)	031616						
pH (standard units)	000400						
Turbidity (NTU)	082079						

Comments and Explanations:
 5/19/97

GROUNDWATER MONITORING REPORT - PART D (Wekiva Hunt Club / SeminoleCounty)

Facility ID: FL0036251

Sample Period From Month/Year: _____ To Month/Year: _____

Date Sample Obtained: _____

Was the well purged before sampling? Yes No



Ground Water Class: GII

Well Name: W-3

Parameter	Storet Code	Sampling Method	Samples Filtered (Y/N)	Preservatives Added	Analysis Method	Analysis Result/Units	Detection Limits/Units
Water Level (ft. NGVD)	082545						
Nitrate (mg/L as N)	000620						
TDS (mg/L)	070304						
Chloride (mg/L)	000940						
Fecal Coliform (#/100ML)	031616						
pH (standard units)	000400						
Turbidity (NTU)	082079						

Comments and Explanations:

5/19/97
DEP Form 62-620.910(10), Effective November 29, 1994

GROUNDWATER MONITORING REPORT - PART D (Wekiva Hunt Club / SeminoleCounty)

Facility ID: FL0036251

Sample Period From Month/Year: _____ To Month/Year: _____

Date Sample Obtained: _____

Was the well purged before sampling? Yes No

DRAFT
TRAILHEAD: 7089

Well Type: Compliance

Ground Water Class: GII

Well Name: W-4

Parameter	Storet Code	Sampling Method	Samples Filtered (Y/N)	Preservatives Added	Analysis Method	Analysis Result/Units	Detection Limits/Units
Water Level (ft. NGVD)	082545						
Nitrate (mg/L as N)	000620						
TDS (mg/L)	070304						
Chloride (mg/L)	000940						
Fecal Coliform (#/100ML)	031616						
pH (standard units)	000400						
Turbidity (NTU)	082079						

Comments and Explanations:
 5/19/97
 DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Central District, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803-3767

DRAFT

PERMITTEE NAME: Sanlando Utilities Corporation
 MAILING ADDRESS: P.O. Box 3884
 Longwood, FL 32791

PERMIT NUMBER: FL0036251-01
 MONITORING PERIOD From: _____
 LIMIT: Final
 CLASS SIZE: Major

To: _____
 REPORT: Monthly
 GROUP: Domestic

FACILITY: Wekiva Hunt Club Wastewater Treatment Facility
 LOCATION: 144 Ledbury Drive
 Longwood, Florida

FACILITY ID: FL0036251
 GMS ID NO.: 3059P03243
 DISCHARGE POINT NUMBER: N/A
 PLANT SIZE/TREATMENT TYPE: IB

WAFR SITE NO.: 25730
 GMS TEST SITE NO.: 3059X17613
 Sweetwater Creek
 and Cove Lake Water
 Quality-Station #1

COUNTY: Seminole

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Chloride	Sample Measurement							
STORET No. 00940 5 Mon. Site No. SWB-1	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
CBOD ₅	Sample Measurement							
STORET No. 00882 5 Mon. Site No. SWB-1	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Total Suspended Solids	Sample Measurement							
STORET No. 00330 5 Mon. Site No. SWB-1	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Total Organic Carbon	Sample Measurement							
STORET No. 00680 5 Mon. Site No. SWB-1	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
NO ₃ Nitrogen, Total as N	Sample Measurement							
STORET No. 00620 5 Mon. Site No. SWB-1	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Kjeldahl Nitrogen, Total as N	Sample Measurement							
STORET No. 00625 5 Mon. Site No. SWB-1	Permit Measurement			Report (Single Sample)	mg/L		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):

DEP Form 62-620.910(10), Effective November 29, 1994

Surface Waters Monitoring Requirements (Continued)

FACILITY NAME: Wekiva Hunt Club Wastewater Treatment Facility

PERMIT NUMBER: FL0036251-01

Surface Waters Monitoring

WAERSITE No. 257
DRAFT

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Phosphorus, Total as P	Sample Measurement							
STORET No. 00663 3 Mon. Site No. SWB-1	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Ortho Phosphorus, Total as P	Sample Measurement							
STORET No. 70507 3 Mon. Site No. SWB-1	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Chlorophyll-a	Sample Measurement							
STORET No. 12238 3 Mon. Site No. SWB-1	Permit Measurement			Report (Single Sample)	mg/m ³		Monthly	Grab
Alkalinity	Sample Measurement							
STORET No. 00410 3 Mon. Site No. SWB-1	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Oxygen, Dissolved	Sample Measurement							
STORET No. 00300 3 Mon. Site No. SWB-1	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
pH	Sample Measurement							
STORET No. 00400 3 Mon. Site No. SWB-1	Permit Measurement			Report (Single Sample)	S.U.		Monthly	Grab
Temperature	Sample Measurement							
STORET No. 00010 3 Mon. Site No. SWB-1	Permit Measurement			Report (Single Sample)	Degree C		Monthly	Grab
Sediment Oxygen Demand	Sample Measurement							
STORET No. N/A 3 Mon. Site No. SWB-1	Permit Measurement			Report (Single Sample)	mg/m ² /d		Monthly	Grab
NH ₃ Nitrogen, Total as N	Sample Measurement							
STORET No. 00610 3 Mon. Site No. SWB-1	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab

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

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Central District, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803-3767

PERMITTEE NAME: Sanlando Utilities Corporation
 MAILING ADDRESS: P.O. Box 3884
 Longwood, FL 32791

PERMIT NUMBER: FL0036251-01
 MONITORING PERIOD From: _____
 LIMIT: Final
 CLASS SIZE: Major

DRAFT
 REPORT: Monthly
 GROUP: Domestic

FACILITY: Wekiva Hunt Club Wastewater Treatment Facility
 LOCATION: 144 Ledbury Drive
 Longwood, Florida

FACILITY ID: FL0036251
 GMS ID NO.: 3059P03243
 DISCHARGE POINT NUMBER: N/A
 PLANT SIZE/TREATMENT TYPE:

WAFR SITE NO.: 25731
 GMS TEST SITE NO.: 3059X17614
 Sweetwater Creek
 and Cove Lake Water
 Quality-Station #2

COUNTY: Seminole

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Chloride	Sample Measurement							
STORET No. 00940 5 Mon. Site No. SWD-2	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
CBOD ₅	Sample Measurement							
STORET No. 00882 5 Mon. Site No. SWD-2	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Total Suspended Solids	Sample Measurement							
STORET No. 00530 5 Mon. Site No. SWD-2	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Total Organic Carbon	Sample Measurement							
STORET No. 00680 5 Mon. Site No. SWD-2	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
NO ₃ Nitrogen, Total as N	Sample Measurement							
STORET No. 00620 5 Mon. Site No. SWD-2	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Kjeldahl Nitrogen, Total as N	Sample Measurement							
STORET No. 00625 5 Mon. Site No. SWD-2	Permit Measurement			Report (Single Sample)	mg/L		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):

DEP Form 62-620.910(10), Effective November 29, 1994

Surface Waters Monitoring Requirements (Continued)

FACILITY NAME: Wekiva Hunt Club Wastewater Treatment Facility

PERMIT NUMBER: FL0036251-01

Surface Waters Monitoring

DRAFT
WAFR SITE No. 25731

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Phosphorus, Total as P	Sample Measurement							
STORET No. 00665 5 Mon. Site No. SWD-2	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Ortho Phosphorus, Total as P	Sample Measurement							
STORET No. 70507 5 Mon. Site No. SWD-2SWB-1	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Chlorophyll-a	Sample Measurement							
STORET No. 32238 5 Mon. Site No. SWD-2	Permit Measurement			Report (Single Sample)	mg/m ³		Monthly	Grab
Alkalinity	Sample Measurement							
STORET No. 00410 5 Mon. Site No. SWD-2	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Oxygen, Dissolved	Sample Measurement							
STORET No. 00300 5 Mon. Site No. SWD-2	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
pH	Sample Measurement							
STORET No. 00400 5 Mon. Site No. SWD-2	Permit Measurement			Report (Single Sample)	S.U.		Monthly	Grab
Temperature	Sample Measurement							
STORET No. 00010 5 Mon. Site No. SWD-2	Permit Measurement			Report (Single Sample)	Degree C		Monthly	Grab
Sediment Oxygen Demand	Sample Measurement							
STORET No. N/A 5 Mon. Site No. SWD-2	Permit Measurement			Report (Single Sample)	mg/m ² /d		Monthly	Grab
NH ₃ Nitrogen, Total as N	Sample Measurement							
STORET No. 00610 5 Mon. Site No. SWD-2	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab

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

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

DRAFT

When Completed mail this report to: Department of Environmental Protection, Central District, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803-3767

PERMITTEE NAME: Sanlando Utilities Corporation
 MAILING ADDRESS: P.O. Box 3884
 Longwood, FL 32791

PERMIT NUMBER: FL0036251-01
 MONITORING PERIOD From: _____
 LIMIT: Final
 CLASS SIZE: Major

To: _____
 REPORT: Monthly
 GROUP: Domestic

FACILITY: Wekiva Hunt Club Wastewater Treatment Facility
 LOCATION: 144 Ledbury Drive
 Longwood, Florida

FACILITY ID: FL0036251
 GMS ID NO.: 3059P03243
 DISCHARGE POINT NUMBER: N/A
 PLANT SIZE/TREATMENT TYPE: IB

WAFR SITE NO.: 25732
 GMS TEST SITE NO.: 3059X17615
 Sweetwater Creek
 and Cove Lake Water
 Quality-Station #3

COUNTY: Seminole

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Chloride	Sample Measurement							
STORET No. 00940 5 Mon. Site No. SWD-3	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
CBOD ₅	Sample Measurement							
STORET No. 00082 5 Mon. Site No. SWD-3	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Total Suspended Solids	Sample Measurement							
STORET No. 00530 5 Mon. Site No. SWD-3	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Total Organic Carbon	Sample Measurement							
STORET No. 00680 5 Mon. Site No. SWD-3	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
NO ₃ Nitrogen, Total as N	Sample Measurement							
STORET No. 00620 5 Mon. Site No. SWD-3	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Kjeldahl Nitrogen, Total as N	Sample Measurement							
STORET No. 00625 5 Mon. Site No. SWD-3	Permit Measurement			Report (Single Sample)	mg/L		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):

DEP Form 62-620.910(10), Effective November 29, 1994

Surface Waters Monitoring Requirements (Continued)

DRAFT
WAFR SITE No. 2732

FACILITY NAME: Wekiva Hunt Club Wastewater Treatment Facility

PERMIT NUMBER: FL0036251-01

Surface Waters Monitoring

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Phosphorus, Total as P	Sample Measurement							
STORET No. 00665 Mon. Site No. SWB-3	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Ortho Phosphorus, Total as P	Sample Measurement							
STORET No. 70507 Mon. Site No. SWB-3	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Chlorophyll-a	Sample Measurement							
STORET No. 31238 Mon. Site No. SWB-3	Permit Measurement			Report (Single Sample)	mg/m ³		Monthly	Grab
Alkalinity	Sample Measurement							
STORET No. 00410 Mon. Site No. SWB-3	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Oxygen, Dissolved	Sample Measurement							
STORET No. 00500 Mon. Site No. SWB-3	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
pH	Sample Measurement							
STORET No. 00400 Mon. Site No. SWB-3	Permit Measurement			Report (Single Sample)	S.U.		Monthly	Grab
Temperature	Sample Measurement							
STORET No. 00010 Mon. Site No. SWB-3	Permit Measurement			Report (Single Sample)	Degree C		Monthly	Grab
Sediment Oxygen Demand	Sample Measurement							
STORET No. N/A Mon. Site No. SWB-3	Permit Measurement			Report (Single Sample)	mg/m ² /d		Monthly	Grab
NH ₃ Nitrogen, Total as N	Sample Measurement							
STORET No. 00610 Mon. Site No. SWB-3	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab

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

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

DRAFT

When Completed mail this report to: Department of Environmental Protection, Central District, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803-3767

PERMITTEE NAME: Sanlando Utilities Corporation
 MAILING ADDRESS: P.O. Box 3884
 Longwood, FL 32791

PERMIT NUMBER: FL0036251-01
 MONITORING PERIOD From: _____
 LIMIT: Final
 CLASS SIZE: Major

To: _____
 REPORT: Monthly
 GROUP: Domestic

FACILITY: Wekiva Hunt Club Wastewater Treatment Facility
 LOCATION: 144 Ledbury Drive
 Longwood, Florida

FACILITY ID: FL0036251
 GMS ID NO.: 3059P03243
 DISCHARGE POINT NUMBER: N/A
 PLANT SIZE/TREATMENT TYPE: IB

WAFR SITE NO.: 25733
 GMS TEST SITE NO.: 3059X17616
 Sweetwater Creek
 and Cove Lake Water
 Quality-Station #4

COUNTY: Seminole

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Chloride	Sample Measurement							
STORET No. 00940 5 Mon. Site No. SWD-4	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
CBOD ₅	Sample Measurement							
STORET No. 00982 5 Mon. Site No. SWD-4	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Total Suspended Solids	Sample Measurement							
STORET No. 00530 3 Mon. Site No. SWD-4	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Total Organic Carbon	Sample Measurement							
STORET No. 00680 5 Mon. Site No. SWD-4	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
NO ₃ Nitrogen, Total as N	Sample Measurement							
STORET No. 00620 5 Mon. Site No. SWD-4	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Kjeldahl Nitrogen, Total as N	Sample Measurement							
STORET No. 00625 5 Mon. Site No. SWD-4	Permit Measurement			Report (Single Sample)	mg/L		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):

Surface Waters Monitoring Requirements (Continued)

DRAFT
WAIVER SITE NO. 25739

FACILITY NAME: Wekiva Hunt Club Wastewater Treatment Facility

PERMIT NUMBER: FL0036251-01

Surface Waters Monitoring

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Phosphorus, Total as P	Sample Measurement							
STORET No. 00665 5 Mon. Site No. SWD-4	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Ortho Phosphorus, Total as P	Sample Measurement							
STORET No. 70507 5 Mon. Site No. SWD-4	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Chlorophyll-a	Sample Measurement							
STORET No. 32238 5 Mon. Site No. SWD-4	Permit Measurement			Report (Single Sample)	mg/m ³		Monthly	Grab
Alkalinity	Sample Measurement							
STORET No. 00410 5 Mon. Site No. SWD-4	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Oxygen, Dissolved	Sample Measurement							
STORET No. 00300 5 Mon. Site No. SWD-4	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
pH	Sample Measurement							
STORET No. 00400 5 Mon. Site No. SWD-4	Permit Measurement			Report (Single Sample)	p.U.		Monthly	Grab
Temperature	Sample Measurement							
STORET No. 00010 5 Mon. Site No. SWD-4	Permit Measurement			Report (Single Sample)	Degree C		Monthly	Grab
Sediment Oxygen Demand	Sample Measurement							
STORET No. N/A 5 Mon. Site No. SWD-4	Permit Measurement			Report (Single Sample)	mg/m ² /d		Monthly	Grab
NH ₃ Nitrogen, Total as N	Sample Measurement							
STORET No. 00610 5 Mon. Site No. SWD-4	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab

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

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

DRAFT

When Completed mail this report to: Department of Environmental Protection, Central District, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803-3767

PERMITTEE NAME: Sanlando Utilities Corporation
 MAILING ADDRESS: P.O. Box 3884
 Longwood, FL 32791

PERMIT NUMBER: FL0036251-01
 MONITORING PERIOD From: _____
 LIMIT: Final
 CLASS SIZE: Major

To: _____
 REPORT: Monthly
 GROUP: Domestic

FACILITY: Wekiva Hunt Club Wastewater Treatment Facility
 LOCATION: 144 Ledbury Drive
 Longwood, Florida

FACILITY ID: FL0036251
 GMS ID NO.: 3059P03243
 DISCHARGE POINT NUMBER: N/A
 PLANT SIZE/TREATMENT TYPE: IB

WAFR SITE NO.: 25734
 GMS TEST SITE NO.: 3059X17617
 Sweetwater Creek
 and Cove Lake Water
 Quality-Station #5

COUNTY: Seminole

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Chloride	Sample Measurement							
STORET No. 00940 5 Mon. Site No. SWD-5	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
CBOD ₅	Sample Measurement							
STORET No. 00082 5 Mon. Site No. SWD-5	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Total Suspended Solids	Sample Measurement							
STORET No. 00530 5 Mon. Site No. SWD-5	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Total Organic Carbon	Sample Measurement							
STORET No. 00680 5 Mon. Site No. SWD-5	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
NO ₃ Nitrogen, Total as N	Sample Measurement							
STORET No. 00620 5 Mon. Site No. SWD-5	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Kjeldahl Nitrogen, Total as N	Sample Measurement							
STORET No. 00625 5 Mon. Site No. SWD-5	Permit Measurement			Report (Single Sample)	mg/L		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):

Surface Waters Monitoring Requirements (Continued)

FACILITY NAME: Wekiva Hunt Club Wastewater Treatment Facility

PERMIT NUMBER: FL0036251-01

Surface Waters Monitoring

DRAFT
WAFR SITE NO. 25734

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Phosphorus, Total as P	Sample Measurement							
STORET No. 00665 5 Mon. Site No. SWD-5	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Ortho Phosphorus, Total as P	Sample Measurement							
STORET No. 70507 5 Mon. Site No. SWD-5	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Chlorophyll-a	Sample Measurement							
STORET No. 32238 5 Mon. Site No. SWD-5	Permit Measurement			Report (Single Sample)	mg/m ³		Monthly	Grab
Alkalinity	Sample Measurement							
STORET No. 00410 5 Mon. Site No. SWD-5	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Oxygen, Dissolved	Sample Measurement							
STORET No. 00390 5 Mon. Site No. SWD-5	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
pH	Sample Measurement							
STORET No. 00400 5 Mon. Site No. SWD-5	Permit Measurement			Report (Single Sample)	S.U.		Monthly	Grab
Temperature	Sample Measurement							
STORET No. 00010 5 Mon. Site No. SWD-5	Permit Measurement			Report (Single Sample)	Degree C		Monthly	Grab
Sediment Oxygen Demand	Sample Measurement							
STORET No. N/A 5 Mon. Site No. SWD-5	Permit Measurement			Report (Single Sample)	mg/m ² /d		Monthly	Grab
NH ₃ Nitrogen, Total as N	Sample Measurement							
STORET No. 00610 5 Mon. Site No. SWD-5	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab

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

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

DRAFT

When Completed mail this report to: Department of Environmental Protection, Central District, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803-3767

PERMITTEE NAME: Sanlando Utilities Corporation
 MAILING ADDRESS: P.O. Box 3884
 Longwood, FL 32791

PERMIT NUMBER: FL0036251-01
 MONITORING PERIOD From: _____
 LIMIT: Final
 CLASS SIZE: Major

To: _____
 REPORT: Monthly
 GROUP: Domestic

FACILITY: Wekiva Hunt Club Wastewater Treatment Facility
 LOCATION: 144 Ledbury Drive
 Longwood, Florida

FACILITY ID: FL0036251
 GMS ID NO.: 3059P03243
 DISCHARGE POINT NUMBER: N/A
 PLANT SIZE/TREATMENT TYPE: IB

WAFR SITE NO.: 25735
 GMS TEST SITE NO.: 3059X17618
 Sweetwater Creek
 and Cove Lake Water
 Quality-Station #6

COUNTY: Seminole

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Chloride	Sample Measurement							
STORET No. 00940 5 Mon. Site No. SWD-6	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
CBOD ₅	Sample Measurement							
STORET No. 00882 5 Mon. Site No. SWD-6	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Total Suspended Solids	Sample Measurement							
STORET No. 00530 5 Mon. Site No. SWD-6	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Total Organic Carbon	Sample Measurement							
STORET No. 00680 5 Mon. Site No. SWD-6	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
NO ₃ Nitrogen, Total as N	Sample Measurement							
STORET No. 00620 5 Mon. Site No. SWD-6	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Kjeldahl Nitrogen, Total as N	Sample Measurement							
STORET No. 00675 5 Mon. Site No. SWD-6	Permit Measurement			Report (Single Sample)	mg/L		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):

Surface Waters Monitoring Requirements (Continued)

FACILITY NAME: Wekiva Hunt Club Wastewater Treatment Facility

PERMIT NUMBER: FL0036251-01

Surface Waters Monitoring

DRAFT
WASTE 0573-22

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Phosphorus, Total as P	Sample Measurement							
STORET No. 00665 5 Mon. Site No. SWB-1	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Ortho Phosphorus, Total as P	Sample Measurement							
STORET No. 70507 5 Mon. Site No. SWB-1	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Chlorophyll-a	Sample Measurement							
STORET No. 32238 5 Mon. Site No. SWB-1	Permit Measurement			Report (Single Sample)	mg/m ³		Monthly	Grab
Alkalinity	Sample Measurement							
STORET No. 00410 5 Mon. Site No. SWB-1	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Oxygen, Dissolved	Sample Measurement							
STORET No. 00300 5 Mon. Site No. SWB-1	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
pH	Sample Measurement							
STORET No. 00400 5 Mon. Site No. SWB-1	Permit Measurement			Report (Single Sample)	S.U.		Monthly	Grab
Temperature	Sample Measurement							
STORET No. 00010 5 Mon. Site No. SWB-1	Permit Measurement			Report (Single Sample)	Degree C		Monthly	Grab
Sediment Oxygen Demand	Sample Measurement							
STORET No. N/A 5 Mon. Site No. SWB-1	Permit Measurement			Report (Single Sample)	mg/m ² /d		Monthly	Grab
NH ₃ Nitrogen, Total as N	Sample Measurement							
STORET No. 00610 5 Mon. Site No. SWB-1	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab

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

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

DRAFT

When Completed mail this report to: Department of Environmental Protection, Central District, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803-3767

PERMITTEE NAME: Sanlando Utilities Corporation
 MAILING ADDRESS: P.O. Box 3884
 Longwood, FL 32791

PERMIT NUMBER: FL0036251-01
 MONITORING PERIOD From: _____
 LIMIT: Final
 CLASS SIZE: Major

To: _____
 REPORT: Monthly
 GROUP: Domestic

FACILITY: Wekiva Hunt Club Wastewater Treatment Facility
 LOCATION: 144 Ledbury Drive
 Longwood, Florida

FACILITY ID: FL0036251
 GMS ID NO.: 3059P03243
 DISCHARGE POINT NUMBER: N/A
 PLANT SIZE/TREATMENT TYPE: IB

WAFR SITE NO.: 25736
 GMS TEST SITE NO.: 3059X17619
 Sweetwater Creek
 and Cove Lake Water
 Quality-Station #7

COUNTY: Seminole

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Chloride	Sample Measurement							
STORET No. 00940 5 Mon. Site No. SWB-7	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
CBOD ₅	Sample Measurement							
STORET No. 00082 5 Mon. Site No. SWB-7	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Total Suspended Solids	Sample Measurement							
STORET No. 00530 5 Mon. Site No. SWB-7	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Total Organic Carbon	Sample Measurement							
STORET No. 00680 5 Mon. Site No. SWB-7	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
NO ₃ Nitrogen, Total as N	Sample Measurement							
STORET No. 00620 5 Mon. Site No. SWB-7	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Kjeldahl Nitrogen, Total as N	Sample Measurement							
STORET No. 00625 5 Mon. Site No. SWB-7	Permit Measurement			Report (Single Sample)	mg/L		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):

Surface Waters Monitoring Requirements (Continued)

DRAFT
WATER SITE No. 25736

FACILITY NAME: Wekiva Hunt Club Wastewater Treatment Facility

PERMIT NUMBER: FL0036251-01

Surface Waters Monitoring

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Phosphorus, Total as P	Sample Measurement							
STORET No. 00665 5 Mon. Site No. SWB-7	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Ortho Phosphorus, Total as P	Sample Measurement							
STORET No. 70507 5 Mon. Site No. SWB-7	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Chlorophyll-a	Sample Measurement							
STORET No. 32238 5 Mon. Site No. SWB-7	Permit Measurement			Report (Single Sample)	mg/m ³		Monthly	Grab
Alkalinity	Sample Measurement							
STORET No. 00410 5 Mon. Site No. SWB-7	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Oxygen, Dissolved	Sample Measurement							
STORET No. 00300 5 Mon. Site No. SWB-7	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
pH	Sample Measurement							
STORET No. 00400 5 Mon. Site No. SWB-7	Permit Measurement			Report (Single Sample)	S.U.		Monthly	Grab
Temperature	Sample Measurement							
STORET No. 00010 5 Mon. Site No. SWB-7	Permit Measurement			Report (Single Sample)	Degree C		Monthly	Grab
Sediment Oxygen Demand	Sample Measurement							
STORET No. N/A 5 Mon. Site No. SWB-7	Permit Measurement			Report (Single Sample)	mg/m ² /d		Monthly	Grab
NH ₃ Nitrogen, Total as N	Sample Measurement							
STORET No. 00610 5 Mon. Site No. SWB-7	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab

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

DEP Form 62-620.910(10), Effective November 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Central District, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803-3767

PERMITTEE NAME: Sanlando Utilities Corporation
 MAILING ADDRESS: P.O. Box 3884
 Longwood, FL 32791

PERMIT NUMBER: FL0036251-01
 MONITORING PERIOD From: _____
 LIMIT: Final
 CLASS SIZE: Major

DRAFT

To: _____
 REPORT: Monthly
 GROUP: Domestic

FACILITY: Wekiva Hunt Club Wastewater Treatment Facility
 LOCATION: 144 Ledbury Drive
 Longwood, Florida

FACILITY ID: FL0036251
 GMS ID NO.: 3059P03243
 DISCHARGE POINT NUMBER: N/A
 PLANT SIZE/TREATMENT TYPE: IB

WAFR SITE NO.: 25737
 GMS TEST SITE NO.: 3059X17620
 Sweetwater Creek
 and Cove Lake Water
 Quality-Station #8

COUNTY: Seminole

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Chloride	Sample Measurement							
STORET No. 00940 5 Mon Site No. SWD-8	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
CBOD ₅	Sample Measurement							
STORET No. 00082 5 Mon Site No. SWD-8	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Total Suspended Solids	Sample Measurement							
STORET No. 00550 5 Mon Site No. SWD-8	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Total Organic Carbon	Sample Measurement							
STORET No. 00680 5 Mon Site No. SWD-8	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
NO ₃ Nitrogen, Total as N	Sample Measurement							
STORET No. 00620 5 Mon Site No. SWD-8	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Kjeldahl Nitrogen, Total as N	Sample Measurement							
STORET No. 00625 5 Mon Site No. SWD-8	Permit Measurement			Report (Single Sample)	mg/L		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):

Surface Waters Monitoring Requirements (Continued)

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FACILITY NAME: Wekiva Hunt Club Wastewater Treatment Facility

PERMIT NUMBER: FL0036251-01

Surface Waters Monitoring

WAFR SITE No.:25737

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Phosphorus, Total as P	Sample Measurement							
STORET No. 00665 5 Mon.Site No. SWD-8	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Ortho Phosphorus, Total as P	Sample Measurement							
STORET No. 70307 5 Mon.Site No. SWD-8	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Chlorophyll-a	Sample Measurement							
STORET No. 32234 5 Mon.Site No. SWD-8	Permit Measurement			Report (Single Sample)	mg/m ³		Monthly	Grab
Alkalinity	Sample Measurement							
STORET No. 00410 5 Mon.Site No. SWD-8	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
Oxygen, Dissolved	Sample Measurement							
STORET No. 00300 5 Mon.Site No. SWD-8	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab
pH	Sample Measurement							
STORET No. 00400 5 Mon.Site No. SWD-8	Permit Measurement			Report (Single Sample)	EU		Monthly	Grab
Temperature	Sample Measurement							
STORET No. 00010 5 Mon.Site No. SWD-8	Permit Measurement			Report (Single Sample)	Degree C		Monthly	Grab
Sediment Oxygen Demand	Sample Measurement							
STORET No. N/A 5 Mon.Site No. SWD-8	Permit Measurement			Report (Single Sample)	mg/m ² /d		Monthly	Grab
NH ₃ Nitrogen, Total as N	Sample Measurement							
STORET No. 00610 5 Mon.Site No. SWD-8	Permit Measurement			Report (Single Sample)	mg/L		Monthly	Grab

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

DEP Form 62-620.910(10), Effective November 29, 1994

INSTRUCTIONS FOR MONITORING REPORT

PART A - Discharge Monitoring Report

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

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

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

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

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

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

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

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

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

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

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

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

Sample Measurement: The data which was collected and analyzed.

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

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

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

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

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

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

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

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

PART B - DAILY SAMPLE RESULTS

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

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

PART B - DAILY SAMPLE RESULTS contd.

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

If this plant does not have a limited wet weather discharge permitted under the provision of Rule 62-610.860, F.A.C., check not applicable. If the plant activated the wet weather discharge during the reporting month, check yes and attach PART C - LIMITED WET WEATHER DISCHARGE.

PART C - LIMITED WET WEATHER DISCHARGE N/A

This part is applicable only to limited wet weather discharges from reuse systems describe in Rule 62-610.860, F.A.C. If applicable, this part is to be completed and submitted each month reclaimed water or effluent is discharged by a limited wet weather discharge. For months with no discharge, Part C need not be submitted. All information is to be provided for each day on which the limited wet weather discharge was activated. All information is to be typed or printed in ink.

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

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

Rainfall Information: Rainfall gauging station requires entry of the name and location of the station. Source of Climatological (normal rainfall) data is the source of the information required for Cumulative rainfall for the average rainfall year which is the amount of rain, in inches, which falls during an average rainfall year from January through the month for which this part contains data. Cumulative rainfall to date for this calendar year is the total amount of rain, in inches, that has been recorded since January 1 of the current year through the month for which this Part contains data.

Date: Enter the date on which the discharge occurred.

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

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

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

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

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

CBOD₅: Enter the average CBOD₅ of the reclaimed water discharged during the period shown in Duration of Discharge.

TKN: Enter the average TKN of the reclaimed water discharged during the period shown in Duration of Discharge.

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

PART D - GROUNDWATER MONITORING REPORT

This part is applicable only to groundwater monitoring wells. Type or print in ink the required data. All samples shall be collected and analyzed in accordance with Chapter 62-160, F.A.C. Laboratory reports shall be kept on file in the location indicated in your permit and made available for inspection upon request by the Department.

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

Test Site ID: This is the identification number of the sampling site listed in your permit.

Month/Year: This is the period during which the data on this report was collected and analyzed. If the period is greater than one month, indicate beginning month to ending month.

Well Type: Indicate if the well being sampled is background, intermediate, compliance, or other. If other, explain in the comment section.

Date Sample Obtained: This is the date the sample was taken.

Ground Water Class: This is the classification of the ground water under Chapter 62-522, F.A.C.

Parameter: Analyze the parameters the permit requires. List any additional parameters from the permit which are not pre-listed here. If there are any parameters listed here which are not required by your permit, enter NR on that line.

Storet Code: Enter the Storet Code associated with the parameter.

Sampling Method: Describe the sampling method used.

Samples Filtered: Indicate whether the sample obtained was filtered (Y) or unfiltered (N).

Preservatives Added: State what preservatives were added to the sample.

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

Analysis Result/Units: Record the results of the analysis. If the result was below the minimum detection limit, indicate that. Enter the units associated with the results of the analysis.

Detection Limits/Units: Record the detection limits and the units associated with them.

Comments and Explanations: Use this space to make any comments on or explanations of results which are unexpected.

**AMENDMENT TO THE FACT SHEET AT
THE TIME OF FINAL PERMIT ISSUANCE**

DATE: May 21, 1997

PERMIT NUMBER: FL0036251-01

NAME OF APPLICANT: Sanlando Utilities Corporation

FACILITY NAME: Wekiva Hunt Club WWTF

PERMIT WRITERS: Heriberto Collado, P.E.
Alvin Castro, P.E.

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1. CHANGES TO PERMIT FROM DRAFT PERMIT TO FINAL PERMIT STAGE:

Part I

- a. Page 1, Treatment Facilities description. Authorization to construct an upgrade to the treatment facility to provide reclaimed water and meet Class I Reliability was added. Effluent Disposal: description that Sweetwater Creek discharges to Cove Lake was added (also on Page 3 in Condition I.A.1.).
- b. Page 2, Reuse: Land Application Systems description. The use of land application system R001 (percolation ponds) was changed from a 0.18 mgd intermittent discharge for cleaning and maintenance purposes to 0.40 mgd aadf reuse/disposal.

Authorization to construct land application system R002 (public access irrigation) was added.
- c. Page 7, Item I.B.1. The description of the monitoring requirements was changed to the following: During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to direct reclaimed water to Reuse System(s) R001.

The annual average flow, the frequency and monitoring locations for Reuse System(s) R001 were changed. Fecal coliform monitoring added.
- d. Page 8, Item I.B.2. The description of the monitoring locations was changed.

Item I.B.3. The flow monitoring requirement was changed to the following: Recording flow meters and totalizers shall be utilized to measure flow and calibrated at least annually.

Item I.B.5. Weekly composite sample schedule deleted. Hourly measurements for TRC was added.

Item I.B.7. Fecal coliform monitoring requirements added.
- e. Pages 9 and 10, Items I.B.8 through I.B.16. Reuse System R002 (public access irrigation) monitoring and administrative requirements added.
- f. Page 12, Item I.C.2. Description of Monitoring Location INF-2 was changed to inflow splitter box.

Part III

Pages 18 and 19. Ground water monitoring requirements was added.

Part IV

Pages 19 through 21. Additional reuse and land application requirements for Part IV Rapid-rate Land Application System (R001) and Part III Public Access System (R002) were added.

Page 21, Item IV.24. Requirement that the existing underdrain system remain plugged and inoperable was added.

Part VI

Page 23, Item VI.1. The construction schedule was revised to show the following:

Starting and completion dates for the construction and implementation of the facility upgrade and the public access reuse system.

The following conditions were deleted from Page 23 (originally Pages 18 and 19):

2. On January 22, 1992, the permittee and the Department of Environmental Regulation entered into a settlement stipulation with The Friends of the Wekiva and the Florida Audubon Society which required among other things, that the permittee use its best efforts to implement an "inverted rate structure" in order to encourage the conservation of water and the reduction of sewage effluent. In March 1993, in order to comply with this settlement stipulation, the permittee filed, with the State of Florida Public Service Commission (PSC), a petition for a Limited Proceeding to implement a water conservation plan. The PSC approved the permittee's petition on December 10, 1993. The PSC's order approving the petition was subsequently protested. In March 1995, the permittee filed a Stipulation with the PSC regarding the Limited Proceeding to Implement Water Conservation Plan in Seminole County (Docket No. 930256-WS). The permittee shall comply with the terms contained in the Petition of Sanlando Utilities Corporation for a Limited Proceeding to Implement Water Conservation Plan in Seminole County (Docket No. 930256-WS), which is hereby incorporated by reference.
3. The wastewater treatment facility permittee shall apply for permit revision on DEP Forms 62-620.910(1) and (2) for the approval of any proposed reclaimed water reuse system.

Condition VI.2. mentioned above was deleted because the applicant has decided to seek alternate financing mechanism to expedite reuse implementation.

Condition VI.3. mentioned above was deleted because this permit authorizes the three potential reuse sites and facility upgrade and therefore this condition is not needed.

The following conditions were added:

2. Beginning ninety (90) days from the issuance date of this permit, and every ninety (90) days thereafter, until start up of the reuse system, the permittee shall submit to the Department quarterly status reports on the progress of the final design, construction and implementation of the proposed plant upgrade and of the reuse system.
3. Extensions to the schedule contained in Condition VI.1. may be granted by the Department upon written request by the Permittee, and demonstration that any

delays encountered are beyond the ability of the Permittee to control and the substantial progress has been achieved in implementing the reuse program.

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4. The Permittee will provide copies to the Department of any correspondence it has with the Public Service Commission regarding planning, financing and implementation of the reuse program.

DISCHARGE MONITORING REPORTS

- a. Land Application System R001, Pages 5 and 6. Monitoring requirements were changed in accordance with permit condition I.B.I.
 - b. Land Application System R002, Pages 7 and 8. Monitoring requirements were included in accordance with permit condition I.B.8.
 - c. Pages 9 through 11. Daily sample results-Part B was split in 3 pages, one for each system (D001, R001, R002).
 - d. Ground Water Monitoring Report-Part D was added.
2. PUBLIC COMMENTS: See Attachment 1
 3. EPA CONCURRENCE:
EPA concurred with the draft permit per letter dated October 15, 1996.

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

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Permit Number: FL0036251-01
PATS Number: 59-276697

Application Date: 8/30/95
Additional Information: 9/25/95, 4/29/97
5/8/97

Permit Writers: Heriberto Collado, P.E.
Alvin Castro, P.E.

Public Notice Date: October 7, 1996

1. SYNOPSIS OF APPLICATION

a. Name and Address of Applicant

Sanlando Utilities Corporation
Mr. Hampton P. Conley,
Executive Vice-President
P.O Box 3884
Longwood, FL 32791

For:

Wekiva Hunt Club Wastewater Treatment Facility
144 Ledbury Drive
Seminole County
Longwood, FL 32791

b. Type of Facility

Privately-owned treatment works
Standard Industrial Classification Code: 4952

c. Facility Capacity

Existing Design Capacity:	2.90 MGD AADF
Proposed Increase in Design Capacity:	0 MGD
Proposed Total Design Capacity:	2.90 MGD AADF

Existing Permitted Capacity:	2.90 MGD AADF
Proposed Decrease in Permitted Capacity:	0 MGD AADF
Proposed Total Permitted Capacity:	2.90 MGD AADF

d. Description of Facilities

An existing 2.9 MGD annual average daily flow (AADF) activated sludge domestic wastewater treatment facility consisting of three (3) contiguous package wastewater treatment plants (0.97 MGD design capacity, each), connected in parallel with manual influent screening, aeration, clarification, chemical feed facilities, disinfection by chlorination, tertiary filtration, dechlorination, aerobic digestion of residuals and dewatering by two (2) vacuum assisted drying beds. This facility is classified as a major facility.

Construct: An upgrade to the existing 2.9 mgd aadf activated sludge domestic wastewater treatment facility, to provide reclaimed water for public access irrigation and meet Class I

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reliability. New facilities include a chlorine contact chamber, a transfer pump station, a reclaimed water distribution pump station and a 1.0 mg reclaimed water storage tank .

e. Applicant's Effluent Disposal and Reuse Location

Surface Water Discharge:

Receiving Waters:

Outfall D001

Sweetwater Creek, Cove Lake (Class III Fresh Waters)

Latitude: 28° 41' 51" Longitude: 81° 25' 54"

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

The use of existing outfall D002 is not authorized by this permit and therefore shall remain plugged.

Land Application Systems

Land Application: An existing 0.40 mgd aadf permitted capacity Part IV rapid rate restricted public access land application system (R001), consisting of four (4) percolation ponds with an approximate total wetted area of 338,000 square feet. Discharge to the percolation ponds shall be in accordance with Condition IV.22. of this permit. Land application system R001 is located approximately at latitude 28° 41' 51" N, longitude 81° 25' 54" W.

Land Application: Construct: A new slow-rate public access land application system (R002) consisting of a reclaimed water transmission/distribution system for public access irrigation of three (3) golf courses located in unincorporated Seminole and Orange Counties, with an anticipated reuse capacity of 1.1 mgd. Land application system R002 will include the Wekiva, the Sweetwater Country Club and the Sabal Point Golf Courses.

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

Outfall Serial Number D001

Flow (MGD): 2.13 AADF (8/94-7/95)

pH Range (Standard Units): 6.7-7.9 (8/94-7/95)

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

Parameters*	Reported Data		
	Annual Avg	Lowest Monthly Avg	Highest Monthly Avg
CBOD ₅ , mg/L	1.58	1.0	2.42
TSS, mg/L	1.0	1.0	2.40
Fecal Coliform, #/100 ml	7.8	0.0	64.0

TRC (for disinfection), mg/L	0.5	0.5	0.67
TRC (for dechlorination), mg/L	0.01	0.01	0.01
Ammonia as N, mg/L	0.34	0.19	0.67
Nitrate, as N, mg/L	9.12	6.47	11.9
Nitrogen, Total as N, mg/L	9.98	7.48	12.7
Total Kjeldahl Nitrogen, as N, mg/L	1.05	0.80	1.48
Phosphorus, Total as P, mg/L	0.19	0.13	0.37

* Reported data for August/94-July/95

g. System R001

Existing percolation ponds as a continuous effluent disposal system, were taken off-line in December 1990. Monitoring data is not available for the last five years.

2. PROPOSED EFFLUENT LIMITATIONS

Outfall, Serial Number D001

Parameters	Effluent or Reclaimed Water Limitations				
	Maximum/Minimum	Annual Average	Monthly Average	Weekly Average	Single Sample
Flow, MGD	Maximum	2.9	-	-	-
CBOD ₅ , mg/L	Maximum	-	5.0	-	6.0
TSS, mg/L	Maximum	-	5.0	-	6.0
Fecal Coliform, #/100 ml*	Maximum	-	-	-	800
TRC (for disinfection), mg/L	Minimum	-	-	-	0.5
TRC (for dechlorination), mg/L	Maximum	-	-	-	0.01
Whole Effluent Toxicity	-	7-day chronic toxicity tests			
pH, std. units	Range	6.0-8.5			
Nitrogen, Ammonia, Total as N, mg/L	Maximum	-	2.5	-	3.0
Nitrate Nitrogen, Total as N, mg/L	Maximum	-	Report	-	-
Nitrogen, Total as N, mg/L	Maximum	-	Report	-	-
Phosphorus, Total as P, mg/L	Maximum	-	0.40	-	0.50
Oxygen, Dissolved (DO), mg/L	Minimum	-	-	-	6.0

*The arithmetic mean of the monthly fecal coliform values collected during an annual period shall not exceed 200 per 100 mL of effluent 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]

PROPOSED RECLAIMED WATER LIMITATIONS

Land Application System Serial Number R001

Parameters	Effluent or Reclaimed Water Limitations				
	Maximum/Minimum	Annual Average	Monthly Average	Weekly Average	Single Sample
Flow, MGD	Maximum	0.4	-	-	-
CBOD ₅ , mg/L	Maximum	20.0	30.0	45.0	60.0
TSS, mg/L	Maximum	20.0	30.0	45.0	60.0
Fecal Coliform, #/100 ml	Maximum	-	-	-	800.0
TRC (for disinfection), mg/L	Minimum	-	-	-	0.5
pH, std. units	Range	6.0-8.5			
Nitrate, mg/L	Maximum	-	12.0	-	-

Land Application System Serial Number R002

Parameters	Effluent or Reclaimed Water Limitations				
	Maximum/Minimum	Annual Average	Monthly Average	Weekly Average	Single Sample
Flow, MGD	Maximum	1.1	-	-	-
CBOD ₅ , mg/L	Maximum	20.0	30.0	45.0	60.0
TSS, mg/L	Maximum	-	-	-	5.0
Fecal Coliform, #/100 ml	Maximum	See Note 1 below			
TRC (for disinfection), mg/L	Minimum	-	-	-	1.0
pH, std. units	Range	6.0-8.5			
Turbidity, NTU	Maximum	See Note 2 below			

1. Over a 30 day period, 75 percent of the fecal coliform values (the 75th percentile value) shall be below the detection limits. Any one sample shall not exceed 25 fecal coliform values per 100 mL of sample. Any one sample shall not exceed 5.0 milligrams per liter of total suspended solids (TSS) at a point before application of the disinfectant.

2. The maximum turbidity shall be limited as described in the approved operating protocol, such that the permit limitations for total suspended solids and fecal coliforms will be achieved. [62-610.463, 6-8-93]

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

Part I.A.1.

Outfall D001 Surface Water Discharge

Parameter	Basis for Limit/Monitoring Requirement	
Flow	Annual ADF	62-600.400(3)(b) FAC
CBOD ₅ (Treatment beyond secondary, WQBEL)	Monthly Average	62-600.740(1)(b)2.b. FAC

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TSS (Treatment beyond secondary, WQBEL)	Monthly Average	62-600.740(1)(b)2.b. FAC
Fecal Coliform (Basic disinfection)	Annual Average	62-600.440(4)(c)1. FAC
	Monthly Geo. Mean	62-600.440(4)(c)2. FAC
	Monthly Percentile	62-600.440(4)(c)3. FAC
	Single Sample Max.	62-600.440(4)(c)4. FAC
pH (non-WQBEL)	Minimum and Maximum	62-600.445 FAC
TRC (for disinfection) (Basic disinfection)	Minimum	62-600.440(4)(b) FAC
TRC (for dechlorination)	Single Sample Max.	62-600.440(2) FAC & 62-302.530(19) FAC
Acute Whole Effluent Toxicity		62-302.500(1)(d) FAC
Total Nitrogen	Maximum	62-302.530(48)(a)
Total Phosphorus	Monthly Average	62-600.740(1)(b)2.b. FAC
Dissolved Oxygen (WQBEL)	Minimum	62-650 FAC
Nitrogen Ammonia, Total as N, mg/L	Monthly Average	62-650 FAC
Nitrate Nitrogen	Maximum	62-302.530(48)(a)
Monitoring Frequency and Sample Type	All Parameters	62-601 FAC & 62-699 FAC and/or BPJ of permit writer
Sampling Location	All Parameters	62-601 FAC and/or BPJ of permit writer

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

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

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

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

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 proposed effluent water limitations will be achieved during the period beginning on the issuance date and lasting through the expiration date of the permit. The WQBELs for CBOD5, TSS, NH3, and Phosphorus were established by the Department on May 3, 1989 based on the monitoring information provided by Sanlando Utilities Corp. as part of the application for a construction permit for the expansion of the facility and as a result of intensive public input. Same WQBELs were included in the previous operation permit (State Permit DO59-

200447) and the Federal NPDES Permit. The WQBELs included in this permit are based on the previous state and federal permits.

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Criteria for the Whole Effluent Toxicity Tests requirements: The permit requires the performance of 7-day chronic toxicity tests to be conducted on freshwater test species with samples of 100% whole effluent. This requirement is similar to the whole effluent toxicity tests required by the Federal NPDES permit (Part IV Whole Effluent Toxicity Testing Program) except for the number of additional toxicity tests to be performed if a routine test indicates unacceptable chronic toxicity and the dilutions involved in these tests. EPA's requirement was based on Rule 62-4.244(4), F.A.C. under the mixing zone provisions of Chapter 62-4, F.A.C. State operation permit No. DO59-200447 authorized a mixing zone for dissolved oxygen (DO). The facility made improvements which resulted in higher concentrations of DO rendering the mixing zone unnecessary. The facility has not requested a mixing zone. Whole Effluent Toxicity Tests requirements will be conducted on an annual basis for the duration of this permit.

The following surface water quality monitoring requirements for the Sweetwater Creek/Cove Lake and for Wekiva River were included in state operation permit No. DO59-200447 and are included in this permit:

Parameter	Single Sample	Monitoring Frequency	Monitoring Location Site Number
Carbonaceous Biochemical Oxygen Demand (5 day)	Report	Monthly	Each sampling station
Chloride	Report	Monthly	Each sampling station
Total Organic Carbon (TOC)	Report	Monthly	Each sampling station
Nitrate Nitrogen	Report	Monthly	Each sampling station
NH3-Nitrogen, Total	Report	Monthly	Each sampling station
Total Kjeldahl Nitrogen	Report	Monthly	Each sampling station
Phosphorus, Total as P	Report	Monthly	Each sampling station
Ortho-Phosphorus, Total as P	Report	Monthly	Each sampling station
Total Suspended Solids	Report	Monthly	Each sampling station
Chlorophyll-a	Report	Monthly	Each sampling station
Alkalinity	Report	Monthly	Each sampling station
Oxygen, Dissolved (DO)	Report	Monthly	Each sampling station
pH	Report	Monthly	Each sampling station
Temperature	Report	Monthly	Each sampling station
Sediment Oxygen Demand	Report	Annually	Each sampling station

Surface water samples shall be taken at the monitoring site locations listed below:

Monitoring Location Site Number	Description of Monitoring Location
SWB-1	Station #1: 300' upstream of the deactivated outfall D002 (Background Sweetwater Creek).
SWD-2	Station #2: 2400' downstream of outfall D001, ±200' upstream of the southernmost tributary that enters from the creek from the east.
SWD-3	Station #3: 1000' upstream of the Wekiva Springs bridge.
SWD-4	Station #4: Downstream side of the Wekiva Springs Road bridge, 200'

	downstream of the northernmost tributary that enters from the west.
SWD-5	Station #5: North End of Cove Lake at the discharge culvert to Wekiva Marina.
SWD-6	Station #6: Weir structure located at River Bend Road (N. Weir).
SWB-7	Station #7: Miami Springs Road bridge, upstream of confluence with Sweetwater Creek (Background Wekiva River).
SWD-8	Station #8: Wekiva River, downstream of Sweetwater Creek discharge.

Monthly sampling shall be conducted to ensure that two (one sample for each extreme) of the twelve (12) samples are taken during low flow and high flow conditions in Sweetwater Creek and Cove Lake. USGS gauging stations in the Wekiva River will be used to predict high and low flow conditions.

The following conditions were included in the previous state operation permit and are included in this permit:

The permittee shall harvest the created wetland system south of Wekiva Springs road when the removal efficiency of the plants becomes less than 25% when measured on a yearly basis. To determine removal rates of nitrogen and phosphorus, water quality shall be monitored for total nitrogen and phosphorus prior to, and exiting the wetland. The permittee shall review the performance of the system and provide this information (along with any recommendation to harvest) to the Department for review.

During the life of this permit, the permittee shall periodically monitor the Sweetwater Creek/Lake Cove system for nuisance plants and in consultation with the Department, will consider selective herbicides which will not harm designated plants. In addition, The Department may require the manual removal of nuisance plants, related to the nutrient loading in the discharge.

Part I.B.1. Land Application System R001

Parameter		Basis for Limit/Monitoring Requirement
Flow ⁴	Monthly ADF	62-600.400(3)(b) FAC
CBOD ₅ ¹ (Secondary)	Annual Average	62-600.740(1)(b)1.a. FAC
	Monthly Average	62-600.740(1)(b)1.b. FAC
	Weekly Average	62-600.740(1)(b)1.c. FAC
	Single Sample Max.	62-600.740(1)(b)1.d. FAC
TSS ¹ (Secondary)	Annual Average	62-600.740(1)(b)1.a. FAC
	Monthly Average	62-600.740(1)(b)1.b. FAC
	Weekly Average	62-600.740(1)(b)1.c. FAC
	Single Sample Max.	62-600.740(1)(b)1.d. FAC
pH	Minimum and Maximum	62-600.445 FAC
TRC (for disinfection) ¹ (Basic disinfection)	Minimum	62-600.440(4)(b) FAC
Nitrate-Nitrogen	Single Sample Max.	62-610.510 FAC
Monitoring Frequency and Sample Type ^{2,3}	All Parameters	62-601 FAC & 62-699 FAC and/or BPJ of permit writer
Sampling Location	All Parameters	62-610.513 FAC

TRC (for disinfection) ¹ (High level disinf.)	Minimum	62-600.440(5)(b) or (c) FAC or in accordance with operating protocol pursuant to 62-610.463(2) FAC
Turbidity	Maximum	In accordance with operating protocol pursuant to 62-610.463(2) FAC
Monitoring Frequency and Sample Type	All Parameters	62-601 FAC & 62-699 FAC and/or BPJ of permit writer
Sampling Location	All Parameters	62-610.463(1) FAC

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

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

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

<u>Chapter</u>	<u>Effective Date</u>
62-600	06-08-93
62-601	05-31-93
62-610	01-09-96
62-699	05-20-92

B. BPJ refers to Best Professional Judgment

Footnotes:

1. Secondary treatment, TSS control and high level disinfection required pursuant to 62-610.460 FAC.

Part I.C.1.

Other Limitations and Monitoring Requirements:

Parameter		Basis for Limit/Monitoring Requirement
Flow	Annual ADF	62-600.400(3)(b) FAC
CBOD ₅ (Influent Monitoring)	Monitor & Report	62-601.300(1) FAC
TSS (Influent Monitoring)	Monitor & Report	62-601.300(1) FAC

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

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

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

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

4. **RESIDUALS MANAGEMENT**

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Class of residuals stabilization to be provided: "Class B"

Proposed method of residuals use or disposal: "Land application"

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

Site Name	Application Area (Acres)	Site Location	
		City	County
C. H. Cowart Site	133.3	Bunnell	Flagler
Henry I	133.3	-	Flagler
Beasley Property	115.8	-	Seminole
Clonts Ranch	133.3	-	Seminole
Kilbee Ranch	133.3	-	Seminole
Lee Ranches, Inc.	133.3	Chuluota	Seminole
Wheeler Ranch	133.3	Chuluota	Seminole
Henry II	133.3	-	Volusia
Fore Brothers	133.3	-	Volusia
Harris Sod I	72.9	-	Volusia
Harris Sod II	72.9	-	Volusia
Pell Property	85.3	-	Volusia
Nolan Ranch	133.3	-	Volusia
Stokes Site	111.1	Osteen	Volusia
Veino Ranch	56.9	Osteen	Volusia
Arnold Ranch	85.3	-	Lake
Whiting Ranch	133.3	-	Volusia

Class B residuals limits and monitoring requirements

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

Copper, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Lead, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Nickel, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Zinc, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Monitoring Frequency	All Parameters	62-640.700(1)(a) FAC

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

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

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

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

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5. GROUND WATER MONITORING

1. The following ground water monitoring wells shall be sampled on a quarterly basis:

Monitoring Location Site Number	Depth (Feet)	Aquifer Monitored	Well Type	New or Existing
W-1	20	Surficial	Intermediate	Existing
W-2	20	Surficial	Background	Existing
W-3	20	Surficial	Compliance	Existing
W-4	20	Surficial	Compliance	Existing

[62-522.600, 4-14-94][62-610.463,1-9-96]

2. The following parameters shall be analyzed for each of the monitoring wells identified in the Permit Condition III.1:

- a. Water level (field measurement)
- b. Nitrate (as N)
- c. Total dissolved solids
- d. Chloride
- e. Fecal Coliform
- f. pH
- g. Turbidity

[62-522.600 (1) (b), 4-1-94] [62-601.300(3), 62-601.700, and Figure 3 of 62-601, 5-31-93]

6. INDUSTRIAL PRETREATMENT REQUIREMENTS

The facility has demonstrated that the treatment plant has no significant or categorical industrial users, therefore no pretreatment program is required.

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

1. The following construction schedule for the upgrade of the wastewater treatment facility and the unrestricted public access reuse system shall be followed:

Implementation Step		
1	Complete the final design of the plant and reuse force main	September 1997
2	Start construction of upgrade to the facility and reuse force main	May 1998
3	End construction of upgrade to the facility and reuse force main	July 1999
4	Start reuse system testing	July 1999
5	End reuse system testing	September 1999
6	Start up reuse system	December 1999

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

2. Beginning ninety (90) days from the issuance date of this permit, and every ninety (90) days thereafter, until start up of the reuse system, the permittee shall submit to the Department quarterly status reports on the progress of the final design, construction and implementation of the proposed plant upgrade and of the reuse system.
3. Extensions to the schedule contained in Condition VI.1 of the permit may be granted by the Department upon written request by the Permittee and demonstration that any delays encountered are beyond the ability of the Permittee to control and substantial progress has been achieved in implementing the reuse program.
4. The Permittee will provide copies to the Department of any correspondence it has with the Public Service Commission regarding planning, financing and implementation of the reuse program.

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

The wastewater facility permit DO59-200447 was to expire on June 6, 1997 but was consolidated with the Federal NPDES Permit No. FL0036251 which expired on February 29, 1996. Since the facility made a timely submittal for renewal of the wastewater facility permit the expiration of the consolidated permit is administratively continued until issuance of this permit. Wastewater facility permit DO59-200447 contained the following effluent or reclaimed water limits:

For Surface Water Discharge

Parameters	Effluent or Reclaimed Water Limitations				
	Maximum/Minimum	Annual Average	Monthly Average	Weekly Average	Single Sample
Flow, MGD	Maximum	2.9	--	--	--
CBOD5, mg/L	Maximum	--	5.0	--	--
TSS, mg/L	Maximum	--	5.0	--	--
pH, std. units	Range	6.0-8.5			
TRC (for disinfection), mg/L	Minimum	--	--	--	0.5
Fecal Coliform, #/100 ml	Maximum	--	--	--	--
Nitrate Nitrogen, as N, mg/L	Report	--	--	--	--
Total Nitrogen as N, mg/L	Report	--	--	--	--
Nitrogen, Ammonia as N, mg/L	Maximum	--	2.5	--	--
Total Phosphorus, as P, mg/L	Maximum	--	0.4	--	--
Dissolved Oxygen (DO) mg/L	Minimum	--	--	--	6.0
TRC (for dechlorination), mg/L	Maximum	--	--	--	0.01

The following surface water quality monitoring requirements were included in Permit DO59-200447 for the Sweetwater Creek/Cove Lake.:

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Parameter	Single Sample	Monitoring Frequency	Monitoring Location Site Number
Carbonaceous Biochemical Oxygen Demand (5 day)	Report	Monthly	Each sampling station
Chloride	Report	Monthly	Each sampling station
Total Organic Carbon (TOC)	Report	Monthly	Each sampling station
Nitrate Nitrogen	Report	Monthly	Each sampling station
NH3-Nitrogen, Total	Report	Monthly	Each sampling station
Total Kjeldahl Nitrogen	Report	Monthly	Each sampling station
Phosphorus, Total as P	Report	Monthly	Each sampling station
Ortho-Phosphorus, Total as P	Report	Monthly	Each sampling station
Total Suspended Solids	Report	Monthly	Each sampling station
Chlorophyll-a	Report	Monthly	Each sampling station
Alkalinity	Report	Monthly	Each sampling station
Oxygen, Dissolved (DO)	Report	Monthly	Each sampling station
pH	Report	Monthly	Each sampling station
Temperature	Report	Monthly	Each sampling station
Sediment Oxygen Demand	Report	Annually	Each sampling station

Surface water samples were to be taken at the monitoring site locations listed below::

Description of Monitoring Location
Station #1: 300' upstream of the deactivated outfall D002 (Background Sweetwater Creek).
Station #2: 2400' downstream of outfall D001, ±200' upstream of the southernmost tributary that enters from the creek from the east.
Station #3: 1000' upstream of the Wekiva Springs bridge.
Station #4: Downstream side of the Wekiva Springs Road bridge, 200' downstream of the northernmost tributary that enters from the west.
Station #5: North End of Cove Lake at the discharge culvert to Wekiva Marina.
Station #6: Weir structure located at River Bend Road (N.Weir).
Station #7: Miami Springs Road bridge, upstream of confluence with Sweetwater Creek (Background Wekiva River).
Station #8: Wekiva River, downstream of Sweetwater Creek discharge.

Monthly sampling was required to ensure that two (2) of the twelve (12) samples were taken during low flow and high flow conditions in Sweetwater Creek and Cove Lake. USGS gauging stations in the Wekiva River were to be used to predict high and low flow conditions.

The following Specific Conditions were also included in Permit DO59-200447:

- The permittee shall harvest the created wetland system south of Wekiva Springs road when the removal efficiency of the plants becomes less than 25% when measured on a yearly basis. To

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determine removal rates of nitrogen and phosphorus, water quality shall be monitored for total nitrogen and phosphorus prior to, and exiting the wetland. The permittee shall review the performance of the system and provide this information (along with any recommendation to harvest) to the Department for review.

17. During the life of this permit, the permittee shall periodically monitor the Sweetwater Creek/Lake Cove system for nuisance plants and in consultation with the Department, will consider selective herbicides which will not harm designated plants. In addition, The Department may require the manual removal of nuisance plants, related to the nutrient loading in the discharge.

For Land Application System

No effluent or reclaimed water limits for the Land Application System were included in permit DO59-200447.

The Federal NPDES Permit No. FL0036251 became effective on April 1, 1991 and expired on February 29, 1996 but was consolidated with Operation Permit No. DO59-200447. The following effluent or reclaimed water limits were specified in the Federal NPDES Permit:

For Surface Water Discharge

Parameters	Discharge Limitations Requirements				
	Maximum/Minimum	Annual Average	Monthly Average	Daily Maximum	Single Sample
Flow, MGD	Maximum	--	Report	Report	--
COD ₅ , mg/L	Maximum	--	5.0	6.0	--
TSS, mg/L	Maximum	--	5.0	6.0	--
Fecal Coliform, #/100 ml	Maximum	See note 1			
pH, std. units (See Note 2)	Range	6.0-8.5 See note 2			
Total Ammonia, (as N), mg/L	Maximum	--	2.50	3.0	--
Total Phosphorus (as P)	Maximum	--	0.40	0.50	--
Dissolved Oxygen (DO)	Minimum	--	--	--	6.0
TRC (for dechl.), Interim, mg/L	Maximum	--	--	--	0.2
TRC (for dechl.) Final, mg/L	Maximum	--	--	--	0.01
Chronic Whole Effluent Toxicity	--	The effluent for outfalls 001 and 002 shall not be chronically toxic to aquatic animals			

1. The arithmetic mean of the monthly fecal coliform values, collected during an annual period shall not exceed 200 colonies per 100 ml of effluent sample. Any one sample shall not exceed 800 fecal coliform colonies per 100 ml of effluent sample.
2. If pH is monitored continuously via recorder, it shall not deviate outside the required range more than 1% of the time in any calendar month and no individual excursion shall exceed 60 minutes. Current Department rules do not allow these excursions.

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

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

10. DEP CONTACT

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

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Heriberto Collado, P.E.
Professional Engineer I
Department of Environmental Protection Central District Office
3319 Maguire Boulevard Suite 232
Orlando, FL 32803-3767

Telephone No.: (407) 894-7555 Extension 2235

11. **THE ADMINISTRATIVE RECORD**

The administrative record including application, draft permit, fact sheet, public notice (after release), comments received and additional information is available for public inspection during normal business hours at the location specified in item 10.

12. **PROPOSED SCHEDULE FOR PERMIT ISSUANCE**

Draft permit to Applicant and EPASeptember 10, 1996

Proposed Public Comment PeriodBeginning: October 7, 1996
Ending: December 30, 1996

Notice of Agency ActionTBD

13. **PROCEDURES FOR THE FORMULATION OF FINAL DECISION ON PERMIT ISSUANCE**

a. **Public Comment Period**

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

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

Department of Environmental Protection, Central District Office
3319 Maguire Boulevard, Suite 232
Orlando, FL 32803-3767
Attn: Al Castro, P.E.

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

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

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

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

- (4) A full explanation of the factual and legal reasons for each proposed change to the draft permit; and
- (5) A request that a public meeting be scheduled (if applicable) including a statement of the nature of the issues proposed to be raised at the meeting.

b. Public Meeting

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

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

c. Issuance of the Permit

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

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

d. Administrative Hearing

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

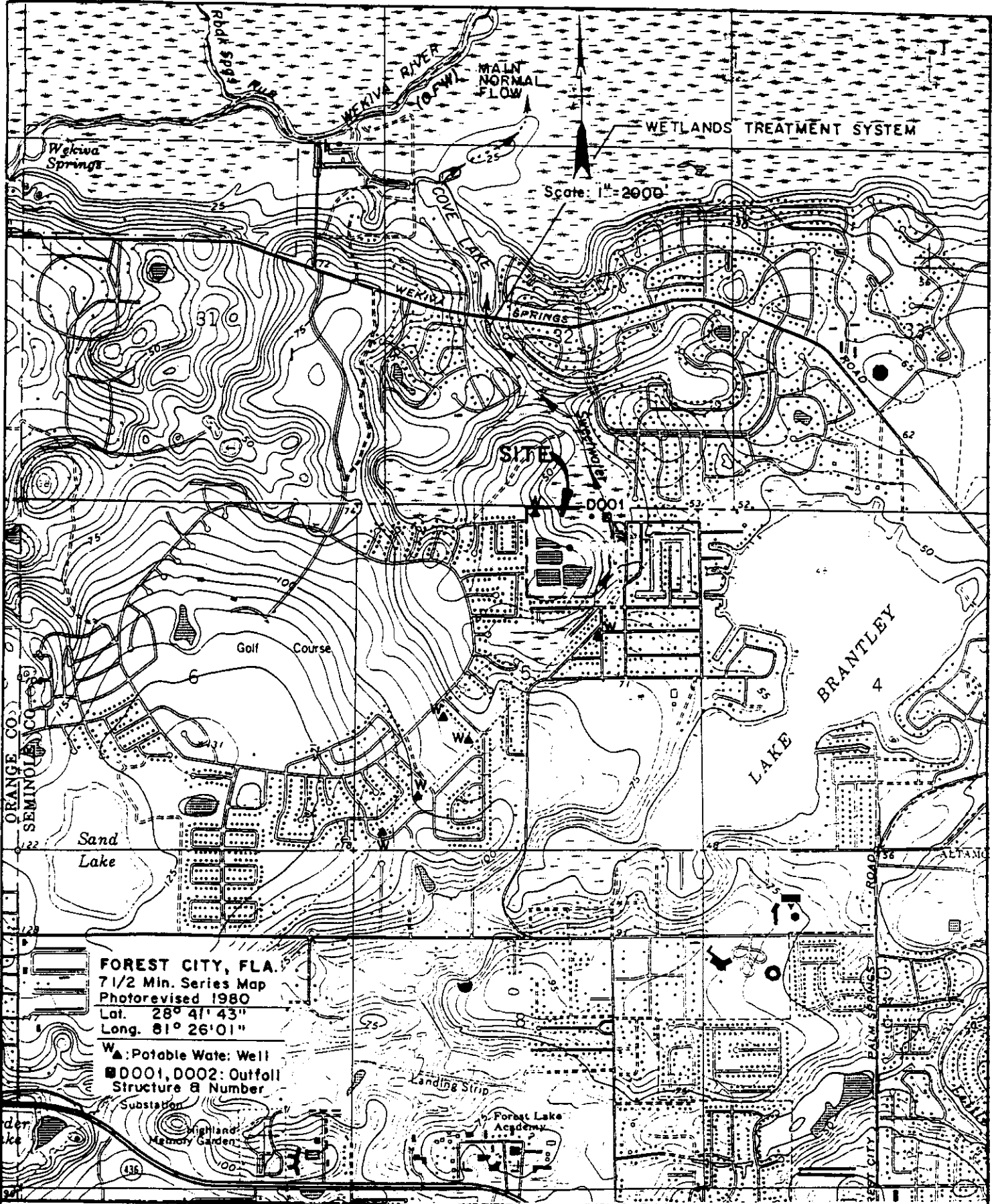
An administrative hearing is an evidentiary proceeding in which evidence is presented by testimony and exhibits before an independent hearing officer. The result of an administrative hearing is the issuance of the hearing officer's recommended order to the Department, including the hearing officer's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

The petition for an administrative hearing must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, within 14 days of publication of notice of agency action or within 14 days of personal receipt of notice of agency action, whichever occurs first. The petitioner is to mail a copy of the petition to the applicant at the time of filing. Failure to file a petition within this time period will constitute a waiver of any right such person may have to request an administrative determination (hearing) under section 120.57, F.S. The petition is to contain the following information:

- (1) The name, address and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;

- (2) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (3) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (4) A statement of the material facts which the petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (5) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (6) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.

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



FOREST CITY, FLA.
 7 1/2 Min. Series Map
 Photorevised 1980
 Lat. 28° 41' 43"
 Long. 81° 26' 01"

W▲: Potable Water: Well
 ■ D001, D002: Outfall Structure & Number

FACILITY LOCATION / TOPOGRAPHIC MAP
WEKIVA HUNT CLUB STP

Attachment A

Conklin Porter and Holmes
cph ENGINEERS, INC.
 1104 EAST ROBINSON STREET
 ORLANDO, FLORIDA 32801
 TEL. 407-425-0452

RESPONSE TO COMMENTS

FACILITY: WEKIVA HUNT CLUB WWTF
PERMIT NO. : FL0036251-01
PATS NO. : 59-276697
SUBJECT: Comments Received On The Draft Permit Pursuant To Notice Of Draft Permit Published On October 7, 1996.
DATE: April 2, 1997

The Notice of Draft Permit for the Wekiva Hunt Club WWTF was published in the Orlando Sentinel on October 7, 1996. As a result of the publication, the Department received a written request for a public meeting, dated November 5, 1996, from Mr. Kenneth Crooks, an attorney representing the Sweetwater Oaks Homeowners Association, Inc. (SOHA). The written request contained supporting comments that Department Staff felt were of significant nature to warrant that a Public Meeting be held. The purpose of the meeting being to solicit any additional comments and any supporting facts. Subsequently, Notices of Public Meeting were published in the November 15, 1996 and November 22, 1996 editions of the Orlando Sentinel. On December 12, 1996, Mr. John Lowndes, an attorney representing the applicant, Sanlando Utilities Corporation (SUC), submitted to the Department a written response to Mr. Crooks' written request. The Public Meeting was held at 7:00 P.M. on December 17, 1996.

At the Public Meeting, oral comments were submitted by Mr. Crooks and individuals in the audience. In order to ensure that individuals present at the meeting had the opportunity to submit any further written comments on the Draft Permit, the public comment period was extended until December 30, 1996. As a result, additional written comments, dated December 30, 1996, were received from Mr. Crooks and Ms. Nancy Prine of Friends of the Wekiva River, Inc.

The Department has considered the concerns expressed in the referenced written documents and at the Public Meeting and pursuant to Rule 62-620.555(4), Florida Administrative Code, offers the following as its official response. To avoid redundancy, a response is not necessarily provided to every individual comment received, if the item or issue raised has been addressed in a response to another comment.

1. Responses to Mr. Crooks' November 5, 1996 and Mr. Lowndes' December 12, 1996 Correspondences.

COMMENT: Mr. Crooks' Correspondence, Paragraphs 6c & 6d.: "... Permit Conditions V6 and 7 are predicated on a false assumption and Applicant's misstatement of the facts, in that prior agreement between Sanlando and Sweetwater Oaks dated November 7, 1991, has expired concurrently with the expiration of Sanlando's prior operating permit. Sweetwater Oaks has no intention of remaining the maintenance entity for the Cove Lake System under the subject Draft Permit. As a result, the Draft Permit is in violation of Rule 62-600.730(4), Florida Administrative Code, which requires a binding agreement with property owners for projects involving effluent discharge onto property not owned or under the direct control of the permittee".

Mr. Lowndes' Correspondence: "... The answer as quoted in paragraph 6c of the request was not a statement of what was going to happen in the future but what had happened in the past, and the answer was true and correct in all respects. There was no representation or even a suggestion of a future contract between SUC and SOHA for maintenance of Cove Lake. Paragraph 6d of the Request states "As a result, the Draft permit is in violation of Rule 62-600.730(4) Florida Administrative Code..." because that rule requires a "binding agreement with property owners where there is a discharge of effluent onto their property. Chapter 62-620 supersedes Chapter 62-600 in the permitting process where the discharge is in "Waters of the State" and Chapter 62-620 does not require a "binding agreement with Property Owners". SUC Wekiva WWTF discharges into Waters of the State".

Response: Department Staff reviewed the copy of the referenced agreement, attached to Mr. Crooks' written request, and could not find where in the Agreement an expiration period is directly indicated. Conditions V6 and V7 of the Draft Permit were included in the previous state operating permit issued to this facility and the Department's position is that these conditions are still needed to ensure that the created wetland continues to remove the targeted nutrient levels, prior to discharge into the Cove Lake system, and to continue to gauge and require corrective measures for nuisance plant control in same. The Draft Permit, as was the case with the previous operating permit, establishes that the permittee is the entity responsible for ensuring that the activities required in these conditions are undertaken. The logistical or financial mechanisms chosen by the permittee to accomplish these activities has been, and still is, up to the discretion of the permittee as there is no statutory or rule requirements authorizing the Department to specify such.

The Draft Permit is not in violation of Rule 62-620.455(4) (superseded Rule 62-600.730(4)). The water within the Sweetwater Creek/Cove Lake system is

classified as a Class III, freshwater and not private property. The Wekiva Hunt Club WWTF does indeed discharge into Waters of the State. Therefore, the requirements of Rule 62-620.455(4) do not apply in this case. The applicability of this rule is associated with reuse land application systems (such as the irrigation of golf courses with reclaimed water), where effluent or reclaimed water is directly applied on to private lands.

COMMENT: Mr. Crooks' Correspondence, Paragraph g: "The construction schedule for the unrestricted public access reuse system required under Condition VI.1. of the Draft Permit is inconsistent with the terms contained in the Petition of Sanlando Utilities Corporation for a limited Proceeding To Implement Water Conservation Plan in Seminole County (Docket No. 930256-WS)".

Mr. Crooks' Correspondence, Paragraph h: "The construction schedule for the unrestricted public access system included in condition VI.1. of the Draft Permit is also inconsistent with the terms and conditions of Sanlando's prior operating permit".

RESPONSE: Subsequent to protests filed pursuant to the Pubic Service Commission's (PSC) order approving the Applicant's Petition for a Limited Proceeding, on March 27, 1995, the Applicant filed a stipulation with the PSC which was entered into by several parties. Among the conditions contained in the stipulation, is the requirement that the Office of Public Counsel (OPC) file with the IRS a ruling request on the tax exempt status of the funds to be collected for construction of the reuse facilities. If a favorable ruling from the IRS is obtained, the stipulation will then require that the Applicant and the not-for-profit corporation to be formed enter into an agreement that will specify the terms and conditions upon which the reuse facilities shall be designed and constructed. Therefore, the construction of the reuse facilities hinges on obtaining that favorable ruling, a situation necessitated by historical circumstances not entirely under the control of the applicant.

As such, the Applicant requested that the construction schedule to be contained in the Draft Permit acknowledge that situation and thus be more generic until the IRS ruling is obtained allowing the reuse rate structure to be implemented. The applicant has stated to Department Staff that it continues to urge the OPC to expedite the ruling process. While the Department is concerned about the delay in implementing reuse at this facility, it feels it has no other recourse at this time but to honor that request. However, the Draft Permit has been revised to require the Applicant to provide quarterly reuse implementation status reports and to copy the Central District Office with any correspondence it has with the OPC or PSC in this regard.

In regard to the Draft Permit construction schedule not being consistent with the previous operating permit, the above response explains why the schedule has changed. It should be noted that the schedule contained in the previous permit did acknowledge that the implementation of reuse is dependent on certain actions being taken by the PSC. It also contained a proviso allowing extensions of time upon satisfactory demonstration to the Department justifying same.

COMMENT: Mr. Crooks' Correspondence, Paragraph i: "Condition VI. of the Draft Permit fails to include any provisions for prior study of the impacts, either positive or adverse, that the construction of a reuse system will have upon the Cove Lake System."

RESPONSE: The Department has no authority to require the permittee to conduct a study predicting the impact that removal of the surface water discharge will have on Sweetwater Creek or Cove Lake.

COMMENT: Mr. Crooks' Correspondence, Paragraphs j and k: These comments pertain to a letter from Sanlando to the Sweetwater Homeowner's association. "... The inconsistencies in Applicant's stated position concerning the required reuse system has not been addressed in the Conditions of the Draft Permit."

Mr. Lowndes' Correspondence, responding: "Paragraph 6j of the Request quotes a letter from SUC to SOHA dated September 30, 1996 as evidence that SUC is not pursuing the block rate structure necessary to fund the reuse system. As a matter of Fact, the Public Service Commission entered an order which has the potential of making the funding possible but which put certain preliminary burdens on the Office of Public Counsel. The Public Counsel has not completed the work with respect to these burdens in spite of continued urging by SUC. SUC is continuing to work on this matter. SUC has expended a significant amount of time, money and effort to bring about this funding and it continues to pursue this result."

RESPONSE: In an earlier response, the historical permitting requirements undertaken by the applicant in its pursuit of funding approval for the reuse system was addressed. The Applicant has been in compliance with previous permit requirements in this regard. The Department will continue to require the implementation of reuse as addressed in the Draft Permit. Mr. Lowndes' response above seems to reconfirm the applicant's commitment to continue doing what it can to pursue reuse within the framework of the PSC stipulation. As stated previously, the Department will require the applicant to provide written status reports, etc... in the Draft Permit to better document its efforts in this regard.

COMMENT: Mr. Crooks' Correspondence, Paragraph l: "The proposed construction schedule for the unrestricted access reuse system included in Permit Condition VI. of the Draft Permit fails to require the applicant to make any contribution whatsoever to resolve the current phosphorous loading and water quality deficiencies in the Cove Lake System, irrespective of the percentage of those current problems caused by Sanlando's use of the Cove Lake System as its means of surface water discharge and effluent disposal system."

RESPONSE: The purpose and derivation of the construction schedule has been addressed earlier in this document. It is not clear what type of "contribution" is being sought. The implementation of reuse and continuing use of the created wetlands would/are contributing to removal of nutrients in the Sweetwater Creek prior to discharge into Cove Lake.

COMMENT: Mr. Crooks' Correspondence, paragraph m: "Condition I.A.7.ii(a) of the Draft Permit reduces the number of toxicity tests required under the prior operating permit from two times per year to one annual toxicity test under the Draft Permit. This reduction in toxicity tests is contrary to the requirements of Applicant's current NPDES Permit No. FL0036251."

RESPONSE: Department rules and policy allow a reduction in sampling frequencies if a facility can demonstrate a compliant historical operational performance. The Department considered the reduction upon the request of the Applicant. To support that request, Department staff requested the Applicant to submit the most recent six sets of bioassay reports (for sampling required by the existing permits) along with related documents. The staff also reviewed the results of the Department's Biological Assessment sampling of the facility's effluent that was conducted in April 1996. As requested, the Applicant submitted the sets of bioassay reports, covering a period from March 1994 - August 1996.

Review of the sampling results submitted revealed that the facility's effluent consistently passed the permit required chronic toxicity tests. The results of the Department's Bioassessment study found that the effluent was not acutely toxic. Department staff believe that these results demonstrated a consistent compliant operation and thus a reduction in toxicity sampling can be granted. It should be noted that although a reduction in routine chronic toxicity testing will be allowed, the Department's protocol in the Draft Permit, in the event that the facility's effluent fails a routine test, requires more follow-up whole effluent definitive toxicity testing, to determine the extent of the toxicity, than the previous permits required. It also needs to be noted that the Environmental Protection Agency has reviewed and approved the Draft Permit and thus the reduced regular toxicity testing. The Department believes that allowing the

reduced testing does not pose an increased potential for water quality degradation of the receiving water.

COMMENT: Mr. Crook's Correspondence, paragraph n.: "Applicant has been recently cited for permit violations on, at least, March 7, 1996; July 7, 1995; August 16, 1995; September 17, 1995; and January 2, 1996, according to the DEP Facility Summary. In addition, Applicant has previously been involved in an EPA Consent Order in 1992, an EPA Consent Agreement in 1993; a Consent Agreement with the National Resources Defense Council, Inc., in 1992; and Public Service Stipulation in 1992. Further, on September 24, 1996, Christianne C. Ferraro, P.E., Program Administrator, Water Facilities, Department of Environmental Protection, stated in a letter to the Applicant that "ammonia and nitrate-nitrite levels and subsequently algal growth potential were of some concern" to DEP. As a result, Sweetwater Oaks would assert that Applicant has not shown "an excellent historical performance record," and should not have its required toxicity tests reduced to only once every twelve months."

Mr. Lowndes Correspondence, responding: "Paragraph 6m (sic) of the Request states that "the Applicant has recently been cited for permit violations...". SUC has not been cited for permit violations. SUC has on the dates mentioned experienced excesses in permit amounts of certain items which were observed by SUC, and reported by telephone to the DEP and followed up by a written report the next day. These excesses were all corrected immediately and for the most part were caused by electrical anomalies..."

RESPONSE: A review of Department records by staff resulted in the documentation, in the Facility Summary prepared on April 9, 1996, of the operational incidents cited in Mr. Crook's correspondence. The records review found that, while it is required that the incidents be documented in the Facility Summary, they appeared to be a result of equipment malfunctions and not indicative of any long term operational problems at the facility. These types of malfunctions/abnormal events are encountered and expected on occasion during the operation of domestic wastewater treatment facilities. Department rules require that malfunctions/abnormal events be reported in a timely manner to the Department and that corrective actions, as necessary, be expeditiously implemented by the Permittee. The file records suggest that the reporting and corrective action requirements for the referenced incidents were satisfactorily accomplished by the applicant.

Department records, and information submitted by the Applicant in support of the current permit renewal process, confirm that the Applicant has satisfied all the terms and conditions required in the Consent Agreements and Decree cited

in Mr. Crooks' correspondence. Most, if not all, of the violations cited in those administrative documents occurred during periods prior to that covered by the last State operating permit. While, as stated in the referenced September 24, 1996 letter, the Department is concerned with the nutrient situation in the Sweetwater Creek/Cove Lake system, operational data available in Department files show that the effluent produced by this facility has been consistently in compliance with the limits established in the previous state permit during the period covered by same. Therefore, the Department does not believe that the historical incidents and actions set forth in Mr. Crooks' correspondence support a reversal of the decision to allow a reduction in the frequency of effluent toxicity testing.

COMMENT: Mr. Crooks' correspondence, paragraph 60: "Sweetwater Oaks asserts that the Draft Permit has been based upon insufficient, inaccurate, and contradictory data concerning the level of fecal coliform currently found in the Cove Lake System. The chemical analysis provided to Seminole County Public Works Department by Universal Engineering Sciences on October 16, 1995, indicated fecal coliform as "too numerous to count" at each testing station. Yet, in its November 30, 1995 report to Seminole County Public Works Department, Universal Engineering Sciences' chemical analysis indicate that there was zero fecal coliform found at those same testing stations. Further, Universal Engineering Sciences' findings do not conform with the findings of Florida Ecological Laboratories, Inc., dated November 21, 1995, which indicated fecal coliform levels of 1,000 organisms per mL. in the Cove Lake System. The Draft Permit does not reflect that this technical information provided to Seminole County was provided to DEP, or that the said technical information was taken into account by DEP with reasonable assurances that water quality standards applicable to the Cove Lake System will be maintained under the subject Draft Permit."

Mr. Lowndes' correspondence, responding: "In Paragraph 60. of the request, SOHA mentions a chemical analysis ordered by and provided to Seminole County on October 16, 1995 by Universal Engineering Sciences. The October 16, 1995 test was the wrong test, and the fact it was the wrong test was the reason for the second test by Universal Engineering Sciences conducted on November 30, 1995. The November 30, 1995 test indicated "Zero fecal coliform". In a letter to SUC dated November 18, 1996, Universal Engineering Sciences stated "In summary, we believe that the tests run on the first round were unsophisticated and unusable."

The Florida Ecological laboratories, Inc. test dated November 21, 1995 referred to in Paragraph 60. of the request was a test commissioned by SOHA, and was a test of the water and not the sediment as were the Universal tests. The representative of the Florida Ecological Laboratories told SUC that the

result is what would be expected in any body of water with surface run off. SUC does not know to whom SOHA provided the results of this test.

RESPONSE: The information referenced in both correspondences was brought to the Department's attention after the application was deemed complete. Department staff have now reviewed this information.

In reviewing the information, it appears that Mr. Lowndes' retesting and result explanations are plausible. The presence of fecal coliforms in the receiving water is an indicator of pollution by warm blooded animals, not necessarily from humans alone. The information forwarded is inconclusive as to the source. Fecal coliforms are used as an indicator for the possible, not conclusive, presence of pathogenic organisms. Operational data for this facility, reviewed by staff, shows that the concentration of fecal coliform bacteria present in the effluent has been consistently much lower than the state requirements imposed in the last operating permit. It does not appear likely, as a result, that the facility's discharge has historically presented a public health risk.

2. Responses to Mr. Crooks' December 30, 1996 Correspondence.

COMMENT: Paragraph 1.: "Sweetwater Oaks residents uniformly request that the Draft Permit clarify that Sanlando Utilities Corporation shall perform the requirements of the "maintenance entity" and not Sweetwater Oaks. Further, the Draft Permit should include specific language in regard to maintenance of the Cove Lake System in order to keep it "free of noxious plants - surface algae - lymblia - and objectionable odors."

RESPONSE: The Department does not have the regulatory authority to require the requested actions in a wastewater permit. Similar conditions were incorporated in the previous permit as a result of the previous Cove Lake System Restoration Agreement entered into between the Applicant and SOHA.

COMMENT: Paragraph 2.: "Clear and precise standards need to be included in Condition V.7. of the Draft Permit for measurement of performance against the stated standards, as well as enforcement criteria and penalty provisions, in order to assure compliance by the applicant."

RESPONSE: The Department does not have the regulatory authority to unilaterally require the requested actions in a wastewater permit. See the response to the previous comment regarding the maintenance issue.

COMMENT: Paragraph 4.: "Regular and random spot sampling need to be required to confirm the levels of fecal coliform and the type and source of same, i.e., human vs. animal."

RESPONSE: As relayed in the response to paragraph 6o. of Mr. Crooks' November 5, 1996 correspondence, historical operational data has demonstrated that an effluent containing fecal coliform concentrations much lower than the limits, required under the previous operating permit, has been consistently produced by this facility. This fact and the likely possibility that fecal coliforms present in the water in Sweetwater Creek/Cove Lake are being introduced by other sources, does not seem to warrant the additional sampling requested at this time.

COMMENT: Paragraph 5.: "The subject Draft Permit does not properly reflect the type of water system being used to receive the discharged water. At present, the Draft Permit only refers to "Sweetwater Creek." The Creek ends at a location approximately 800' - 1000' upstream from the Wekiva Springs Road Bridge. The water then flows into a retention basin known as "Cove Lake" (both upper and lower sections) before then flowing over a weir into the Wekiva River."

RESPONSE: Normally, the Department identifies only the receiving water immediately adjacent to and receiving the treated effluent discharge. This is standard practice, even if the immediate receiving water body ultimately discharges to another one. However, the Department has no objection to identifying Cove Lake as part of the downstream receiving reach, since it was once part of the natural Sweetwater Creek system and the entire reach is classified as Class III Waters of the State. The Draft Permit will be revised accordingly.

COMMENT: Paragraph 6.: "A minimum of one (1) and perhaps two (2) additional monitoring stations need to be implemented in order to measure accurately the levels of nutrients being added to the system by the WWTF. There presently exists a situation where the first sample station is located approximately 2400' (.45 of a mile) downstream from the discharge pipe of the WWTF. The levels of added phosphorous to the system show an increase of four times the amount shown to be in the system upstream of the discharge point; and this level is not recorded until the discharge has transversed the aforesaid 2400' to monitoring station #2."

RESPONSE: An additional monitoring station is not needed for the desired result. The amount of nutrients discharged to the receiving water is accurately determined by the effluent levels of these parameters and the flow from the facility.

COMMENT: Paragraph 7.: "Sweetwater Oaks respectfully requests that DEP analyze the factual data regarding the backyard contributions of the loading of the system with run-off fertilizer. According to the Envirosmiths report, revised December 14, 1996, run-off from Sweetwater Oaks' rear yards represent only 3.5% of total phosphorous and 2.4% of total nitrogen from the stormwater run-off component."

RESPONSE: The issue of nutrient contributions by the residential yards is a separate matter not relevant to the issuance of this permit.

COMMENT: Paragraph 8.: "The calculation of total phosphorous loading associated with stormwater run-off, as opposed to the impact of the WWTF effluent discharge, is subject to inaccuracy, in that monitor station # 1 is too far removed for accurate measurements. 80% for stormwater run-off versus 20% for effluent discharge assumes a daily flow of 5.9 MGD. This may well be an average, but it is not the mean flow."

RESPONSE: The calculation of total phosphorous loading from the facility is based on the effluent levels of phosphorous and the flow from the facility, not on an instream station value.

COMMENT: Paragraph 9.: "No accurate assumptions about system loading levels can be made without a hydraulic study performed by a duly licensed and certified engineer. To our knowledge, none has ever been requested of the applicant nor provided to any agency for review."

RESPONSE: The Department does not intend to conduct a study of the loading levels. The Department is addressing the nutrient issue by requiring the Applicant to implement reuse.

COMMENT: Paragraph 10.: "A public access reuse system is at least four years away from being operational, assuming all approvals for same were received today. Unless specific performance-based conditions are placed upon the applicant, as part of any privilege to continue operations during the term of the subject Draft Permit, there will be no incentive for the applicant to move forward with implementation of a reuse system. Previous operating permits have not provided motivation to the applicant to aggressively pursue this much-needed alternative disposal system."

RESPONSE: As stated in an earlier response, the Department too is concerned about the delay in reuse implementation and will require better documentation by the Applicant of its efforts in meeting the requirements of the PSC stipulation.

The file record demonstrates that most of the delays encountered were due to actions beyond the ability of the Applicant to control. However, the Department is continuing to look at ways to bring reuse on line as quickly as possible and will be initiating discussions with the Applicant and representatives of SOHA for assistance in bringing this about.

COMMENT: Paragraph 11.: “The Applicant’s use of the “wetlands” area south of the Wekiva Springs Road Bridge as part of their overall discharge system is questionable, in light of the fact that said property is private property, owned by members of Sweetwater Oaks, and which at one time was a clear and open body of water. Now that area not only looks like a swamp, but appears to be used as one by the applicant. The owners of this area have not agreed to continue use of their private property for the betterment of a private, for profit company, without just compensation.”

RESPONSE: The creation and operation of the wetland in question was an integral component of the Cove Lake Restoration Plan developed and approved by the Department as part of the facility’s construction permit (# DC59-162321), modified on June 30, 1991. The purpose of this wetland is to reduce the nutrient loading in the receiving water, prior to entering Cove Lake. As mentioned during the Public Meeting, permit required sampling data submitted by the Applicant demonstrated that the wetland is meeting its intended purpose. The Cove Lake Restoration Plan (and as such the wetland) was approved after intense public input, in which the SOHA played a major part.

The issues of access and just compensation is a matter between the Applicant and the SOHA. However, denying the Applicant access to the wetland area will negatively impact an integral component of the restoration plan. Increased nutrient loading to Cove Lake must be expected if the wetland is not allowed to function as intended in the referenced plan. The final disposition of this wetland will need to be accounted for in the facility’s Wastewater Permit at that time.

COMMENT: Paragraph 12.: “The proposed Draft Permit provides for 2.9 MGD discharge from the applicant’s WWTF. This represents 7% of the total flow through Wekiva Springs State Park of 40 MGD ($\frac{2.9}{40} = 7\%$). It appears logical and sensible that this would explain the existence of lymblia downstream of the discharge point but not upstream.”

RESPONSE: The Department is unaware of any problem with nutrient levels in the Wekiva River causing the growth of lymblia. It may be possible that periods of high flows flushed some lymblia through the system. The Friends of the Wekiva have provided input and have not mentioned it as a problem.

COMMENT: Paragraph 13.: "Condition I.C.8. of the proposed Draft Permit requires that reclaimed water or effluent be monitored to primary and secondary drinking water standards contained in Chapter 62-550, F.A.C. The remaining conditions should be reviewed to assure that said standards are uniformly applied."

RESPONSE: Rules 62-601.300(4) and 62-601.500(3) require that the effluent be monitored for the primary and secondary drinking water standards on an annual basis only when a facility discharges to groundwater via reuse and land application systems. The intent of these rules is to ensure that underground drinking water sources are not contaminated by the direct discharge of effluent or reclaimed water to the groundwater. It was included in the Draft Permit only because the Applicant intends to use the on-site percolation ponds when the outfall structure is down for maintenance purposes. Therefore, it is not the intent of the rules to require that treatment be provided to produce an effluent or reclaimed water meeting drinking water standards.

COMMENT: Paragraph 15.: "Sweetwater Oaks supports the suggestion made by Vivian F. Garfein at the December 17th public hearing that a task force be appointed to monitor applicant's performance under the subject Draft Permit, and to discuss viable alternative means of resolving the current problems existing in the Cove Lake System."

RESPONSE: After this document is forwarded to the representatives of SOHA, the Applicant and Friends of the Wekiva, the Department will initiate formation of a small group, possibly a task force, to talk through some of the issues addressed in these comments. It is the desire of the Department to find an equitable solution, within its jurisdictional purview, to some of the concerns and significant issues expressed. It must be acknowledged that any such solution will take time to identify, develop and implement.

3. Response to Ms. Prine's December 30, 1996 Correspondence.

COMMENT: "Though the water quality of the Wekiva River is the most important concern to the Friends of the Wekiva River, we are also concerned that the grass carp in the Cove lake system are contained within that system and not be allowed to escape into the Wekiva River."

RESPONSE: During an on-site visit of the Sweetwater Creek/Cove Lake system in December 1996, Department staff noted that all known grass carp barriers were in place. The Department has no knowledge of grass carp escaping into the Wekiva River from Cove Lake.

ST. JOHNS RIVER



Henry Dean, Executive Director
John R. Wehie, Assistant Executive Director

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(407) 984-4940

☐ 618 E. South St.
Orlando, FL 32801
(407) 894-5423

SANLANDO UTILITIES CORP.

FEBRUARY 13, 1990

SANLANDO UTILITIES CORPORATION
P O BOX 3484
LONGWOOD, FL 32779

SUBJECT: CONSUMPTIVE USE PERMIT 2-117-0006UR

ENCLOSED IS YOUR PERMIT AS AUTHORIZED BY THE GOVERNING BOARD OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT ON FEBRUARY 13, 1990. PERMIT ISSUANCE DOES NOT RELIEVE YOU FROM THE RESPONSIBILITY OF OBTAINING PERMITS FROM ANY FEDERAL, STATE, AND/OR LOCAL AGENCIES ASSERTING CONCURRENT JURISDICTION FOR THIS WORK. THE ENCLOSED PERMIT WILL EXPIRE ON FEBRUARY 13, 1997.

IN THE EVENT YOU SELL YOUR PROPERTY, THE PERMIT WILL BE TRANSFERRED TO THE NEW OWNER IF WE ARE NOTIFIED BY YOU WITHIN NINETY (90) DAYS OF THE RECORDING OF THE SALE. PLEASE ASSIST US IN THIS MATTER SO AS TO MAINTAIN A VALID PERMIT FOR THE NEW PROPERTY OWNER.

THE PERMIT ENCLOSED IS A LEGAL DOCUMENT AND SHOULD BE KEPT WITH YOUR OTHER IMPORTANT DOCUMENTS. PLEASE READ THE PERMIT CAREFULLY SINCE YOU ARE RESPONSIBLE FOR COMPLIANCE WITH ANY CONDITIONS WHICH ARE A PART OF THIS PERMIT. COMPLIANCE IS A LEGAL REQUIREMENT AND YOUR ASSISTANCE IN THIS MATTER WILL BE GREATLY APPRECIATED.

ACCORDING TO CHAPTER 40C-2.40L AND SECTION 6.4 OF THE CONSUMPTIVE WATER USE HANDBOOK, A PERMANENT TAG WILL BE ISSUED BY THE DISTRICT FOR WELL IDENTIFICATION. THE TAG MUST BE PROMINENTLY DISPLAYED AT THE SITE OF WITHDRAWAL BY PERMANENTLY AFFIXING THE TAG TO THE PUMP, HEADGATE, VALVE, OR OTHER WITHDRAWAL FACILITY. FAILURE TO DISPLAY A PERMIT TAG SHALL CONSTITUTE VIOLATION OF A PERMIT CONDITION AND MAY, IF WILLFUL, BE GROUNDS FOR REVOCATION OF THE PERMIT. PLEASE REFER TO YOUR COPY OF 40C-2 FOR FURTHER CLARIFICATION.

SAUNDRA H. GRAY
Chairman - DeBary

JOE E. HILL
Vice Chairman - Leesburg

THOMAS L. DURRANCE
Treasurer - Holly Hill

ALICE J. WEINBERG
Secretary - Lake Mary

JOHN L. MINTON
Vero Beach

VAL M. STEELE
Melbourne Beach

RALPH E. SIMMONS
Fernandina Beach

JOSEPH D. COLLINS
Jacksonville

MERRITT C. FORE
Ocala

SANLANDO UTILITIES CORPORATION
PAGE TWO
FEBRUARY 13, 1990

YOU WILL FIND ENCLOSED A COPY OF THE MAP SUBMITTED WITH YOUR APPLICATION, WITH EACH WELL'S LOCATION AND NUMBER IDENTIFIED. WHEN PLACING THE TAG ON THE WELL, REFER TO THIS MAP TO ENSURE PROPER WELL IDENTIFICATION.

IF YOU HAVE ANY QUESTIONS CONCERNING YOUR PERMIT COMPLIANCE INFORMATION OR THE ATTACHED FORMS, CONTACT DANNISE KEMP, DIVISION OF RECORDS, ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, P. O. BOX L429, PALATKA, FLORIDA 32178-L429, TELEPHONE (904)328-832L.

THANK YOU FOR YOUR INTEREST IN OUR WATER RESOURCES.

SINCERELY,


DANNISE T. KEMP, DIRECTOR
DIVISION OF RECORDS

DTK:LH

ENCLOSURES: PERMIT
MAP
WELL TAG(S)

CC: DISTRICT PERMIT FILE
CONKLIN, PORTER & HOLMES -ENG INC.
GIERACH DAVID
P O BOX 1976
SANFORD, FL 327721976

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

Post Office Box 1429
Palatka, Florida 32078-1429

PERMIT NO. 10177-0004 0

DATE ISSUED FEBRUARY 13, 1990

CONSUMPTIVE USE

A PERMIT AUTHORIZING:

USE OF GROUND WATER FROM THE UNSATURATED ZONE OF THE
SATURATED POPULATION OF 43,225 PEOPLE IN THE AREA.

LOCATION:

SECTION 1, TOWNSHIP 11 N, RANGE 17 W,
BREVARD COUNTY

ISSUED TO:

(owner)

SANRION UTILITIES CORPORATION
P.O. BOX 6994

LORRAINE, FL 32779

Permittee agrees to hold and save the St. Johns River Water Management District and its successors harmless from any and all damages, claims, of liabilities which may arise from permit issuance. Said application, including all plans and specifications attached thereto, is by reference made a part hereof.

This permit does not convey to permittee any property rights nor any rights or privileges other than those specified herein, nor relieve the permittee from complying with any law, regulation or requirement affecting the rights of other bodies or agencies. All structures and works installed by permittee hereunder shall remain the property of the permittee.

This Permit may be revoked, modified or transferred at any time pursuant to the appropriate provisions of Chapter 373, Florida Statutes:

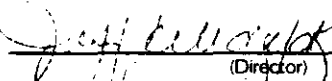
PERMIT IS CONDITIONED UPON:

USE OF GROUND WATER FROM THE UNSATURATED ZONE OF THE SATURATED POPULATION OF 43,225 PEOPLE IN THE AREA.

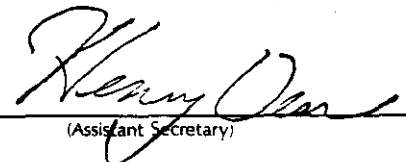
AUTHORIZED BY: St. Johns River Water Management District

Department of Resource Management Governing Board

By:


(Director)

By:


(Assistant Secretary)

THE WELL TAGS REFERENCED IN THE PERMIT LETTER
WILL BE FORWARDED TO YOU AT A LATER DATE.

"EXHIBIT A"

CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 2-117-2001

SANLAND UTILITIES CORPORATION

DATED FEBRUARY 13, 1970

1. DISTRICT AUTHORIZED STAFF, UPON PROPER IDENTIFICATION, WILL HAVE PERMISSION TO ENTER, INSPECT AND OBTAIN PERMISSION AND RELATED FACILITIES IN ORDER TO VERIFY COMPLIANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND CONDITIONS OF THIS PERMIT.
2. NOTHING IN THIS PERMIT SHOULD BE CONSTRUED IN LIMITING THE AUTHORITY OF THE ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT TO DECLARE A WATER SHORTAGE AND ISSUE ORDERS PURSUANT TO SECTION 375.170, FLORIDA STATUTES, OR TO FORMULATE A PLAN FOR IMPLEMENTATION DURING PERIODS OF WATER SHORTAGE, PURSUANT TO SECTION 375.246, FLORIDA STATUTES. IN THE EVENT OF A WATER SHORTAGE, AS DECLARED BY THE DISTRICT GOVERNING BOARD, THE PERMITTEE MUST ADHERE TO REDUCTIONS IN WATER WITHDRAWALS AS SPECIFIED BY THE DISTRICT.
3. PRIOR TO THE CONSTRUCTION, MODIFICATION, OR ADJUSTMENT OF A WELL, THE PERMITTEE MUST OBTAIN A WATER WELL CONSTRUCTION PERMIT FROM THE ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT PURSUANT TO CHAPTER 400-3, FLORIDA ADMINISTRATIVE CODE. CONSTRUCTION, MODIFICATION OR ADJUSTMENT OF A WELL WILL REQUIRE MODIFICATION OF THE CONSUMPTIVE USE PERMIT WHEN SUCH CONSTRUCTION, MODIFICATION OR ADJUSTMENT IS OTHER THAN THAT SPECIFIED AND DESCRIBED ON THE CONSUMPTIVE USE PERMIT APPLICATION FORM.
4. LEAKING OR IMPERATIVE WELL CASINGS, VALVES, OR CONTROLS MUST BE REPAIRED OR REPLACED AS REQUIRED TO PUT THE SYSTEM BACK IN AN OPERATIVE CONDITION ACCEPTABLE TO THE DISTRICT. EXPENSE TO MAKE SUCH REPAIRS WILL BE BORNE BY THE WELL OWNER IN ACCORDANCE WITH CHAPTER 17.21, (FCS), FLORIDA ADMINISTRATIVE CODE AND CHAPTER 375.40, FLORIDA STATUTES.
5. PERMITTEE MUST MITIGATE ANY ADVERSE IMPACT CAUSED BY WITHDRAWALS PERMITTED HEREIN ON LEGAL USES OF WATER EXISTING AT THE TIME OF PERMIT APPLICATION. THE DISTRICT HAS THE RIGHT TO CURTAIL PERMITTED WITHDRAWAL RATES OF WATER ALLOCATIONS IF THE WITHDRAWALS OF WATER CAUSE AN ADVERSE IMPACT ON LEGAL USES OF WATER WHICH EXISTED AT THE TIME OF PERMIT APPLICATION. ADVERSE IMPACTS ARE EXEMPLIFIED BUT NOT LIMITED TO:
 - (A) REDUCTION OF WELL WATER LEVELS RESULTING IN A REDUCTION OF 10% IN THE ABILITY OF AN ADJACENT WELL TO PRODUCE WATER;
 - (B) REDUCTION OF WATER LEVELS IN AN ADJACENT SURFACE WATER BODY RESULTING IN A SIGNIFICANT IMPAIRMENT OF THE USE OF WATER IN THAT WATER BODY.
 - (C) SALINE WATER INTRUSION OR INTRODUCTION OF POLLUTANTS INTO THE WATER SUPPLY OF AN ADJACENT WATER USE RESULTING IN A SIGNIFICANT REDUCTION OF WATER QUALITY AND
 - (D) CHANGE IN WATER QUALITY IN EITHER IMPROVEMENT OR LOSS OF USE OF A WELL OR WATER BODY.
6. PERMITTEE MUST MITIGATE ANY ADVERSE IMPACT CAUSED BY WITHDRAWALS PERMITTED HEREIN ON ADJACENT LAND USES WHICH EXISTED AT THE TIME OF PERMIT APPLICATION. THE DISTRICT HAS THE RIGHT TO CURTAIL PERMITTED WITHDRAWAL RATES OF WATER ALLOCATIONS IF WITHDRAWALS OF WATER CAUSE AN ADVERSE IMPACT ON ADJACENT LAND USE WHICH EXISTED AT THE TIME OF PERMIT APPLICATION. ADVERSE IMPACTS ARE EXEMPLIFIED BUT NOT LIMITED TO:

(A) SIGNIFICANT REDUCTION IN WATER LEVELS ON AN ADJACENT SURFACE WATER BODY;

(B) LAND COLLAPSE OR SUBSIDENCE CAUSED BY A REDUCTION IN WATER LEVELS; AND

(C) DAMAGE TO CROPS AND OTHER TYPES OF VEGETATION.

7. THE DISTRICT MUST BE NOTIFIED, IN WRITING, WITHIN 30 DAYS OF THE TRANSFER OF THIS PERMIT. ALL THE TERMS APPLICABLE TO THE PROVISIONS OF SECTION 400-2.351, FLORIDA ADMINISTRATIVE CODE, WHICH STATES THAT ALL TERMS AND CONDITIONS OF THE PERMIT SHALL BE BINDING ON THE TRANSFEREE.

8. A DISTRICT-ISSUED IDENTIFICATION TAG SHALL BE PROMINENTLY DISPLAYED AT EACH WITHDRAWAL SITE BY PERMANENTLY AFFIXING SUCH TAG TO THE PUMP, HEADGATE, VALVE OR OTHER WITHDRAWAL FACILITY AS PROVIDED BY SECTION 400-2.401, FLORIDA ADMINISTRATIVE CODE. PERMITTEE SHALL NOTIFY THE DISTRICT IN THE EVENT THAT A REPLACEMENT TAG IS NEEDED.

9. IF THE PERMITTEE DOES NOT SERVE A NEW PROJECTOR OR MAINS LOCATED WITHIN THE SERVICE AREA UPON WHICH THE ANNUAL ALLOCATION WAS CALCULATED, THE ANNUAL ALLOCATION WILL BE SUBJECT TO MODIFICATION.

10. ON THE TENTH DAY FOLLOWING THE MONTH OF RECORD, PERMITTEE MUST SUBMIT TO THE DISTRICT COPIES OF THE DER MONTHLY WATER TREATMENT PLANT REPORTS ON A MONTHLY BASIS FOLLOWING THE MONTH OF RECORD. THE PERMIT NUMBER MUST BE ATTACHED TO ALL REPORTS.

11. TREATED EFFLUENT MUST BE USED AS IRRIGATION WATER WHEN IT BECOMES PRACTICAL, ECONOMICALLY FEASIBLE, AND PERMISSIBLE UNDER APPLICABLE STATE AND FEDERAL STATUTES OR REGULATIONS PROMULGATED THEREUNDER.

12. WHENEVER FEASIBLE, THE PERMITTEE MUST USE ACTIVE VEGETATION THAT REQUIRES LITTLE SUPPLEMENTAL IRRIGATION FOR LANDSCAPING WITHIN THE SERVICE AREA OF THE PROJECT.

13. CONSTRUCTION MUST BE IN COMPLIANCE WITH SUBSECTION 400.14, F.S.

14. THIS PERMIT WILL EXPIRE 7 YEARS FROM THE DATE OF ISSUANCE.

15. MAXIMUM ANNUAL WITHDRAWALS MUST NOT EXCEED:

5,610.2 MILLION GALLONS IN 1990
5,754.0 MILLION GALLONS IN 1991
5,897.8 MILLION GALLONS IN 1992
6,041.6 MILLION GALLONS IN 1993
6,185.4 MILLION GALLONS IN 1994
6,329.2 MILLION GALLONS IN 1995
6,473.0 MILLION GALLONS IN 1996
6,616.8 MILLION GALLONS IN 1997.

16. MAXIMUM DAILY WITHDRAWALS MUST NOT EXCEED:

17.111 MILLION GALLONS IN 1990
17.723 MILLION GALLONS IN 1991
18.335 MILLION GALLONS IN 1992
18.947 MILLION GALLONS IN 1993
19.559 MILLION GALLONS IN 1994
20.171 MILLION GALLONS IN 1995
20.783 MILLION GALLONS IN 1996
21.395 MILLION GALLONS IN 1997.

17. THE PERMITTEE MUST CONTINUE NEGOTIATIONS WITH THE GOLF AND SWEETWATER COUNTRY CLUB FOR IMPLEMENTATION OF THEIR PLAN FOR SAILAND'S TREATED EFFLUENT AT THE SITES.

THE PERMITTEE MUST SUBMIT TO THE DISTRICT A REPORT DESCRIBING THE PROGRESS TOWARDS ACHIEVING THE ABOVE. THE REPORTS MUST BE SUBMITTED AT 3 MONTH INTERVALS FROM THE DATE OF ISSUANCE OF THIS PERMIT.

18. A WATER SAMPLE MUST BE TAKEN FROM THE WELL NOS. 1711 AND 1712 IN MAY AND OCTOBER OF EACH YEAR FOR THE DURATION OF THE PERMIT. THE SAMPLES MUST BE COLLECTED IMMEDIATELY FOLLOWING A PUMPING CYCLE WHENEVER POSSIBLE. IF THIS IS NOT POSSIBLE, THE WELL MUST BE ALLOWED TO DISCHARGE AT DESIGN CAPACITY FOR AT LEAST 20 MINUTES BEFORE THE SAMPLE IS COLLECTED. THE SAMPLES MUST BE ANALYZED FOR CHLORIDES (Cl-). IN ADDITION TO THE ANALYSES, THE REPORTS SUBMITTED TO THE DISTRICT MUST INCLUDE THE DATE OF SAMPLING, WELL NUMBER, THE LENGTH OF TIME THE WELL DISCHARGED BEFORE THE SAMPLE WAS TAKEN, THE NAME OF THE PERSON COLLECTING THE SAMPLE AND THE NAME OF THE COMPANY OR PERSON DOING THE ACTUAL ANALYSES. THESE REPORTS MUST BE SUBMITTED TO THE DISTRICT WITHIN 15 DAYS OF SAMPLING.

W-2,4

19. SOURCE CLASSIFICATION IS 100% CONFINED OR SEMI-CONFINED AQUIFER.

20. USE CLASSIFICATION IS 75% HOUSEHOLD TYPE, 10% COMMERCIAL, INDUSTRIAL TYPE, 10% WATER UTILITY AND 5% URBAN LANDSCAPE IRRIGATION.

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

Department of Resource Management
(WELL NOS. W-2, W-4 & W-1)

SPECIAL CONDITION COMPLIANCE

Water sample must be taken from the well(s) designated by the District in May and October of each year for the duration of the permit. The samples must be collected immediately following an irrigation cycle, whenever possible. If this is not possible, the well must be allowed to discharge at design capacity for at least 20 minutes before the sample is collected. The samples must be analyzed for chlorides (Cl⁻). In addition to the analyses, the report submitted to the District must include the date of sampling, well number, the length of time the well discharged before the sample was taken, the name of the person collecting the sample and the name of the company or person doing the actual analysis. These reports must be submitted to the District within 30 days of sampling.

DATE	WELL NUMBER	Length of discharge	chlorides (Cl ⁻)						

Name of Person Collecting Sample: _____

Analysis Prepared by: _____
Company
Address

Signature: _____

PERMIT ISSUED TO: Sanlando Util. Corp.

PERMIT NUMBER: 2-117-0006UR

Please send more forms: _____

Return to: St. Johns River Water Management District
 Division of Records
 P. O. Box 1429
 Palatka, Florida 32077

February 10, 1997

St. Johns River Water Management District
Post Office Box 1429
Palatka, Florida 32178-1429

Re: Consumptive Water Use Permit Renewal Submittal
2-117-0006UR Sanlando Utilities Service Area
CPH Project No. S1640.00

Dear Sir/Madam:

Please find enclosed an application for renewal for the above-referenced **Consumptive Water Use Permit**. The Sanlando Utilities service area is located in northwestern Seminole County in the City of Longwood. The utility is requesting a renewal of the existing permit (expires February 13, 1997).

In support of this application please find enclosed:

1. A check for the application fee in the amount of \$200.00
2. Three (3) copies of the Consumptive Use Individual Permit Application
3. Three (3) copies of bound submittal package containing supporting documentation

If you have any questions concerning any of the enclosed information, please do not hesitate to contact us at 407-425-0452.

Sincerely,



Terry M. Zaudtke, P.E., DEE
Senior Vice President

Enclosure

MFR: THIS IS THE FINAL PACKAGE, SUBMITTED 2/11/97, HANDCARRIED TO ORLANDO OFFICE. IT DOES NOT CONTAIN COPIES OF THE 7 HANDOUTS REFERED TO IN CONSERVATION PLAN. IT DOES CONTAIN ALL ELSE.

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

P.O. Box 1429
Palatka, Florida 32178-1429

0 020453

DATE Feb 11 19 97

RECEIVED FROM Sanlando Utilities Corporation

THE SUM OF Sanlando Utilities DOLLARS \$ 200.00

FOR App # 02-117-0006

AMOUNT OF ACCOUNT \$ 200.00

AMOUNT PAID 200.00

BALANCE DUE \$ 0

Thank You!

CASH CHECK M.O. CREDIT CARD

BY Jay Caviness

~~020453~~ ~~02-117-0006~~

SANLANDO UTILITIES CORPORATION

P.O. BOX 3884
LONGWOOD, FL 32791



FIRST UNION NATIONAL OF WINTER PARK
2525 ALOMA AVENUE
WINTER PARK, FL 32792

63-751
631

CHECK NO. 016598

PAY EXACTLY *****200 DOLLARS AND 00 CENTS

CONTROL NO 015665

TO THE
ORDER
OF

DATE
2/07/97

AMOUNT
\$200.00

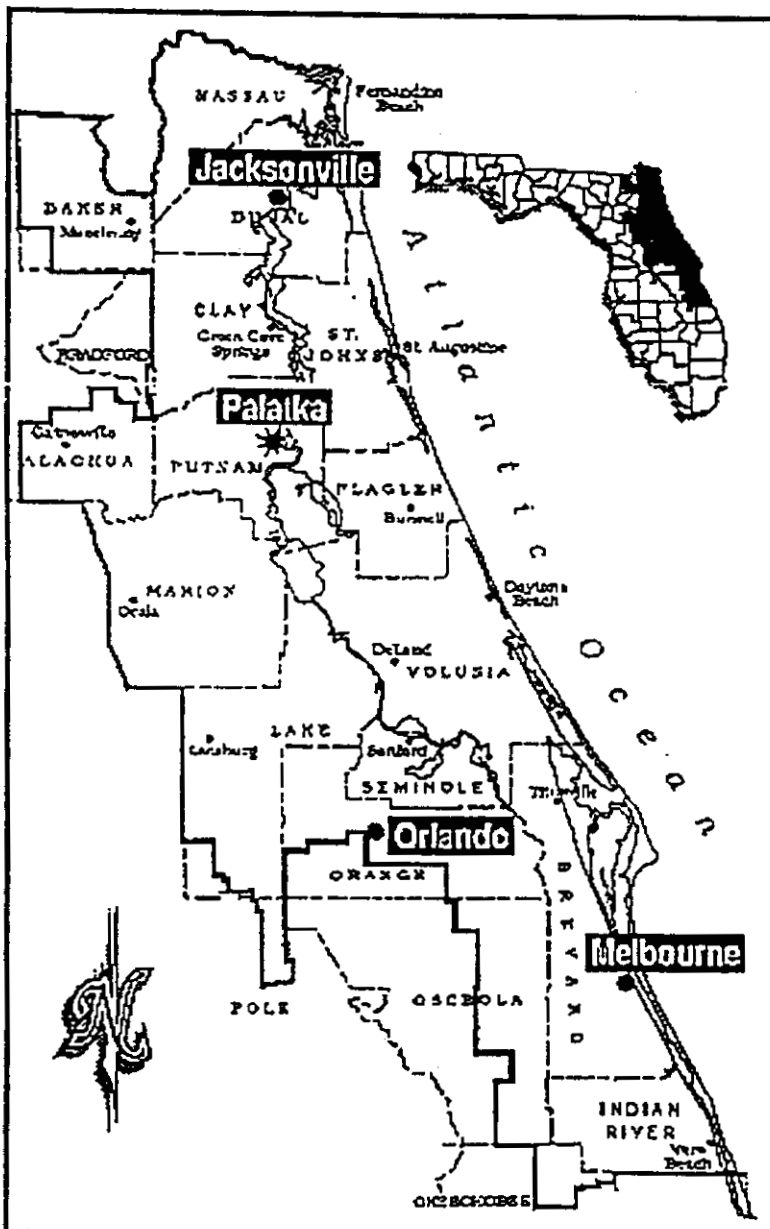
ST. JOHNS RIVER WATER
MANAGEMENT DISTRICT
P. O. BOX 1429
PALATKA FL 321781429

Hampton P. Cosby



St. Johns River Water Management District

PERMIT APPLICATION FOR CONSUMPTIVE USES OF WATER



Please mail to the nearest
District Service Center:
St. Johns River Water Management District

District Headquarters:
P.O. Box 1429
Highway 100 West
Palatka, Florida 32178
FAX: 904-329-4490

Jacksonville Service Center:
7775 Baymeadows Way
Suite 102
Jacksonville, Florida 32256
FAX: 904-730-6267

Orlando Service Center:
618 East South Street
Suite 200
Orlando, Florida 32801
FAX: 407-897-4354

Melbourne Service Center:
305 East Drive
Melbourne, Florida 32904
FAX: 407-722-5357

INTRODUCTION

Unless expressly exempted by law or District regulation, a consumptive use permit is required for any use, diversion or withdrawal of surface or ground water which meets any of the following criteria:

1. Average annual daily withdrawal exceeding one hundred thousand (100,000) gallons average per day on an annual basis.
2. Withdrawal equipment or other facility which have a capacity of more than one million (1,000,000) gallons per day.
3. Withdrawals from a combination of wells or of other facilities, having a combined capacity of more than one million (1,000,000) gallons per day.
4. Withdrawals from a well in which the outside diameter of the largest permanent water bearing casing is six inches or greater. For purposes of this paragraph, the diameter of the well at ground surface will be presumed to be the diameter of the well for the entire length unless the well owner or well contractor can demonstrate that the well has a smaller diameter water bearing casing below ground surface.
5. Within the Delineated Area as set forth in 6.7.1.6, Applicant's Handbook: Consumptive Uses of Water, withdrawals from a well in which the inside diameter of the largest permanent water bearing casing is five inches or greater. For purposes of this paragraph, the diameter of the well at ground surface will be presumed to be the diameter of the well for the entire length unless the well owner or well contractor can demonstrate that the well has a smaller diameter water bearing casing below ground surface.
6. Within the Delineated Area as set forth in 6.7.1.6, Applicant's Handbook: Consumptive Uses of Water, for freeze protection uses of water on agricultural and nursery property greater than 5 acres in size.
7. Any secondary use, as defined in paragraph 2.0(v) of the Applicant's Handbook: Consumptive Uses of Water, which exceeds 100,000 gallons per day estimated on an average annual basis.

PROCESSING

Processing of permit applications is in accordance with provisions of the Water Resources Act, Chapter 373, Florida Statutes, Chapter 120, Florida Statutes, Chapters 40C-1, 40C-2 and 40C-20, Florida Administrative Code and the Applicant's Handbook: Consumptive Uses of Water

The District will notify an applicant if an application is incomplete within 30 days of receipt and will inform the applicant of what additional information is required to make the application complete. For those permits processed as individual permits, the Board will issue or deny permits within 90 days of receipt of the completed application. Those permits processed as general permits will be issued within 30 days of receipt of a completed application.

Failure to obtain a permit prior to undertaking a regulated activity is a violation of District requirements, even if the project would receive a favorable review in a standard permitting process. The District may initiate administrative, civil or criminal actions against violators, and may require restorative steps.

PERMIT APPLICATION FOR CONSUMPTIVE USES OF WATER

Permit Type: Individual CUP <input checked="" type="checkbox"/> Secondary Use <input type="checkbox"/>
Standard General CUP <input type="checkbox"/>
Application is for: New use <input type="checkbox"/> Renewal <input type="checkbox"/>
Modification of Existing Permit <input type="checkbox"/>



APPLICANT INFORMATION

ORGANIZATION NAME (please print all responses)

S A N L A N D O U T I L I T I E S C O R P O R A T I O N

LAST NAME (please print all responses) FIRST NAME

C O N L E Y H A M P T O N P.

STREET NO. STREET NAME CITY

P. O. B O X 3 8 8 4 L O N G W O O D

STATE ZIP PHONE

F L 3 2 7 9 1 4 0 7 7 8 8 3 6 0 0

AGENT OR CONSULTANT

Same as above ORGANIZATION NAME (please print all responses)

C O N K L I N , P O R T E R & H O L M E S - E N G .

LAST NAME (please print all responses) FIRST NAME

H O L M E S W I L L I A M R.

STREET NO. STREET NAME CITY

1 1 0 4 E. R O B I N S O N S T. O R L A N D O

STATE ZIP PHONE

F L 3 2 8 0 1 4 0 7 4 2 5 0 4 5 2

HAMPTON P. CONLEY *Hampton P. Conley* 2/11/97
 APPLICANT'S NAME (Please print) APPLICANT'S SIGNATURE DATE

If a person other than applicant has completed this form, that person certifies by his signature below that he is acting as an authorized agent of the applicant and his signature will be certification that he is in fact the authorized agent.

WILLIAM R. HOLMES *William R. Holmes* 2/11/97
 AGENT'S NAME (Please print) AGENT'S SIGNATURE DATE

Same as applicant **OWNER INFORMATION**

LAST NAME (please print all responses) FIRST NAME

STREET NO. STREET NAME TYPE CITY

STATE ZIP PHONE

SITE INFORMATION

COUNTY S E M I N O L E ACRES OWNED 8 3 2 0

SECTION 0 1 TOWNSHIP 2 1 S RANGE 2 9 E
02, 05, 35, 36 2 2 S 2 9 E

PROJ. NAME PROJECT ACRES 8 3 2 0

COUNTY PARCEL NO. Wekiva 2 1 2 9 0 5 3 0 0 0 0 1 B-0000
Des Pinar 20-29-35-501-0000-019A
Knollwood 21-29-01-5CK-170H-0010

TYPE OF USE

- DARKEN ALL THAT APPLY**
- AESTHETIC AGRICULTURAL AQUACULTURAL COOLING AND AIR CONDITIONING
 - DEWATERING COMMERCIAL AND INDUSTRIAL ESSENTIAL FREEZE PROTECTION
 - GOLF COURSE RECREATION AREA HOUSEHOLD TYPE LIVESTOCK
 - NURSERY URBAN LANDSCAPE IRRIGATION WATER BASED RECREATION
 - UNACCOUNTED FOR WATER OTHER

Permit No. 0 2 - 1 1 7 - 0 0 0 6

AMOUNT REQUESTED	INCHES PER YEAR _____
	MILLION GALLONS PER YEAR _____
	MILLION GALLONS PER DAY 12.65
	DATE OF START OF USE Feb. 13, 1997

WATER USE MONITORING

All permittees are required to measure their water usage on a continuous basis. All users must report their use using form EN-50 to the District at the intervals specified in their permit. If used, meters must be 95% accurate, verifiable and installed according to manufacturers' specifications. Meters or alternative methods utilized by the water supplier to charge for the water may suffice as a water use monitoring tool.

Alternative methods must be 90% accurate and verifiable. All alternative methods must be approved in advance and in writing by District staff.

Same as applicant COMPLIANCE ENTITY

Consumptive Use Permits require the periodic submittal of data to the District. Please provide the name, address and phone number of the person who will be responsible for ensuring that the permitted conditions are met. Submittal of this information does not relieve the permit holder from the responsibility for compliance.

Name: Jerry M. Salsano, P.E., Utility Engineer
Address: Sanlando Utilities Corporation
P.O. Box 3884
Longwood, Florida 32791

Phone Number: (407) - 788-3600

SECONDARY TYPE USE

N/A - Per Sarah Garrett

Please supply information regarding the source(s) of water for your activities.

1. The name of the supplier of water. _____
2. Is this source of water potable or non-potable? (circle one) _____
3. What percentage of your total water use is from this supplier? _____
4. If 100% of your water use is not provided from the supplier, please indicate what uses are self supplied.
5. The applicant must also complete other packages which address the requested consumptive use identified in question 4.

Description of Use Classes: Each permit shall be identified with one or more of the following use classifications:

- (a) **Aesthetic use** - the use of water for fountains, waterfalls, and landscape lakes and ponds where such uses are entirely ornamental and decorative.
- (b) **Agricultural use** - use of water for the commercial production of crops or the growing of farm products including, but not limited to, vegetables, citrus and other fruits, pasture, rice and sod.
- (c) **Aquacultural use** - the use or withdrawal of water for cultivation of animal and plant life in a water environment, including but not limited to food fish, aquatic bait, game fish, aquatic plants (i.e. watercress), alligators, tropical fish, shellfish, and turtles.
- (d) **Commercial and industrial process use** - the use of water essential to the production of the goods or services provided by a business establishment.
- (e) **Cooling and air conditioning use** - the use of water for heating or cooling, or for air conditioning.
- (f) **Dewatering use** - the removal of water from a specific area to facilitate mining or construction.
- (g) **Essential use** - the use of water strictly for fire fighting purposes, health and medical purposes and the use of water to satisfy federal, state or local public health and safety requirements.
- (h) **Freeze protection** - the periodic and infrequent use of water to protect agricultural and nursery crops from damage due to low temperatures.
- (i) **Golf course use** - water used to irrigate an establishment designed and used for playing golf.
- (j) **Household use** - the use of water for personal needs or for household purposes such as drinking, bathing, heating, cooking, sanitation or cleaning, whether the use occurs in a residence or in a business or industrial establishment.
- (k) **Livestock use** - the use of water for watering or washing of livestock.
- (l) **Nursery use** - the use of water on premises on or in which nursery stock is grown, propagated or held for sale or distribution or sold or reshipped.
- (m) **Recreation area use** - the use of water for the maintenance and support of intensive recreational areas such as, but not limited to, playgrounds, football, baseball, and soccer fields.
- (n) **Urban landscape irrigation** - the outside watering or sprinkling of shrubbery, trees, lawns, grass, ground covers, plants, vines, gardens and other such flora which are situated in such diverse locations as residential landscaping, recreational areas, cemeteries, public, commercial and industrial establishments, public medians and rights of way.
- (o) **Water based recreation use** - water used for public or private swimming and wading pools, including water slides. This term does not include pools specifically maintained to provide habitat for aquatic life.
- (p) **Water utility use** - water used for withdrawal, treatment, transmission and distribution by potable water systems.

SOURCES OF WATER (Summary Data Sheet)

Please supply information regarding the source(s) of water for your activities. Include information regarding all wells/pumps on the property.

Table 1.
SUMMARY OF GROUND WATER SOURCES
SEE ALTERNATE TABLE 1

Well or Pump Number	Wellfield or Facility Name	Casing Dia. (in)	Casing Depth (ft)	Total Depth (ft)	Operation Hrs/wk	Pump Capacity (in gpm)	Date Drilled	Existing or proposed (date)	Type of Use*

* - See use descriptions on page 4. If more than one use type, show predominate use

Table 2
SUMMARY OF SURFACE WATER SOURCES NONE

Pump Number	Pump Capacity (gpm)	Operation Hrs/wk	Acreage of Surface Water Body	Name of Source	Status (date if proposed)	Type of Use

PROPERTY CONTROL AND LOCATION

I. PROPERTY CONTROL

1. Property Ownership - Provide a copy of the excuted deed indicating the current owner of the property which is the subject of this application.

Not Applicable

2. Leased Property - Provide a copy of the current lease, or a letter signed by the property owner describing the lease arrangement and the duration of the lease.

Not Applicable

II. LOCATION MAPS

Provide a recent map (preferably a USGS topographic quadrangle, a map from a county plat directory, or survey map) indicating the following:

- (a) property boundaries (include approximate lengths of boundaries in feet); (public supply water uses please show service areas)
(b) All existing and proposed withdrawal point locations. Indicate well number and casing size for ground water withdrawals, and pump number and maximum pump capacity for surface water withdrawals;
(c) a north arrow;
(d) a scale designation - all maps should have a minimum scale of 1 inch = 2,000 feet; and
(e) labeled landmarks such as roads and political boundaries.

Please provide identification numbers and date permitted if you obtained or are in the process of obtaining any of the following permits for this project

Environmental Resource Permit (ERP) _____

EPA Ordered Environmental Impact Statements

(For Wekiva)

FDEP No. FLO036251

Agricultural Discharge

Surface Water Discharge

FDEP Wastewater Site Identification No.

Wekiva Hunt Club WWTP D059-200447

Woodlands WWTP D059-248243

FDEP Public Water Supply (PWS) Identification No.

3591121

Alternate Table 1. SUMMARY OF GROUND WATER SOURCES

Well or Pump Number	Wellfield or Facility Name	Casing Diam. (in)	Casing Depth (ft)	Total Depth (ft)	*Operation Hrs/Wk	Pump Capacity (gpm)	Date Drilled	Existing or Proposed (date)	Type of Use
A	Des Pinar	10\8	598.5	925	0.18	590	11-69	Existing	Public Supply
B	Des Pinar	16	160	500	79.11	2700	9-81	Existing	Public Supply
C	Des Pinar	12	103	420	25.73	1600	12-71	Existing	Public Supply
D	Des Pinar	12	150	420	95.44	1800	1-77	Existing	Public Supply
L	Des Pinar	16	161	400	0.00	N/A	96	Off-Line	Public Supply
E	Knollwood	6	604	830	0.15	350	1-66	Existing	Public Supply
F	Knollwood	10	197	550	11.04	1000	72	Existing	Public Supply
G	Wekiva	10	133	479	76.30	1250	1-73	Existing	Public Supply
H	Wekiva	12	196	554	76.30	1250	3-73	Existing	Public Supply
I	Wekiva	16	205	560	76.30	1500	8-77	Existing	Public Supply
J	Wekiva	18	181	925	105.65	3500	11-79	Existing	Public Supply
K	Wekiva	16	209	550	76.30	2000	9-81	Existing	Public Supply

* The Operation Hours/Week is updated 1996 actual data

III. ADJACENT PROPERTY OWNERS

(not applicable to Secondary Users Permits)

Provide a complete list of adjacent property owners and mailing address as prescribed in Tables #3 and 4. Attach additional sheets as needed.

Name	Address	City	State	Zip Code
Adjacent Property Owners significantly greater than 100. See attached letter in Attachment E.				

USE OF LOWEST ACCEPTABLE QUALITY WATER SOURCE

1. Are you proposing to use the most appropriate (lowest quality) source of water?
N/A - Majority of water is used as potable water.
2. Is reclaimed water readily available as a source of water?
N/A

WATER CONSERVATION PLAN

A water conservation plan must be submitted with this application. Please refer to Section 12.0 and Appendix K, Applicant's Handbook, Consumptive Uses of Water, for information on how to prepare a plan and the plan components.

See Attachment I

Table 3 - Ground Water Withdrawals

Withdrawal Amount	Property Owners to be Listed
less than 1,000,000 gallons maximum per day -and- less than 100,000 gallons per day annual average	None required
max day is between 1 and 5 million gallons -or- average day is between 100,000 and 500,000 gallons	All property owners within 600 feet of well or 100 feet of property boundary.
max day is between 5 and 10 million gallons -or- average day between 500,000 and 1,000,000 gallons	All property owners within 1,320 feet of each well or 200 feet of the property boundary.
max day exceeding 10 million gallons -or- average day exceeds 1,000,000 gallons	All property owners within 2,640 feet of the well, or 400 feet of the property boundary.

Table 4 - Surface Water Withdrawals

Withdrawal Amount	Property Owners to be Listed
surface area of the withdrawal lake is less than 80 acres	All riparian land owners on lake and those up to 600 feet downstream if the lake has an outlet
surface area of the withdrawal lake is greater than 80 acres	All riparian land owners up to 600 feet from the withdrawal point
Withdrawals from a stream and average daily pumpage is less than 5 million gallons	All riparian land owners up to 600 feet upstream and 1,320 feet downstream from the withdrawal point
Withdrawals from a stream and average daily pumpage is greater than 5 million gallons	All riparian land owners up to 1,320 feet upstream and 2,640 downstream from the withdrawal point

SANLANDO UTILITIES CORPORATION

P.O. BOX 3884
LONGWOOD, FL 32791



FIRST UNION NATIONAL OF WINTER PARK
2525 ALOMA AVENUE
WINTER PARK, FL 32792

63-751
631

CHECK NO. 016598

PAY EXACTLY *****200 DOLLARS AND 00 CENTS

TO THE
ORDER
OF

ST. JOHNS RIVER WATER
MANAGEMENT DISTRICT
P. O. BOX 1429
PALATKA FL 321781429

CONTROL NO 015665

DATE
2/07/97

AMOUNT
\$200.00

Hampton P. Lamb

~~CIT. NO. 015665~~
SANLANDO UTILITIES CORPORATION

CHECK NO. 016598

INVOICE #	DATE	MEMO	INVOICE AMT	DISCOUNT	NET AMOUNT
970203	2/03/97	CONSUMPTIVE USE PER	200.00	0.00	200.00

CONSUMPTIVE USE PERMIT
SUPPORTING DOCUMENTATION

PREPARED BY:

CONKLIN, PORTER AND HOLMES- ENGINEERS, INC.
1104 E. Robinson street
Orlando, Florida 32801
Phone: 407-425-0452
FAX: 407-648-1036

February 10, 1997

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ATTACHMENT A	- Public Supply and Essential Type Uses
ATTACHMENT B	- Water Audit
ATTACHMENT C	- Location Map
ATTACHMENT D	- Well Data
ATTACHMENT E	- Request for Notification of Adjacent Property Owners
ATTACHMENT F	- Public Service Commission Certificate
ATTACHMENT G	- Monthly Operating Reports
ATTACHMENT H	- Public Supply Supporting Documentation
ATTACHMENT I	- Water Conservation Plan

ATTACHMENT A
Public Supply and Essential Type Uses



PUBLIC SUPPLY AND/OR ESSENTIAL TYPE USES

(Submit 2 copies of application, supplemental information, drawings, calculations, etc.)

See Attachment H for Supplemental Information

I. YEAR-ROUND PUBLIC SUPPLY

A. POTABLE WATER SUPPLY

1. Please submit a map (minimum 1:2000 scale or larger) showing the current and proposed service area.
2. Please submit any of the following that apply:
 - a) Copy of the Public Service Commission (PSC) certification describing service area;
 - b) Copy of local government franchise agreement; or
 - c) Documentation that utility is not regulated by PSC or local government.
3. Complete Table 1 - Historic Water Use, and Table 2 - Projected Water Use as a basis for the requested allocations. In addition:
 - (a) Provide the past 12 months of monitored water use data (MOR's if available) and calculate historic average daily and maximum daily per capita use;
 - (b) Explain the method of projecting population growth (historic projection preferred): See Attachment H

Attach documentation for method of determining growth projections.

B. WASTEWATER DISPOSAL

1. Specify the present and projected amounts of wastewater:

	PRESENT (mgd)*	PROJECTED (5 YEARS)	PROJECTED (10 YEARS)	PROJECTED (15 years)
Average daily disposal *	2.08/0.38	2.13/0.39	2.19/0.40	2.24/0.41
Plant capacity	2.9/0.5	2.9/0.5	2.9/0.5	2.9/0.5

*mgd = million gallons per day

↗ Identify WWTP if more than one

Wekiva / Des
Hunt Club / Pinar

2. Specify the percentage for each type of disposal (total 100%)

DISPOSAL TYPE	PRESENT %	PROJECTED % (5 YEARS)	PROJECTED % (10 YEARS)	PROJECTED % (15 YEARS)
Reuse	0	*25%	*50%	*50%
Offsite Discharge <small>Wekiva Hunt Club</small>	100%	75%	50%	50%
Individual Septic Tanks				
On-site Percolation Ponds <small>Des Pinar</small>	100%	100%	100%	100%
On-site Spray Fields <small>* Des Pinar</small>				
Other				

*See Documentation in Attachment H

C. REUSE OF RECLAIMED WATER

1. Describe the method of reuse by completing the table below:

Check here if no reuse projected at this time

TYPE OF SITE <small>(golf, landscape, etc)</small>	FACILITY NAME	ACREAGE	AVERAGE USE <small>(mgd)</small>	PROJECTED AVE. USE (mgd)
Golf Course	Sabal Point	132	—	0.451
Golf Course	Sweetwater Country Club	105	—	0.359
Golf Course	Wekiva	85	—	0.291

* 2. Please provide a map (minimum 1:2000 scale) showing the location of the sites listed in the table above as well as the location of all major existing reuse lines and those proposed for the next 15 years.

*See Attachment H

3. If wastewater is treated on-site specify level of treatment:

primary secondary secondary with disinfection

D. ESSENTIAL USE

Are you requesting the use of any of the identified sources for fire protection? YES NO

If yes, please list the wells/pumps that will be used.

All wells are connected to the Water Treatment Facilities which
are the sources for all fire hydrants in the district.

TABLE 1

HISTORIC WATER USE
SEE ALTERNATE TABLE 1

Last 7 years	Past Population	Number of Units	Per Capita Usage (gpcd)	Household Avg. day (mgal)	Household Max. Day (mgal)	Commercial/Industrial Avg. day (mgal)	Commercial/Industrial Max. day (mgal)	Irrigation (urban landscape or common areas (mgal)(ave. day)	Irrigation (urban landscape or common areas (mgal) (max. day)	Water Utility (mgal)	Unaccounted for water (mgals)	Total Annual Avg. day (mgal)	Total Annual Max day (mgal)
19													
19													
19													
19													
19													
19													
19													

Table Definitions

- Household Use: Amount sold or given to domestic customers. Typically includes 5/8 and 3/4 inch metered accounts. Includes private lawn irrigation.
- Population: Estimated number of residents served.
- # of Units: Number of residential units served.
- Per Capita Use: Use per person per household; Average household use (column 5) divided by population (column 2)
- Commercial/Industrial Use: Amount sold to commercial customers. Typically includes meters larger than 1 inch. Include bulk customers in this use.
- Irrigation Use: Amount used for common area irrigation owned or maintained by a public entity. This does not include areas privately owned areas or amounts previously accounted for under household use.
- Water Utility: Misc. monitored use (eg. fire protection, sewer flushing, construction use, & maint. features)
- Unaccounted Water: Unaccounted for water use. Obtained from an audit of system.
- Total Use: Sum of all uses - household + comm/ind. + irrigation + water util. = MOR's for year

**ALTERNATE TABLE 1
HISTORIC WATER USE**

Last 7 Years	Past Population (5)	Number of Residential Units (5)	Per Capita Usage (gpcd) (5)	Household		Commercial/ Industrial		Irrigation (urban landscape, recreation or common areas)	Water Utility	Unaccounted for water	Total Annual	Total Annual
				Avg. day (mgal)	Max. day (mgal)	Avg. day (mgal)	Max day (mgal)	Avg. day (mgal)	Annual Volume (mgal)	Avg. day (mgal)	Avg. day (mgal)	Max day (mgal)
1990	27069	8887	272	7.391	12.348	0.716	0.583	0.505	N/A	1.818	10.430	17.424
1991	27376	8954	231	6.324	9.465	0.664	0.526	0.502	N/A	1.115	8.606	13.944
1992	27660	9013	237	6.559	11.822	0.677	0.649	0.525	N/A	1.384	9.146	16.484
1993	27919	9096	250	6.969	11.887	0.635	0.593	0.579	N/A	0.993	9.176	15.652
1994	28090	9151	214	6.023	10.921	0.606	0.700	0.516	N/A	0.615	7.761	14.072
1995	28277	9211	235	6.646	11.410	0.413	0.708	0.532	0.78	1.208	8.801	15.111
1996	28426	9250	252	7.170	12.250	0.406	0.694	0.574	4.37	0.862	9.029	15.418

Notes:

1. The Irrigation flow is a combination of Commercial and Household (Medians, etc. owned by private organizations) flow. It is not public irrigation as described on page P-4.
2. The Unaccounted for water was calculated by subtracting the total water used from the total produced.
3. Water Utility use was not tracked prior to 1995 and would therefore be incorporated into Unaccounted for water.
4. The Population was calculated as three times the total number of meters.
5. These figures come strictly from Monthly Operating Reports which require the tabulation of service connections. This greatly underestimates the Population and overestimates the Per Capita Usage due to the extra meter equivalents which are caused by the Multi-Family connections which comprise a significant portion of the service area.

**ALTERNATE TABLE 2
FUTURE WATER USE
(COMBINED SERVICE AREAS)**

Next 15 Years	Projected Population	Number of Units	Per Capita Usage (gpcd)	Household		Commercial/Industrial		Irrigation (urban landscape, recreation or common areas)		Water Utility (mgal)	Unaccounted For Water (mgal)	Total Annual	
				Avg. day (mgal)	Max day (mgal)	Avg. day (mgal)	Max day (mgal)	Avg. day (mgal)	Max. day (mgal)			Avg. day (mgal)	Max day (mgal)
1997	28593	9531	238	6.80	11.90	0.59	1.03	0.54	0.95	4.00	1.12	9.07	15.87
1998	28736	9579	238	6.84	11.96	0.59	1.04	0.55	0.96	4.00	1.13	9.12	15.95
1999	28880	9627	238	6.87	12.02	0.60	1.04	0.55	0.96	4.00	1.13	9.16	16.03
2000	29024	9675	238	6.91	12.08	0.60	1.05	0.55	0.97	4.00	1.14	9.21	16.11
2001	29169	9723	238	6.94	12.14	0.60	1.05	0.56	0.97	4.00	1.15	9.25	16.19
2002	29315	9772	238	6.97	12.20	0.60	1.06	0.56	0.98	4.00	1.15	9.30	16.27
2003	29462	9821	238	7.01	12.27	0.61	1.06	0.56	0.98	4.00	1.16	9.35	16.35
2004	29609	9870	238	7.04	12.33	0.61	1.07	0.56	0.99	4.00	1.16	9.39	16.44
2005	29757	9919	238	7.08	12.39	0.61	1.07	0.57	0.99	4.00	1.17	9.44	16.52
2006	29906	9969	238	7.11	12.45	0.62	1.08	0.57	1.00	4.00	1.17	9.49	16.60
2007	30055	10018	238	7.15	12.51	0.62	1.08	0.57	1.00	4.00	1.18	9.53	16.68
2008	30206	10069	238	7.19	12.58	0.62	1.09	0.57	1.01	4.00	1.19	9.58	16.77
2009	30357	10119	238	7.22	12.64	0.63	1.10	0.58	1.01	4.00	1.19	9.63	16.85
2010	30508	10169	238	7.26	12.70	0.63	1.10	0.58	1.02	4.00	1.20	9.68	16.94
2011	30661	10220	238	7.29	12.77	0.63	1.11	0.58	1.02	4.00	1.20	9.73	17.02

Notes:

1. The service area is built-out, a growth rate of 0.5% annually was used for this projection.
2. Water Utility use is assumed to be constant at the 1996 value of 4 MGal/year.
3. The Irrigation flow is a combination of Commercial and Household (Medians, etc. owned by private organizations) flow. It is not public irrigation as described on page P-4.

ATTACHMENT B
Water Audit

Monthly Water Audit

Sanlando Utilities Corporation

1995															
Item	Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Source/Notes
Treatment System															
1A	Finished Water Purchased (Plant)														N/A
1B	Raw Water Produced	181,049	185,764	235,691	267,461	360,082	294,253	300,099	246,529	236,890	217,830	250,934	246,173	3,022,755	V
1C	Raw Water Purchased														N/A
1D	Metered Treatment Losses	(1,271)	(1,679)	(1,152)	(2,494)	(1,344)	(1,889)	(1,181)	(1,167)	(1,527)	(2,333)	(3,489)	(2,113)	(21,638)	18
1E	Unmetered Treatment Losses														N/A
1F	Change in Reservoir & Tank Storage														Tank Increase = Negative Value
1G	Total (A-F)	179,778	184,085	234,539	264,968	358,738	292,364	298,918	245,362	235,363	215,497	247,446	244,060	3,001,117	SUM(1A:1F)
1H	Metered Finished Water	189,937	210,517	273,172	303,615	362,705	288,039	300,293	259,832	246,707	233,251	276,934	269,226	3,214,228	R
1I	Total Unaccounted (Treatment)	(10,159)	(26,432)	(38,633)	(38,647)	(3,967)	4,325	(1,375)	(14,470)	(11,344)	(17,754)	(29,488)	(25,166)	(213,111)	G-H (Positive Number is Loss)
Distribution System (Major Metered Uses)															
2A	Small & Medium Meter Use	160,093	183,274	183,441	216,459	292,262	293,727	277,554	223,222	211,258	206,870	209,179	216,194	2,673,533	A1 + A2
2B	Large Meter Use	5,320	7,789	6,428	8,181	7,437	7,287	5,331	7,426	8,117	5,424	10,910	7,015	86,665	A3
2C	Adjustment due to Meter Lag														N/A
2D	Total (2A - 2C)	165,413	191,064	189,869	224,639	299,699	301,014	282,885	230,647	219,376	212,295	220,089	223,209	2,760,198	SUM(2A:2C)
Distribution System (Auth. Misc Uses)															
3A	Irrigation														N/A
3B	Swimming Pools														N/A
3C	Sewer Cleaning	0.017				0.000	0.013	0.009	0.022	0.006	0.011	0.041	0.008	0.127	13
3D	Water Quality Flushing						0.075	0.012		0.015				0.102	15
3E	Fire Fighting														N/A
3F	Construction Flushing														12
3G	Main Breaks	0.050	0.050			0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.500	16
3H	Schools														N/A
3I	Decorative Fountains														N/A
3J1	Field Use							0.050						0.050	14
3J2	Other														N/A
3J3	Other														N/A
3K	Total (3A - 3J)	0.067	0.050			0.050	0.138	0.121	0.072	0.071	0.061	0.091	0.058	0.779	SUM(3A:3J3)
4	Sum of Water from Dist System	165,479	191,114	189,869	224,639	299,749	301,153	283,006	230,720	219,446	212,356	220,180	223,267	2,760,977	2D + 3K
5	Total Finished Water Pumped	189,937	210,517	273,172	303,615	362,705	288,039	300,293	259,832	246,707	233,251	276,934	269,226	3,214,228	R (from sys info)
6	Finished Water Purchased (Sys)			0.051	0.207	1.273	1.368	0.415	0.233	0.193	0.001			3.741	(OCPU Bills)
7	Total Finished Water to Dist. System	189,937	210,517	273,223	303,822	363,978	289,407	300,708	260,065	246,900	233,252	276,934	269,226	3,217,969	5 + 6
8	Total Unaccounted for in Distribution	24,458	19,403	83,354	79,183	64,229	(11,746)	17,702	29,345	27,454	20,896	56,754	45,959	456,992	7 - 4 (Positive Number is Loss)
8A	Unaccounted in Dist as % Distributed	12.88%	9.22%	30.51%	26.06%	17.65%	-4.06%	5.39%	11.28%	11.12%	8.96%	20.49%	17.07%	14.20%	8 / 7
AAA	Total Production and Purchase	181,049	185,764	235,742	267,668	361,355	295,621	300,514	246,762	237,083	217,831	250,934	246,173	3,026,496	SUM(1A:1C) + 6
9	Total Unaccounted (Treatment + System)	14,298	(7,028)	44,721	40,536	60,262	(7,421)	16,327	14,875	16,110	3,142	27,266	20,793	243,881	11 + 8 (Positive Number is Loss)
9A	Unaccounted as % of Total Production	7.90%	-3.78%	18.97%	15.14%	16.68%	-2.51%	5.43%	6.03%	6.80%	1.44%	10.87%	8.45%	8.06%	9 / AAA
BBB	Total Water Produced at Plant	189,937	210,517	273,172	303,615	362,705	288,039	300,293	259,832	246,707	233,251	276,934	269,226	3,214,228	5
CCC	Total Unaccounted at Plant	(10,159)	(26,432)	(38,633)	(38,647)	(3,967)	4,325	(1,375)	(14,470)	(11,344)	(17,754)	(29,488)	(25,166)	(213,111)	11 (Positive Number is Loss)
DDD	Plant Unaccounted as % of Production	-5.35%	-12.56%	-14.14%	-12.73%	-1.09%	1.50%	-0.46%	-5.57%	-4.60%	-7.51%	-10.65%	-9.35%	-6.53%	CCC / BBB

Monthly Water Audit

Sarlando Utilities Corporation

From Lost Water Report														Unsold Water Report	
1	Des Pinar Meter 1														Unsold Water Report
2	Des Pinar Meter 2	0.079	0.197	0.008	0.115	0.114				0.427	1.160	1.341	0.556	3.998	Unsold Water Report
3	Des Pinar Meter 3														Unsold Water Report
4	Des Pinar Meter 4		0.038			0.016	0.029	0.055				0.900		0.138	Unsold Water Report
5	Wekiva Meter 1	0.050	0.153	0.013	0.157	0.022	0.112	0.029	0.029	0.022	0.035	0.145	0.075	0.843	Unsold Water Report
6	Wekiva Meter 2	0.030	0.054	0.007	0.096	0.010	0.051	0.027	0.037	0.038	0.075	0.096	0.036	0.558	Unsold Water Report
7	Wekiva Meter 3	0.017	0.048	0.005	0.136	0.006	0.020	0.008	0.019	0.018	0.035	0.045	0.021	0.378	Unsold Water Report
8	Wekiva Meter 4	0.001	0.005	0.000	0.018	0.000	0.003	0.001	0.003	0.002	0.006	0.003	0.003	0.047	Unsold Water Report
9	Wekiva Meter 5	0.073	0.157	0.093	0.957	0.161	0.656	0.040	0.023			0.840	0.405	3.404	Unsold Water Report
10	Overstreet Meter 1		0.000				0.000	0.000	0.000	0.000	0.000	0.000		0.001	Unsold Water Report
11	Overstreet Meter 2	0.006	0.010	0.011			0.002	0.006	0.042	0.004	0.005	0.002	0.001	0.089	Unsold Water Report
12	Construction Water					0.000	0.013	0.009	0.022	0.006	0.011	0.041	0.008	0.127	Unsold Water Report
13	Line Cleaning Truck	0.017						0.050						0.050	Unsold Water Report
14	Field Use							0.075	0.012		0.015			0.102	Unsold Water Report
15	Hydrant Flushing							0.050	0.050	0.050	0.050	0.050	0.050	0.500	Unsold Water Report
16	Water Breaks	0.050	0.050			0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	12.182	Unsold Water Report
17	Wekiva STP CI Feed	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	Unsold Water Report
18	Metered Treatment Losses	1.271	1.679	1.152	2.494	1.344	1.889	1.181	1.167	1.527	2.333	3.489	2.113	21.638	Sum(1:11) = 17
A1	Small Meter Consumption	137.210	159.697	162.414	191.4426	263.315	264.247	248.687	198.763	185.742	183.458	183.709	190.827	2,369.511	Water Audit Meter Analysis
A2	Medium Meter Consumption	22.883	23.577	21.027	25.01591	28.946	29.470	28.867	24.459	25.516	23.413	25.470	25.366	304.021	Water Audit Meter Analysis
A3	Large Meter Consumption	5.320	7.789	6.428	8.18052	7.437	7.287	5.331	7.426	8.117	5.424	10.910	7.015	86.665	Water Audit Meter Analysis
A4	Consumption Total from A1:A3	165.413	191.064	189.869	224.639	299.699	301.014	282.885	230.647	219.376	212.295	220.089	223.209	2,760.198	Sum (A1:A3)
A	Billing Register	165.500	189.103	184.208	224.862	299.378	294.913	296.004	222.784	219.746	212.554	220.305	223.382	2,752.738	Billing Register
B	1st Month Adjustment	2.631	0.713	(1.369)	0.730	0.373	(0.020)	0.022	(0.867)	1.063	(0.036)	0.021	1.280	4.541	Bill Adjust Rpt
C	2nd Month Adjustment	(0.666)	(1.788)	(0.788)	(0.277)	(0.421)	(5.372)	(1.004)	(8.334)	(1.795)	0.899	0.235	(1.192)	(20.504)	Bill Adjust Rpt
D	3rd Month Adjustment	(0.022)					(0.589)	(0.007)	(1.616)	(0.072)	(0.933)	(1.054)		(4.294)	Bill Adjust Rpt
E	4th Month Adjustment							0.001			(0.139)	(0.117)		(0.255)	Bill Adjust Rpt
F	5th Month Adjustment										(0.216)			(0.216)	Bill Adjust Rpt
G	1st Month Inaccurate Meters	0.075	0.010	0.100	0.005	0.245	0.251	0.099	0.140	0.101	0.004	0.017	0.057	1.103	Meter Adjust Rpt
H	2nd Month Inaccurate Meters	0.050	0.180	0.151	0.118	0.220	0.060	0.040	0.074	0.031	0.072	0.273	0.170	1.438	Meter Adjust Rpt
I	3rd Month Inaccurate Meters		0.025	0.050	0.030		0.016	0.035	0.008	0.052	0.080	0.040	0.104	0.440	Meter Adjust Rpt
J	4th Month Inaccurate Meters		0.050		0.160						0.017	0.076	0.016	0.319	Meter Adjust Rpt
K	5th Month Inaccurate Meters														Meter Adjust Rpt
L	6th Month Inaccurate Meters														Meter Adjust Rpt
M	7th Month Inaccurate Meters														Meter Adjust Rpt
N	Full Corrected Billing Register	167.569	188.293	182.352	225.628	299.795	289.258	295.189	212.190	219.126	212.300	219.795	223.816	2,735.311	SUM(A:M)
O	Wekiva Master Meters	142.208	153.653	190.408	203.841	230.970	193.747	203.959	181.056	175.718	169.462	190.082	187.411	2,222.515	MORs
P	Des Pinar Master Meters	47.669	56.149	81.747	97.743	127.459	91.887	94.049	77.525	68.891	62.246	82.905	78.705	966.975	MORs
Q	Knollwood Master Meters	0.060	0.715	1.017	2.031	4.276	2.405	2.285	1.251	2.098	1.543	3.947	3.110	24.738	MORs
R	System Master Meter Total	189.937	210.517	273.172	303.615	362.705	288.039	300.293	259.832	246.707	233.251	276.934	269.226	3,214.228	SUM(O:Q)
S	Wekiva Well Production	132.807	129.435	153.997	163.513	215.366	181.090	190.572	158.489	161.333	153.931	167.284	167.544	1,975.361	SCUPWELL.XLS
T	Des Pinar Well Production	48.194	55.615	80.677	101.890	140.441	110.627	107.241	86.786	73.451	62.356	79.703	75.587	1,022.568	SCUPWELL.XLS
U	Knollwood Well Production	0.048	0.714	1.016	2.059	4.274	2.536	2.286	1.254	2.106	1.543	3.948	3.042	24.825	SCUPWELL.XLS
V	Total Well Production	181.049	185.764	235.691	267.461	360.082	294.253	300.099	246.529	236.890	217.830	250.934	246.173	3,022.755	SUM(S:U)

Monthly Water Audit

Sanlando Utilities Corporation

Item	Description	1996												Total	Source/Notes	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
Treatment System																
1A	Finished Water Purchased (Plant)															N/A
1B	Raw Water Produced	224,280	231,752	232,553	262,359	332,871	250,132	297,423	278,407	273,540	284,956	279,154	259,340	3,207,266	V	
1C	Raw Water Purchased														N/A	
1D	Metered Treatment Losses	(3,330)	(2,942)	(2,413)	(3,986)	(3,378)	(3,836)	(2,749)	(2,929)	(2,635)	(2,336)	(3,323)	(3,343)	(37,200)	18	
1E	Unmetered Treatment Losses														N/A	
1F	Change in Reservoir & Tank Storage														Tank Increase = Negative Value	
1G	Total (A-F)	220,950	228,809	230,140	258,373	329,494	246,296	294,673	275,478	270,906	282,619	275,831	256,497	3,170,066	SUM(1A:1F)	
1H	Metered Finished Water	224,789	239,287	245,531	296,979	344,349	259,180	311,021	280,846	270,481	271,625	303,048	257,635	3,304,751	R	
1I	Total Unaccounted (Treatment)	(3,839)	(10,478)	(15,391)	(38,606)	(14,855)	(12,884)	(16,348)	(5,368)	0,445	10,994	(27,217)	(1,138)	(134,685)	G-H (Positive Number is Loss)	
Distribution System (Major Metered Uses)																
2A	Small & Medium Meter Use	217,582	195,420	230,647	198,624	299,125	292,491	208,056	276,427	249,483	216,514	250,798	252,737	2,887,903	A1 + A2	
2B	Large Meter Use	6,874	7,647	8,312	9,145	7,447	8,459	7,444	8,431	9,282	8,070	8,644	6,807	96,562	A3	
2C	Adjustment due to Meter Lag														N/A	
2D	Total (2A - 2C)	224,455	203,067	238,959	207,768	306,572	300,950	215,500	284,857	258,765	224,584	259,442	259,544	2,984,465	SUM(2A:2C)	
Distribution System (Auth. Misc Uses)																
3A	Irrigation														N/A	
3B	Swimming Pools														N/A	
3C	Sewer Cleaning	0.023	0.041	0.024	0.016	0.033	0.023	0.032	0.010	0.033	0.004	0.040	0.017	0.295	13	
3D	Water Quality Flushing			0.280			0.323				0.250	1.320	0.248	2.421	15	
3E	Fire Fighting														N/A	
3F	Construction Flushing		0.042						0.525					0.567	12	
3G	Main Breaks	0.050	0.050								0.060	0.820	0.080	1.080	16	
3H	Schools														N/A	
3I	Decorative Fountains														N/A	
3J1	Field Use											0.026		0.026	14	
3J2	Other														N/A	
3J3	Other														N/A	
3K	Total (3A - 3J)	0.073	0.133	0.304	0.016	0.033	0.348	0.032	0.535	0.033	0.314	2.206	0.344	4.368	SUM(3A:3J3)	
4	Sum of Water from Dist System	224,529	203,200	239,263	207,784	306,605	301,298	215,532	285,392	258,798	224,898	261,648	259,888	2,988,833	2D + 3K	
5	Total Finished Water Pumped	224,789	239,287	245,531	296,979	344,349	259,180	311,021	280,846	270,481	271,625	303,048	257,635	3,304,751	R (from sys info)	
6	Finished Water Purchased (Sys)				4,208	3,302	1,301	2,069	0,944	2,272				14,096	(OCPU Bills)	
7	Total Finished Water to Dist. System	224,789	239,287	245,531	301,187	347,651	280,481	313,090	281,790	272,733	271,625	303,048	257,635	3,318,847	5 + 6	
8	Total Unaccounted for in Distribution	0,280	36,087	6,268	93,403	41,046	(40,815)	97,558	(3,602)	13,935	46,727	41,400	(2,253)	330,014	7 - 4 (Positive Number is Loss)	
8A	Unaccounted in Dist as % Distributed	0.12%	15.08%	2.55%	31.01%	11.81%	-15.67%	31.16%	-1.28%	5.11%	17.20%	13.86%	-0.87%	9.94%	8 / 7	
AAA	Total Production and Purchase	224,280	231,752	232,553	266,567	336,173	251,433	299,492	279,351	275,812	284,956	279,154	259,840	3,221,362	SUM(1A:1C) + 6	
9	Total Unaccounted (Treatment + System)	(3,578)	25,609	(9,123)	54,796	26,191	(53,699)	81,210	(8,971)	14,379	57,722	14,183	(3,392)	195,329	1I + 8 (Positive Number is Loss)	
9A	Unaccounted as % of Total Production	-1.60%	11.05%	-3.92%	20.56%	7.79%	-21.36%	27.12%	-3.21%	5.21%	20.26%	5.08%	-1.31%	6.06%	9 / AAA	
BBB	Total Water Produced at Plant	224,789	239,287	245,531	296,979	344,349	259,180	311,021	280,846	270,481	271,625	303,048	257,635	3,304,751	5	
CCC	Total Unaccounted at Plant	(3,839)	(10,478)	(15,391)	(38,606)	(14,855)	(12,884)	(16,348)	(5,368)	0,445	10,994	(27,217)	(1,138)	(134,685)	1I (Positive Number is Loss)	
DDD	Plant Unaccounted as % of Production	-1.71%	-4.38%	-6.27%	-13.00%	-4.31%	-4.97%	-5.26%	-1.91%	0.16%	4.05%	-8.98%	-0.44%	-4.08%	CCC / BBB	

Monthly Water Audit

Santando Utilities Corporation

Printed: 1/23/97

Item	Description	1996												Total	Source/Notes	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
From Lost Water Report																
1	Des Pinar Meter 1															
2	Des Pinar Meter 2															
3	Des Pinar Meter 3	1.482	1.014	0.981	1.256	1.277	1.102	0.828	1.307	0.950	0.645	1.441	1.110			13.392
4	Des Pinar Meter 4															0.000
5	Wekiva Meter 1		0.000	0.039	0.459	0.079	0.056									0.000
6	Wekiva Meter 2	0.119	0.120	0.129	0.133	0.179	0.135	0.111	0.279	0.229	0.129	0.122	0.038	0.248	0.839	0.839
7	Wekiva Meter 3	0.107	0.081	0.052	0.073	0.123	0.612	0.049	0.134	0.056	0.073	0.099	0.082	1.546	2.029	2.029
8	Wekiva Meter 4	0.084	0.080	0.031	0.037	0.110	0.320	0.022	0.061	0.030	0.423	0.055	0.072	1.323	1.323	1.323
9	Wekiva Meter 5	0.005	0.002	0.015	0.010	0.018	0.002	0.004	0.027	0.031	0.004	0.003	0.003	0.124	0.124	0.124
10	Overstreet Meter 1	0.517	0.629	0.151	1.003	0.574	0.592	0.682	0.000	0.265	0.001	0.301	0.737	5.451	5.451	5.451
11	Overstreet Meter 2			0.000		0.000	0.000	0.000						0.001	0.001	0.001
12	Construction Water	0.002	0.001	0.002		0.002	0.002	0.040	0.062	0.058	0.042	0.065	0.038	0.314	0.314	0.314
13	Line Cleaning Truck		0.042											0.001	0.001	0.001
14	Field Use	0.023	0.041	0.024	0.016	0.033	0.023	0.032	0.010	0.033	0.004	0.040	0.017	0.295	0.295	0.295
15	Hydrant Flushing													0.026	0.026	0.026
16	Water Breaks			0.280										0.026	0.026	0.026
17	Wekiva STP Cl Feed	0.050	0.050				0.323				0.250	1.320	0.248	2.421	2.421	2.421
		1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	12.182	12.182	12.182
18	Metered Treatment Losses	3.330	2.942	2.413	3.986	3.378	3.836	2.749	2.929	2.835	2.336	3.323	3.343	37.200	37.200	37.200
A1	Small Meter Consumption	191.111	172.411	204.302	174.449	272.377	263.597	185.072	250.588	222.463	191.931	222.068	223.665	2,574.035	2,574.035	2,574.035
A2	Medium Meter Consumption	26.471	23.010	26.345	24.175	26.748	28.894	22.984	25.838	27.020	24.583	28.730	29.072	313.868	313.868	313.868
A3	Large Meter Consumption	8.874	7.847	8.312	9.145	7.447	8.459	7.444	8.431	9.282	8.070	8.644	6.807	96.562	96.562	96.562
A4	Consumption Total from A1-A3	224.455	203.067	238.959	207.768	306.572	300.950	215.500	284.857	258.785	224.584	259.442	259.544	2,984.465	2,984.465	2,984.465
A	Billing Register	224.379	188.022	239.094	207.824	306.883	301.208	205.630	285.282	258.921	224.773	259.695	259.709	2,969.421	2,969.421	2,969.421
B	1st Month Adjustment	(0.218)	(7.020)	(0.188)	0.018	(2.910)	1.514	(9.388)	0.007	0.567	0.000	0.233	0.001	(17.378)	(17.378)	(17.378)
C	2nd Month Adjustment	(0.543)	(0.405)	(0.193)	(0.607)	(0.664)	1.270	(0.837)	0.801	0.728	0.142	0.375		0.087	0.087	0.087
D	3rd Month Adjustment			(0.912)	(0.348)		(0.212)	(0.031)	(0.590)	0.078	(0.808)			(2.818)	(2.818)	(2.818)
E	4th Month Adjustment			(0.009)	(0.009)									0.011	0.011	0.011
F	5th Month Adjustment								0.029							
G	1st Month Inaccurate Meters	0.125	0.095	0.012	0.063	0.023	0.030	0.015	0.003	0.074	0.917	0.094	0.094	1.545	1.545	1.545
H	2nd Month Inaccurate Meters	0.070	0.104	0.138	0.222	0.061	0.216	0.822	0.099	0.917	0.069			2.516	2.516	2.516
I	3rd Month Inaccurate Meters	0.060	0.184	0.058	0.044	0.118	0.100	0.084	0.043	0.039				0.709	0.709	0.709
J	4th Month Inaccurate Meters			0.017	0.034	0.109	0.042	0.049	0.027					0.278	0.278	0.278
K	5th Month Inaccurate Meters				0.010	0.085	0.015	0.005						0.095	0.095	0.095
L	6th Month Inaccurate Meters					0.010								0.010	0.010	0.010
M	7th Month Inaccurate Meters					0.015								0.015	0.015	0.015
N	Full Corrected Billing Register	223.874	188.960	238.019	207.253	303.709	304.183	196.149	285.702	261.323	225.095	260.397	259.805	2,954.470	2,954.470	2,954.470
O	Wekiva Master Meters	157.389	156.722	168.389	191.723	215.767	175.240	205.842	180.311	183.408	180.348	192.578	172.345	2,178.042	2,178.042	2,178.042
P	Des Pinar Master Meters	66.829	80.915	78.045	100.453	124.808	82.494	102.891	98.422	85.144	89.934	108.056	83.689	1,099.480	1,099.480	1,099.480
Q	Knollwood Master Meters	0.591	1.650	3.097	4.803	3.974	1.446	2.288	2.113	1.909	1.343	2.414	1.801	27.229	27.229	27.229
R	System Master Meter Total	224.789	239.287	245.531	296.979	344.349	259.180	311.021	280.846	270.461	271.625	303.048	257.635	3,304.751	3,304.751	3,304.751
S	Wekiva Well Production	164.688	157.196	159.757	155.208	200.041	165.120	190.730	177.486	178.026	199.128	174.257	179.050	2,100.686	2,100.686	2,100.686
T	Des Pinar Well Production	59.018	72.920	69.700	102.350	128.856	83.589	104.400	98.729	93.729	84.484	102.481	79.189	1,079.425	1,079.425	1,079.425
U	Knollwood Well Production	0.574	1.636	3.096	4.802	3.975	1.442	2.292	2.192	1.786	1.344	2.416	1.801	27.155	27.155	27.155
V	Total Well Production	224.280	231.752	232.553	262.359	332.871	250.132	297.423	278.407	273.540	284.958	279.154	259.840	3,207.266	3,207.266	3,207.266

Monthly Water Audit
Sanlando Utilities Corporation

Item	Description	1995	1996	Total	Source/Notes
Treatment System					
1A	Finished Water Purchased (Plant)	-	-	-	N/A
1B	Raw Water Produced	3,022,755	3,207,266	6,230,021	V
1C	Raw Water Purchased	-	-	-	N/A
1D	Metered Treatment Losses	(21,638)	(37,200)	(58,838)	18
1E	Unmetered Treatment Losses	-	-	-	N/A
1F	Change in Reservoir & Tank Storage	-	-	-	Tank Increase = Negative Value
1G	Total (A-F)	3,001,117	3,170,066	6,171,183	SUM(1A:1F)
1H	Metered Finished Water	3,214,228	3,304,751	6,518,979	R
1I	Total Unaccounted (Treatment)	(213,111)	(134,685)	(347,796)	G-H (Positive Number is Loss)
Distribution System (Major Metered Uses)					
2A	Small & Medium Meter Use	2,673,533	2,887,903	5,561,436	A1 + A2
2B	Large Meter Use	86,665	96,562	183,227	A3
2C	Adjustment due to Meter Lag	-	-	-	N/A
2D	Total (2A - 2C)	2,760,198	2,984,465	5,744,663	SUM(2A:2C)
Distribution System (Auth. Misc Uses)					
3A	Irrigation	-	-	-	N/A
3B	Swimming Pools	-	-	-	N/A
3C	Sewer Cleaning	0.127	0.295	0.422	13
3D	Water Quality Flushing	0.102	2.421	2.523	15
3E	Fire Fighting	-	-	-	N/A
3F	Construction Flushing	-	0.567	0.567	12
3G	Main Breaks	0.500	1.060	1.560	16
3H	Schools	-	-	-	N/A
3I	Decorative Fountains	-	-	-	N/A
3J1	Field Use	0.050	0.026	0.076	14
3J2	Other	-	-	-	N/A
3J3	Other	-	-	-	N/A
3K	Total (3A - 3J)	0.779	4.368	5.147	SUM(3A:3J3)
4	Sum of Water from Dist System	2,760,977	2,988,833	5,749,810	2D + 3K
5	Total Finished Water Pumped	3,214,228	3,304,751	6,518,979	R (from sys info)
6	Finished Water Purchased (Sys)	3,741	14,096	17,837	(OCPU Bills)
7	Total Finished Water to Dist. System	3,217,969	3,318,847	6,536,816	5 + 6
8	Total Unaccounted for in Distribution	456,992	330,014	787,006	7 - 4 (Positive Number is Loss)
8A	Unaccounted in Dist as % Distributed	14.20%	9.94%	12.04%	8 / 7
AAA	Total Production and Purchase	3,026,496	3,221,362	6,247,858	SUM(1A:1C) + 6
9	Total Unaccounted (Treatment + System)	243,881	195,329	439,210	1I + 8 (Positive Number is Loss)
9A	Unaccounted as % of Total Production	8.06%	6.06%	7.03%	9 / AAA
BBB	Total Water Produced at Plant	3,214,228	3,304,751	6,518,979	5
CCC	Total Unaccounted at Plant	(213,111)	(134,685)	(347,796)	1I (Positive Number is Loss)
DDD	Plant Unaccounted as % of Production	-6.63%	-4.08%	-5.34%	CCC / BBB

Monthly Water Audit

Sanlando Utilities Corporation

Printed 1/28/97

	From Lost Water Report				
1	Des Pinar Meter 1				Unsold Water Report
2	Des Pinar Meter 2	3.998	13.392	17.390	Unsold Water Report
3	Des Pinar Meter 3		0.000	0.000	Unsold Water Report
4	Des Pinar Meter 4	0.138	0.939	0.976	Unsold Water Report
5	Wekiva Meter 1	0.843	2.029	2.873	Unsold Water Report
6	Wekiva Meter 2	0.558	1.546	2.104	Unsold Water Report
7	Wekiva Meter 3	0.378	1.323	1.701	Unsold Water Report
8	Wekiva Meter 4	0.047	0.124	0.171	Unsold Water Report
9	Wekiva Meter 5	3.404	5.451	8.855	Unsold Water Report
10	Overstreet Meter 1	0.001	0.001	0.002	Unsold Water Report
11	Overstreet Meter 2	0.689	0.314	0.402	Unsold Water Report
12	Construction Water		0.567	0.567	Unsold Water Report
13	Line Cleaning Truck	0.127	0.295	0.422	Unsold Water Report
14	Field Use	0.050	0.026	0.076	Unsold Water Report
15	Hydrant Flushing	0.102	2.421	2.523	Unsold Water Report
16	Water Breaks	0.500	1.060	1.560	Unsold Water Report
17	Wekiva STP CI Feed	12.182	12.182	24.365	Unsold Water Report
18	Metered Treatment Losses	21.638	37.200	58.838	Sum(1:17) = 17
A1	Small Meter Consumption	2,369.511	2,574.035	4,943.546	Water Audit Meter Analysis
A2	Medium Meter Consumption	304.021	313.868	617.890	Water Audit Meter Analysis
A3	Large Meter Consumption	86.665	96.562	183.227	Water Audit Meter Analysis
A4	Consumption Total from A1-A3	2,760.198	2,984.465	5,744.663	Sum (A1:A3)
A	Billing Register	2,752.738	2,969.421	5,722.160	Billing Register
B	1st Month Adjustment	4.541	(17.378)	(12.837)	Bill Adjust Rpt
C	2nd Month Adjustment	(20.504)	0.067	(20.437)	Bill Adjust Rpt
D	3rd Month Adjustment	(4.294)	(2.818)	(7.111)	Bill Adjust Rpt
E	4th Month Adjustment	(0.255)	0.011	(0.244)	Bill Adjust Rpt
F	5th Month Adjustment	(0.216)	-	(0.216)	Bill Adjust Rpt
G	1st Month Inaccurate Meters	1.103	1.545	2.648	Meter Adjust Rpt
H	2nd Month Inaccurate Meters	1.438	2.518	3.953	Meter Adjust Rpt
I	3rd Month Inaccurate Meters	0.440	0.709	1.149	Meter Adjust Rpt
J	4th Month Inaccurate Meters	0.319	0.278	0.597	Meter Adjust Rpt
K	5th Month Inaccurate Meters	-	0.095	0.095	Meter Adjust Rpt
L	6th Month Inaccurate Meters	-	0.010	0.010	Meter Adjust Rpt
M	7th Month Inaccurate Meters	-	0.015	0.015	Meter Adjust Rpt
N	Full Corrected Billing Register	2,735.311	2,954.470	5,689.781	SUM(A:M)
O	Wekiva Master Meters	2,222.515	2,178.042	4,400.557	MORs
P	Des Pinar Master Meters	966.975	1,099.480	2,066.455	MORs
Q	Knollwood Master Meters	24.738	27.229	51.967	MORs
R	System Master Meter Total	3,214.228	3,304.751	6,518.979	SUM(O:Q)
S	Wekiva Well Production	1,975.361	2,100.686	4,076.047	SCUPWELL.XLS
T	Des Pinar Well Production	1,022.568	1,079.425	2,101.993	SCUPWELL.XLS
U	Knollwood Well Production	24.825	27.155	51.981	SCUPWELL.XLS
V	Total Well Production	3,022.755	3,207.266	6,230.021	SUM(S:U)

Water Audit

The water audit, performed for this permit renewal, reveals several problems that we are addressing. Without additional data the audit suggests distribution losses of 14% in 1995 and 10% in 1996, averaging 12% for the two year period.

A. We show significant gains in water from the wells to the plant master meters. We have no meters on any of our 12 wells and we acknowledge that our alternative method of measuring withdrawals is probably not as accurate as we would like. We suspect that the method does fall within the 90% accuracy criteria established by the District. However, we believe our pumping tests have not been precise enough to date. We only run pump tests when irrigation demands are minimal and are this month reaccomplishing those tests for all our wells.

1) We have new raw water line meters at our Des Pinar plant that will enable us to more precisely measure our pump performance and will allow us to cross-check monthly withdrawals (based on pump performance and elapsed time meters) against total water measured through the raw water meters.

2) We are reaccomplishing our pump tests at the Wekiva plant to determine what, if any, errors exist in our computed performance rates for those wells.

B. Our plant master meters are calibrated every six months. The calibration procedure used to date has not provided us data on what, if any, variation exists between actual and measured flow. The technician previously only indicated whether the meter fell within specifications or not, adjusted and then certified that the meter fell within specifications. He did not list actual precision before and after calibration. All future calibrations will include this data.

C. In January, 1997, we found and repaired a leak in an 8" main. The leak appeared to have been active for quite some time and went undiscovered because it was in an area of exceptional drainage. We suspect that a significant percentage of our unaccounted for water was due to that leak. We expect a measurable decrease in lost water for this calendar year.

D. The relatively high unaccounted for water prompted us to begin a meter survey. At this time the survey is approximately 50% complete. The initial results suggest the meters are registering low. We do expect the final data will result in unaccounted for water of less than 10% for the two year period. We will provide adjusted water audit data when the meter survey is complete.

ATTACHMENT C
Location Map

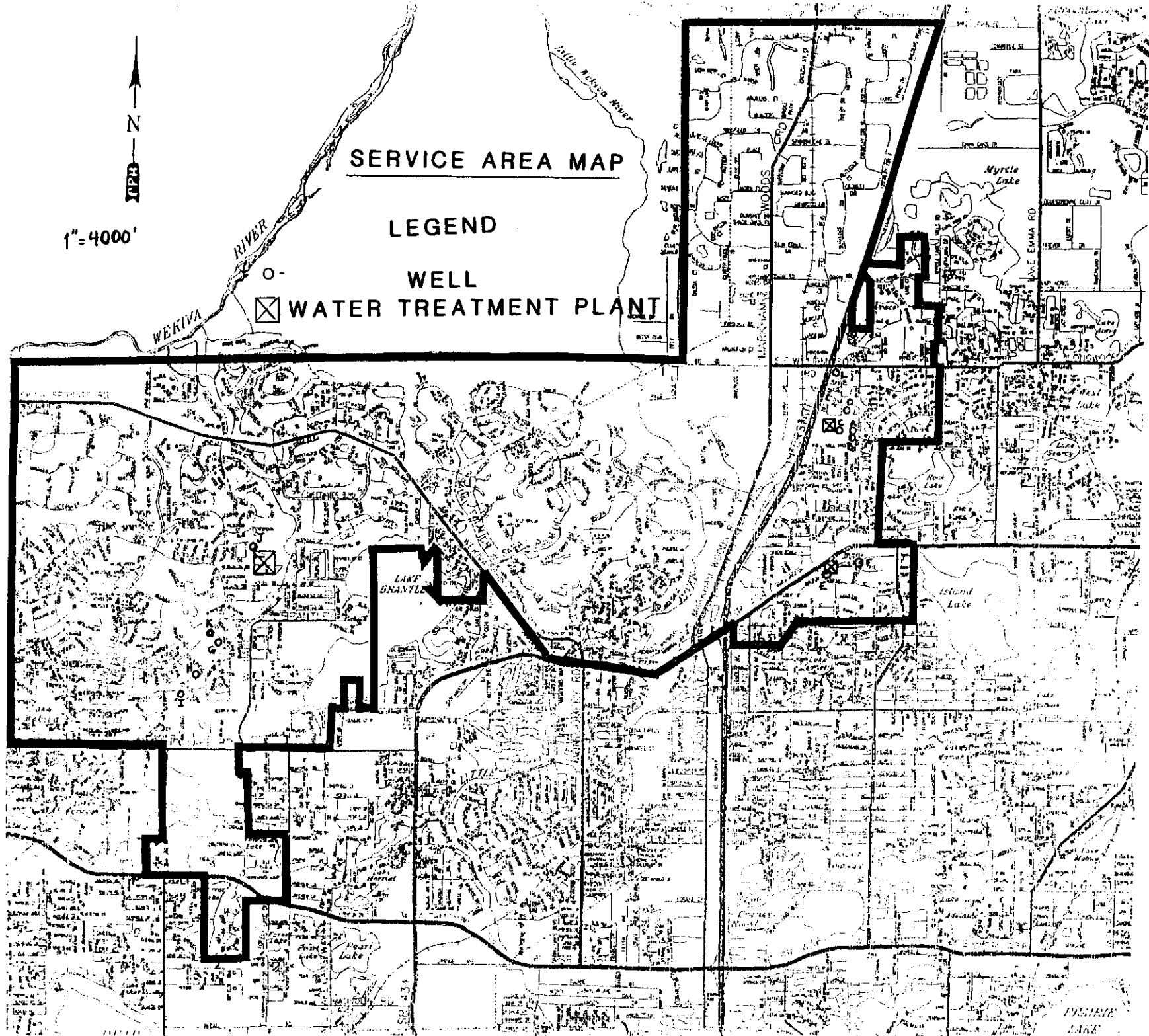


1" = 4000'

SERVICE AREA MAP

LEGEND

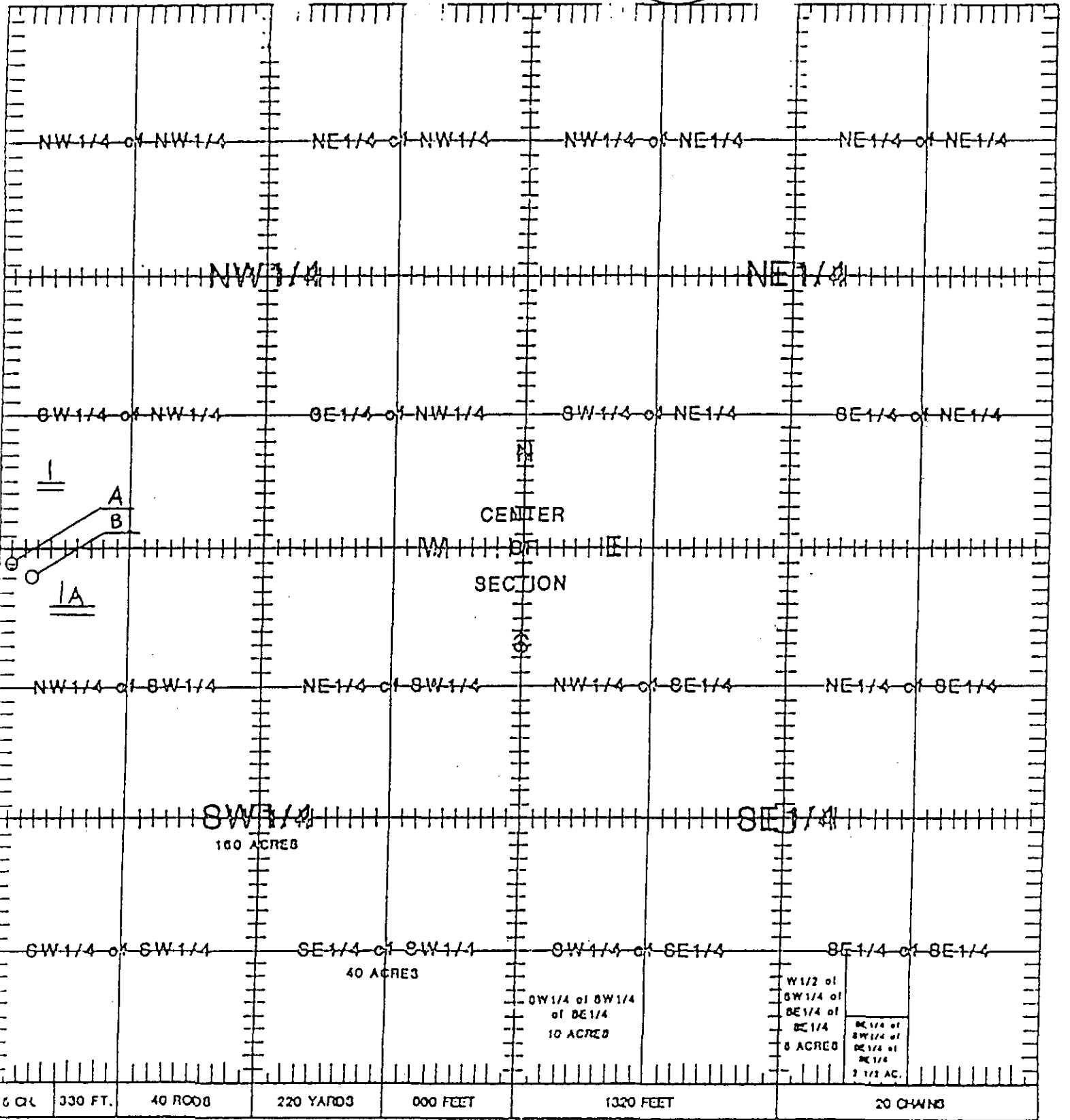
- WELL
- ⊠ WATER TREATMENT PLANT



ATTACHMENT D
Well Data

Draw in accurate locations of all wells and other withdrawal locations. Label with well number and/or location of well. Show in property boundaries. Fill in blanks with correct section, township and range. If property is in more than one section, use a separate sheet for each section.

SECTION 36 TOWNSHIP 20 NORTH / SOUTH RANGE 2 EAST



SCALE — 8 inches Equals 1 Mile

1 Inch Equals 10 Chains, 660 Feet, 40 Rods or 220 Yards

One Link = 7.92 inches

One Rod = 16 1/2 Feet, 1/4 Chain or 25 Links

One Chain = 66 Feet, 4 Rods or 100 Links

One Mile = 5,280 Feet, 320 Rods or 80 Chains

All Measurements in Government Surveys are Indicated by Links and Chains.

One Square Rod Contains 272 1/4 Square Feet.

One Acre is about 208 1/2 Feet Square.

One Acre Contains 43,560 Square Feet or 100 Square Rods.

One Acre (Homestead within City Limits) Contains 21,780 Square Feet.

160 Square Chains = One Acre.

A Section of Land is One Square Mile and Contains 640 Acres.

1/4 Section Contains 160 Acres.

A township Area is 36 Square Miles and Contains 23,040 Acres.

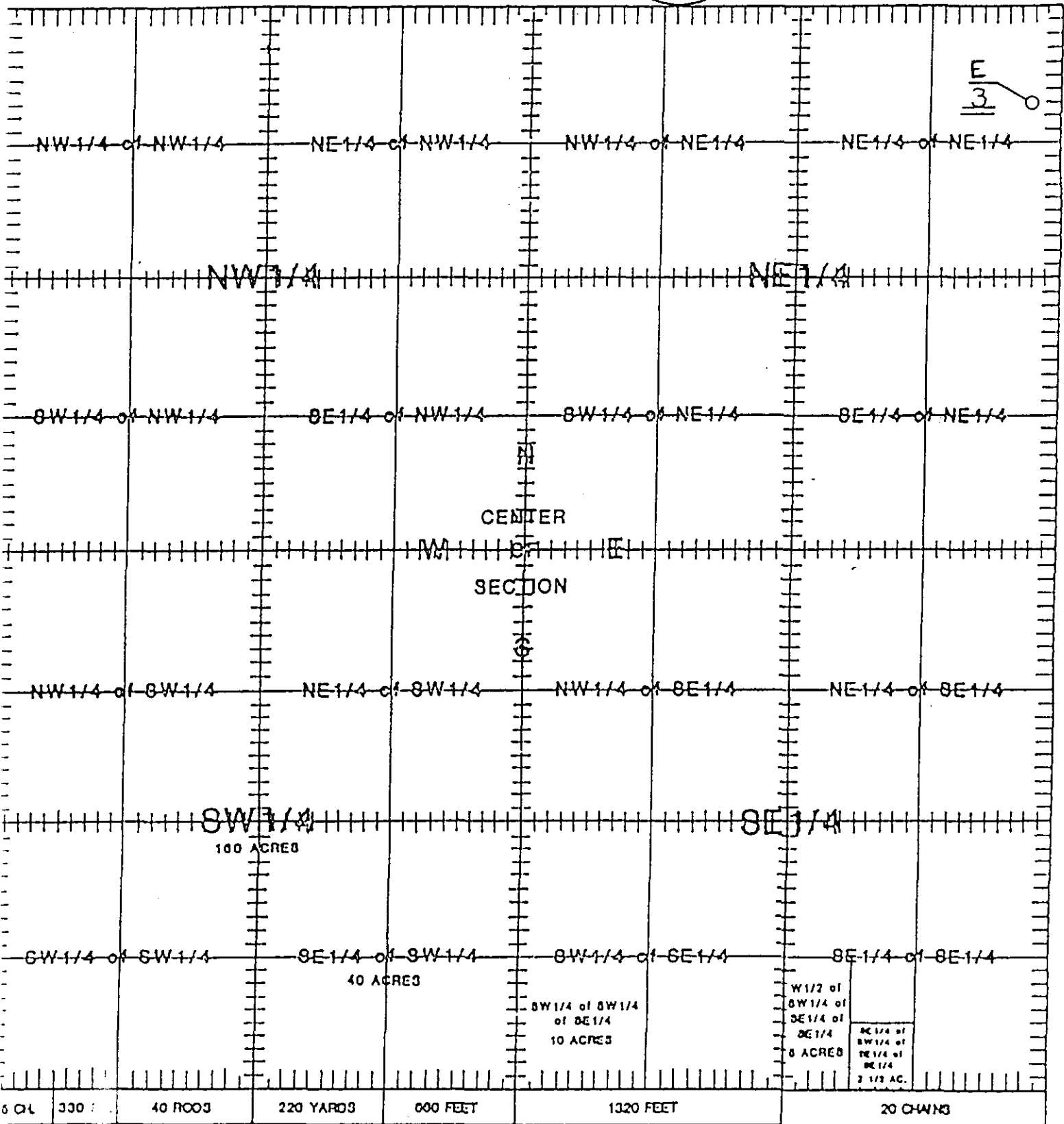
Sectional Map of a Township
With Adjoining Sections

38	31	32	33	34	35	36	31
1	6	5	4	3	2	1	6
12	7	8	9	10	11	12	7
13	18	17	16	15	14	13	18
24	19	20	21	22	23	24	19
25	30	29	28	27	26	25	30
36	31	32	33	34	35	36	31
1	6	5	4	3	2	1	6

EQUIVALENTS	FEET	66
	YARDS	22
	RODS	4
	CHAIN	1
		66
	44	
	132	
	198	
	264	
	330	
	396	
	462	
	528	
	594	
	660	
	726	
	792	
	858	
	924	
	990	
	1056	
	1122	
	1188	
	1254	
	1320	

Draw in accurate locations of all wells and other withdrawals. Label with well number and/or size of well. Draw in property boundaries. Fill in blanks with correct section, township and range. If property is in more than one section, use one sheet for each section.

SECTION 2 TOWNSHIP 21 NORTH / SOUTH RANGE 29 EAST



SCALE - 0 Inches Equals 1 Mile

1 Inch Equals 10 Chains, 660 Feet, 40 Rods or 220 Yards

One Link = 7.92 Inches
One Rod = 16 1/2 Feet, 1/4 Chain or 25 Links

One Chain = 66 Feet, 4 Rods or 100 Links
One Mile = 5,280 Feet, 320 Rods or 80 Chains

All Measurements in Government Surveys are Indicated by Links and Chains.

One Square Rod Contains 272 1/2 Square Feet.
One Acre is about 200 1/4 Feet Square.
One Acre Contains 43,560 Square Feet or 100 Square Rods.
One Acre (Homestead within City Limits) Contains 21,780 Square Feet.
One Square Chain = One Acre.

A Section of Land is One Square Mile and Contains 640 Acres.
1/4 Section Contains 160 Acres.
A township Area is 36 Square Miles and Contains 23,040 Acres.

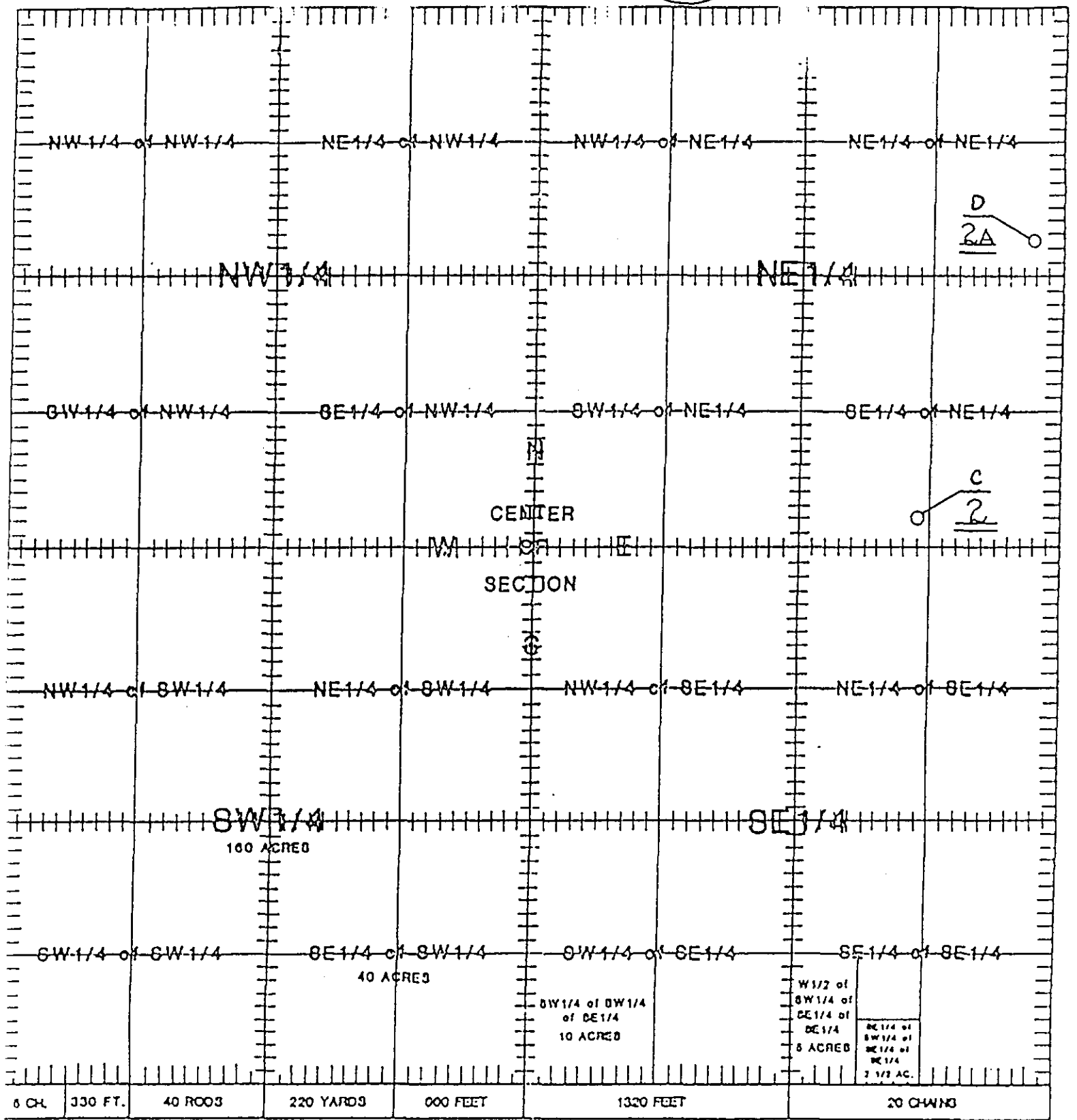
Sectional Map of a Township
With Adjoining Sections

38	31	32	33	34	35	36	31
1	0	5	4	3	2	1	0
12	7	8	9	10	11	12	7
13	18	17	10	16	14	13	18
24	19	20	21	22	23	24	19
25	30	29	28	27	26	25	30
30	31	32	33	34	35	30	3
1	0	5	4	3	2	1	0

FEET	68	132	198	264	330	396	462	528	594	660	726	792	858	924	990	1056	1122	1188	1254	1320
YARDS	22	44	66	88	110	132	154	176	198	220	242	264	286	308	330	352	374	396	418	440
RODS	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80
CHAIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Draw in accurate locations of all wells and other withdrawals. Label with well number and direction of well. Draw in property boundaries. Fill in blank with correct section, township, range. If property is in more than one section, use another sheet for each section.

SECTION 35 TOWNSHIP 21 NORTH / SOUTH RANGE 29 EAST



SCALE — 8 Inches Equals 1 Mile

1 Inch Equals 10 Chains, 660 Feet, 40 Rods or 220 Yards

One Link = 7.92 Inches
One Rod = 16 1/2 Feet, 1/4 Chain or 25 Links

One Chain = 66 Feet, 4 Rods or 100 Links
One Mile = 5,280 Feet, 320 Rods or 80 Chains

All Measurements in Government Surveys are indicated by Links and Chains.

One Square Rod Contains 272 1/4 Square Feet.
One Acre Is about 200 1/4 Feet Square.
One Acre Contains 43,560 Square Feet or 160 Square Rods.
One Acre (Homestead within City Limits) Contains 21,700 Square Feet.
Ten Square Chains = One Acre.

A Section of Land Is One Square Mile and Contains 640 Acres.
1/4 Section Contains 160 Acres.

A township Area Is 36 Square Miles and Contains 23,040 Acres.

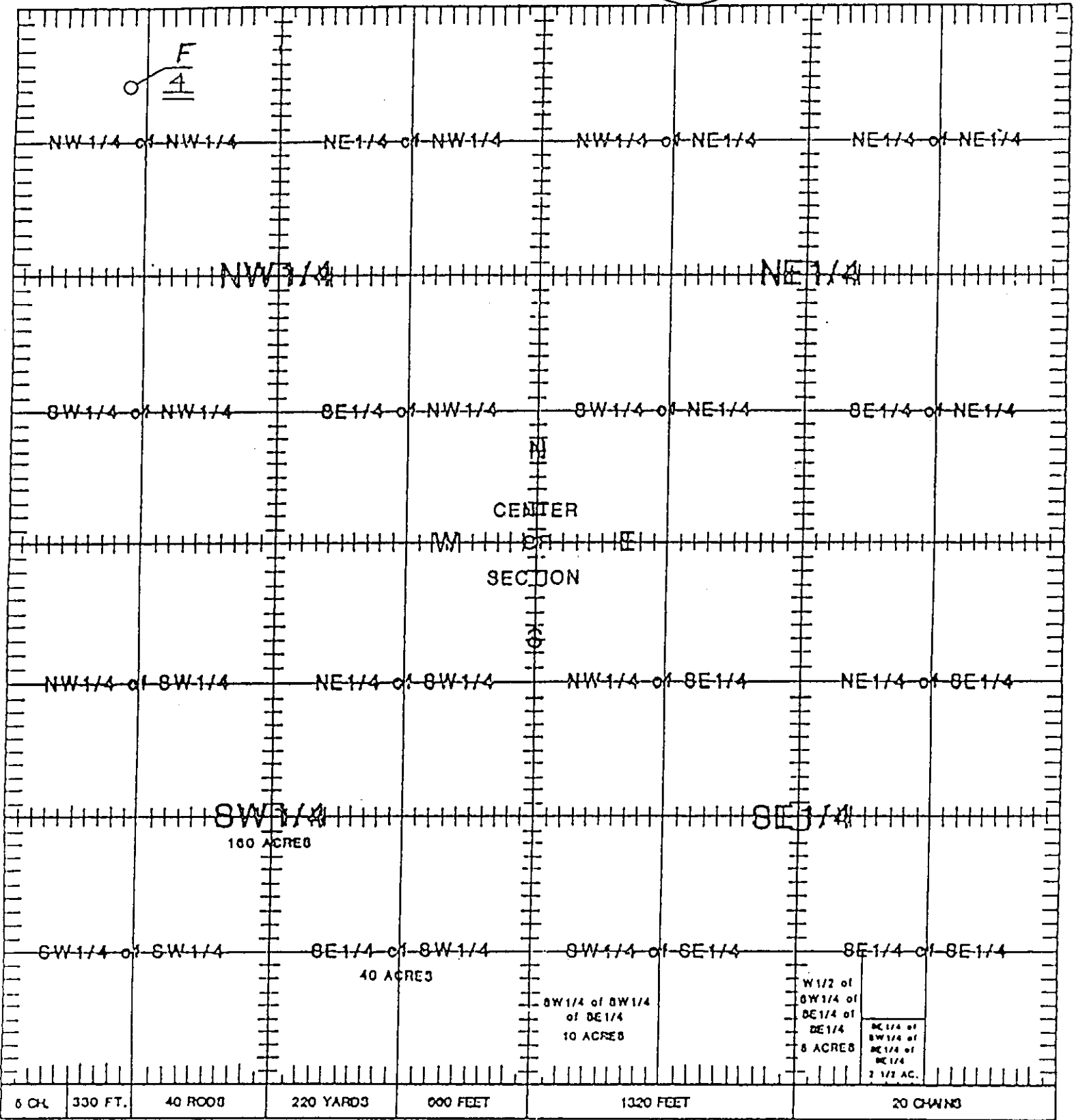
Sectional Map of a Township
With Adjoining Sections

38	31	32	33	34	35	36	31
1	6	5	4	3	2	1	6
12	7	8	9	10	11	12	7
13	16	17	18	15	14	13	16
24	19	20	21	22	23	24	19
25	30	29	28	27	26	25	30
30	31	32	33	34	35	30	31
1	6	5	4	3	2	1	6

EQUIVALENTS	FEET	66	132	198	264	330	396	462	528	594	660	726	792	858	924	990	1056	1122	1188	1254	1320
	YARDS	22	44	66	88	110	132	154	176	198	220	242	264	286	308	330	352	374	396	418	440
	RODS	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80
	CHAINS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
			2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38

Draw in accurate locations of all wells and other withdrawals. Label with well number and/or size of well. Draw in property boundaries. Fill in blanks with correct section, township and range. If property is in more than one section, use one sheet for each section.

SECTION 1 TOWNSHIP 21 NORTH / SOUTH RANGE 29 EAST



SCALE — 8 Inches Equals 1 Mile

1 Inch Equals 10 Chains, 660 Feet, 40 Rods or 220 Yards

One Link = 7.92 Inches

One Rod = 16 1/2 Feet, 1/4 Chain or 25 Links

One Chain = 66 Feet, 4 Rods or 100 Links

One Mile = 5,280 Feet, 320 Rods or 80 Chains

All Measurements in Government Surveys are indicated by Links and Chains.

One Square Rod Contains 272 1/4 Square Feet.

One Acre is about 200 1/4 Feet Square.

One Acre Contains 43,560 Square Feet or 160 Square Rods.

1/4 Acre (Homestead within City Limits) Contains 21,780 Square Feet.

Ten Square Chains = One Acre.

A Section of Land is One Square Mile and Contains 640 Acres.

1/4 Section Contains 160 Acres.

A township Area is 36 Square Miles and Contains 23,040 Acres.

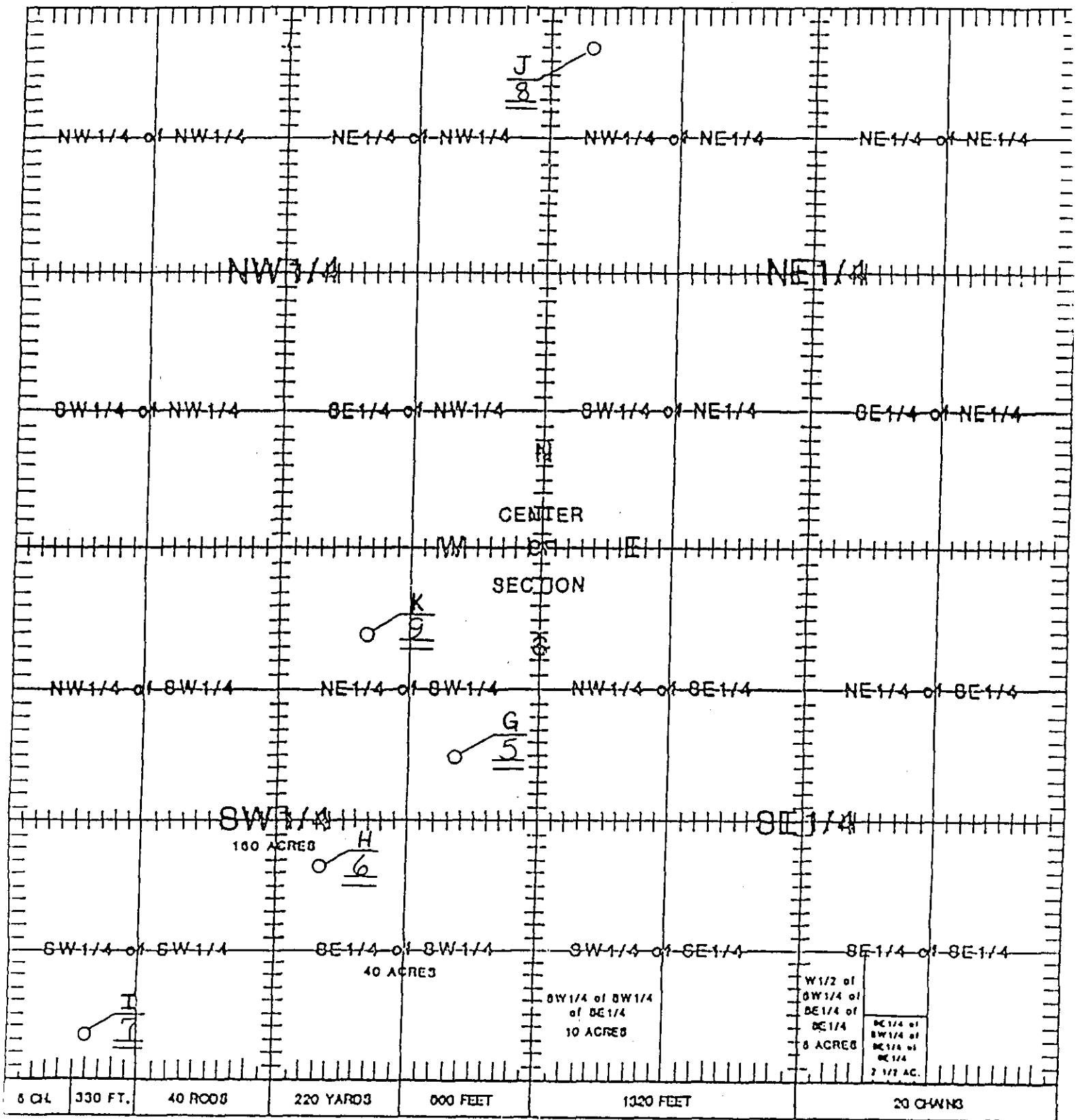
Sectional Map of a Township With Adjoining Sections

36	31	32	33	34	35	36	31
1	6	5	4	3	2	1	6
12	7	8	9	10	11	12	7
13	18	17	16	15	14	13	18
24	19	20	21	22	23	24	19
25	30	29	28	27	26	25	30
36	31	32	33	34	35	36	31
1	6	5	4	3	2	1	6

EQUIVALENTS	FEET	66	132	198	264	330	396	462	528	594	660	726	792	858	924	990	1056	1122	1188	1254	1320
	YARDS	22	44	66	88	110	132	154	176	198	220	242	264	286	308	330	352	374	396	418	440
	RODS	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80
	CHAINS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

Draw in accurate locations of all wells and other withdrawal locations. Label with well number and/or size of well. Draw in property boundaries. Fill in blanks with correct section, township and range. If property is in more than one section, use one sheet for each section.

SECTION 5 TOWNSHIP 21 NORTH / SOUTH RANGE 29 EAST



1 Inch Equals 10 Chains, 660 Feet, 40 Rods or 220 Yards

One Link = 7.92 Inches

One Rod = 16 1/2 Feet, 1/4 Chain or 25 Links

One Chain = 66 Feet, 4 Rods or 100 Links

One Mile = 5,280 Feet, 320 Rods or 80 Chains

All Measurements in Government Surveys are Indicated by Links and Chains.

One Square Rod Contains 272 1/4 Square Feet.

One Acre is about 208 1/4 Feet Square.

One Acre Contains 43,560 Square Feet or 100 Square Rods.

1/2 Acre (Homestead within City Limits) Contains 21,780 Square Feet.

100 Square Chains = One Acre.

A Section of Land is One Square Mile and Contains 640 Acres.

1/4 Section Contains 160 Acres.

A township Area is 36 Square Miles and Contains 23,040 Acres.

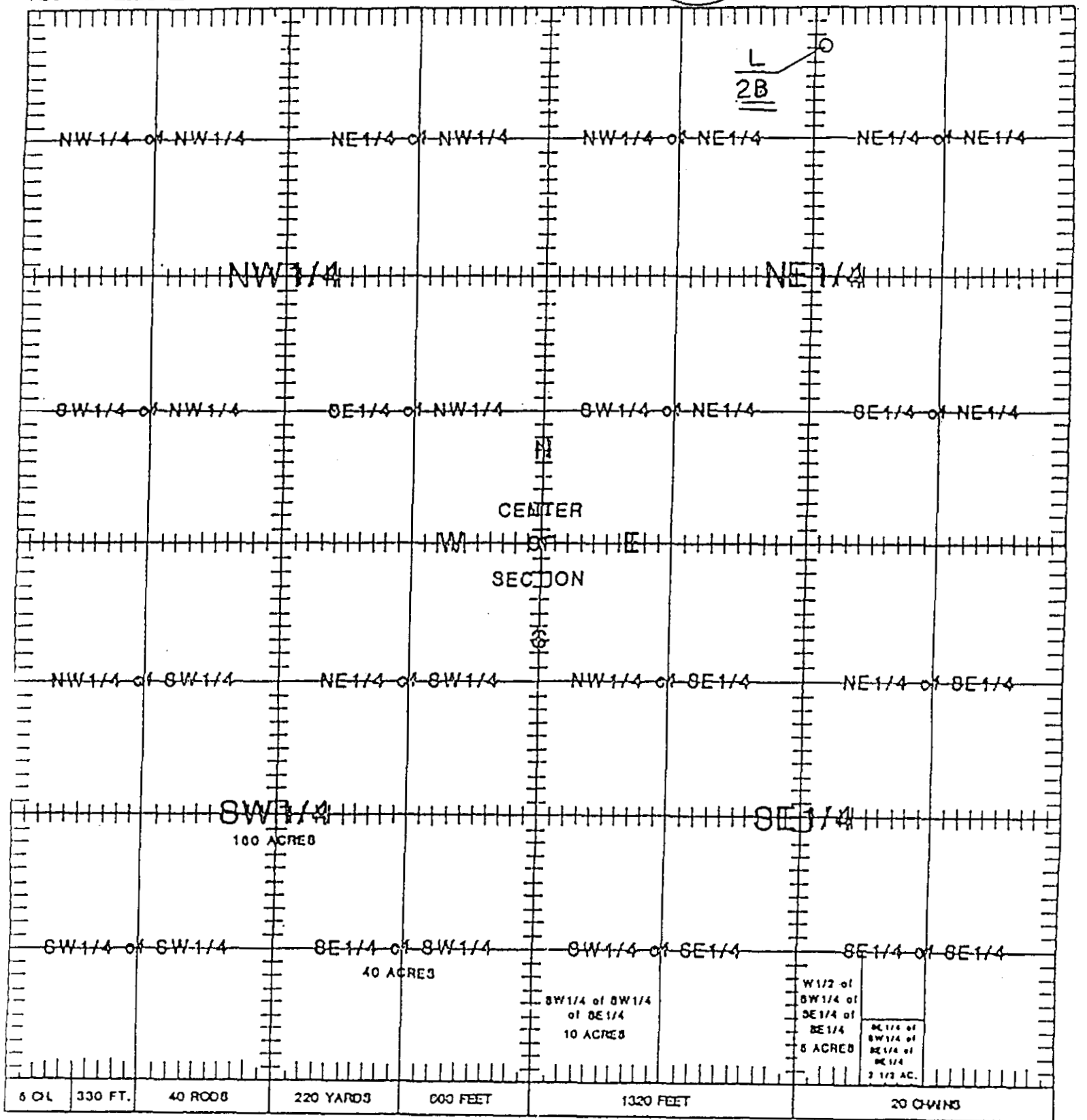
EQUIVALENTS	FEET	66	132	198	264	330	396	462	528	594	660	726	792	858	924	990	1056	1122	1188	1254	1320
	YARDS	22	44	66	88	110	132	154	176	198	220	242	264	286	308	330	352	374	396	418	440
	RODS	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80
	CHAINS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Sectional Map of a Township With Adjoining Sections

36	31	32	33	34	35	36	31
1	6	5	4	3	2	1	6
12	7	8	9	10	11	12	7
13	18	17	16	15	14	13	18
24	19	20	21	22	23	24	19
25	30	29	28	27	26	25	30
36	31	32	33	34	35	36	31
1	6	5	4	3	2	1	6

Draw in accurate locations of all wells and other withdrawals. Label with well number and/or size of well. Draw in property boundaries. Fill in blanks with correct section, township and range. If property is in more than one section, use one sheet for each section.

SECTION 35 TOWNSHIP 20 NORTH / SOUTH RANGE 29 EAST



SCALE — 8 Inches Equals 1 Mile

1 Inch Equals 10 Chains, 660 Feet, 40 Rods or 220 Yards

One Link = 7.92 Inches

One Rod = 16 1/2 Feet, 1/4 Chain or 25 Links

One Chain = 66 Feet, 4 Rods or 100 Links

One Mile = 5,280 Feet, 320 Rods or 80 Chains

All Measurements in Government Surveys are Indicated by Links and Chains.

One Square Rod Contains 272 1/4 Square Feet.

One Acre is about 208 1/2 Feet Square.

One Acre Contains 43,560 Square Feet or 100 Square Rods.

1/2 Acre (Homestead within City Limits) Contains 21,780 Square Feet.

48 Square Chains = One Acre.

A Section of Land is One Square Mile and Contains 640 Acres.

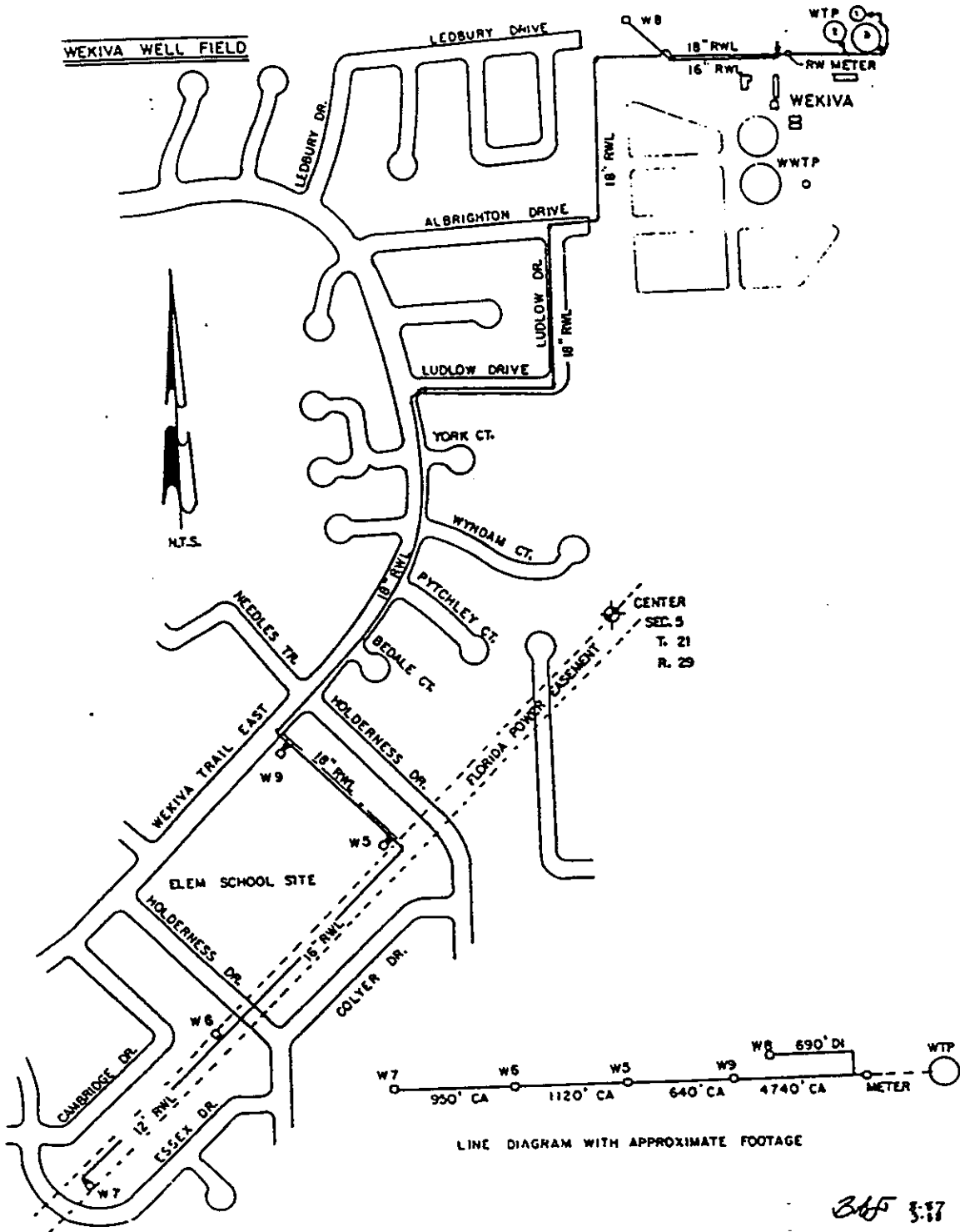
1/4 Section Contains 160 Acres.

A township Area is 36 Square Miles and Contains 23,040 Acres.

Sectional Map of a Township With Adjoining Sections

36	31	32	33	34	35	36	31
1	6	5	4	3	2	1	6
12	7	8	9	10	11	12	7
13	18	17	16	15	14	13	18
24	19	20	21	22	23	24	19
25	30	29	28	27	26	25	30
36	31	32	33	34	35	36	31
1	6	5	4	3	2	1	6

EQUIVALENTS	FEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	YARDS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	RODS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	CHAINS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
			66	132	198	264	330	396	462	528	594	660	726	792	858	924	990	1056	1122	1188	1254

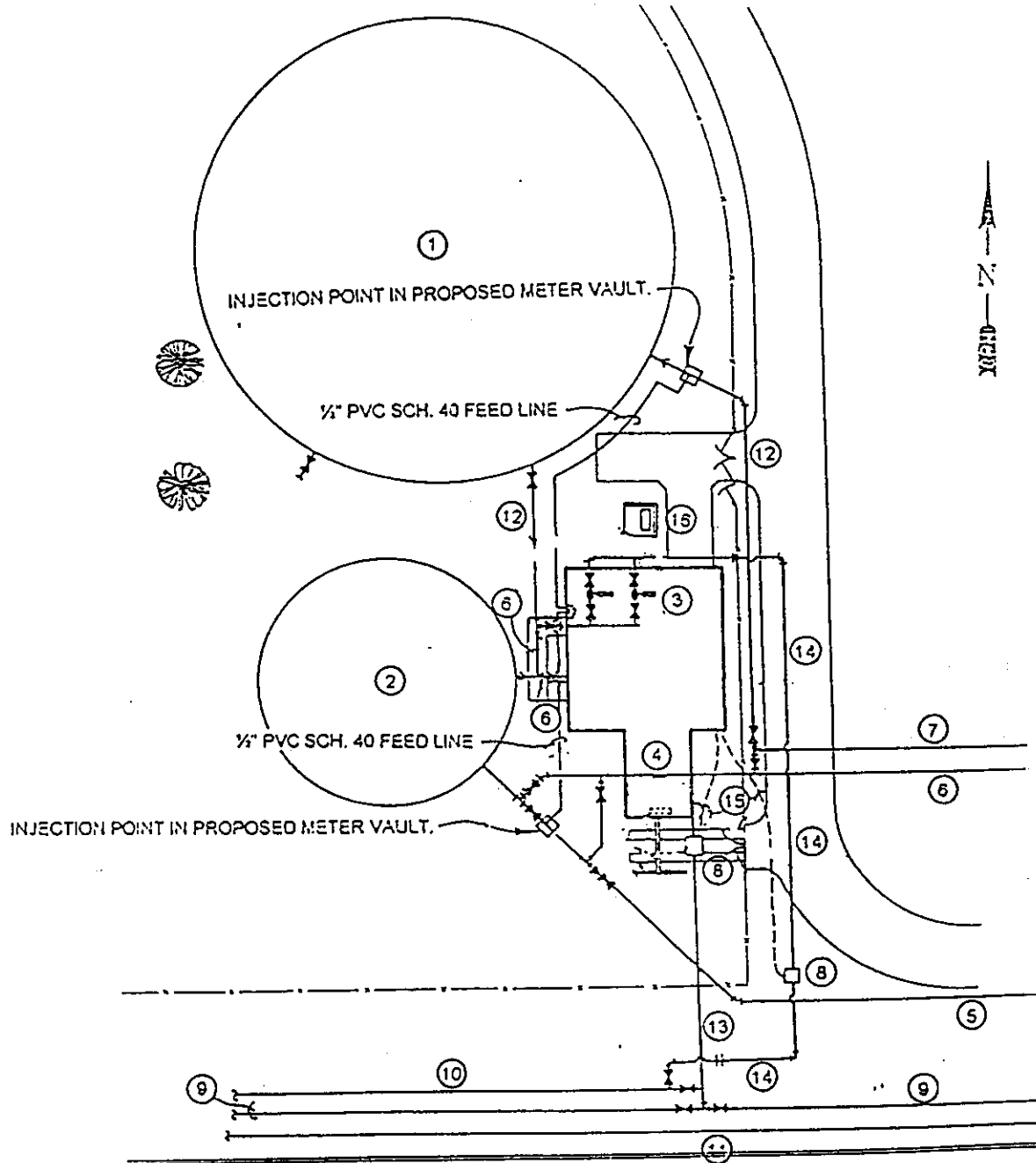


PROJECT No.	SCALE	N.T.S.
DESIGN	CPH	
DISTRICT	BAY	
DATE	3-88	
REV.		

Sanlando Utilities Corporation

WEKIVA WELL FIELD

365 3:17



WOODLANDS — 7' — A

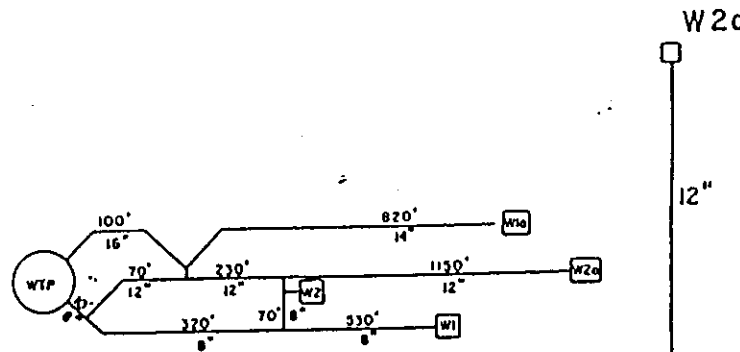
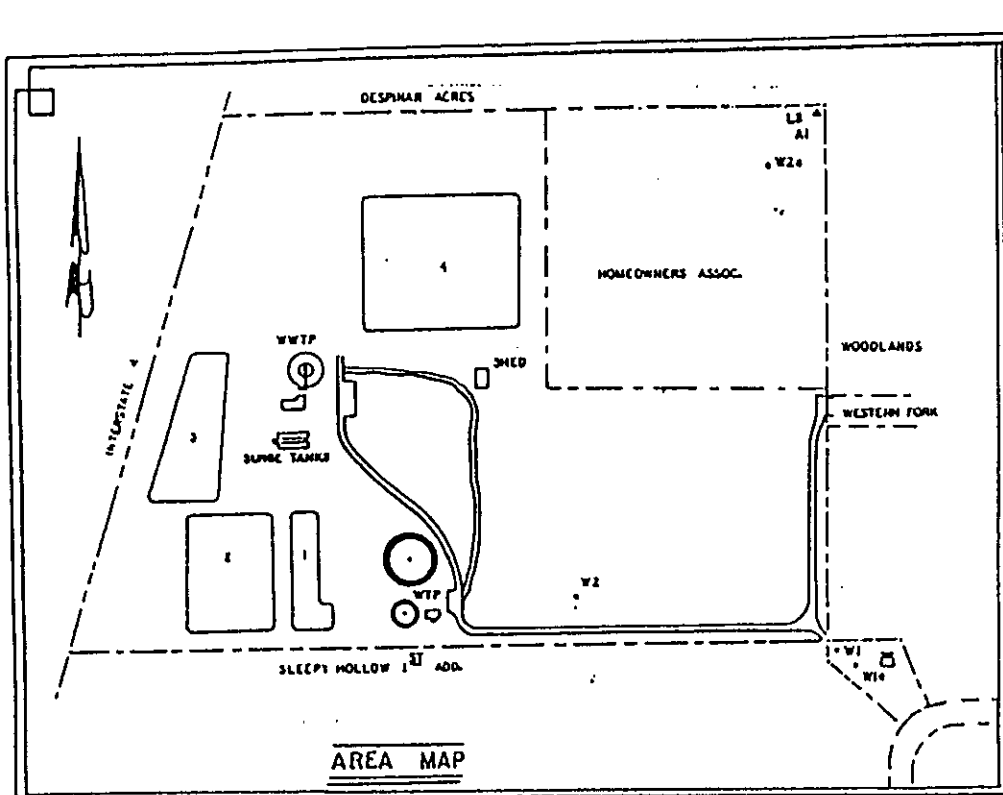
LEGEND

- 1 875,000 GAL. GROUND STORAGE TANK
- 2 250,000 GAL. GROUND STORAGE TANK
- 3 PUMP ROOM
- 4 CHLORINATION ROOM
- 5 8" W.M. (RAW - FROM WELL)
- 6 12" W.M. (RAW - FROM WELL) (D.I.P.)
- 7 14" W.M. (RAW - FROM WELL)
- 8 METER VAULT
- 9 15" W.M. (DISTRIBUTION) (C.A.)
- 10 14" W.M. (DISTRIBUTION) (D.I.P.)
- 11 4" F.M. (SEWER)
- 12 15" W.M. (D.I.P.)
- 13 12" W.M. (DISTRIBUTION) (C.I.P.)
- 14 14" W.M. (DISTRIBUTION) (D.I.P.)
- 15 INSTRUMENTATION PRESSURE LINE
- 16 FUEL STORAGE TANK

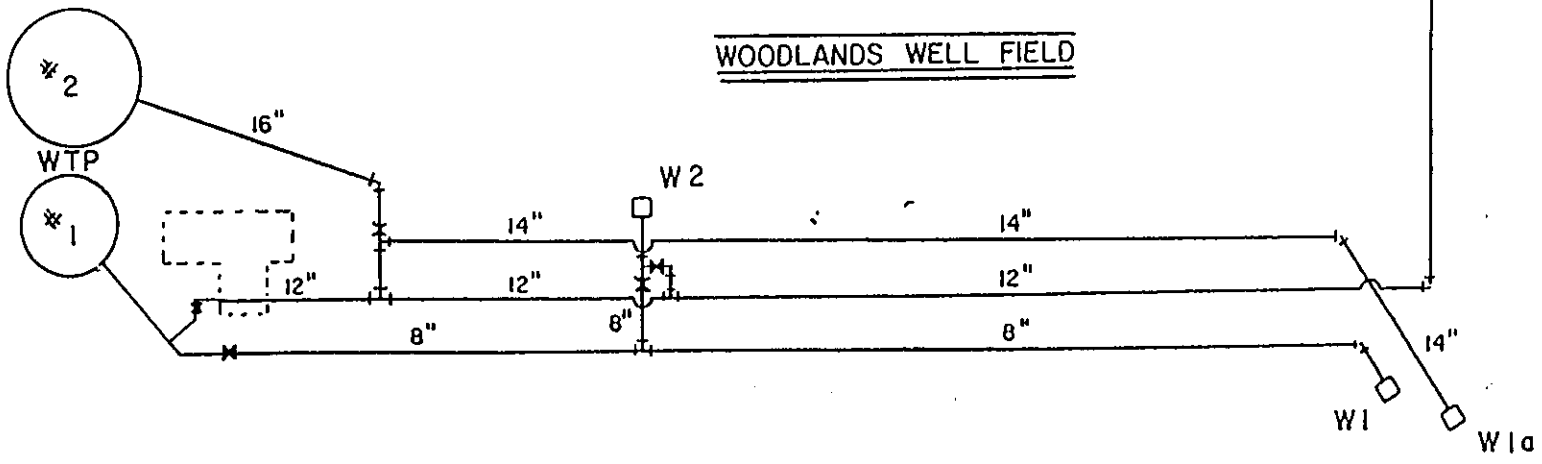
PROJECT No.	D.I.P. No.	DATE	REV.
SCALE	NTS	8-67	

Sanlando Utilities Corporation

WOODLANDS (DESPINAR) WELL FIELD



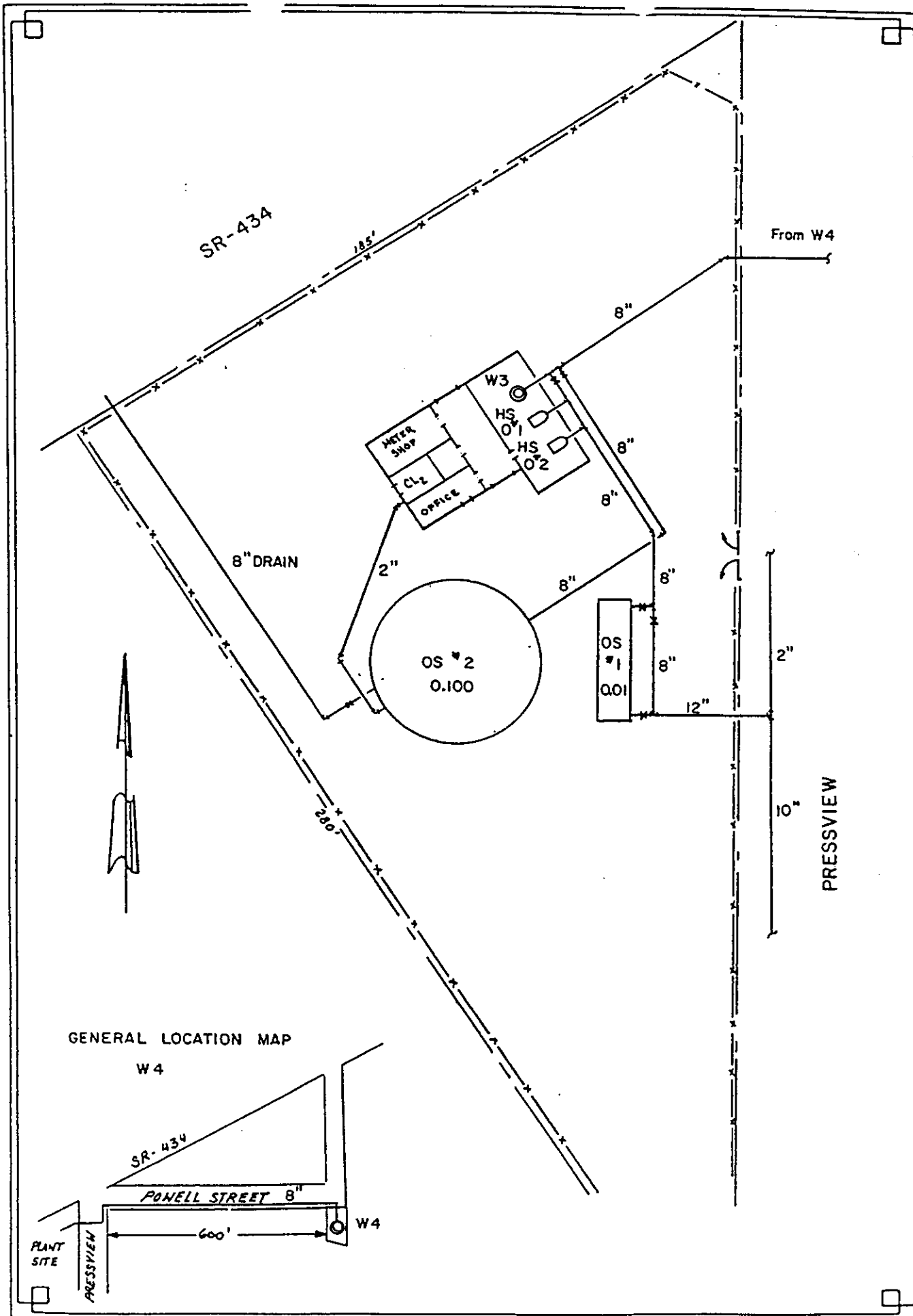
WOODLANDS WELL FIELD



WOODLANDS (DESPINAR) WELL FIELD

Sanlando Utilities
corporation

PROJECT No.	Design	Drawn	Date	Rev.
	CPI	SAJ	8-87	
SCALE				
Nts				



PROJECT No.	DESIGN	DATE	BY
	REVISION		
SCALE	NTS		
 Sanlando Utilities Corporation			
OVERSTREET SITE & PIPING PLAN			
KUNAL WOOD			

ATTACHMENT E
Request for Notification of Adjacent Property Owners



**Sanlando Utilities
CORPORATION**

February 11, 1997

St. Johns River Water Management District
Post Office Box 1429
Palatka, FL 32718-1429

Re: Notification to Adjacent Property Owners
Consumptive use Permit 2-117-0006UR Renewal
CPH Project No. S1640.00

Dear Sir/Madam:

Sanlando Utilities is currently applying for a Consumptive Use Permit renewal from SJRWMD and is required to notify the property owners adjacent to the well sites. All twelve wells are located near residential areas placing the required number of property owners to be notified, per Table 3 of the CUP, to well over 100. In conversations with representatives of SJRWMD we were informed that when the number of adjacent property owners exceeds 100, SJRWMD will advertise notification.

Sincerely,

SANLANDO UTILITIES CORPORATION


Hampton P. Conley
Executive Vice President

ATTACHMENT F
Public Service Commission Certificate

To Send This
D.A.G.
X.C.
AUG 10 1969
51624-00
CONKLIN, PORTER & HOLMES
ORLANDO, FLORIDA



FLORIDA PUBLIC SERVICE COMMISSION

CERTIFICATE NUMBER

512-W

Upon consideration of the record it is hereby ORDERED that authority be and is hereby granted to

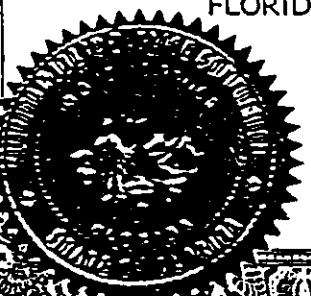
Lake Hills Utilities, Inc.
Whose principal address is
1105 Kensington Park Drive
Altamonte Springs, Florida 32714

to provide Water service in accordance with the provisions of Chapter 367, Florida Statutes, the Rules, Regulations and Orders of this Commission in the territory described by the Orders of this Commission.

This Certificate shall remain in force and effect until suspended, cancelled or revoked by Orders of this Commission.

- ORDER 20859 DATED 03/07/89 DOCKET 881473-WU
- ORDER _____ DATED _____ DOCKET _____
- ORDER _____ DATED _____ DOCKET _____
- ORDER _____ DATED _____ DOCKET _____

BY ORDER OF THE
FLORIDA PUBLIC SERVICE COMMISSION



Steve Fildes
Director, Division of Records & Reporting
Paul Snapp
Executive Director

AUG 17 1969
CONKLIN, PORTER & HOLMES
ORLANDO, FLORIDA

ATTACHMENT G
Monthly Operating Reports

Table G-1

**Wekiva Hunt Club WTP
1996**

	Permitted Capacity (mgd)	No of Service Conn.	Pop. Served	Total for Month (mgd)	Ave Day (mgd)	Max Day (mgd)	Peaking Factor
Jan	8.928	7707	23121	157.369	5.076	5.961	1.174
Feb	8.928	7652	22956	156.722	5.404	7.340	1.358
Mar	8.928	7641	22923	166.389	5.367	7.385	1.376
Apr	8.928	7742	23226	191.723	6.391	8.270	1.294
May	8.928	7644	22932	215.767	6.960	8.927	1.283
June	8.928	7646	22938	175.240	5.841	9.278	1.588
Jul	8.928	7646	22938	205.842	6.640	9.457	1.424
Aug	8.928	7851	23553	180.311	5.816	7.535	1.296
Sep	8.928	7652	22956	183.408	6.114	7.409	1.212
Oct	8.928	7880	23640	180.348	5.818	7.650	1.315
Nov	8.928	7855	23565	192.578	6.419	8.216	1.280
Dec	8.928	7825	23475	172.345	5.560	6.573	1.182
	8.928	7728	23185	2178.042	5.951	9.457	1.315

**Des Pinar WTP
1996**

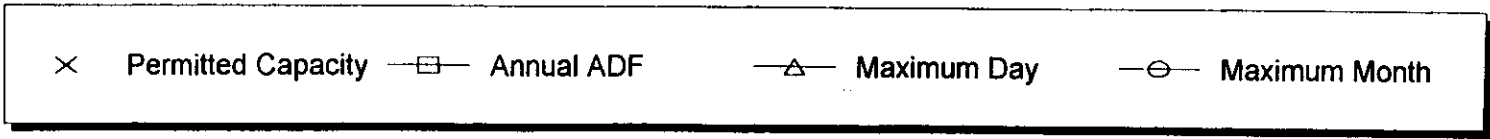
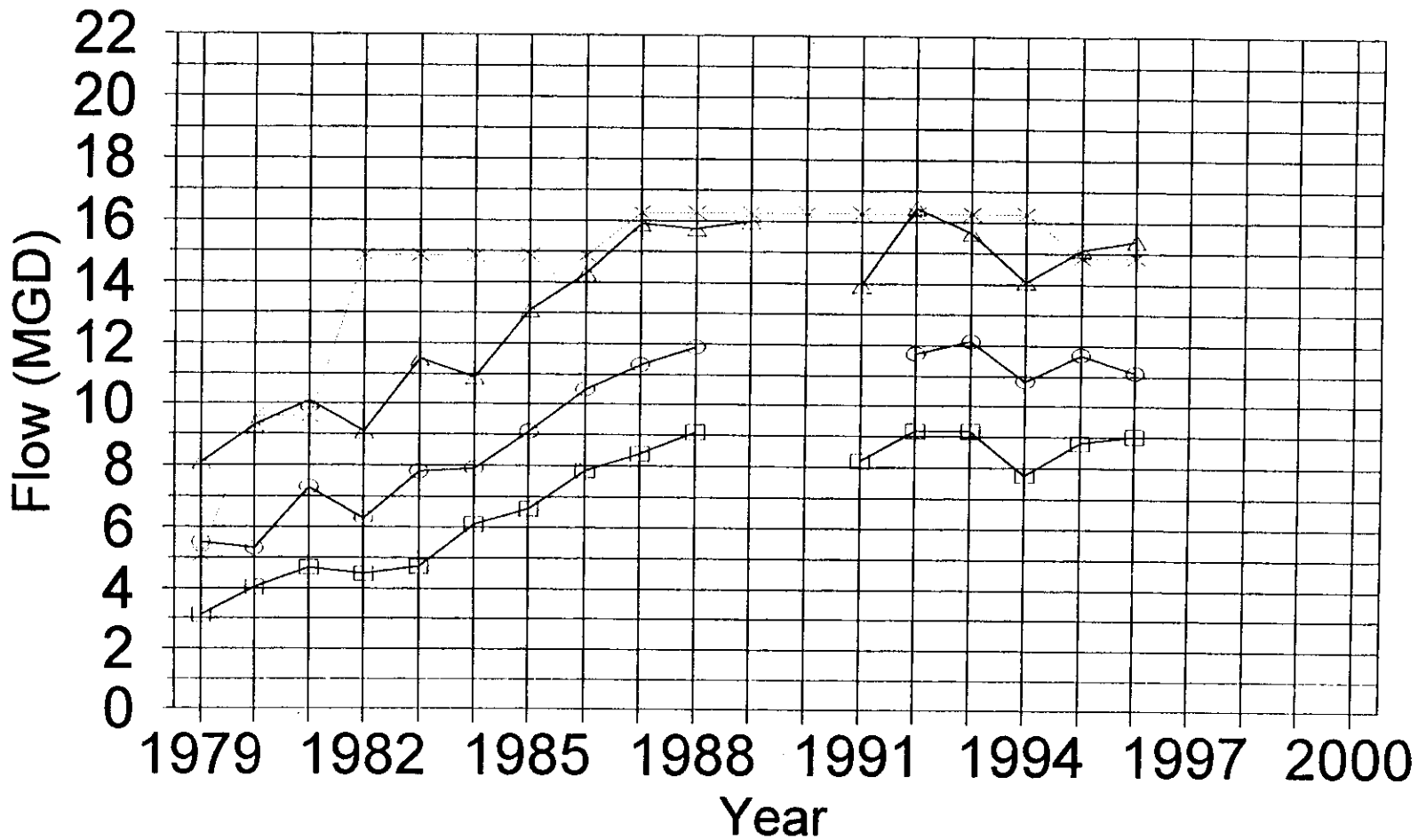
	Permitted Capacity (mgd)	No of Service Conn.	Pop. Served	Total for Month (mgd)	Ave Day (mgd)	Max Day (mgd)	Peaking Factor
Jan	5.364	1554	4662	66.829	2.156	2.762	1.281
Feb	5.364	1555	4665	80.915	2.790	3.753	1.345
Mar	5.364	1556	4668	76.045	2.453	3.469	1.414
Apr	5.364	1456	4368	100.453	3.348	4.735	1.414
May	5.364	1559	4677	124.608	4.020	5.636	1.402
June	5.364	1560	4680	82.494	2.750	4.334	1.576
Jul	5.364	1561	4683	102.891	3.319	5.290	1.594
Aug	5.364	1361	4083	98.422	3.175	4.882	1.538
Sep	5.364	1561	4683	85.144	2.838	4.322	1.523
Oct	5.364	1338	4014	89.934	2.901	4.253	1.466
Nov	5.364	1365	4095	108.056	3.602	4.360	1.210
Dec	5.364	1465	4395	83.689	2.700	3.342	1.238
	5.364	1491	4473	1099.480	3.004	5.636	1.417

**Knollwood WTP
1996**

	Permitted Capacity (mgd)	No of Service Conn.	Pop. Served	Total for Month (mgd)	Ave Day (mgd)	Max Day (mgd)	Peaking Factor
Jan	0.576	261	783	0.591	0.019	0.073	3.842
Feb	0.576	263	789	1.650	0.057	0.151	2.649
Mar	0.576	263	789	3.097	0.100	0.193	1.930
Apr	0.576	264	792	4.803	0.160	0.325	2.031
May	0.576	264	792	3.974	0.128	0.284	2.219
June	0.576	264	792	1.446	0.048	0.202	4.208
Jul	0.576	264	792	2.288	0.074	0.261	3.527
Aug	0.576	264	792	2.113	0.068	0.122	1.794
Sep	0.576	264	792	1.909	0.064	0.207	3.253
Oct	0.576	266	798	1.343	0.043	0.118	2.744
Nov	0.576	267	801	2.414	0.080	0.127	1.588
Dec	0.576	268	804	1.601	0.052	0.118	2.269
	0.576	264	793	27.229	0.074	0.325	2.671
	14.868	9484	28451	3304.751	9.029	15.418	1.708

Average Daily Per Capita Use	317.36 gpcd
Maximum Daily Per Capita Use	541.914 gpcd

Total Water Production (Operating Reports)





Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Wekiva Hunt Club WTP PWS Identification No.: 3591121
System Owner: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
Address: P.O.Box 3884
City: Longwood State: FL Zip Code: 32791
System Type: [X] community; [] non-transient non-community; [] non-community; [] consecutive
No. of Service Connections at End of Reporting Month: 7825 Total Population Served at End of Reporting Month: 23475

Water Treatment Plant Information

Treatment Plant Name: Wekiva Hunt Club WTP Telephone No.: (407) 682-5651
Address: 144 Ledbury Drive
City: Longwood State: FL Zip Code: 32779
Permitted Maximum Day Capacity of Plant: 8,928,000 gpd Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV "B"
Plant Operators: See Page 3.

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF DECEMBER 1996 : See Page 2.

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Signature and Date: [Signature] 01-08-97

RONALD E. EVANS COB-382 Name and Certificate Number (please type or print)

eration Report for Public Water Systems that Use Ground Water
 onsecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(3)

entification Number: 3591121
 Name: Wekiva Hunt Club

RY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF DECEMBER 1996

Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine);
 ne dioxide

Hours Plant in Operation	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
			Lowest Residual Disinfectant Concentration at Remote Point (mg/L)*	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)*	
Rain						
7 0.36	5,830,000	0.9	0.6			
4 0.00	5,127,000	0.7	0.4			
4 0.00	5,433,000	0.9	0.9	26	0.5	
4 0.00	5,478,000	0.8	0.5			
7 0.10	5,173,000	1.0	0.9			
4 0.00	4,835,000	0.8	0.3			
4 1.05	4,669,000	0.7	0.5			
4 0.00	5,164,000	1.2	0.5			
4 0.00	5,158,000	1.2	0.5			
7 0.00	5,209,000	1.3	0.9			
4 0.00	5,567,000	1.1	0.6			
4 0.00	5,395,000	1.2	0.9			
4 0.00	5,659,000	1.5	0.8			
4 0.00	5,789,000	1.0	0.8			
4 0.00	6,573,000	1.0	0.9			
4 0.00	5,822,000	1.2	0.7			
4 0.00	5,987,000	1.3	1.0			
4 0.01	5,867,000	0.9	0.8			
4 0.01	5,727,000	1.3	0.3			
4 0.01	4,900,000	1.0	0.5			
4 0.05	5,234,000	1.2	0.9			
4 0.00	5,626,000	1.7	0.9			
7 0.00	5,606,000	1.1	0.6			
7 0.00	5,891,000	1.6	0.4			
7 0.00	5,310,000	1.2	0.5			
7 0.01	6,002,000	1.1	0.7			
4 0.00	5,641,000	0.9	0.8			
4 0.00	5,640,000	1.0	0.9			
7 0.00	6,027,000	0.9	0.6			
4 0.00	6,224,000	0.8	0.6			
7 0.00	6,282,000	1.2	0.8			
7 1.60	172,345,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	26	XXXXXXXXXXXXXX	XXXXXXXXXX
7 0.20	5,560,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX
4 1.05	6,573,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX

* When the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

* When the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Des Pinar WTP, System Owner: Sanlando Utilities Corporation, PWS Identification No.: 3591121, Telephone No.: (407) 788-3600, State: FL, Zip Code: 32791, No. of Service Connections at End of Reporting Month: 1465, Total Population Served at End of Reporting Month: 4395

Water Treatment Plant Information

Treatment Plant Name: Des Pinar WTP, Address: 125 Western Fork, City: Longwood, State: FL, Zip Code: 32750, Permitted Maximum Day Capacity of Plant: 5,364,000 gpd, Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV "C"

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF DECEMBER 1996 : See Page 2.

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Signature and Date: Don Hasty 1-7-97

Name and Certificate Number (please type or print): DON HASTY B-6625

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(3)

System PWS Identification Number: 3591121
 Treatment Plant Name: Des Pinar WTP

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF DECEMBER 1996

• Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine);
 chlorine dioxide

Day of the Month	Hours Plant in Operation	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)†	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)†	
1	24 / 0.91"	2,921,000	1.0	1.0			
2	24	2,655,000	1.1	1.0			
3	24	2,929,000	1.1	0.8			
4	24	2,579,000	0.8	0.9	10	0.5	
5	24 / 0.15"	2,519,000	1.1	0.7			
6	24	2,692,000	0.9	0.8			
7	24 / 1.10"	1,958,000	0.8	0.6			
8	24	2,245,000	0.8	0.6			
9	24	2,073,000	1.1	0.8			
10	24	2,559,000	1.2	1.0			
11	24	2,280,000	1.1	0.7			
12	24	2,507,000	1.1	0.5			
13	24	3,342,000	0.9	0.7			
14	24	2,817,000	1.0	0.6			
15	24	2,922,000	1.1	0.7			
16	24	2,625,000	1.5	1.1			
17	24	3,082,000	1.1	0.5			
18	24	2,685,000	1.2	0.8			
19	24 / 0.01"	2,364,000	1.3	0.7			
20	24 / 0.01"	2,840,000	1.3	0.9			
21	24	2,502,000	1.2	0.8			
22	24	2,683,000	0.9	0.7			
23	24	2,688,000	1.1	0.9			
24	24	2,828,000	1.2	0.8			
25	24	2,796,000	0.9	0.7			
26	24	2,973,000	0.9	0.7			
27	24	3,039,000	1.0	0.9			
28	24	2,736,000	0.3	0.5			
29	24 / 0.03"	3,243,000	0.6	0.6			
30	24	2,610,000	1.2	0.7			
31	24	2,997,000	0.7	0.8			
Total	744 / 1.71"	83,689,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	10	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Avg.	24	2,699,645	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Max.	24	3,342,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.
 † If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Knollwood WTP PWS Identification No.: 3591121
System Owner: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
Address: P.O. Box 3884
City: Longwood State: FL Zip Code: 32791
System Type: [X] community; [] non-transient non-community; [] non-community; [] consecutive
No. of Service Connections at End of Reporting Month: 268 Total Population Served at End of Reporting Month: 804

Water Treatment Plant Information

Treatment Plant Name: Knollwood WTP Telephone No.: (407) 830-5070
Address: 100 South Pressview Drive
City: Longwood State: FL Zip Code: 32750
Permitted Maximum Day Capacity of Plant: 576,000 gpd Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV "C"
Plant Operators: See Page 3.

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF DECEMBER / 1996 : See Page 2.

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Signature and Date Don Hasty 1-7-97

Name and Certificate Number (please type or print) DON HASTY B-6625

Monthly Operation Report for Public Water Systems that Use Ground Water
and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(3)

System PWS Identification Number: 3591121
Treatment Plant Name: Knollwood WTP

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF DECEMBER 1996

• Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine);
 chlorine dioxide

Day of the Month	Hours Plant in Operation	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)†	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)†	
1	24	16,000	1.1	0.6			
2	24	0	0.8	0.7			
3	24	30,000	0.8	0.7			
4	24	52,000	0.9	0.6	4	0.7	
5	24	24,000	1.0	0.8			
6	24	14,000	0.8	0.5			
7	24	19,000	0.8	0.5			
8	24	103,000	0.9	0.5			
9	24	2,000	0.9	0.7			
10	24	0	0.7	0.6			
11	24	56,000	0.7	0.7			
12	24	28,000	0.7	0.5			
13	24	42,000	0.8	0.6			
14	24	19,000	0.9	0.6			
15	24	103,000	1.0	0.7			
16	24	16,000	0.7	0.7			
17	24	99,000	0.8	0.5			
18	24	47,000	0.8	0.8			
19	24	0	1.0	0.5			
20	24	71,000	0.8	0.6			
21	24	47,000	0.5	0.6			
22	24	91,000	0.5	0.5			
23	24	47,000	0.4	0.7			
24	24	80,000	0.5	0.6			
25	24	75,000	0.5	0.5			
26	24	94,000	0.6	0.5			
27	24	52,000	0.5	0.7			
28	24	61,000	0.6	0.5			
29	24	96,000	1.0	0.6			
30	24	118,000	0.8	0.5			
31	24	99,000	1.0	1.0			
Total	XXXXXX	1,601,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	4	XXXXXXXXXXXXXX	XXXXXXXXXX
Avg.	XXXXXX	51,645	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX
Max.	XXXXXX	118,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.
† If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-595.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Wekiva Hunt Club WTP PWS Identification No.: 3591121
System Owner: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
Address: P.O. Box 3884
City: Longwood State: FL. Zip Code: 32791
System Type: [X] community; [] non-transient non-community; [] non-community; [] consecutive
No. of Service Connections at End of Reporting Month: 7855; Total Population Served at End of Reporting Month: 23565

Water Treatment Plant Information

Treatment Plant: Wekiva Hunt Club WTP Telephone No.: (407) 682-5651
Address: 144 Ledbury Drive
City: Longwood State: FL. Zip Code: 32779
Permitted Maximum Day Capacity of Plant: 8,928,000 gpd; Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV "3"
Plant Operators: See Page 3.

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF NOVEMBER 1996: See Page 2

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amperes).

Ronald E. Evans 12-03-96
Signature and Date

RONALD E. EVANS COB-382
Name and Certificate Number (please type or print)

Monthly Operation Report for Public Water Systems that Use Ground Water
and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(3)

System PWS Identification Number: 3591121
Treatment Plant Name: Wekiva Hunt Club

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF NOVEMBER 1996

• Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine);
 chlorine dioxide

Day of the Month	Hours Plant in Operation	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)†	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)†	
1	24 0.00	8,216,000	1.2	0.4			
2	24 0.00	7,094,000	1.3	0.2			
3	24 0.00	7,140,000	1.7	0.5			
4	24 0.00	6,723,000	1.0	0.5			
5	24 0.00	6,895,000	1.2	0.7	26		
6	24 0.00	6,590,000	1.0	0.8			
7	24 0.00	6,950,000	0.5	0.3			
8	24 0.33	5,968,000	1.1	0.9			
9	24 0.00	5,846,000	1.2	1.0			
10	24 0.00	6,488,000	1.4	0.3			
11	24 0.00	6,299,000	1.6	0.3			
12	24 0.00	6,154,000	1.6	1.0			
13	24 0.00	6,122,000	1.3	1.0			
14	24 0.01	6,345,000	2.5	1.0			
15	24 0.00	5,596,000	1.2	1.0			
16	24 0.00	6,321,000	1.3	0.9			
17	24 0.00	7,077,000	1.3	0.7			
18	24 0.00	6,308,000	1.1	0.8			
19	24 0.00	6,461,000	1.2	0.5			
20	24 0.01	6,143,000	1.2	0.7			
21	24 0.00	6,436,000	1.1	0.6			
22	24 0.00	5,955,000	1.0	0.4			
23	24 0.00	6,606,000	0.5	0.4			
24	24 0.00	7,102,000	1.3	0.2			
25	24 0.11	6,440,000	1.0	0.7			
26	24 0.00	5,490,000	0.7	0.7			
27	24 0.00	5,833,000	1.0	0.5			
28	24 0.00	6,206,000	1.2	0.3			
29	24 0.00	5,643,000	1.1	0.6			
30	24 0.00	6,128,000	1.1	0.7			
31							
Total	720 0.41	192,579,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	26	XXXXXXXXXXXXXX	XXXXXXXXXX
Avg.	24 0.12	6,419,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX
Max.	24 0.33	8,216,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

† If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Des Pinar WTP PWS Identification No.: 3591121
System Owner: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
Address: P.O. Box 3884
City: Longwood State: FL Zip Code: 32791
System Type: [X] community; [] non-transient non-community; [] non-community; [] consecutive
No. of Service Connections at End of Reporting Month: 1365; Total Population Served at End of Reporting Month: 4095

Water Treatment Plant Information

Treatment Plant Name: Des Pinar WTP Telephone No.: (407) 260-5065
Address: 125 Western Fork
City: Longwood State: FL Zip Code: 32750
Permitted Maximum Day Capacity of Plant: 5,364,000 gpd; Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV "C"
Plant Operators: See Page 3.

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF NOVEMBER / 1996 : See Page 2

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Signature and Date: Don Hasty 5 DEC 96

Name and Certificate Number (please type or print): DON HASTY B-6625

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(3)

System PWS Identification Number: 3591121
 Treatment Plant Name: Des Pinar WTP

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF NOVEMBER / 1996

- Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine); chlorine dioxide

Day of the Month	Hours Plant in Operation Rain	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)*	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)*	
1	24	4,360,000	0.8	1.1			
2	24	3,975,000	1.3	1.0			
3	24	3,610,000	1.7	0.4			
4	24	3,572,000	2.1	0.3			
5	24	3,631,000	0.8	0.5			
6	24	3,910,000	0.8	0.6			
7	24	3,631,000	0.7	0.5			
8	24 0.20'	3,468,000	0.7	0.4			
9	24	3,111,000	0.8	0.8			
10	24	3,122,000	0.8	0.8			
11	24	3,383,000	0.8	0.9			
12	24	3,535,000	1.1	0.6	10	0.5	
13	24	3,502,000	0.9	0.5			
14	24 0.02'	3,514,000	0.7	0.6			
15	24	3,467,000	1.4	1.2			
16	24 0.01'	3,830,000	1.0	1.0			
17	24	3,860,000	0.9	0.9			
18	24	3,380,000	0.8	0.7			
19	24	3,794,000	0.8	0.6			
20	24	3,587,000	0.8	0.7			
21	24	3,592,000	0.7	0.5			
22	24	3,896,000	0.7	0.6			
23	24	3,973,000	1.1	1.0			
24	24	3,795,000	0.9	0.5			
25	24 0.10'	3,427,000	0.7	0.6			
26	24	3,124,000	0.8	0.7			
27	24	3,027,000	0.7	0.6			
28	24	3,474,000	1.3	0.7			
29	24	4,010,000	1.1	0.7			
30	24	3,491,000	1.1	0.8			
31							
Total	24 0.33'	108,056,000	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX	10	XXXXXXXXXXXX	XXXXXXXXXX
Avg.	24 0.01'	3,601,867	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXX
Max.	24 0.20'	4,360,000	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

* If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Knollwood WTP PWS Identification No.: 3591121
System Owner: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
Address: P.O. Box 3884
City: Longwood State: FL Zip Code: 32791
System Type: [X] community; [] non-transient non-community; [] non-community; [] consecutive
No. of Service Connections at End of Reporting Month: 267; Total Population Served at End of Reporting Month: 801

Water Treatment Plant Information

Treatment Plant: Knollwood WTP Telephone No.: (407) 830-5070
Address: 100 South Pressview Drive
City: Longwood State: FL Zip Code: 32750
Permitted Maximum Day Capacity of Plant: 576,000 gpd; Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV "C"
Plant Operators: See Page 3.

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF NOVEMBER / 1996 : See Page 2.

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amperes).

Don Hasty
Signature and Date

5 DEC 96

Don HASTY B-6625
Name and Certificate Number (please type or print)

Monthly Operation Report for Public Water Systems that Use Ground Water
and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(3)

System PWS Identification Number: 3591121
Treatment Plant Name: Knollwood WTP

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF NOVEMBER / 1996

- Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine); chlorine dioxide

Day of the Month	Hours Plant in Operation	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)†	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)†	
1	24	75,000	1.0	0.8			
2	24	61,000	1.0	0.5			
3	24	94,000	0.5	0.5			
4	24	94,000	1.1	0.7			
5	24	103,000	0.8	0.5			
6	24	85,000	0.7	0.7			
7	24	127,000	0.5	0.5			
8	24	47,000	0.5	0.4			
9	24	56,000	1.1	0.4			
10	24	110,000	1.3	0.3			
11	24	80,000	0.6	0.6			
12	24	94,000	0.5	0.6	4	0.4	
13	24	118,000	0.9	0.7			
14	24	99,000	0.8	0.6			
15	24	61,000	0.8	0.6			
16	24	61,000	1.6	0.7			
17	24	110,000	1.1	0.5			
18	24	75,000	0.8	0.5			
19	24	108,000	1.1	0.6			
20	24	99,000	0.7	0.5			
21	24	94,000	0.8	0.5			
22	24	42,000	0.8	0.7			
23	24	56,000	1.1	0.5			
24	24	94,000	1.0	0.9			
25	24	89,000	0.7	0.5			
26	24	71,000	0.7	0.6			
27	24	56,000	0.8	0.6			
28	24	52,000	0.9	0.5			
29	24	56,000	1.1	0.6			
30	24	47,000	1.1	0.4			
31							
Total	XXXXXX	2,414,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	4	XXXXXXXXXXXXXX	XXXXXXXXXX
Avg.	XXXXXX	80,467	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX
Max.	XXXXXX	127,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

† If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Knollwood WTP PWS Identification No.: 3591121
System Owner: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
Address: P.O. Box 3884
City: Longwood State: FL Zip Code: 32791
System Type: [X] community; [] non-transient non-community; [] non-community; [] consecutive
No. of Service Connections at End of Reporting Month: 266; Total Population Served at End of Reporting Month: 798

Water Treatment Plant Information

Treatment Plant: Knollwood WTP Telephone No.: (407) 830-5070
Address: 100 South Pressview Drive
City: Longwood State: FL Zip Code: 32750
Permitted Maximum Day Capacity of Plant: 576,000 gpd; Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV "C"
Plant Operators: See Page 3.

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF OCTOBER, 1996: See Page 2.

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTRANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Signature and Date: Don Hasty 11-5-96

Name and Certificate Number (please type or print): DON HASTY B-6625

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute OEP Form 62-555.910(3)

System PWS Identification Number: 3591121

Treatment Plant Name: Knollwood WTP

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF OCTOBER, 1996

- Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine); chlorine dioxide

Day of the Month	Hours Plant in Operation	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)†	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)†	
1		71,000	0.3	0.4			
2		71,000	0.3	0.5			
3		19,000	0.8	0.6			
4		0	0.3	0.5			
5		0	0.4	0.6			
6		0	0.3	0.5			
7		0	0.3	0.5			
8		11,000	0.3	0.5			
9		0	0.3	0.5			
10		24,000	0.3	0.4			
11		19,000	0.5	0.5			
12		19,000	1.1	0.7			
13		71,000	0.8	0.4			
14		33,000	0.3	0.5			
15		75,000	0.3	0.4			
16		71,000	0.5	0.4			
17		47,000	0.3	0.5			
18		14,000	0.3	0.4			
19		0	0.2	0.6			
20		72,000	0.2	0.5			
21		0	0.2	0.5			
22		0	0.2	0.4			
23		0	0.2	0.5	4	0.4	
24		99,000	0.2	0.4			
25		75,000	0.3	0.5			
26		56,000	0.4	0.5			
27		94,000	0.5	0.4			
28		89,000	0.4	0.9			
29		115,000	0.3	0.5			
30		118,000	0.4	0.6			
31		80,000	0.3	0.5			
Total	XXXXXX	1,343,000	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXX		XXXXXXXXXXXXXX	XXXXXXXXXX
Avg.	XXXXXX	43,300	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX
Max.	XXXXXX	118,000	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

† If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Des Pinar WTP, PWS Identification No.: 3591121, System Owner: Sanlando Utilities Corporation, Telephone No.: (407) 788-3600, Address: P.O. Box 3884, City: Longwood, State: FL, Zip Code: 32791, System Type: community, No. of Service Connections at End of Reporting Month: 1338, Total Population Served at End of Reporting Month: 4014

Water Treatment Plant Information

Treatment Plant Name: Des Pinar WTP, Telephone No.: (407) 260-5065, Address: 125 Western Fork, City: Longwood, State: FL, Zip Code: 32750, Permitted Maximum Day Capacity of Plant: 5,364,000 gpd, Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV "C", Plant Operators: See Page 3.

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF OCTOBER, 1996: See Page 2.

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Signature and Date: Don Hast, 11-5-96

Name and Certificate Number (please type or print): DON HASTY B-6625

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(3)

System PWS Identification Number: 3591121

Treatment Plant Name: Des Pinar WTP

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF OCTOBER 1996

• Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine); chlorine dioxide

Day of the Month	Hours Plant in Operation Rain	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)†	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)†	
1	24	2,552,000	1.5	1.0			
2	24	2,857,000	1.3	0.9			
3	24 0.30	2,361,000	1.1	0.8			
4	24 2.27	2,019,000	1.4	0.9			
5	24 0.26	1,736,000	1.2	0.7			
6	24 0.65	1,510,000	1.4	0.9			
7	24 2.60	1,418,000	1.2	0.9			
8	24	1,505,000	1.4	1.0			
9	24	1,733,000	0.8	0.5			
10	24	1,771,000	0.7	0.3			
11	24	2,318,000	0.7	0.4			
12	24	2,689,000	0.8	0.8			
13	24	3,058,000	0.9	0.5			
14	24	2,791,000	1.0	0.5			
15	24	2,967,000	0.8	0.5			
16	24	2,941,000	0.8	0.7			
17	24	2,839,000	1.0	0.6			
18	24 0.11	2,918,000	0.8	0.5			
19	24	2,989,000	0.8	0.8			
20	24	3,277,000	0.9	0.6			
21	24	3,194,000	0.8	0.5			
22	24	3,672,000	0.8	0.5	10	0.5	
23	24	3,570,000	0.8	0.6			
24	24	3,900,000	0.8	0.5			
25	24	3,585,000	0.6	0.5			
26	24	4,253,000	1.0	0.7			
27	24	4,196,000	1.0	0.5			
28	24	3,851,000	1.0	1.2			
29	24	4,012,000	0.9	0.4			
30	24	3,804,000	0.9	0.7			
31	24	3,653,000	0.8	0.5			
Total		89,934,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX		XXXXXXXXXXXXXX	XXXXXXXXXX
Avg.		2,901,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX
Max.		4,253,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

† If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

● System Name: Wekiva Hunt Club WTP PWS Identification No.: 3591121
 ● System Owner
 Name: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
 Address: P.O.Box 3884
 City: Longwood State: FL. Zip Code: 32791
 ● System Type: community; non-transient non-community; non-community; consecutive
 ● No. of Service Connections at End of Reporting Month: 7880; ● Total Population Served at End of Reporting Month: 23640

Water Treatment Plant Information

● Treatment Plant
 Name: Wekiva Hunt Club WTP Telephone No.: (407) 682-5651
 Address: 144 Ledbury Drive
 City: Longwood State: FL. Zip Code: 32779
 ● Permitted Maximum Day Capacity of Plant: 8,928,000 gpd; ● Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV "B"
 ● Plant Operators: See Page 3.

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF OCTOBER 1996 : See Page 2.

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
- process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
- process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
- process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
- process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
- process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
- process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
- process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Ronald E. Evans
Signature and Date

11-6-96

RONALD E. EVANS COB-382
Name and Certificate Number (please type or print)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(3)

System PWS Identification Number: 3591121
 Treatment Plant Name: Wekiva Hunt Club

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF OCTOBER 1996

• Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine);
 chlorine dioxide

Day of the Month	Hours Plant in Operation	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)†	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)†	
1	24 0.00	5,290,000	0.6	0.4			
2	24 0.16	5,349,000	1.4	0.5			
3	24 0.20	5,077,000	1.0	0.5			
4	24 1.48	4,682,000	1.2	0.6			
5	24 0.17	3,596,000	1.1	0.6			
6	24 2.35	4,843,000	1.0	0.8			
7	24 0.85	4,474,000	0.6	0.3			
8	24 0.01	4,562,000	1.3	0.7			
9	24 0.00	4,740,000	1.0	0.8			
10	24 0.00	5,054,000	1.0	0.8			
11	24 0.00	5,171,000	1.0	0.5			
12	24 0.00	5,406,000	0.8	0.6			
13	24 0.00	6,082,000	0.9	0.7			
14	24 0.00	6,077,000	1.2	0.4			
15	24 0.00	6,154,000	1.2	0.9			
16	24 0.01	5,884,000	1.0	1.5	26	0.3	
17	24 0.11	5,770,000	1.3	1.1			
18	24 0.00	5,426,000	1.8	0.8			
19	24 0.00	6,203,000	1.1	0.7			
20	24 0.00	6,770,000	1.3	0.9			
21	24 0.00	6,589,000	1.2	0.7			
22	24 0.00	6,675,000	1.4	1.0			
23	24 0.00	6,634,000	1.4	0.8			
24	24 0.00	6,732,000	1.3	0.7			
25	24 0.00	6,591,000	1.0	0.7			
26	24 0.00	7,135,000	1.2	0.9			
27	24 0.00	7,650,000	1.4	0.7			
28	24 0.00	6,882,000	1.5	0.5			
29	24 0.00	6,880,000	1.3	0.8			
30	24 0.00	6,838,000	1.5	0.5			
31	24 0.00	5,132,000	1.0	0.2			
Total	744 5.74	180,348,000	XXXXXXXXXXXXXX	XXXXXXXXXX	26	XXXXXXXXXXXXXX	XXXXXXXXXX
Avg.	24 2.64	5,818,000	XXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX
Max.	24 2.25	7,650,000	XXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.
 † If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Wekiva Hunt Club WTP PWS Identification No.: 3591121
System Owner: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
Address: P.O. Box 3884
City: Longwood State: FL Zip Code: 32791
System Type: [X] community; [] non-transient non-community; [] non-community; [] consecutive
No. of Service Connections at End of Reporting Month: 7652; Total Population Served at End of Reporting Month: 12,800

Water Treatment Plant Information

Treatment Plant Name: Wekiva Hunt Club WTP Telephone No.: (407) 682-5651
Address: 144 Ledbury Drive
City: Longwood State: FL Zip Code: 32779
Permitted Maximum Day Capacity of Plant: 8,928,000 gpd; Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV "B"
Plant Operators: See Page 3.

- II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF SEPTEMBER 1996: See Page 2.
III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTRANT: See Page 4.
IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Signature and Date: [Signature] 10-07-96

RONALD E. EVANS COB-382
Name and Certificate Number (please type or print)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(3)

System PWS Identification Number: 3591121
 Treatment Plant Name: Wekiva Hunt Club

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF SEPTEMBER 1996

• Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine); chlorine dioxide

Day of the Month	Hours Plant in Operation	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)†	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)†	
1	24 0.04	5,882,000	1.2	0.5			
2	24 0.00	7,015,000	2.9	0.7			
3	24 0.00	6,416,000	1.0	0.4			
4	24 0.00	6,932,000	1.0	0.5			
5	24 0.00	7,217,000	1.5	0.7			
6	24 0.00	7,081,000	1.0	0.5			
7	24 0.00	7,409,000	0.9	0.7			
8	24 0.02	7,099,000	1.0	0.9			
9	24 0.05	5,829,000	0.9	0.5			
10	24 2.50	5,235,000	0.9	0.5	26	0.2	
11	24 2.35	4,929,000	0.8	0.5			
12	24 0.00	5,034,000	1.0	0.5			
13	24 0.00	5,415,000	1.1	0.5			
14	24 0.00	6,183,000	1.0	0.7			
15	24 0.44	6,125,000	1.2	0.5			
16	24 0.00	5,553,000	1.5	0.7			
17	24 0.00	5,626,000	0.9	1.0			
18	24 0.10	5,390,000	1.5	1.0			
19	24 0.02	5,576,000	1.3	1.0			
20	24 0.00	5,682,000	1.2	0.6			
21	24 0.22	5,325,000	1.0	0.7			
22	24 0.15	5,557,000	1.2	0.5			
23	24 0.00	5,835,000	1.2	0.7			
24	24 0.00	6,164,000	1.3	0.5			
25	24 0.00	6,304,000	1.0	0.5			
26	24 0.00	6,653,000	0.7	0.6			
27	24 0.00	6,432,000	0.5	0.2			
28	24 0.00	6,960,000	1.2	0.5			
29	24 0.01	6,584,000	1.0	0.7			
30	24 0.01	5,961,000	0.5	0.2			
31							
Total	720 3.91	183,408,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	26	XXXXXXXXXXXXXX	XXXXXXXXXX
Avg.	24 6.33	6,114,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX
Max.	24 2.50	7,409,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

† If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Des Pinar WTP PWS Identification No.: 3591121
System Owner: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
Address: P.O. Box 3884
City: Longwood State: FL Zip Code: 32791
System Type: [X] community; [] non-transient non-community; [] non-community; [] consecutive
No. of Service Connections at End of Reporting Month: 1561; Total Population Served at End of Reporting Month: 468

Water Treatment Plant Information

Treatment Plant Name: Des Pinar WTP Telephone No.: (407) 260-5065
Address: 125 Western Fork
City: Longwood State: FL Zip Code: 32750
Permitted Maximum Day Capacity of Plant: 5,364,000 gpd; Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV "C"
Plant Operators: See Page 3.

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF September, 1996 : See Page 2.

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTRANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amperes).

Douglas Goodwin 10-7-96
Signature and Date

Douglas Goodwin 2740 C
Name and Certificate Number (please type or print)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(3)

System PWS Identification Number: 3591121
 Treatment Plant Name: Des Pinar WTP

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF September 1996

• Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine); chlorine dioxide

Day of the Month	Hours Plant in Operation Rain	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)†	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)†	
1	24/trace	2,762,000	1.4	0.5			
2	24	3,948,000	0.9	0.5			
3	24	3,188,000	1.3	0.6			
4	24	3,351,000	1.4	0.9			
5	24	3,805,000	1.5	1.1			
6	24	4,322,000	1.4	0.8			
7	24	4,514,000	1.3	0.8			
8	24/120	3,553,000	1.0	0.5			
9	24/0.80	2,477,000	1.1	0.7			
10	24/2.17	1,963,000	1.6	1.2			
11	24/0.29	1,667,000	1.2	0.6			
12	24	1,800,000	1.4	0.8			
13	24	2,732,000	1.5	0.9			
14	24	3,404,000	1.2	0.8			
15	24/180	2,327,000	1.0	0.5			
16	24/0.60	2,186,000	1.2	0.6			
17	24/0.32	2,527,000	1.2	0.8			
18	24	1,885,000	1.3	0.7	10	0.7	
19	24	2,487,000	1.1	0.8			
20	24	3,030,000	0.9	0.9			
21	24	2,570,000	1.3	0.7			
22	24/0.12	2,062,000	0.9	0.5			
23	24	2,679,000	1.2	0.8			
24	24	2,874,000	1.4	0.8			
25	24	3,229,000	1.1	0.7			
26	24	3,325,000	1.0	0.6			
27	24	4,011,000	1.1	0.7			
28	24	4,322,000	1.2	0.6			
29	24/0.60	3,212,000	1.0	0.8			
30	24/trace	2,737,000	1.3	0.8			
31							
Total	6.92	85,144,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX		XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Avg.	0.23	2,838,133	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Max.	2.17	4,322,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

† If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

● System Name: Knollwood WTP PWS Identification No.: 3591121
 ● System Owner
 Name: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
 Address: P.O.Box 3884
 City: Longwood State: FL. Zip Code: 32791
 ● System Type: community; non-transient non-community; non-community; consecutive
 ● No. of Service Connections at End of Reporting Month: 204; ● Total Population Served at End of Reporting Month: 792

Water Treatment Plant Information

● Treatment Plant
 Name: Knollwood WTP Telephone No.: (407) 830-5070
 Address: 100 South Pressview Drive
 City: Longwood State: FL. Zip Code: 32750
 ● Permitted Maximum Day Capacity of Plant: 576,000 gpd; ● Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV "C"
 ● Plant Operators: See Page 3.

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF SEPTEMBER, 1996: See Page 2.

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTRANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
- process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
- process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
- process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
- process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
- process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
- process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
- process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Douglas Goodwin 10-7-96
Signature and Date

Douglas Goodwin 2740 C
Name and Certificate Number (please type or print)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(3)

System PWS Identification Number: 3591121

Treatment Plant Name: Knollwood WTP

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF September 1996

- Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine); chlorine dioxide

Day of the Month	Hours Plant in Operation	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)†	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)†	
1	24	94000	0.5	0.4			
2	24	99000	0.3	0.4			
3	24	108000	0.5	0.6			
4	24	108000	0.7	0.5			
5	24	207000	1.2	0.6			
6	24	122000	0.7	0.4			
7	24	85000	0.9	0.5			
8	24	79000	1.0	0.7			
9	24	21000	0.7	0.5			
10	24	28000	0.6	0.5			
11	24	42000	1.8	1.2			
12	24	19000	0.5	0.5			
13	24	40000	0.3	0.7			
14	24	52000	0.5	0.6			
15	24	28000	0.8	0.5			
16	24	52000	0.7	0.8			
17	24	63000	0.5	0.6	4	0.6	
18	24	24000	0.7	0.6			
19	24	56000	0.9	0.7			
20	24	47000	0.3	0.5			
21	24	14000	0.7	0.5			
22	24	9000	0.5	0.5			
23	24	14000	0.5	0.6			
24	24	89000	0.7	0.4			
25	24	82000	0.9	0.5			
26	24	69000	0.7	0.5			
27	24	75000	0.6	0.7			
28	24	66000	0.5	0.4			
29	24	75000	0.8	0.6			
30	24	42000	0.3	0.4			
31							
Total	XXXXXX	1,909,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX		XXXXXXXXXXXXXX	XXXXXXXXXX
Avg.	XXXXXX	63,633	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX
Max.	XXXXXX	207,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

† If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Wekiva Hunt Club WTP PWS Identification No.: 3591121
System Owner Name: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
Address: P.O. Box 3884
City: Longwood State: FL Zip Code: 32791
System Type: [X] community; [] non-transient non-community; [] non-community; [] consecutive
No. of Service Connections at End of Reporting Month: 7851 Total Population Served at End of Reporting Month: 23553

Water Treatment Plant Information

Treatment Plant Name: Wekiva Hunt Club WTP Telephone No.: (407) 682-5651
Address: 144 Ledbury Drive
City: Longwood State: FL Zip Code: 32779
Permitted Maximum Day Capacity of Plant: 8,928,000 gpd Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV "B"
Plant Operators: See Page 3.

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF AUGUST 1996 : See Page 2

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Ronald E. Evans 9-9-96
Signature and Date

RONALD E. EVANS COB-382
Name and Certificate Number (please type or print)

Monthly Operation Report for Public Water Systems that Use Ground Water
and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(3)

System PWS Identification Number: 3591121
Treatment Plant Name: Wekiva Hunt Club

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF AUGUST 1996

• Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine);
 chlorine dioxide

Day of the Month	Hours Plant in Operation	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)†	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)†	
1	24 0.00	6,328,000	1.1	0.6			
2	24 0.00	7,192,000	0.7	0.4			
3	24 0.53	6,420,000	0.8	0.5			
4	24 0.07	6,252,000	1.9	0.8			
5	24 0.07	6,005,000	0.9	0.7			
6	24 0.00	6,295,000	1.3	0.6	26	0.5	
7	24 0.47	6,001,000	0.7	0.5			
8	24 0.12	5,629,000	1.3	1.0			
9	24 0.00	6,079,000	0.8	0.7			
10	24 0.56	4,455,000	0.9	1.1			
11	24 0.35	3,689,000	1.1	0.6			
12	24 0.75	4,636,000	0.8	0.5			
13	24 0.05	4,756,000	2.1	0.6			
14	24 R.	4,903,000	1.1	0.5			
15	24 0.00	4,986,000	1.2	0.6			
16	24 0.31	5,334,000	1.2	0.5			
17	24 0.00	5,398,000	1.1	0.6			
18	24 0.00	5,975,000	1.0	0.5			
19	24 0.00	6,042,000	0.5	0.5			
20	24 0.02	5,337,000	1.1	0.5			
21	24 0.00	5,544,000	2.3	0.5			
22	24 0.00	6,122,000	0.7	0.5			
23	24 0.00	6,838,000	1.1	0.5			
24	24 0.01	6,519,000	1.2	0.3			
25	24 0.01	7,535,000	1.0	0.4			
26	24 0.12	6,368,000	1.1	0.5			
27	24 0.45	6,024,000	1.2	0.7			
28	24 0.00	5,861,000	1.0	0.5			
29	24 0.01	5,984,000	0.8	0.5			
30	24 0.24	5,632,000	0.8	0.5			
31	24 0.05	5,672,000	0.7	0.3			
Total	244 4.24	180,311,000	XXXXXXXXXXXXXX	XXXXXXXXXX	26	XXXXXXXXXXXXXX	XXXXXXXXXX
Avg.	24 0.28	5,816,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX
Max.	24 0.75	7,535,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

† If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Des Pinar WTP PWS Identification No.: 3591121
System Owner: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
Address: P.O.Box 3884
City: Longwood State: FL Zip Code: 32791
System Type: [X] community; [] non-transient non-community; [] non-community; [] consecutive
No. of Service Connections at End of Reporting Month: 1361 Total Population Served at End of Reporting Month: 4083

Water Treatment Plant Information

Treatment Plant Name: Des Pinar WTP Telephone No.: (407) 260-5065
Address: 125 Western Fork
City: Longwood State: FL Zip Code: 32750
Permitted Maximum Day Capacity of Plant: 5,364,000 gpd Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV "C"
Plant Operators: See Page 3.

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF AUGUST 96 : See Page 2.

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTRANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Don Hat 9-10-96
Signature and Date

Don HASTY B-6625
Name and Certificate Number (please type or print)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(3)

System PWS Identification Number: 3591121

Treatment Plant Name: Des Pinar WTP

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF AUGUST 96

- Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine); chlorine dioxide

Day of the Month	Hours Plant in Operation Rain	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)*	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)*	
1	24	3,625,000	1.6	0.7			
2	24	4,536,000	0.5	0.6			
3	0.52	4,837,000	0.4	0.5			
4	24 0.13	4,426,000	0.9	0.6			
5	24 0.50	4,882,000	0.4	0.5			
6	24	3,767,000	1.3	0.9			
7	24 0.45	3,224,000	0.5	0.7			
8	24	3,068,000	1.3	0.8			
9	24	4,070,000	1.5	0.8			
10	24 0.08	3,580,000	1.8	0.6			
11	24 0.47	3,182,000	0.9	0.5			
12	24 0.72	2,515,000	1.3	0.8			
13	24 0.62	2,899,000	1.0	0.7	10	0.6	
14	24	2,821,000	1.5	0.8			
15	24	3,115,000	1.2	0.7			
16	0.31	3,304,000	1.3	0.5			
17	24	3,229,000	0.9	0.3			
18	24	3,348,000	0.8	0.9			
19	24	3,387,000	1.3	0.8			
20	24 0.32	3,085,000	1.3	0.8			
21	24	3,157,000	1.4	0.9			
22	24	3,671,000	1.3	0.3			
23	24	4,450,000	1.3	1.0			
24	24 0.36	3,832,000	1.4	0.6			
25	24	3,507,000	0.9	0.4			
26	24 0.85	3,029,000	1.0	0.6			
27	24	2,875,000	1.5	0.7			
28	24	3,075,000	1.0	1.0			
29	24	3,161,000	1.0	0.7			
30	24 0.36	2,849,000	1.2	0.7			
31	24 0.63	2,738,000	1.4	0.5			
Total	5.12"	98,422,000	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX	10	XXXXXXXXXXXX	XXXXXXXXXX
Avg.	0.17"	3,175,000	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXX
Max.	0.85"	4,882,000	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

* If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Knollwood WTP PWS Identification No.: 3591121
System Owner: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
Address: P.O.Box 3884
City: Longwood State: FL Zip Code: 32791
System Type: community
No. of Service Connections at End of Reporting Month: 264 Total Population Served at End of Reporting Month: 792

Water Treatment Plant Information

Treatment Plant Name: Knollwood WTP Telephone No.: (407) 830-5070
Address: 100 South Pressview Drive
City: Longwood State: FL Zip Code: 32750
Permitted Maximum Day Capacity of Plant: 576,000 gpd Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. I, "C"
Plant Operators: See Page 3.

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF AUGUST 96 : See Page 2.

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Don Hasty 9-10-96
Signature and Date

DON HASTY B-6625
Name and Certificate Number (please type or print)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(J)

System PWS Identification Number: 3591121

Treatment Plant Name: Knollwood WTP

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF AUGUST 96

- Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine); chlorine dioxide

Day of the Month	Hours Plant in Operation	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)*	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)*	
1	24	122,000	0.9	1.0			
2	24	172,000	1.0	0.9			
3	24	28,000	1.1	0.3			
4	24	113,000	0.8	0.5			
5	24	85,000	0.9	0.5			
6	24	103,000	0.7	0.5			
7	24	52,000	0.8	0.8			
8	24	70,000	0.5	0.9			
9	24	92,000	0.4	0.6			
10	24	52,000	0.9	0.8			
11	24	75,000	0.8	0.4			
12	24	5,000	0.4	0.8			
13	24	73,000	0.5	0.6			
14	24	79,000	0.6	0.5	4	0.4	
15	24	71,000	0.3	0.4			
16	24	24,000	0.4	0.5			
17	24	24,000	0.5	0.3			
18	24	94,000	0.6	0.4			
19	24	82,000	0.8	0.8			
20	24	56,000	0.4	0.7			
21	24	99,000	0.6	0.5			
22	24	118,000	0.5	0.7			
23	24	89,000	0.5	0.3			
24	24	56,000	0.8	0.2			
25	24	103,000	0.6	0.4			
26	24	19,000	1.3	1.0			
27	24	56,000	0.8	0.5			
28	24	75,000	1.0	0.7			
29	24	80,000	0.7	0.5			
30	24	38,000	0.5	0.3			
31	24	38,000	0.6	0.2			
Total	XXXXXX	2,113,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	4	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Avg.	XXXXXX	68,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Max.	XXXXXX	122,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

* If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Wekiva Hunt Club WTP PWS Identification No.: 3591121
System Owner Name: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
Address: P.O.Box 3884
City: Longwood State: FL Zip Code: 32791
System Type: [X] community; [] non-transient non-community; [] non-community; [] consecutive
No. of Service Connections at End of Reporting Month: 7646; Total Population Served at End of Reporting Month: 22,938

Water Treatment Plant Information

Treatment Plant Name: Wekiva Hunt Club WTP Telephone No.: (407) 682-5651
Address: 144 Ledbury Drive
City: Longwood State: FL Zip Code: 32779
Permitted Maximum Day Capacity of Plant: 8,928,000 gpd; Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV "B"
Plant Operators: See Page 3.

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF JULY 1996 : See Page 2.

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTRANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Ronald E. Evans 8/5/96
Signature and Date

RONALD E. EVANS COB-382
Name and Certificate Number (please type or print)

Monthly Operation Report for Public Water Systems that Use Ground Water
and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.350(3)

System PWS Identification Number: 3591121

Treatment Plant Name: Wekiva Hunt Club

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF JULY 1996

- Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine); chlorine dioxide

Day of the Month	Hours Plant in Operation	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)*	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)*	
1	24 0.00	6,322,000	1.3	0.6			
2	24 0.00	7,017,000	2.1	0.6			
3	24 0.00	6,792,000	1.3	0.6			
4	24 0.24	5,736,000	0.4	0.5			
5	24 0.85	5,183,000	1.3	0.5			
6	24 0.80	4,833,000	1.3	0.5			
7	24 0.00	5,171,000	1.4	0.6			
8	24 0.00	5,160,000	1.8	0.7			
9	24 0.22	5,073,000	0.8	0.4	26	0.2	
10	24 0.00	5,082,000	1.2	0.7			
11	24 0.04	5,557,000	0.7	0.5			
12	24 0.20	5,482,000	1.0	0.7			
13	24 0.20	5,155,000	1.1	0.5			
14	24 0.00	5,984,000	1.1	0.5			
15	24 0.16	5,624,000	1.4	0.5			
16	24 0.17	5,521,000	1.6	0.4			
17	24 0.00	5,933,000	1.4	0.7			
18	24 0.00	6,826,000	1.5	0.7			
19	24 0.00	6,917,000	1.1	0.7			
20	24 0.00	7,379,000	0.4	0.4			
21	24 0.00	8,344,000	1.8	0.6			
22	24 0.00	7,808,000	1.4	0.7			
23	24 0.00	5,603,000	1.5	0.7			
24	24 0.17	7,159,000	1.4	0.5			
25	24 0.00	7,775,000	1.0	0.7			
26	24 0.00	7,994,000	1.5	0.5			
27	24 0.00	8,778,000	1.8	0.7			
28	24 0.00	9,457,000	1.9	0.8			
29	24 0.00	8,607,000	1.6	0.8			
30	24 0.00	8,702,000	1.4	0.5			
31	24 0.83	6,453,000	1.1	0.4			
Total	744 4.63	205,842,000	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX	26	XXXXXXXXXXXX	XXXXXXXXXXXX
Avg.	24 0.13	6,640,000	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
Max.	24 0.83	9,457,000	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

* If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910.3

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Des Pinar WTP PWS Identification No.: 3591121
System Owner: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
Address: P.O. Box 3884
City: Longwood State: FL Zip Code: 32791
System Type: [X] community; [] non-transient non-community; [] non-community; [] consecutive
No. of Service Connections at End of Reporting Month: 1561 Total Population Served at End of Reporting Month: 4,683

Water Treatment Plant Information

Treatment Plant: Des Pinar WTP Telephone No.: (407) 260-5065
Address: 125 Western Fork
City: Longwood State: FL Zip Code: 32750
Permitted Maximum Day Capacity of Plant: 5,364,000 gpd Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV "C"
Plant Operators: See Page 3.

- II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF JULY /96 : See Page 2.
III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTRANT: See Page 4.
IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electro dialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Signature and Date

MIKE M. GUNTER. A-4532
Name and Certificate Number (please type or print)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910-3

System PWS Identification Number: 3591121

Treatment Plant Name: Des Pinar WTP

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF JULY/96

Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine); chlorine dioxide

Day of the Month	Hours Plant in Operation Rain	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)*	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)*	
1	24	2,324,000	1.3	0.7			
2	24	3,447,000	1.2	0.8			
3	24	3,026,000	1.2	0.7			
4	24	2,667,000	1.3	0.8			
5	24 0.76"	2,454,000	1.8	0.2			
6	24 0.3"	1,799,000	1.2	0.7			
7	24 0.5"	1,664,000	1.4	0.7			
8	24	2,303,000	1.4	0.8			
9	24 0.30"	2,017,000	1.4	0.6			
10	24	2,111,000	1.3	0.6			
11	24 0.02"	2,575,000	1.1	0.7			
12	24 0.30"	2,848,000	1.3	0.8			
13	24 0.30"	2,168,000	1.3	0.4			
14	24	2,434,000	1.2	0.6			
15	24 0.80"	2,206,000	1.5	0.8			
16	24	2,235,000	1.1	0.7	10	0.4	
17	24	2,850,000	1.4	0.8			
18	24	3,168,000	1.7	0.9			
19	24	3,885,000	1.2	0.7			
20	24	4,144,000	1.2	0.6			
21	24	4,006,000	0.8	0.6			
22	24	4,549,000	1.0	0.7			
23	24	4,382,000	0.5	0.7			
24	24	3,934,000	0.5	0.7			
25	24	4,066,000	0.4	0.4			
26	24	5,255,000	0.5	0.8			
27	24	5,162,000	0.4	0.4			
28	24	5,187,000	0.4	0.3			
29	24	5,054,000	0.3	0.3			
30	24	5,290,000	0.4	0.4			
31	24 0.62"	3,642,000	0.4	0.4			
Total	4.30"	102,891,000	XXXXXXXXXXXX	XXXXXXXXXX	10	XXXXXXXXXXXX	XXXXXXXXXX
Avg.	0.14"	3,319,000	XXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXX
Max.	0.80"	5,290,000	XXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

* If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

● System Name: Knollwood WTP PWS Identification No.: 3591121
 ● System Owner
 Name: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
 Address: P.O. Box 3884
 City: Longwood State: FL. Zip Code: 32791
 ● System Type: community; non-transient non-community; non-community; consecutive
 ● No. of Service Connections at End of Reporting Month: 264; ● Total Population Served at End of Reporting Month: 792

Water Treatment Plant Information

● Treatment Plant
 Name: Knollwood WTP Telephone No.: (407) 830-5070
 Address: 100 South Pressview Drive
 City: Longwood State: FL. Zip Code: 32750
 ● Permitted Maximum Day Capacity of Plant: 576,000 gpd; ● Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV "C"
 ● Plant Operators: See Page 3.

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF JULY/96 : See Page 2.

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTRANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
- process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
- process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
- process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
- process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
- process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
- process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
- process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Mike M. Gunter
Signature and Date

MIKE M. GUNTER A-4532
Name and Certificate Number (please type or print)

Monthly Operation Report for Public Water Systems that Use Ground Water
and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.3 (12)

System PWS Identification Number: 3591121

Treatment Plant Name: Knollwood WTP

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF JULY/96

• Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine);
 chlorine dioxide

Day of the Month	Hours Plant in Operation	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)†	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)†	
1	0	0	1.0	0.8			
2	3.4	101,000	0.3	0.7			
3	0.9	28,000	0.4	0.5			
4	0.5	28,000	0.2	0.4			
5	0.6	9,000	1.3	0.8			
6	0	0	0.5	0.4			
7	0.2	14,000	0.4	0.4			
8	1.2	35,000	0.7	0.7			
9	1.1	47,000	0.4	0.5			
10	0.4	14,000	0.4	0.5			
11	0.5	9,000	0.5	0.6			
12	1.0	33,000	0.8	0.7			
13	0.2	0	0.6	0.5			
14	0.4	0	0.2	0.5			
15	0	0	0.4	0.8			
16	0.7	27,000	0.5	0.5	4	0.2	
17	0.3	0	0.9	0.5			
18	1.4	52,000	0.6	0.7			
19	0.8	33,000	1.3	0.4			
20	1.2	52,000	0.5	0.4			
21	3.8	113,000	0.6	0.5			
22	5.2	124,000	0.8	0.4			
23	4.4	207,000	0.3	0.5			
24	2.4	75,000	0.4	0.7			
25	6.4	174,000	0.8	0.6			
26	4.1	165,000	0.3	0.9			
27	4.1	188,000	0.2	0.4			
28	5.5	261,000	0.6	0.5			
29	4.8	202,000	0.6	0.7			
30	5.4	249,000	0.5	0.5			
31	2.0	53,000	0.6	0.6			
Total	XXXXXX	2,285,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	4	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Avg.	XXXXXX	74,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Max.	XXXXXX	261,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

† If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.310(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER-SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Wekiva Hunt Club WTP PWS Identification No.: 3591121
System Owner: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
Address: P.O.Box 3884
City: Longwood State: FL Zip Code: 32791
System Type: [X] community; [] non-transient non-community; [] non-community; [] consecutive
No. of Service Connections at End of Reporting Month: 7646; Total Population Served at End of Reporting Month: 22,938

Water Treatment Plant Information

Treatment Plant Name: Wekiva Hunt Club WTP Telephone No.: (407) 682-5651
Address: 144 Ledbury Drive
City: Longwood State: FL Zip Code: 32779
Permitted Maximum Day Capacity of Plant: 8,928,000 gpd; Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV "B"
Plant Operators: See Page 3.

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF JUNE 1996 : See Page 2.

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure; temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Signature and Date: Ronald E. Evans 7-2-96

RONALD E. EVANS COB-382 Name and Certificate Number (please type or print)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(3)

System PWS Identification Number: 3591121

Treatment Plant Name: Wekiva Hunt Club

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF JUNE 1996

- Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine);
- chlorine dioxide

Day of the Month	Hours Plant in Operation	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Ramote Point (mg/L)†	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)†	
1	24 0.00	5,611,000	1.4	0.5			
2	24 0.04	5,903,000	1.3	0.2			
3	24 0.00	6,155,000	1.4	0.4			
4	24 0.00	5,074,000	1.2	0.6			
5	24 0.00	8,278,000	1.3	0.3			
6	24 0.00	7,553,000	1.0	0.5			
7	24 0.00	7,359,000	1.2	0.5			
8	24 0.04	7,140,000	1.3	0.3			
9	24 0.06	6,752,000	0.5	0.6			
10	24 0.09	5,743,000	0.8	0.3			
11	24 0.66	5,554,000	0.9	0.4			
12	24 0.00	5,365,000	1.3	0.5		0.2	
13	24 0.00	6,475,000	1.8	0.9			
14	24 0.12	5,874,000	1.2	0.8			
15	24 0.01	5,772,000	1.2	0.8			
16	24 0.04	6,092,000	1.3	0.4			
17	24 0.30	5,344,000	0.9	0.5			
18	24 0.55	5,520,000	1.2	0.5			
19	24 0.06	5,008,000	0.9	0.5			
20	24 0.02	5,140,000	1.0	0.8			
21	24 0.32	5,083,000	1.3	0.8			
22	24 0.67	5,019,000	1.4	0.2			
23	24 0.00	5,503,000	1.2	0.2			
24	24 0.04	5,442,000	1.3	1.1			
25	24 0.00	5,444,000	1.4	0.2			
26	24 0.06	5,782,000	1.5	0.7			
27	24 0.72	4,968,000	1.4	0.6			
28	24 0.42	4,664,000	1.4	0.5			
29	24 0.06	4,812,000	1.6	0.2			
30	24 0.00	5,811,000	1.2	0.2			
31							
Total	720 4.48	175,240,000	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX		XXXXXXXXXXXX	XXXXXXXXXX
Avg.	24 0.24	5,841,000	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXX
Max.	24 0.72	9,278,000	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

† If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Des Pinar WTP PWS Identification No.: 3591121
System Owner: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
Name: P.O. Box 3884
Address: Longwood State: FL Zip Code: 32791
City:
System Type: [X] community; [] non-transient non-community; [] non-community; [] consecutive
No. of Service Connections at End of Reporting Month: 1560 Total Population Served at End of Reporting Month: 4680

Water Treatment Plant Information

Treatment Plant Name: Des Pinar WTP Telephone No.: (407) 260-5065
Address: 125 Western Fork
City: Longwood State: FL Zip Code: 32750
Permitted Maximum Day Capacity of Plant: 5,364,000 gpd Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV "C"
Plant Operators: See Page 3.

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF JUNE/96 : See Page 2.

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTRANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Signature and Date: Mike M. Gunter 07-03-96

MIKE M. GUNTER. A-4532 Name and Certificate Number (please type or print)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(3)

System PWS Identification Number: 3591121

Treatment Plant Name: Des Pinar WTP

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF JUNE/96

- Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine); chlorine dioxide

Day of the Month	Hours Plant in Operation Rain	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)†	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)†	
1	24	2,866,000	0.4	1.1			
2	24	2,974,000	1.4	1.2			
3	24	3,354,000	1.3	0.7			
4	24	3,611,000	0.9	0.7			
5	24	4,190,000	0.4	0.5			
6	24	4,374,000	1.0	0.6			
7	24	3,730,000	1.0	0.5			
8	24 0.07	3,948,000	0.7	0.2			
9	24 0.07	3,166,000	0.9	0.9			
10	24 0.40	2,982,000	0.8	0.5			
11	24 0.30	2,560,000	1.6	0.8			
12	24	2,459,000	1.7	0.9			
13	24	3,115,000	1.3	1.0			
14	24 0.07	3,789,000	1.2	0.8			
15	24 1.05	2,831,000	0.8	0.5			
16	24	2,413,000	1.0	0.9			
17	24 0.07	2,341,000	1.2	0.7			
18	24 0.90	2,708,000	1.2	0.8	10	0.5	
19	24 0.07	2,015,000	1.1	0.6			
20	24	2,258,000	1.1	0.6			
21	24 0.30	2,404,000	0.9	0.6			
22	24 1.04	1,999,000	1.0	0.6			
23	24	2,310,000	0.8	0.8			
24	24 1.38	2,069,000	1.0	0.6			
25	24 0.07	1,867,000	0.9	0.8			
26	24 0.04	2,238,000	1.1	0.7			
27	24 1.05	1,818,000	1.0	0.6			
28	24 0.53	1,888,000	1.1	0.8			
29	24 0.04	1,811,000	1.1	0.8			
30	24	2,435,000	1.1	0.6			
31							
Total	7.74"	82,494,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	10	XXXXXXXXXXXXXX	XXXXXXXXXX
Avg.	0.26"	2,750,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX
Max.	1.38"	4,374,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

† If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Knollwood WTP PWS Identification No.: 3591121
System Owner: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
Address: P.O.Box 3884
City: Longwood State: FL Zip Code: 32791
System Type: [X] community; [] non-transient non-community; [] non-community; [] consecutive
No. of Service Connections at End of Reporting Month: 264 Total Population Served at End of Reporting Month: 792

Water Treatment Plant Information

Treatment Plant: Knollwood WTP Telephone No.: (407) 830-5070
Address: 100 South Pressview Drive
City: Longwood State: FL Zip Code: 32750
Permitted Maximum Day Capacity of Plant: 576,000 gpd Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV "C"
Plant Operators: See Page 3.

- II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF JUNE/96 : See Page 2.
III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTRANT: See Page 4.
IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Signature and Date: [Signature] 07-03-96

MIKE M. GUNTER, A-4532
Name and Certificate Number (please type or print)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(3)

System PWS Identification Number: 3591121

Treatment Plant Name: Knollwood WTP

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF JUNE/96

• Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine); chlorine dioxide

Day of the Month	Hours Plant in Operation	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)*	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)†	
1	1.0	38,000	0.4	1.0			
2	2.7	80,000	1.4	0.6			
3	2.6	80,000	0.3	0.7			
4	5.0	132,000	1.0	0.6			
5	4.9	151,000	0.5	0.4			
6	7.4	202,000	1.0	0.5			
7	3.0	132,000	0.5	0.9			
8	2.5	75,000	0.3	0.2			
9	3.0	94,000	0.2	0.3			
10	1.5	40,000	0.4	0.6			
11	0.2	14,000	0.3	0.7			
12	0.2	0	0.6	0.7			
13	2.2	75,000	0.2	0.7			
14	2.2	61,000	0.2	0.6			
15	0.2	9,000	0.2	0.2			
16	1.1	35,000	0.2	0.2			
17	0.5	14,000	1.0	0.6			
18	0.1	9,000	0.2	0.6	4	0.5	
19	1.4	33,000	0.3	0.4			
20	0.3	19,000	0.5	0.5			
21	1.0	19,000	0.4	0.5			
22	0.1	5,000	1.4	0.3			
23	0.8	25,000	0.4	0.3			
24	0	0	0.9	0.8			
25	0.6	24,000	0.6	0.7			
26	1.7	38,000	0.9	0.5			
27	0.1	4,000	1.0	0.8			
28	0	0	0.5	0.4			
29	0	0	0.2	0.6			
30	1.1	38,000	0.2	0.3			
31							
Total	XXXXXX	1,446,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	4	XXXXXXXXXXXXXX	XXXXXXXXXX
Avg.	XXXXXX	48,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX
Max.	XXXXXX	202,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

† If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.310(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER-SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Wekiva Hunt Club WTP PWS Identification No.: 3591121
System Owner: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
Address: P.O.Box 3884
City: Longwood State: FL Zip Code: 32791
System Type: [X] community; [] non-transient non-community; [] non-community; [] consecutive
No. of Service Connections at End of Reporting Month: 7644; Total Population Served at End of Reporting Month: 22,932

Water Treatment Plant Information

Treatment Plant Name: Wekiva Hunt Club WTP Telephone No.: (407) 682-5651
Address: 144 Ledbury Drive
City: Longwood State: FL Zip Code: 32779
Permitted Maximum Day Capacity of Plant: 8,928,000 gpd; Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV "B"
Plant Operators: See Page 3.

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF MAY, 1996 : See Page 2.

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amperes).

Signature and Date (Handwritten signature)

Ronald E. Evans C.O."B"0382
Name and Certificate Number (please type or print)

Monthly Operation Report for Public Water Systems that Use Ground Water
and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(3)

System PWS Identification Number: 3591121

Treatment Plant Name: Wekiva Hunt Club

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF MAY, 1996

- Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine); chlorine dioxide

Day of the Month	Hours Plant in Operation	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)†	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)‡	
1	24 0.00	5,710,000	0.8	0.5			
2	24 0.00	5,825,000	1.5	3.5			
3	24 0.00	7,267,000	1.3	0.7			
4	24 0.00	6,898,000	0.9	0.4			
5	24 0.00	8,006,000	0.9	0.6			
6	24 0.00	7,282,000	1.0	1.5			
7	24 0.00	7,460,000	0.7	0.3			
8	24 0.00	7,449,000	0.9	0.3			
9	24 0.00	7,364,000	1.2	0.5			
10	24 0.00	7,559,000	1.6	0.4			
11	24 0.00	7,919,000	1.1	0.6			
12	24 0.04	7,734,000	1.2	1.2			
13	24 0.00	7,052,000	1.1	0.4			
14	24 0.00	7,229,000	1.1	0.5	26	0.3	
15	24 0.00	7,513,000	0.8	0.5			
16	24 0.00	7,687,000	1.4	0.6			
17	24 0.00	7,793,000	1.2	0.3			
18	24 0.00	8,348,000	1.2	0.4			
19	24 0.00	8,927,000	1.3	0.5			
20	24 0.00	7,366,000	1.0	0.4			
21	24 0.25	5,470,000	1.0	0.2			
22	24 0.06	5,994,000	1.2	0.4			
23	24 0.00	7,211,000	1.0	0.7			
24	24 0.00	7,564,000	0.6	0.5			
25	24 0.55	6,586,000	0.6	0.4			
26	24 0.02	6,263,000	1.3	0.5			
27	24 0.00	7,124,000	1.1	0.6			
28	24 0.52	5,869,000	0.7	0.4			
29	24 0.02	5,108,000	1.4	0.3			
30	24 0.05	5,100,000	1.4	0.6			
31	24 0	5,090,000	1.3	0.8			
Total	744	215,767,000	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX	26	XXXXXXXXXXXX	XXXXXXXXXX
Avg.	24	6,960,000	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXX
Max.	24	8,927,000	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXX

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* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

† If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Des Pinar WTP PWS Identification No.: 3591121
System Owner: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
Address: P.O. Box 3884
City: Longwood State: FL Zip Code: 32791
System Type: X community; non-transient non-community; non-community; consecutive
No. of Service Connections at End of Reporting Month: 1559; Total Population Served at End of Reporting Month: 4677

Water Treatment Plant Information

Treatment Plant Name: Des Pinar WTP Telephone No.: (407) 260-5065
Address: 125 Western Fork
City: Longwood State: FL Zip Code: 32750
Permitted Maximum Day Capacity of Plant: 5,364,000 gpd; Plant Category and Class per Rule-62-699.310(3), F.A.C.: Cat. IV "C"
Plant Operators: See Page 3.

- II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF MAY/96 : See Page 2.
III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTANT: See Page 4.
IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Signature and Date: Mike M. Gunter 06-10-96

MIKE M. GUNTER. A-4532 Name and Certificate Number (please type or print)

Monthly Operation Report for Public Water Systems that Use Ground Water
and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(3)

System PWS Identification Number: 3591121

Treatment Plant Name: Des Pinar WTP

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF MAY/96

- Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine); chlorine dioxide

Day of the Month	Hours Plant in Operation Rain	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)†	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)†	
1	1.8" 24	3 041,000	1.3	0.9			
2	24	3 355,000	0.9	0.5			
3	24	4 316,000	1.0	0.5			
4	24	4 203,000	0.8	0.6			
5	24	4 330,000	0.7	0.4			
6	24	4 080,000	0.4	0.2			
7	24	4 308,000	0.4	0.2			
8	24	4 252,000	0.4	0.2			
9	24	4 044,000	0.3	0.2			
10	24	4 554,000	0.4	0.2			
11	24	4 559,000	0.9	0.5			
12	24	4 130,000	0.7	0.3			
13	24	4 527,000	0.4	0.3			
14	24	4 152,000	0.5	0.5			
15	24	4 541,000	0.4	0.3			
16	24	4 618,000	0.3	0.4			
17	24	5 636,000	0.3	0.3			
18	24	4 925,000	0.4	0.2			
19	24	4 576,000	0.4	0.3			
20	24	4 697,000	0.5	0.3			
21	0.23" 24	2 932,000	0.5	0.3			
22	24	3 478,000	0.9	0.4			
23	24	4 303,000	0.3	0.3			
24	24	5 271,000	0.3	0.7			
25	0.30" 24	3 327,000	0.3	0.6			
26	24	3 176,000	1.3	0.9			
27	24	4 488,000	0.5	0.5			
28	0.75" 24	2 898,000	0.7	0.9	10	0.2	
29	0.75" 24	2 445,000	1.2	0.7			
30	1.00" 24	2 592,000	1.4	0.7			
31	0.55" 24	2 691,000	1.0	0.6			
Total	6.04"	124 605,000	XXXXXXXXXXXX	XXXXXXXXXXXX	10	XXXXXXXXXXXX	XXXXXXXXXX
Avg.	0.19"	4 020,000	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXX
Max.	1.00"	5 636,000	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

† If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Knollwood WTP PWS Identification No.: 3591121
System Owner: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
Address: P.O. Box 3884
City: Longwood State: FL Zip Code: 32791
System Type: X community; non-transient non-community; non-community; consecutive
No. of Service Connections at End of Reporting Month: 264; Total Population Served at End of Reporting Month: 792

Water Treatment Plant Information

Treatment Plant Name: Knollwood WTP Telephone No.: (407) 830-5070
Address: 100 South Pressview Drive
City: Longwood State: FL Zip Code: 32750
Permitted Maximum Day Capacity of Plant: 576,000 gpd; Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV "C"
Plant Operators: See Page 3.

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF MAY/96 : See Page 2.

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Signature and Date: [Signature] 06-10-96

MIKE M. GUNTER. A-4532
Name and Certificate Number (please type or print)

Monthly Operation Report for Public Water Systems that Use Ground Water
and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(3)

System PWS Identification Number: 3591121

Treatment Plant Name: Knollwood WTP

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF MAY/96

- Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine); chlorine dioxide

Day of the Month	Hours Plant in Operation	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)†	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)†	
1	4.4	75,000	0.2	0.4			
2	4.4	94,000	0.4	0.5			
3	4.2	118,000	0.4	0.5			
4	2.4	66,000	0.7	0.4			
5	3.3	146,000	0.5	0.4			
6	5.0	132,000	0.2	0.5			
7	6.3	179,000	0.9	0.6			
8	5.7	165,000	0.9	0.5			
9	5.5	160,000	0.4	0.5			
10	4.3	202,000	0.9	0.6			
11	3.4	103,000	1.1	0.7			
12	3.6	99,000	0.8	0.6			
13	5.5	151,000	0.9	0.3			
14	5.5	169,000	1.3	0.6			
15	6.6	197,000	0.7	0.4			
16	4.4	174,000	0.9	0.5			
17	4.9	216,000	0.7	0.4			
18	4.0	122,000	0.4	0.5			
19	8.0	284,000	0.4	0.5			
20	3.2	115,000	0.3	0.3			
21	2.2	75,000	0.4	0.4			
22	2.7	131,000	0.6	0.6			
23	5.0	226,000	0.4	0.2			
24	6.7	174,000	0.3	0.4			
25	2.5	85,000	0.4	0.5			
26	3.5	89,000	0.9	0.6			
27	3.1	115,000	0.3	0.5			
28	1.2	35,000	0.4	0.4	4	0.3	
29	0.9	33,000	0.7	0.7			
30	0.9	19,000	0.7	0.6			
31	1.0	19,000	0.5	0.5			
Total	XXXXXX	3,974,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	4	XXXXXXXXXXXXXX	XXXXXXXXXX
Avg.	XXXXXX	128,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX
Max.	XXXXXX	284,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

† If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Wekiva Hunt Club WTP PWS Identification No.: 3591121
System Owner: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
Address: P.O.Box 3884
City: Longwood State: FL Zip Code: 32791
System Type: [x] community; [] non-transient non-community; [] non-community; [] consecutive
No. of Service Connections at End of Reporting Month: 7,142; Total Population Served at End of Reporting Month: 23,226

Water Treatment Plant Information

Treatment Plant: Wekiva Hunt Club WTP Telephone No.: (407) 682-5651
Address: 144 Ledbury Drive
City: Longwood State: FL Zip Code: 32779
Permitted Maximum Day Capacity of Plant: 8,928,000 gpd; Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV "B"
Plant Operators: See Page 3.

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF APRIL 1996 : See Page 2.

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Ronald E. Evans 5-3-96
Signature and Date

RONALD E. EVANS COB-382
Name and Certificate Number (please type or print)

Monthly Operation Report for Public Water Systems that Use Ground Water
and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(3)

System PWS Identification Number: 3591121
Treatment Plant Name: Wekiva Hunt Club

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF APRIL 1996

• Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine);
 chlorine dioxide

Day of the Month	Hours Plant in Operation	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)†	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)†	
1	24 0.00	4,595,000	0.6	0.3			
2	24 0.00	4,790,000	1.2	0.8			
3	24 0.00	4,977,000	1.5	0.5			
4	24 0.00	5,477,000	1.0	0.7			
5	24 0.00	5,979,000	0.7	0.5			
6	24 0.01	5,078,000	1.0	0.4			
7	24 0.00	6,110,000	0.9	0.6			
8	24 0.01	5,498,000	1.0	0.4			
9	24 0.00	6,014,000	1.3	0.4	26	0.2	
10	24 0.00	6,121,000	1.4	0.7			
11	24 0.00	6,478,000	1.0	0.7			
12	24 0.00	6,413,000	1.2	0.5			
13	24 0.00	6,899,000	1.2	0.6			
14	24 0.00	7,784,000	1.8	1.2			
15	24 0.27	5,540,000	1.0	0.4			
16	24 0.00	5,411,000	0.7	0.4			
17	24 0.00	6,116,000	1.2	0.4			
18	24 0.00	6,260,000	1.0	0.3			
19	24 0.00	6,719,000	1.2	0.4			
20	24 0.00	7,364,000	0.9	0.5			
21	24 0.00	7,840,000	1.1	0.6			
22	24 0.00	7,229,000	1.2	0.4			
23	24 0.00	7,227,000	1.3	0.5			
24	24 0.00	6,675,000	0.8	0.2			
25	24 0.00	7,122,000	0.7	0.4			
26	24 0.00	7,270,000	1.2	0.8			
27	24 0.00	7,867,000	1.0	0.7			
28	24 0.00	8,270,000	0.9	0.5			
29	24 0.00	7,202,000	1.0	0.7			
30	24 0.92	5,348,000	1.4	0.5			
31							
Total	720 2.21	191,723,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	26	XXXXXXXXXXXXXX	XXXXXXXXXX
Avg.	24 0.07	6,341,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX
Max.	24 0.92	8,270,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.
† If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Knollwood WTP PWS Identification No.: 3591121
System Owner: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
Address: P.O.Box 3884
City: Longwood State: FL Zip Code: 32791
System Type: [X] community; [] non-transient non-community; [] non-community; [] consecutive
No. of Service Connections at End of Reporting Month: 264; Total Population Served at End of Reporting Month: 792

Water Treatment Plant Information

Treatment Plant: Knollwood WTP Telephone No.: (407) 830-5070
Address: 100 South Pressview Drive
City: Longwood State: FL Zip Code: 32750
Permitted Maximum Day Capacity of Plant: 576,000 gpd; Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV
Plant Operators: See Page 3.

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF APRIL/1996 : See Page 2.

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Signature and Date: Mike M. Gunter 05-06-96

Name and Certificate Number (please type or print): MIKE M. GUNTER. COA-4532

Monthly Operation Report for Public Water Systems that Use Ground Water
and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(3)

System PWS Identification Number: 3591121

Treatment Plant Name: Knollwood WTP

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF APRIL/1996

Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine);
 chlorine dioxide

Day of the Month	Hours Plant in Operation	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)†	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)†	
1	1.8	33,000	0.4	0.6			
2	0	0	0.4	0.5			
3	5.0	127,000	0.2	0.6			
4	14.5	216,000	0.4	0.6			
5	12.2	268,000	0.4	0.3			
6	7.0	136,000	0.8	0.4			
7	4.9	127,000	0.6	0.5			
8	4.1	127,000	0.2	0.3			
9	6.1	174,000	0.5	0.4			
10	5.5	151,000	0.4	0.5			
11	6.2	193,000	0.5	0.5			
12	7.8	136,000	0.6	0.6			
13	7.2	183,000	0.7	0.5			
14	17.2	725,000	0.5	0.5			
15	3.1	71,000	0.4	0.5			
16	3.4	79,000	0.8	0.5	4	0.5	
17	3.8	94,000	0.5	0.5			
18	6.7	183,000	0.3	0.5			
19	5.7	174,000	0.4	0.5			
20	6.0	160,000	0.7	0.4			
21	10.5	249,000	0.7	0.5			
22	7.0	183,000	0.3	0.5			
23	7.0	193,000	0.4	0.5			
24	4.6	151,000	0.4	0.5			
25	7.2	198,000	0.4	0.5			
26	10.6	245,000	0.7	0.6			
27	8.0	193,000	0.7	0.5			
28	9.4	212,000	0.8	0.5			
29	8.7	212,000	0.4	0.5			
30	0	0	0.6	0.5			
31							
Total	XXXXXX	4,863,000	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX	4	XXXXXXXXXXXX	XXXXXXXXXX
Avg.	XXXXXX	160,000	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXX
Max.	XXXXXX	725,000	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

† If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Des Pinar WTP PWS Identification No.: 3591121
System Owner: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
Address: P.O.Box 3884
City: Longwood State: FL Zip Code: 32791
System Type: [X] community; [] non-transient non-community; [] non-community; [] consecutive
No. of Service Connections at End of Reporting Month: 1,456; Total Population Served at End of Reporting Month: 4,368

Water Treatment Plant Information

Treatment Plant Name: Des Pinar WTP Telephone No.: (407) 260-5065
Address: 125 Western Fork
City: Longwood State: FL Zip Code: 32750
Permitted Maximum Day Capacity of Plant: 5,364,000 gpd; Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV "C"
Plant Operators: See Page 3.

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF APRIL/1996 : See Page 2.

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Signature and Date: [Signature] 05-06-96

MIKE M. GUNTER COA-4532
Name and Certificate Number (please type or print)

Monthly Operation Report for Public Water Systems that Use Ground Water
and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(3)

System PWS Identification Number: 3591121
Treatment Plant Name: Des Pinar WTP

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF APRIL/1996

Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine);
 chlorine dioxide

Day of the Month	Hours Plant in Operation Rain	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)†	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)†	
1	24	1,554,000	1.0	0.6			
2	24	1,915,000	1.1	0.6			
3	24	2,269,000	0.7	0.6			
4	24	2,364,000	0.8	0.6			
5	24	3,003,000	0.8	0.6			
6	24	2,296,000	0.9	0.6			
7	24	2,882,000	0.7	0.5			
8	24	2,596,000	1.0	0.6			
9	24	3,040,000	1.0	0.5			
10	24	3,094,000	0.9	0.6			
11	24	3,140,000	0.9	0.5			
12	24	3,851,000	1.0	0.6			
13	24	3,569,000	0.8	0.4			
14	24	3,935,000	0.6	0.5			
15	24	2,686,000	0.5	0.5			
16	24	2,563,000	1.2	0.6	10	0.5	
17	24	3,148,000	1.2	0.6			
18	24	3,545,000	1.2	0.5			
19	24	3,699,000	1.0	0.6			
20	24	4,315,000	1.0	0.5			
21	24	4,500,000	1.0	0.7			
22	24	4,135,000	1.0	0.5			
23	24	4,164,000	0.5	0.5			
24	24	3,649,000	0.5	0.3			
25	24	4,159,000	0.8	0.5			
26	24	4,559,000	0.4	0.3			
27	24	4,735,000	0.7	0.4			
28	24	4,447,000	0.8	0.5			
29	24	4,124,000	0.3	0.2			
30	24	2,573,000	0.3	0.3			
31							
Total	2,21"	100,453,000	XXXXXXXXXXXX	XXXXXXXXXX	10	XXXXXXXXXXXX	XXXXXXXXXX
Avg.	0.07"	3,348,000	XXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXX
Max.	1.80"	4,735,000	XXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.
† If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Wekiva Hunt Club WTP PWS Identification No.: 3591121
System Owner: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
Address: P.O.Box 3884
City: Longwood State: FL Zip Code: 32791
System Type: community
No. of Service Connections at End of Reporting Month: 7641 Total Population Served at End of Reporting Month: 22,923

Water Treatment Plant Information

Treatment Plant: Wekiva Hunt Club WTP Telephone No.: (407) 682-5651
Address: 144 Ledbury Drive
City: Longwood State: FL Zip Code: 32779
Permitted Maximum Day Capacity of Plant: 8,928,000 gpd Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV "B"
Plant Operators: See Page 3.

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF MARCH 1996 : See Page 2.

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Signature and Date: Ronald E. Evans 4-3-96

RONALD E. EVANS COB-382 Name and Certificate Number (please type or print)

Monthly Operation Report for Public Water Systems that Use Ground Water
and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(3)

System PWS Identification Number: 3591121
Treatment Plant Name: Wekiva Hunt Club

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF MARCH 1996

- Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine); chlorine dioxide

Day of the Month	Hours Plant in Operation	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)†	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)†	
1	24 0.61	3,703,000	0.8	0.5			
2	24 0.09	3,253,000	1.0	0.3			
3	24 0.05	4,813,000	1.6	0.4			
4	24 0.00	5,296,000	0.8	0.4			
5	24 0.00	5,762,000	1.2	0.5	26	0.2	
6	24 0.00	5,849,000	0.8	0.5			
7	24 0.50	5,296,000	0.9	0.5			
8	24 0.00	5,084,000	1.0	0.5			
9	24 0.01	5,326,000	1.2	0.4			
10	24 1.70	5,151,000	1.3	0.2			
11	24 0.50	4,736,000	1.2	0.5			
12	24 0.00	4,894,000	1.0	0.5			
13	24 0.00	5,149,000	1.0	0.5			
14	24 0.00	5,519,000	0.9	0.4			
15	24 0.00	5,735,000	1.0	0.5			
16	24 0.00	6,407,000	1.3	0.6			
17	24 0.00	6,890,000	1.2	0.8			
18	24 1.70	5,242,000	1.2	0.5			
19	24 0.00	5,092,000	0.5	0.3			
20	24 0.00	5,054,000	0.8	0.2			
21	24 0.00	5,141,000	1.2	0.3			
22	24 0.00	5,624,000	0.8	0.3			
23	24 0.00	6,193,000	1.0	0.4			
24	24 0.00	7,385,000	1.1	0.5			
25	24 0.00	6,549,000	1.0	0.4			
26	24 0.00	6,719,000	1.1	0.4			
27	24 0.75	5,637,000	1.1	0.5			
28	24 1.30	4,855,000	1.3	0.5			
29	24 0.00	4,891,000	1.1	0.6			
30	24 0.95	4,418,000	1.3	0.5			
31	24 0.42	4,626,000	1.2	0.6			
Total	24 0.27	166,389,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	26	XXXXXXXXXXXXXX	XXXXXXXXXX
Avg.	24 0.40	5,367,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX
Max.	24 0.95	7,385,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

† If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

● System Name: Des Pinar WTP PWS Identification No.: 3591121
 ● System Owner
 Name: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
 Address: P.O. Box 3884
 City: Longwood State: FL. Zip Code: 32791
 ● System Type: community; non-transient non-community; non-community; consecutive
 ● No. of Service Connections at End of Reporting Month: 1556; ● Total Population Served at End of Reporting Month: 4668

Water Treatment Plant Information

● Treatment Plant
 Name: Des Pinar WTP Telephone No.: (407) 260-5065
 Address: 125 Western Fork
 City: Longwood State: FL. Zip Code: 32750
 ● Permitted Maximum Day Capacity of Plant: 5,364,000 gpd; ● Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV "C"
 ● Plant Operators: See Page 3.

- II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF MARCH/96 : See Page 2.
- III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTRANT: See Page 4.
- IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
- process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
- process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
- process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
- process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
- process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
- process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
- process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Mike M. Gunter
Signature and Date

MIKE M. GUNTER. COA-4532
Name and Certificate Number (please type or print)

Monthly Operation Report for Public Water Systems that Use Ground Water
and for Consecutive Public Water Systems that Treat Their Water

System PWS Identification Number: 3591121

Treatment Plant Name: Des Pinar WTP

Alternate/Substitute DEP Form 62-555.910(3)

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF MARCH /96

• Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine);
 chlorine dioxide

Day of the Month	Hours Plant in Operation	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)†	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)†	
1	24 0.14"	2,108,000	0.8	0.5			
2	24	1,806,000	1.7	0.4			
3	24	2,214,000	2.9	0.3			
4	24	2,574,000	1.4	0.8			
5	24	2,879,000	0.9	0.5			
6	24	2,854,000	1.1	0.6			
7	24 0.70"	2,535,000	0.9	0.6			
8	24	2,420,000	1.1	0.7			
9	24	2,622,000	1.3	0.7			
10	24 1.67"	1,744,000	1.4	0.4			
11	24 0.54"	1,639,000	1.0	0.6			
12	24	1,917,000	1.1	0.7			
13	24	2,025,000	0.9	0.7	10	0.5	
14	24	2,539,000	1.0	0.6			
15	24	3,107,000	0.8	0.7			
16	24	3,282,000	0.5	0.7			
17	24	3,374,000	1.0	0.4			
18	24 1.53"	2,246,000	1.0	0.5			
19	24	2,010,000	0.9	0.4			
20	24	2,201,000	0.9	0.5			
21	24	2,481,000	1.1	0.6			
22	24	2,820,000	1.0	0.7			
23	24	3,172,000	1.5	0.8			
24	24	3,409,000	0.9	0.9			
25	24	3,007,000	1.0	0.6			
26	24	3,336,000	1.0	0.7			
27	24 0.92"	2,624,000	1.1	0.6			
28	24 2.02"	1,862,000	0.9	0.6			
29	24	2,112,000	1.1	0.7			
30	24 5.00"	1,445,000	2.0	0.8			
31	24 0.10"	1,530,000	1.6	0.5			
Total	12.94"	76,045,000	XXXXXXXXXXXXXX	XXXXXXXXXX	10	XXXXXXXXXXXXXX	XXXXXXXXXX
Avg.	0.42"	2,453,000	XXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX
Max.	5.00	3,409,000	XXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

† If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Knollwood WTP PWS Identification No.: 3591121
System Owner: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
Address: P.O.Box 3884
City: Longwood State: FL Zip Code: 32791
System Type: community
No. of Service Connections at End of Reporting Month: 263 Total Population Served at End of Reporting Month: 789

Water Treatment Plant Information

Treatment Plant: Knollwood WTP Telephone No.: (407) 830-5070
Address: 100 South Pressview Drive
City: Longwood State: FL Zip Code: 32750
Permitted Maximum Day Capacity of Plant: 576,000 gpd Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV
Plant Operators: See Page 3.

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF MARCH/96 : See Page 2.

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator-staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Signature and Date

MIKE M. GUNTER, COA-4532
Name and Certificate Number (please type or print)

Monthly Operation Report for Public Water Systems that Use Ground Water
and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(3)

System PWS Identification Number: 3591121
Treatment Plant Name: Knollwood WTP

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF MARCH/96

• Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine);
 chlorine dioxide

Day of the Month	Hours Plant in Operation	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L) *	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L) †	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L) †	
1	0	0	0.5				
2	1.0	18,000	0.4	0.5			
3	2.0	61,000	0.7	0.4			
4	3.6	71,000	0.3	0.6			
5	4.5	141,000	0.5	0.5			
6	3.8	71,000	0.4	0.5			
7	0	0	0.8	0.4			
8	3.0	85,000	0.3	0.5			
9	3.1	75,000	0.6	0.6			
10	3.8	99,000	0.7	0.4			
11	0	2,000	0.7	0.5			
12	4.2	89,000	0.3	0.6			
13	3.0	96,000	0.2	0.4	4	0.4	
14	5.0	89,000	0.5	0.4			
15	6.8	113,000	0.5	0.5			
16	5.3	179,000	0.7	0.5			
17	14.4	151,000	0.6	0.4			
18	3.2	85,000	0.8	0.5			
19	2.7	85,000	0.6	0.6			
20	3.6	103,000	0.4	0.3			
21	5.7	153,000	0.4	0.4			
22	6.5	176,000	0.3	0.5			
23	6.9	136,000	0.8	0.6			
24	7.9	158,000	0.9	0.5			
25	4.8	141,000	0.8	0.3			
26	6.3	193,000	0.4	0.4			
27	3.1	71,000	0.4	0.4			
28	4.3	105,000	0.6	0.7			
29	6.8	141,000	0.5	0.6			
30	8.2	141,000	0.5	0.7			
31	0	75,000	0.6	0.6			
			0.5	0.3			
Total	XXXXXX	3,097,000	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX	4	XXXXXXXXXXXX	XXXXXXXXXX
Avg.	XXXXXX	100,000	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX		XXXXXXXXXXXX	XXXXXXXXXX
Max.	XXXXXX	193,000	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX		XXXXXXXXXXXX	XXXXXXXXXX

If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

• System Name: Wekiva Hunt Club WTP PWS Identification No.: 3591121
 • System Owner
 Name: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
 Address: P.O.Box 3884
 City: Longwood State: FL. Zip Code: 32791
 • System Type: community; non-transient non-community; non-community; consecutive
 • No. of Service Connections at End of Reporting Month: 7652; • Total Population Served at End of Reporting Month: 22,956

Water Treatment Plant Information

• Treatment Plant
 Name: Wekiva Hunt Club WTP Telephone No.: (407) 682-5651
 Address: 144 Ledbury Drive
 City: Longwood State: FL. Zip Code: 32779
 • Permitted Maximum Day Capacity of Plant: 8,928,000 gpd; • Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV "B"
 • Plant Operators: See Page 3.

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF FEBRUARY 1996 : See Page 2.

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
- process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
- process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
- process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
- process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
- process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
- process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
- process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Ronald E. Evans 3-5-96
Signature and Date

RONALD E. EVANS COB-0382
Name and Certificate Number (please type or print)

Monthly Operation Report for Public Water Systems that Use Ground Water
and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(3)

System PWS Identification Number: 3591121
Treatment Plant Name: Wekiva Hunt Club

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF FEBRUARY 1996

• Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine);
 chlorine dioxide

Day of the Month	Hours Plant in Operation	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)†	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)†	
1	24 0.00	5,110,000	0.8	0.5			
2	24 0.95	4,130,000	1.0	0.6			
3	24 0.00	3,943,000	0.8	0.5			
4	24 0.00	4,793,000	1.0	0.5			
5	24 0.00	4,572,000	0.6	0.2			
6	24 0.00	5,055,000	0.8	0.4			
7	24 0.00	4,963,000	1.0	0.8			
8	24 0.00	5,133,000	0.7	0.7			
9	24 0.00	5,092,000	1.2	0.7			
10	24 0.00	5,500,000	0.8	0.5			
11	24 0.00	5,816,000	0.7	0.5			
12	24 0.00	5,179,000	1.0	0.5			
13	24 0.00	5,351,000	1.0	0.8	26	0.3	
14	24 0.00	5,141,000	0.9	0.5			
15	24 0.04	5,214,000	0.7	0.4			
16	24 0.00	5,015,000	1.1	0.8			
17	24 0.00	5,172,000	1.2	0.6			
18	24 0.00	6,446,000	0.9	0.5			
19	24 0.00	5,726,000	1.1	0.6			
20	24 0.00	5,751,000	0.8	0.5			
21	24 0.00	5,603,000	0.9	0.5			
22	24 0.00	5,695,000	1.2	0.7			
23	24 0.00	5,705,000	0.7	0.5			
24	24 0.00	5,802,000	0.9	0.5			
25	24 0.00	7,346,000	1.0	0.5			
26	24 0.00	6,208,000	1.0	0.5			
27	24 0.00	6,099,000	1.0	0.5			
28	24 0.00	5,967,000	1.0	0.4			
29	24 0.05	5,245,000	0.8	0.5			
30							
31							
Total	676 0.94	156,722,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	26	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Avg.	24 0.31	5,404,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Max.	24 0.95	7,346,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

† If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Des Pinar WTP PWS Identification No.: 3591121
System Owner: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
Address: P.O. Box 3884
City: Longwood State: FL Zip Code: 32791
System Type: community
No. of Service Connections at End of Reporting Month: 1555 Total Population Served at End of Reporting Month: 465

Water Treatment Plant Information

Treatment Plant Name: Des Pinar WTP Telephone No.: (407) 260-5065
Address: 125 Western Fork
City: Longwood State: FL Zip Code: 32750
Permitted Maximum Day Capacity of Plant: 5,364,000 gpd Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV "C"
Plant Operators: See Page 3.

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF 02/96 : See Page 2.

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Signature and Date: Mike M. Gunter 03/04/96

MIKE M. GUNTER. COA-4532 Name and Certificate Number (please type or print)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(3)

System PWS Identification Number: 3591121
 Treatment Plant Name: Des Pinar WTP

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF 02/96

• Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine);
 chlorine dioxide

Day of the Month	Hours Plant in Operation	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)†	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)†	
1	24	2,462,000	1.1	0.9			
2	24	1,979,000	1.0	0.6			
3	24	1,848,000	0.8	0.5			
4	24	2,238,000	1.0	0.7			
5	24	2,299,000	1.1	0.8			
6	24	2,201,000	1.1	0.6			
7	24	2,345,000	1.2	0.5			
8	24	2,661,000	1.3	0.6			
9	24	2,847,000	1.4	0.7			
10	24	2,874,000	1.2	0.6			
11	24	2,967,000	0.8	0.5			
12	24	2,568,000	1.1	0.3			
13	24	2,597,000	1.3	0.7			
14	24	2,676,000	1.2	0.8			
15	24	2,714,000	1.2	0.8			
16	24	2,623,000	1.0	0.7			
17	24	2,635,000	1.2	0.6			
18	24	2,678,000	0.5	0.4			
19	24	2,135,000	0.9	0.6			
20	24	2,019,000	1.2	0.8	10	0.6	
21	24	2,924,000	1.3	0.4			
22	24	2,105,000	1.2	0.5			
23	24	2,499,000	1.0	0.6			
24	24	2,618,000	1.0	0.5			
25	24	2,753,000	0.8	0.6			
26	24	2,693,000	1.2	0.7			
27	24	2,454,000	1.4	0.8			
28	24	2,355,000	1.0	0.7			
29	24	2,746,000	0.9	0.6			
30							
31							
Total	1.32"	80,915,000	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX	10	XXXXXXXXXXXX	XXXXXXXXXX
Avg.	0.64"	2,740,000	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXX
Max.	1.30"	2,753,000	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.
 † If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Knollwood WTP PWS Identification No.: 3591121
System Owner: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
Address: P.O. Box 3884
City: Longwood State: FL. Zip Code: 32791
System Type: X community; non-transient non-community; non-community; consecutive
No. of Service Connections at End of Reporting Month: 263; Total Population Served at End of Reporting Month: 789

Water Treatment Plant Information

Treatment Plant Name: Knollwood WTP Telephone No.: (407) 830-5070
Address: 100 South Pressview Drive
City: Longwood State: FL. Zip Code: 32750
Permitted Maximum Day Capacity of Plant: 576,000 gpd; Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV
Plant Operators: See Page 3.

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF 02/96 : See Page 2.

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Signature and Date: Mike M. Gunter 03/04/96

MIKE M. GUNTER. COA-4532 Name and Certificate Number (please type or print)

Monthly Operation Report for Public Water Systems that Use Ground Water
and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(3)

System PWS Identification Number: 3591121

Treatment Plant Name: Knollwood WTP

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF 02/96

• Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine);
 chlorine dioxide

Day of the Month	Hours Plant in Operation	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)†	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)†	
1	1.0	19,000	0.5	0.2			
2	0	0	0.6	0.3			
3	0	0	0.5	0.3			
4	1.4	42,000	0.2	0.5			
5	0.4	14,000	0.4	0.6			
6	0.3	14,000	0.5	0.7			
7	1.5	42,000	0.4	0.5			
8	1.5	19,000	0.6	0.6			
9	1.7	66,000	0.5	0.2			
10	0.7	14,000	0.2	0.6			
11	1.3	33,000	0.5	0.6			
12	1.6	42,000	0.7	0.5			
13	2.9	75,000	0.5	0.4			
14	2.2	53,000	0.4	0.5			
15	6.7	36,000	0.3	0.4			
16	1.3	19,000	0.5	0.6			
17	4.2	132,000	0.2	0.6			
18	2.9	84,000	0.2	0.6			
19	4.5	127,000	0.4	0.6			
20	4.7	92,000	0.3	0.5	4	0.5	
21	3.9	71,000	0.5	0.4			
22	3.1	99,000	0.4	0.4			
23	3.6	71,000	0.3	0.3			
24	0	0	0.2	0.6			
25	2.4	86,000	0.2	0.5			
26	3.5	44,000	0.3	0.4			
27	4.6	151,000	0.5	0.6			
28	3.2	94,000	0.4	0.6			
29	1.9	40,000	0.5	0.7			
30							
31							
Total	XXXXXX	1,650,000	XXXXXXXXXXXX	XXXXXXXXXXXX	4	XXXXXXXXXXXX	XXXXXXXXXX
Avg.	XXXXXX	57,000	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXX
Max.	XXXXXX	151,000	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

† If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Wekiva Hunt Club WTP
System Owner: Sanlando Utilities Corporation
Address: P.O. Box 3884, Longwood
PWS Identification No.: 3591121
Telephone No.: (407) 788-3600
System Type: community
No. of Service Connections at End of Reporting Month: 1707
Total Population Served at End of Reporting Month: 23,121

Water Treatment Plant Information

Treatment Plant Name: Wekiva Hunt Club WTP
Address: 144 Ledbury Drive, Longwood
Telephone No.: (407) 682-5651
Permitted Maximum Day Capacity of Plant: 8,928,000 gpd
Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV "B"

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF JANUARY 1996: See Page 2.

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Ronald E. Evans 2-6-96
Signature and Date

Ronald E. Evans C.O. "B" 0382
Name and Certificate Number (please type or print)

Monthly Operation Report for Public Water Systems that Use Ground Water
and for Consecutive Public Water Systems that Treat Their Water

System PWS Identification Number: 3591121

Treatment Plant Name: Wekiva Hunt Club

Alternate/Substitute DEP Form 62-555.910(3)

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF JANUARY 1996

• Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine);
 chlorine dioxide

Day of the Month	Hours Plant in Operation	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)†	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)†	
1	24 4.25	5,710,000	1.3	0.5			
2	24 0.86	5,405,000	1.0	0.5			
3	24 0.00	4,899,000	1.2	0.7			
4	24 0.00	4,994,000	1.2	0.8			
5	24 0.00	4,753,000	0.8	0.3			
6	24 0.24	5,110,000	1.2	0.3			
7	24 0.00	5,471,000	1.0	0.3			
8	24 0.00	5,193,000	0.8	0.4			
9	24 0.00	5,079,000	1.5	0.5			
10	24 0.00	5,151,000	0.7	0.5	26	0.3	
11	24 0.33	5,194,000	1.1	0.4			
12	24 0.00	4,776,000	1.1	0.3			
13	24 0.00	4,950,000	1.2	0.2			
14	24 0.00	5,776,000	0.6	0.2			
15	24 0.00	4,574,000	0.6	0.6			
16	24 0.00	4,994,000	0.5	0.2			
17	24 0.00	5,370,000	1.0	0.4			
18	24 0.00	4,415,000	1.1	0.4			
19	24 0.00	4,744,000	0.8	0.2			
20	24 0.00	4,396,000	1.1	0.3			
21	24 0.00	5,160,000	1.3	0.5			
22	24 0.00	4,877,000	1.2	0.5			
23	24 0.00	4,986,000	1.2	0.7			
24	24 0.00	4,802,000	1.6	0.8			
25	24 0.00	4,877,000	1.5	0.7			
26	24 0.01	4,931,000	1.0	0.5			
27	24 0.00	5,271,000	1.5	0.4			
28	24 0.00	5,961,000	1.3	0.5			
29	24 0.00	5,126,000	1.0	0.4			
30	24 0.00	5,371,000	0.8	0.5			
31	24 0.00	5,051,000	0.7	0.4			
Total	744 5.69	157,369,000	XXXXXXXXXXXXXX	XXXXXXXXXX	26	XXXXXXXXXXXXXX	
Avg.	24 1.14	5,076,000	XXXXXXXXXXXXXX	XXXXXXXXXX		XXXXXXXXXXXXXX	
Max.	24 4.25	5,961,000	XXXXXXXXXXXXXX	XXXXXXXXXX		XXXXXXXXXXXXXX	

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

† If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-599.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Des Pinar WTP PWS Identification No.: 3591121
System Owner: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
Address: P.O. Box 3884
City: Longwood State: FL Zip Code: 32791
System Type: X community; non-transient non-community; non-community; consecutive
No. of Service Connections at End of Reporting Month: 1554; Total Population Served at End of Reporting Month: 4,662

Water Treatment Plant Information

Treatment Plant: Des Pinar WTP Telephone No.: (407) 260-5065
Address: 125 Western Fork
City: Longwood State: FL Zip Code: 32750
Permitted Maximum Day Capacity of Plant: 5,364,000 gpd; Plant Category and Class per Rule 62-599.310(3), F.A.C.: Cat. IV "C"
Plant Operators: See Page 3.

- II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF JANUARY/96 : See Page 2.
III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTRANT: See Page 4.
IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Signature and Date: [Signature] 02-06-96

Name and Certificate Number (please type or print): MIKE M. GUNTER COA-4532

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(3)

System PWS Identification Number: 3591121
 Treatment Plant Name: Des Pinar WTP

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF JANUARY/96

• Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine); chlorine dioxide

Day of the Month	Hours Plant in Operation	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)†	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)†	
1	24 4.55"	1 407 000	0.7	0.4			
2	24 1.40"	1 745 000	1.2	0.5			
3	24	1 451 000	1.1	0.5			
4	24	1 536 000	1.9	0.6			
5	24	1 770 000	0.4	0.5			
6	24 0.15"	1 934 000	1.1	0.9			
7	24	1 995 000	0.7	1.0			
8	24	2 152 000	0.8	0.8			
9	24	1 552 000	1.2	1.0			
10	24	1 592 000	0.8	0.5			
11	24 0.30"	1 501 000	0.7	1.0			
12	24	1 433 000	1.4	1.0			
13	24	1 957 000	2.0	1.2			
14	24	2 265 000	1.8	1.7			
15	24	2 341 000	1.4	0.9			
16	24	2 175 000	2.0	0.9	10	0.6	
17	24	2 125 000	1.2	0.7			
18	24	2 065 000	1.0	0.6			
19	24	2 322 000	1.2	0.8			
20	24	2 399 000	1.4	1.2			
21	24	2 544 000	1.5	1.2			
22	24	2 754 000	1.3	1.0			
23	24	2 327 000	1.2	0.8			
24	24	2 317 000	1.0	0.6			
25	24	2 013 000	1.0	0.5			
26	24	2 445 000	0.8	0.7			
27	24	2 467 000	1.2	1.2			
28	24	3 162 000	1.2	0.7			
29	24	2 413 000	1.0	0.8			
30	24	2 762 000	1.0	0.6			
31	24	2 635 000	1.1	0.7			
Total	6.43"	(66 529 000)	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	10	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Avg.	0.20"	2 156 000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
Max.	4.55"	2 762 000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

† If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.



Department of Environmental Protection

Alternate/Substitute DEP Form 62-555.910(3)

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

INSTRUCTIONS: See Page 5.

I. GENERAL WATER SYSTEM AND WATER TREATMENT PLANT INFORMATION

Water System Information

System Name: Knollwood WTP PWS Identification No.: 3591121
System Owner: Sanlando Utilities Corporation Telephone No.: (407) 788-3600
Address: P.O. Box 3884
City: Longwood State: FL Zip Code: 32791
System Type: X community; non-transient non-community; non-community; consecutive
No. of Service Connections at End of Reporting Month: 261 Total Population Served at End of Reporting Month: 783

Water Treatment Plant Information

Treatment Plant: Knollwood WTP Telephone No.: (407) 830-5070
Address: 100 South Pressview Drive
City: Longwood State: FL Zip Code: 32750
Permitted Maximum Day Capacity of Plant: 576,000 gpd Plant Category and Class per Rule 62-699.310(3), F.A.C.: Cat. IV
Plant Operators: See Page 3.

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF JANUARY/96 : See Page 2

III. SUMMARY OF USE, AT WATER TREATMENT PLANT, OF POLYMER CONTAINING ACRYLAMIDE, POLYMER CONTAINING EPICHLOROHYDRIN, AND/OR IRON AND MANGANESE SEQUESTANT: See Page 4.

IV. STATEMENT BY LEAD/CHIEF WATER TREATMENT PLANT OPERATOR

I, the undersigned lead/chief operator of the water treatment plant listed in Part I of this form, certify that, to the best of my knowledge and belief, the information provided in this report is true and accurate.

Also, I certify that the following additional operations records applicable to this plant were prepared each day a certified operator staffed or visited the plant during the reporting month indicated on this report and that these records will be maintained available for review at the plant site for not less than five years:

- records of amounts of chemicals used and chemical feed rates;
process performance records for coagulation/flocculation (e.g., source water temperature, pH, turbidity, color, and alkalinity and process effluent pH and alkalinity in addition to chemical feed rates);
process performance records for sedimentation (e.g., process effluent turbidity and sludge volume produced);
process performance records for filtration (e.g., process effluent turbidity and color, number of filters in service, filtration rates, unit filter run volumes, head losses, length of filter runs, frequency of backwash, amount of backwash water used, duration of backwash, and backwash rates);
process performance records for lime-soda ash softening (e.g., source water and process effluent hardness in addition to records for coagulation/flocculation, sedimentation, and filtration);
process performance records for ion exchange softening (e.g., feed and bypass flows, blend rate, and salt and brine used);
process performance records for reverse osmosis (e.g., feed, product, and brine flows; feed pressure, temperature, pH, conductivity, and turbidity; product pH and conductivity; and brine pH and conductivity); and
process performance records for electrodialysis (e.g., polarity, feed temperature and total dissolved solids, product conductivity and total dissolved solids, dilute flow rate, brine make-up, pressures, and volts/amps).

Signature and Date: Mike M. Gunter 2-6-96

Name and Certificate Number (please type or print): MIKE M. GUNTER COA-4532

Monthly Operation Report for Public Water Systems that Use Ground Water and for Consecutive Public Water Systems that Treat Their Water

Alternate/Substitute DEP Form 62-555.910(3)

System PWS Identification Number: 3591121
 Treatment Plant Name: Knollwood WTP

II. SUMMARY OF DAILY WATER TREATMENT DATA FOR THE MONTH/YEAR OF JANUARY/96

• Type of Residual Disinfectant Maintained in Distribution System Served by Plant: free chlorine; combined chlorine (chloramine);
 chlorine dioxide

Day of the Month	Hours Plant in Operation	Quantity of Finished Water Produced by Plant (gallons)	Lowest Residual Disinfectant Concentration at Entry to Distribution System (mg/L)*	Residual Disinfectant in Distribution System			Reported Emergency or Abnormal Operating Conditions
				Lowest Residual Disinfectant Concentration at Remote Point (mg/L)†	Number of Instances Where Residual Disinfectant Measurements Taken at Total Coliform Sampling Points	Lowest Residual Disinfectant Concentration at Total Coliform Sampling Points (mg/L)†	
1	0.2	9,000	0.2	0.4			
2	0	0	0.2	0.4			
3	0	0	0.3	0.5			
4	0.1	5,000	0.2	0.6			
5	0.2	0	0.2	0.6			
6	0	0	0.2	1.1			
7	0	0	0.2	1.3			
8	0	0	0.2	0.6			
9	0	0	0.2	0.6			
10	0	0	0.2	0.5			
11	0.1	9,000	0.2	0.5			
12	0	0	0.3	0.2			
13	0	0	0.2	1.3			
14	0.5	19,000	0.2	0.6			
15	0	0	0.2	0.6			
16	2.1	56,000	0.3	0.5	4	0.7	
17	0.2	0	0.4	0.6			
18	2.0	52,000	0.4	0.6			
19	0.3	19,000	0.4	0.5			
20	1.9	42,000	0.7	0.7			
21	1.4	54,000	0.5	1.0			
22	0.9	19,000	0.4	0.7			
23	1.3	40,000	0.6	0.6			
24	1.5	33,000	0.8	0.5			
25	1.6	52,000	0.4	0.6			
26	1.7	35,000	0.3	0.5			
27	0.1	0	0.7	0.4			
28	1.1	24,000	0.2	0.5			
29	2.0	73,000	0.4	0.8			
30	0.7	19,000	0.4	0.7			
31	1.0	29,000	0.5	0.6			
Total	XXXXXX	591,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	4	XXXXXXXXXXXXXX	XXXXXXXXXX
Avg.	XXXXXX	19,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX
Max.	XXXXXX	73,000	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX

* If at any time the residual disinfectant concentration at the entry to the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

† If at any time the residual disinfectant concentration in the distribution system drops below the equivalent of 0.2 mg/L of free available chlorine, immediately increase the chlorine dose and/or flush appropriate portions of the distribution system until the residual disinfectant concentration is at least equivalent to 0.2 mg/L of free available chlorine and notify the Department or the appropriate ACPHU by wire or telephone within 24 hours pursuant to Rule 62-555.350(3), F.A.C.

ATTACHMENT H
Public Supply and/or Essential Type Uses
Supporting Documentation

PUBLIC SUPPLY AND/OR ESSENTIAL TYPE USES

A. 3(a)

The MOR's are contained in Attachment G. The historic average daily and maximum daily per capita use is shown in Attachment G, Table 1.

A. 3(b)

Table 2 - Growth Projections

Based on historical data from the past 7 years, the population has increased by an average of 0.7%. The growth trend shows a decreasing growth rate, with the most recent rate being 0.53%. This describes the combined service area for the Wekiva Hunt Club, Des Pinar, and Knollwood Water Treatment Plants as a mature service area which can expect minimal growth at best. The fifteen year future use projection is calculated using a conservative 0.5% annual population growth rate over the next fifteen years. This yields a future average daily usage for the combined system of 9.73 MG in the year 2011. This is within the current permit capacity of 12.65 MGD. Historically, the peaking factor for the system has been approximately 1.75. This requires the new permit to have a maximum daily capacity of at least 17.02 MGD. We recommend a permitted maximum of 18 MGD which allows for a peaking factor of 2.

B. 1

Wastewater Disposal

The service area is, as previously mentioned, built out, so there can only be minimal increases in wastewater. In order to project future amounts an annual growth rate of 0.5% was used. This resulted in the Wekiva Hunt Club Facility having an ADF of 2.24 MGD in fifteen years and the Des Pinar Facility having an ADF of 0.41 MGD. The respective permitted capacities are 2.9 MGD and 0.5 MGD.

B. 2

On January 22, 1992, Sanlando Utilities and the Department of Environmental Regulation (Protection) entered into a settlement stipulation with The Friends of the Wekiva and the Florida Audobon Society which required among other things, that Sanlando use its best efforts to implement an 'inverted rate structure' in order to encourage the conservation of water and the reduction of sewage effluent. In March 1993, in order to comply with this settlement stipulation, Sanlando Utilities filed, with the State of Florida Public Service Commission (PSC), a petition for a Limited Proceeding to implement a water conservation plan (inverted rate structure). The PSC approved Sanlando's petition on December 10, 1993. The PSC's order approving the petition was subsequently protested. In March 1995, Sanlando filed a Stipulation with the PSC regarding the Limited Proceeding to Implement

a Water Conservation Plan in Seminole County (Docket No. 930256-WS). Sanlando shall comply with the terms contained in that Limited Proceeding and currently awaits a letter ruling from the Internal Revenue Service before implementation. If a favorable ruling is rendered, Sanlando will implement reuse under the following schedule where N is the date the rate structure is implemented.

	<i>Implementation Step</i>	<i>Completion</i>
1	<i>Reuse System Preliminary Plans Complete</i>	<i>N + 1 year</i>
2	<i>Final Plans and Specifications</i>	<i>N + 2 years</i>
3	<i>Financing Complete</i>	<i>N + 4 years</i>
4	<i>Site Acquired</i>	<i>N + 3 years</i>
5	<i>Begin Construction</i>	<i>N + 3.5 years</i>
6	<i>End Construction</i>	<i>N + 4 years</i>
7	<i>Begin Reuse</i>	<i>N + 4 years</i>
8	<i>Operational Level Attained</i>	<i>N + 5 years</i>

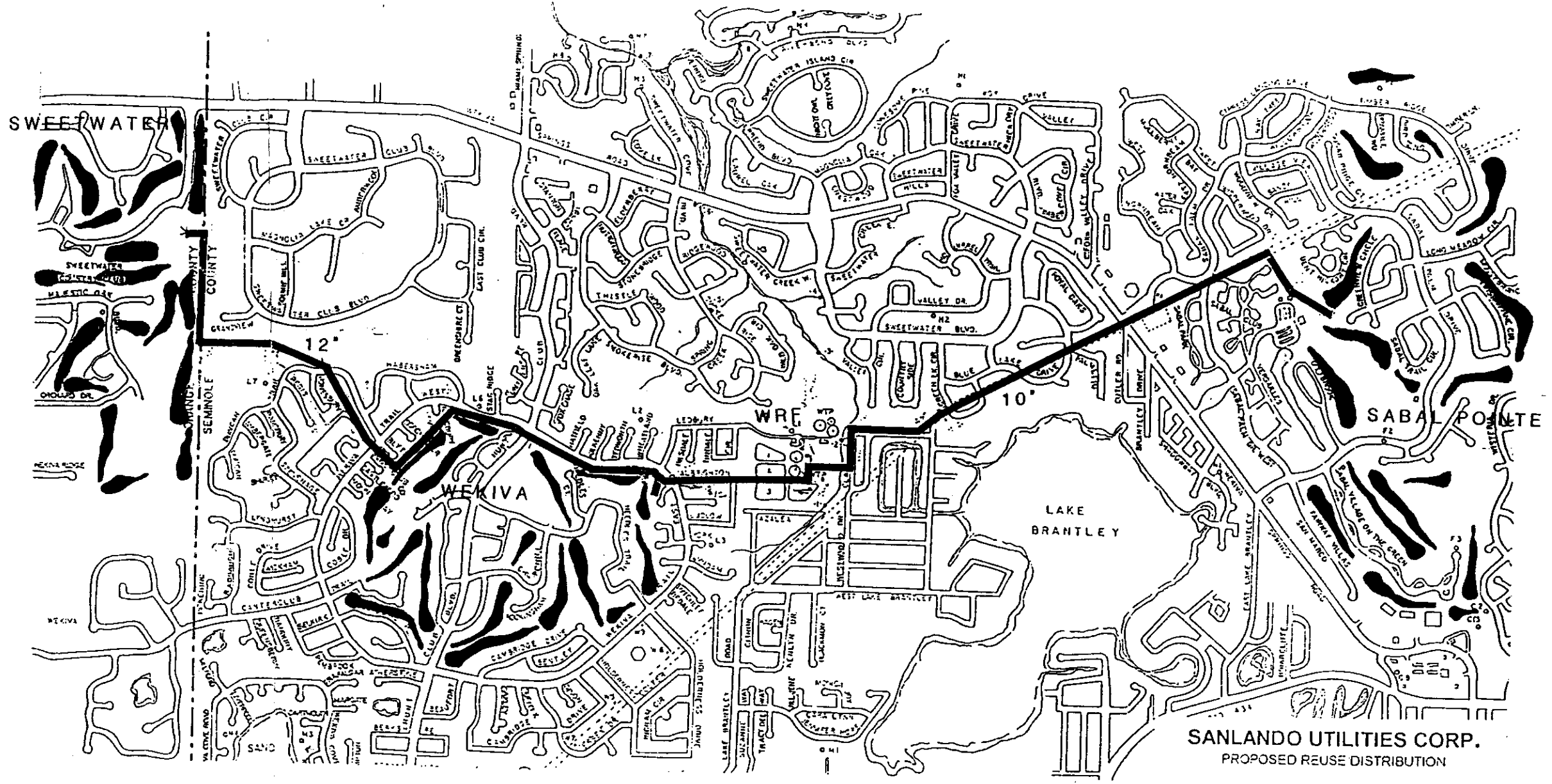
Considering this schedule, we predict the earliest the reuse project to be complete would be the year 2002. Therefore the five year projection is given as 25% and the ten year projection is the full 50%.

The Des Pinar WWTF currently discharges 100% of it's effluent to on-site percolation ponds. The on-site spray fields draw off the percolation ponds approximately three times per week for a duration of 16 hours. This irrigates all of the landscaping on the Des Pinar site. No supplemental irrigation water is required.

Population Estimation Considerations

It is important to note that the populations listed in Tables 1 and 2 are calculated using unadjusted meter numbers as opposed to meter equivalents, i.e. meters greater than 5/8" x 3/4" in size are counted only as one meter, not as an equivalent to a 5/8" x 3/4". This has a significant impact on the population values. Meter equivalents gives a more accurate estimate of population because it better accounts for multi-family connections. For instance, in 1994 the meter equivalents were 16,660. Using 3.0 people per meter yields a population of approximately 50,000. Using the unadjusted meter numbers yields a population of only approximately 28,500. Using the unadjusted meter count yields a per capita usage higher than actual. Since per capita usage is the means by which we judge if the level of water conservation in the service area is appropriate, one can see how it is important to estimate the population as accurately as possible.

Sanlando Utilities is currently in the process of updating their computer system with new hardware which will use new software to allow better tracking of meter data. Once this is completed, population and thus per capita usage can be more accurately modeled.



SWEETWATER

SEMINOLE COUNTY

WINDY HOLLOW

WEKIVA

WEKIVA

WRE

SABAL POINTE

LAKE BRANTLEY

SANLANDO UTILITIES CORP.
PROPOSED REUSE DISTRIBUTION

ATTACHMENT I
Water Conservation Plan

SANLANDO UTILITIES
WATER CONSERVATION PLAN

1.0 Introduction

Sanlando Utilities currently has three (3) potable water service areas, Wekiva Hunt Club, Des Pinar and Woodlands. This Water Conservation Plan covers all three systems. The map in Attachment C shows the combined service area.

Sanlando Utilities has adopted as part of its Comprehensive Plan an objective to promote Water Conservation. In order to provide consistency and continuity in the Water Conservation Program and to minimize any duplication of effort, Sanlando Utilities has prepared and intends to implement this Water Conservation Plan. The plan shall be submitted to the St. Johns River Water Management District in support of the Consumptive Use Permit (CUP) Application.

Implementation and development of this program will be an on-going process and this plan is only intended to set initial goals and schedules for the program. This plan will be further expanded and defined by the Utility as the program is further developed.

2.0 Water Conservation Plan Implementation

2.1 Goals

Provide high quality water to Sanlando customers reliably, at a reasonable cost, and at sufficient pressures and quantities to allow unimpeded water use and accommodate economic development while providing economic signals and water conservation technologies designed to minimize water waste.

2.2 Objectives

The following objectives support the water conservation goals:

- A. Provide high quality water meeting all drinking water standards;
- B. Minimize the Max Day/Average Day factor to allow efficient capacity utilization;
- C. Promote efficient water use as a life-style in order to extend aquifer supplies and avoid the need for regulatory intervention;
- D. Maintain competitive water rates and total water bills.

2.3 Policies

The following policies and programs shall be conducted to support the Water Conservation Goals and Objectives:

A. Conservation Rate Structure

On January 22, 1992, Sanlando Utilities and the Department of Environmental Regulation (Protection) entered into a settlement stipulation with The Friends of the Wekiva and the Florida Audobon Society which required among other things, that Sanlando use its best efforts to implement an 'inverted rate structure' in order to encourage the conservation of water and the reduction of sewage effluent. In March 1993, in order to comply with this settlement stipulation, Sanlando Utilities filed, with the State of Florida Public Service Commission (PSC), a petition for a Limited Proceeding to implement a water conservation plan (inverted rate structure). The PSC approved Sanlando's petition on December 10, 1993. The PSC's order approving the petition was subsequently protested. In March 1995, Sanlando filed a Stipulation with the PSC regarding the Limited Proceeding to Implement a Water Conservation Plan in Seminole County (Docket No. 930256-WS). Sanlando shall comply with the terms contained in that Limited Proceeding and currently awaits a letter ruling from the Internal Revenue Service before implementation. If a favorable ruling is rendered, Sanlando will implement reuse under the following schedule where N is the date the rate structure is implemented.

	<i>Implementation Step</i>	<i>Completion</i>
1	<i>Reuse System Preliminary Plans Complete</i>	<i>N + 1 year</i>
2	<i>Final Plans and Specifications</i>	<i>N + 2 years</i>
3	<i>Financing Complete</i>	<i>N + 4 years</i>
4	<i>Site Acquired</i>	<i>N + 3 years</i>
5	<i>Begin Construction</i>	<i>N + 3.5 years</i>
6	<i>End Construction</i>	<i>N + 4 years</i>
7	<i>Begin Reuse</i>	<i>N + 4 years</i>
8	<i>Operational Level Attained</i>	<i>N + 5 years</i>

B. Consumer and Employee Education

Sanlando Utilities participates in Consumer and Employee Water Conservation Education. Sample Water Conservation literature is attached. Education efforts for the program include the following:

- 1) Semi-annually, conservation messages are sent with the bills.
- 2) Periodic advertisements are added to the homeowners' associations newsletters.
- 3) Public tours of our facilities are offered on demand to the public.
- 4) We participate in National Drinking Water Week. We sponsor a conservation-based coloring contest for grades K-5, with monetary awards. Winners are gathered at the utility with a local celebrity presenting the awards.
- 5) We participate annually in Mid-Florida Water Utility Council's Water Celebration, in conjunction with National Drinking Water Week. Conservation is presented along with other water related topics.
- 6) We thoroughly investigate all high bill complaints or high reads.

C. Installation of Water Savings Devices

Sanlando Utilities promotes the retrofit of water saving devices and the building codes of the counties within which we operate require such devices in all new installations. We are not able to subsidize their purchase by our customer base.

D. Water Audits

A water audit is a detailed comparison of water delivered to a distribution system versus metered uses to identify unaccounted for losses. Water audits help to identify normal volumes for various uses and identify abnormally high demand areas and potential water conserving methods.

System wide water audits will be performed on a monthly basis to compare the difference between water pumped and water billed. All wells are test pumped regularly and derived pumping data is compared with calibrated master meters at each plant.

Annual water audit results will be analyzed and identified deficiencies will be acted upon. Large volumes of unaccounted for water and obvious meter discrepancies such as billing more water than pumped, if they occur, will indicate a need for action and will be investigated and corrected by Sanlando Utilities.

All known flows of the following types are accounted for within our service area: Irrigation, Sewer Cleaning, Water Quality Flushing, Construction, New Line Flushing, Main Breaks, and Field Use.

E. Meter Calibration

All delivery meters within the system 2 inches and larger, are calibrated at least annually and more often if needed. Plant master meters are calibrated semi-annually or more often if needed.

F. Leak Detection Program

Sanlando Utilities has an informal leak detection program. Crews are available for water main repairs and all known leaks are repaired. Sanlando Utilities has an on-going capital improvement program and it is intended that older portions of the system will be upgraded to large pipe sizes and newer pipe lines to provide fire protection and improved distribution flow/pressures; subject to funding constraints.

The on-going water audits will further dictate the need for a more detailed program.

G. Reclaimed Water Program

The feasibility of initiating a reuse program has been evaluated. The Wekiva Hunt Club Wastewater Treatment Facility will initially irrigate the three golf courses in the area, Sabal Point, Sweetwater, and Wekiva, with further plans to provide residential areas with reclaimed water for irrigation. The ultimate goal is to reach 100% reuse. Currently, Sanlando Utilities awaits a letter ruling from the Internal Revenue Service on the plan for funding the project.