

SCANNED

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Before the
Florida Public Service Commission

Docket No. ~~960444~~-WU

In the Matter of

Application for rate increase and
for increase in service availability
charges in Lake County by
Lake Utility Services, Inc.

Direct Testimony of

Don Rasmussen
Vice President and Regional
Director of Operations

for

Lake Utility Services, Inc.

July 11, 1997

DOCUMENT NUMBER-DATE

~~06970~~ JUL 11 5

FPSC-RECORDS/REPORTING

1 **Q. Would you please state your name and business address?**

2 A. My name is Donald W. Rasmussen, and my business address
3 is 200 Weathersfield Avenue, Altamonte Springs, Florida.

4

5 **Q. By whom are you employed and in what capacity?**

6 A. I am employed by Utilities, Inc., the parent company which
7 owns 100% of the stock of Lake Utility Services, Inc. (LUSI).
8 Presently, I serve as Vice President and Regional Director of
9 Operations and am responsible for the administration and
10 operation of all water and wastewater systems in Florida owned
11 and operated by subsidiaries of Utilities, Inc.

12

13 **Q. Please summarize your background and experience in the**
14 **industry of providing water and sewer service to the**
15 **public.**

16 A. I was hired by Utilities, Inc. in 1970. I was soon promoted to
17 the position of Area Manager, where I was responsible for the
18 operations of several water and wastewater plants. During this
19 time I acquired the highest Illinois licenses awarded in the
20 water and wastewater fields and continue to hold a Class A
21 certificate in water and a Class 1 certificate in wastewater. I
22 also conducted safety seminars for the company and was a
23 licensed paramedic.

24

25 In 1982, I was transferred to Altamonte Springs and accepted
26 the position of Regional Director for Utilities, Inc. of Florida. In

1 1990, I was given the title of Vice President of the Utilities, Inc.
2 of Florida systems. I currently maintain a Grade A certificate
3 in water and a Grade C certificate in wastewater in the State of
4 Florida. I have attended numerous seminars dealing with
5 operations and maintenance of water and wastewater systems
6 and serve on the Board of Directors of the FWWA.

7
8 **Q. What is the purpose of your testimony in this proceeding?**

9 A. I have come before the Commission to explain Lake Utility
10 Services, Inc.'s (LUSI) philosophy in providing high quality
11 customer service. My testimony will include an explanation of
12 the operation of our systems including the improvements made
13 to provide service to customers having homes with Ethylene
14 Dibromide (EDB) contaminated wells. Additionally, I will
15 discuss the Staff's alleged excessive unaccounted for water in
16 the system. Finally, I will discuss the extensive program we
17 have embarked upon to interconnect the majority of our
18 systems.

19
20 **Q. Are you sponsoring any exhibits in this proceeding?**

21 A. Yes. I am sponsoring the four volumes of engineering
22 information and system maps that were filed as part of the
23 Minimum Filing Requirements for the test year ending
24 December 31, 1995 that were submitted to the Commission on
25 June 3, 1996. In addition, I have attached five exhibits to my
26 testimony.

1

2

Customer Service

3

4

Q. Please provide a summary of the qualifications of your operating Staff responsible for LUSI.

5

6

A. The following operators are responsible for the operation and maintenance of the Clermont systems.

7

8

9

Bryan Gongre - Area Manager

10

Bryan is the Area Manager for all our LUSI systems. He is responsible for overseeing the day-to-day operation of these systems. Bryan began employment with Utilities Inc. of Florida in 1992 and presently holds a Class "B" certificate in water.

11

12

13

14

15

Howard J. Aldrich

16

"Jay" Aldrich began employment with us in 1990. He is responsible for the day-to-day operations of some of these systems. He holds a Class C certificate in both water and wastewater.

17

18

19

20

21

Robert Risner

22

Robert Risner began employment with us in 1995. He holds a Class "A" certificate in water. He is responsible for the day-to-day operations of some of the Clermont area systems.

23

24

25

1 **Q. Please explain LUSI's philosophy in treating and serving its**
2 **customers as well as the procedures associated with**
3 **handling customer calls.**

4 A. Our customer service philosophy is based upon the premise
5 that each customer is an individual and should be treated as
6 such. In addition, we emphasize that 100% customer
7 satisfaction is our goal and nothing less. Accordingly, we adapt
8 our procedures to take into account the individual needs and
9 requirements of our customers. And, service quality is closely
10 monitored for each system by our Florida staff, myself, as well
11 as by our corporate office.

12 Finally, our organization has maintained a system whereby
13 individual employees are held accountable for service quality.
14 Throughout our organization, service quality is utilized as a
15 primary factor in all employee performance reviews, including
16 my own.

17

18 **Q. Please explain how a typical customer service call is**
19 **handled.**

20 A. Customer calls, regardless of their nature, come into the
21 branch office in Altamonte Springs. Customers located out of
22 the area are furnished with a toll free number. During office
23 hours each call is answered by a customer service
24 representative.

25

1 If there is a problem related to field operations, a computer
2 generated service order is issued and directed to the operator
3 responsible for that particular system. The service orders are
4 immediately relayed to the operator by means of a fax machine
5 or radio communications. Depending on the nature of the
6 service concern, the operator will include the service order in
7 his schedule and respond to it as necessary. Emergencies--
8 such as water leaks or water quality complaints--are always
9 given immediate attention. After the problem is rectified, the
10 operator relays information as to how the problem was resolved
11 to the customer service representative, and the resolution is
12 entered into the computer system as a permanent record of the
13 call.

14
15 Billing inquiries are handled much in the same way as service
16 calls. All inquiries are recorded on the customer's account by
17 entering the information into the computer system. Any billing
18 inquiries or complaints are resolved as soon as possible.

19
20 **Q. Does your organization provide customer service 24 hours**
21 **per day?**

22 A. Yes. Customers calling after office hours are forwarded to our
23 answering service. An operator is assigned to be "on call"
24 during the hours the office is closed. If an emergency should
25 arise, the on-call operator will handle the situation.

26

1 **Q. How do you rate your Company's quality of service?**

2 A. As a Company we are never completely satisfied with customer
3 service or quality of service and, therefore, we continue to
4 strive to improve every facet of service. Based upon my 27
5 years of experience in the industry, I would rate our overall
6 quality of service as compared to other private and municipal
7 service providers as very good.

8
9 **Q. Did the Staff have a different opinion of your Company's
10 quality of service? If so, please explain.**

11 A. Yes the Staff rated the quality of service as marginal at best.
12 However, I disagree with this analysis. The Staff based the
13 overall quality of service on three separate components. These
14 are: (1) The quality of the utility's product; (2) The operating
15 conditions of the utility's plant and facilities; and, (3)
16 Customer satisfaction. I would like to discuss each of these
17 components individually.

18
19 First, I will address the quality of the utility's product. The
20 Staff stated that the quality is marginal at best. The quality of
21 water meets or exceeds all DEP and health department
22 standards.

23
24 The Staff's concerns are prompted by customers who stated, at
25 the customer meeting, that their chlorine level varied. While
26 we certainly recognize that some customers have experienced

1 variations, this phenomenon is attributable to the expanse of
2 the system, as well as the system configuration. The system
3 consists of approximately 14 miles of water main. Because
4 DEP standards require that we maintain a chlorine residual at
5 the far ends of the system to ensure sanitary conditions, our
6 operators flush on an as needed basis to assure a chlorine
7 residual at the ends of our system. When this is done, the
8 level of chlorine in the water may be more noticeable at homes
9 near the well sites for a brief period of time. This is normal
10 and recurring in this type of system and is certainly not
11 indicative of water quality problems.

12
13 According to the DEP and the US Health Department, both
14 independent governmental agencies, LUSI meets or exceeds all
15 guidelines for water quality. If the Staff believes the measures
16 established by the DEP are inadequate, the Florida Public
17 Service Commission should issue their own set of guidelines as
18 opposed to relying solely on the testimony of a very few
19 customers.

20
21 Clearly, based on the guidelines that are established for LUSI
22 to abide by and measure its performance, the quality of the
23 product furnished by LUSI is adequate.

24
25 Second, I will discuss the operating condition of the water
26 utility's facilities. Staff referred to a number of minor

1 deficiencies noted by DEP in their inspection of the facilities.
2 Most of these deficiencies were operational reporting
3 requirements or lack of proper signs and had no effect on the
4 quality of the water or the overall condition of the facilities.
5 The report is attached as Exhibit ___ (DR-1).

6
7 Recently, on June 19, 1997, the DEP completed an inspection
8 of all the systems. They found no facility deficiencies. The
9 minor problems cited were corrected the day of the inspection.
10 I have attached the DEP inspection report, Exhibit ___ (DR-2)
11 demonstrating that our facilities are kept in the best possible
12 operating condition. Consequently, based on the inspection of
13 a third party regulatory agency, the operating condition of the
14 facilities is adequate.

15
16 Finally, the Staff felt that customer satisfaction was lacking.
17 The Staff stated that their assessment was because 10 of 918
18 total customers spoke at the customer meeting indicating
19 problems with chlorine level, sediment, or service problems. Of
20 the 10 customers, only 5 had prior contact with the company
21 to report any problems with the quality of the water. One of
22 the five customers was a former disgruntled employee. While
23 we are never satisfied until all customer problems are
24 corrected, I do not believe that the small percentage of
25 customers who expressed problems is indicative of overall
26 customer dissatisfaction. Furthermore, based on (1) our efforts

1 to turn a series of stand-alone systems into a regional water
2 system serving all customers in the service territory, including
3 those affected by EDB; (2) Our ongoing involvement in the
4 community; (3) Our immediate response to customer concerns;
5 LUSI provides excellent customer service.

6
7 In short, the Staff's characterization of LUSI's customer service
8 is unfair and not in keeping with established guidelines.

9

10 **System Operation**

11

12 **Q. What water treatment plants are located in LUSI's service**
13 **area and are involved in this rate case?**

14 A. There are 12 separate water treatment plants located in this
15 service area. This area was granted under Order #920174-WU
16 and is referred to as our Clermont systems. They are identified
17 in the LUSI tariff territorial descriptions as Clermont I,
18 Clermont II, Amber Hill, Lake Ridge, Oranges, Crescent Bay,
19 Crescent West, Lake Crescent Hills, Highland Point and Vistas.
20 Also included in the rate case is Lake Saunders and Four
21 Lakes which are remote from the above systems.

22

23 **Q. Please describe the improvements made by Lake Utility**
24 **Services, Inc.**

25 A. LUSI has installed new water mains in its certificated territory
26 for the purposes of interconnecting the majority of its Clermont

1 systems. In doing so, we have extended our service to many
2 new residential developments and individual homes in the
3 area. Many of these homes have wells that have been
4 contaminated with EDB which posed a significant health
5 hazard to residents, along with negatively impacting property
6 values.

7
8 Additionally, we have installed a second well (well #2) at the
9 Vistas which is waiting for clearance from the Department of
10 Environmental Protection (DEP). We have also replaced the
11 well in the Crescent Bay subdivision.

12

13 **Q. How much was spent on the installation of the mains to**
14 **interconnect the various systems?**

15 A. From a review of our company's records, LUSI spent over
16 \$900,000 on interconnecting the systems. Attached is a list of
17 invoices supporting the interconnecting mains as Exhibit ____
18 (DR-3). These invoices have been reviewed by me and
19 represent all of the money spent on the interconnection
20 through December 31, 1995. These balances are utilized in Mr.
21 Kramer's schedules (Exhibit ____ (MFK-3)) for preparation of test
22 year rate base.

23

1 **Unaccounted For Water**

2
3 **Q. Staff concluded that there was excessive unaccounted for**
4 **water. Do you disagree with that conclusion? If so, why?**

5 A. Yes, I disagree with that conclusion. Staff concluded that there
6 were excessive amounts of unaccounted for water in 4 groups
7 of systems. The amounts, by system, are: (1) The Oranges -
8 Vistas / 2,057 GPD; (2) Highland Point - Crescent Bay -
9 Crescent West - Lake Crescent Hills / 16,744 GPD; (3) Lake
10 Saunders / 782 GPD, and (4) Four Lakes / 3,795 GPD.

11
12 In the system of Highland Point - Crescent Bay - Crescent West
13 - Lake Crescent Hills, I feel there are factors which should
14 allow for more unaccountable water than the arbitrary 10% the
15 Staff allows as an acceptable level. During 1995 there were
16 26,588 feet of water main added to this system. This
17 represents approximately a 40% increase in the area served.
18 The Staff concluded that the excessive amount for this system
19 amounted to 6%. Under these circumstances, with an
20 unusually large amount of construction and flushing of new
21 mains, I don't believe that the 6% was excessive. We have
22 initiated several procedures to measure construction water
23 amounts in the future.

24
25 Lake Saunders and Four Lakes are both older systems.
26 Recently, Staff has allowed 12.5% as an acceptable level of

1 unaccountable water for these older systems. This would
2 reduce the excessive unaccountable water to 245 GPD and 567
3 GPD respectively.

4
5 When these factors are applied to these systems, none of the
6 unaccountable water is excessive.

7
8 **Q. Is the Staff's use of 10% as an acceptable level of**
9 **unaccountable water widely accepted in the industry?**

10 A. No. The 10% level in which the Staff relies upon is a general
11 guideline, but not a steadfast rule. Attached as Exhibit ___
12 (DR-4) is a reprint from an American Water Works Association
13 (AWWA) publication entitled "Water Distribution Training
14 Course." This publication is quite clear that the amount of
15 unaccounted for water is entirely dependent on the system
16 involved and its characteristics. Specifically it states,

17
18 "The proper amount of unaccounted for water in any given
19 system is a function of that system alone. It might range, in a
20 substantially fully metered system, from as much as 35
21 percent to as little as 5 percent. The former percentage may
22 apply if pressures are very high and variable, leakage is
23 difficult to detect and remedy, the pipe system is extensive and
24 old, or practically all customers use water only in small
25 amounts (a principal cause of under registration of meters).
26 The smaller percentage may be the result of low pressures, the

1 existence of only a few customers who each take a considerable
2 percentage of the total water, and a small mileage of mains. A
3 fair average of unaccounted for water might be 10 - 20 percent
4 for fully metered systems with good meter maintenance
5 programs and average conditions of service.”

6
7 Thus the AWWA document does not speak of specific limits for
8 all heterogeneous systems, but instead describes only a “fair
9 average” for systems which meet certain general descriptions.

10
11 **Q. Based on the AWWA’s guidelines for unaccounted for**
12 **water, would you characterize the LUSI systems’**
13 **unaccounted for water as excessive?**

14 A. No. On the contrary, considering the tremendous amount of
15 growth in the area, and the length of main installed between
16 systems LUSI has a minimal amount of unaccounted for water.

17
18 **The Interconnection Program**

19
20 **Q. The Staff based its used and useful calculations for the**
21 **distribution systems on lot counts and lots served. Do you**
22 **agree with their calculations?**

23 A. No, not with all the systems. Please refer to my Exhibit ___
24 (DR-5). I do not agree with the number of lots and number of
25 lots served in the Clermont II area. The correct number of lots

1 served is 35 instead of 70. The correct total number of lots is
2 70 instead of 121.

3
4 The Highland Point - Crescent Bay - Crescent West and Lake
5 Crescent Hills, system includes the South Clermont area and
6 Preston Cove. In the South Clermont area, mains were
7 extended to serve homes with EDB many of the mains passed
8 existing homes with wells. These homes will probably never
9 connect to the water system and therefore they should not be
10 included in the calculation. There were 44 of these homes in
11 the South Clermont area.

12
13 The total number of lots in this area is 918. The number of
14 lots serviced in this area is 433. These figures are represented
15 in Exhibit ___ (DR-5).

16
17 **Q. Where did you obtain your lot counts and number of**
18 **connections as of December 31, 1995?**

19 A. I counted the number of potential lots served from maps of
20 each individual subdivision. The maps are provided to the
21 utility from the developers and previous owners.

22
23 The number of connections are simply the number of
24 customers tapped into our system at December 31, 1995.

25

1 **Q. Will the interconnected systems be able to serve other**
2 **residences?**

3 A. Yes, the interconnected systems will be able to serve existing
4 and future residences along the routes where mains have been
5 installed.

6

7 **Q. Are all the plants presently in compliance with the**
8 **Department of Environmental Protection's regulations?**

9 A. Yes, At the present time there are no known compliance
10 problems with any of the systems.

11

12 **Q. Please describe the EDB contamination of the individual**
13 **wells.**

14 A. Years ago the Clermont area was primarily made up of orange
15 groves. Many of the groves were treated with a carcinogen,
16 unknowingly at the time, called EDB. This chemical does not
17 break down as it seeps into the ground. Therefore, once it
18 reached the shallow aquifer many of the residential wells
19 became contaminated thereby endangering the public health.
20 As a solution to the health problem, both the DEP and the
21 County Health Department recommended that these homes be
22 connected to a central potable water system. Accordingly, we
23 were asked to work closely with these departments to
24 accomplish this goal and to provide quality water service to all
25 the area residents. In the past few years the DEP has also

1 discovered high levels of nitrate, another contaminant, in some
2 of the shallow residential wells.

3

4 **Q. Please describe the program to interconnect the water**
5 **systems.**

6 A. When we were granted the service area in Order #920174-WU,
7 and in cooperation with DEP, we immediately began an
8 aggressive program to interconnect our systems. At present,
9 the Clermont I, Amber Hill and Lake Ridge systems are all
10 interconnected to each other. The Vistas and Oranges systems
11 are also interconnected to each other, as are the Crescent Bay,
12 Crescent West, Lake Crescent Hills and Highland Point
13 systems.

14

15 **Q. Please describe any future interconnection plans.**

16 A. We plan to interconnect the Clermont II system to the
17 interconnected systems of Clermont I, Amber Hill and Lake
18 Ridge. We are also planning to connect the Oranges and Vistas
19 systems to this group. Once these interconnections have been
20 completed, we will have two large groups of interconnected
21 systems. Our goal is to eventually have one large system.

22

23 **Q. Do these systems have well capacity available to serve the**
24 **certificated service area?**

25 A. Yes. The combined pumping capacity of LUSI's existing wells
26 is in excess of 6,000 GPM. Each system except Clermont II

1 was individually capable of providing peak service
2 requirements plus its own fire flow capacity. As we continue to
3 interconnect these systems, the diversified peak demand will
4 be less than the sum of the nine separate peak demands. The
5 fire flow requirements for the interconnected systems will not
6 have to be duplicated. Therefore, the capacity of the
7 interconnected systems should be adequate to serve the service
8 area.

9

10 **Q. Will additional capital investment by the utility to serve**
11 **the interconnected systems?**

12 A. Yes. Depending on future growth, the system will potentially
13 require the installation of an elevated storage tank, pressure
14 boosters, pressure reducers, and reconfiguration of sections of
15 distribution and transmission mains.

16

17 **Q. Are there other benefits to interconnecting these utility**
18 **systems besides solving the EDB problem?**

19 A. Yes. The interconnected systems will assure the following:

- 20 • Improved reliability of service.
- 21 • Lower operating costs.
- 22 • Better service for the customers.
- 23 • Improved water quality.
- 24 • A safer supply.
- 25 • Insures consistent monitoring.

26

1 **Q. Does this conclude your testimony?**

2 A. Yes it does.



Department of Environmental Protection

COPY

Docket 960444-WU
Exhibit ___ (DR-1)

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

November 5, 1996

Utilities, Inc. of Florida
200 Weathersfield Avenue
Altamonte Springs, FL 32714

OCD-PW-CE-96-1522

Attention: Donald Rasmussen

- | | | | |
|----------------------------|-----------|--------------------------|-----------|
| Lake County - PW | | | |
| * Crescent Bay S/D | - 3354686 | Amberhill S/D | - 3354648 |
| * Crescent West S/D | - 3354690 | Lake Ridge Club | - 3354884 |
| * Highland Point | - 3354652 | Clermont #1/Four Winds | - 3351582 |
| * Lake Crescent Hills | - 3354883 | Four Lakes & Harbor Oaks | - 3354647 |
| * Oranges S/D, The | - 3354685 | Clermont #2/Carr Water | - 3350153 |
| <hr/> | | | |
| *Vistas S/D, The - 3354773 | | | |

Dear Mr. Rasmussen:

The Department conducted inspections of your public water systems on October 22, 1996. These inspections were conducted by me in the presence of Mr. David Zusi. *Copies of the Sanitary Survey Reports and/or Water Treatment Plant Compliance Inspection Reports are enclosed for your reference and records.

Deficiencies found during these inspections and/or in Department records are indicated below. These deficiencies shall be corrected in order to return to compliance with Florida Administrative Code (F.A.C.) Rules 62-550, 62-555, 62-560 and 61E12.

Please correct the indicated deficiencies, and notify the Department in writing that the deficiencies have been corrected, **no later than December 5, 1996.** (You may use the enclosed response form to indicate the corrective actions taken.)

DEFICIENCIES

Crescent Bay S/D--3354686

1. MOR reporting--The number of service connections is not being reported.
2. Maintenance-- Algal growth in the pump head bowl.
3. Warning sign-- Need to post Chlorine gas use by the fence.

NOTE: For Chemical Monitoring, please call DEP.

DOCUMENT NUMBER-DATE

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

08970 JUL 11 5

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Page Two

Crescent West S/D--3354690

1. MOR reporting-- The number of service connections is not being reported.
2. Well vent needed a screen.
3. Chlorine room needed a cross-ventilation.

NOTE: For Chemical Monitoring, please call DEP.

Highland Point--3354652

1. MOR reporting--The number of service connections is not being reported.

NOTE: The system is off-line at the time of visit.

Lake Crescent Hills--3354883

1. Clean Algal growth in the pump head bowl.
2. There was no auxiliary generator plan on-site. The generator was not tested at the time of visit, Mr. Zusi did not have the key to operate the generator.
3. MOR reporting--The number of service connections is not being reported.

NOTE: For Chemical Monitoring, please call DEP.

Oranges S/D, The--3354685

1. MOR reporting-- The number of service connections is not being reported.
2. Need a screen on well vent.

NOTE: For Chemical Monitoring, please call DEP.

Vistas S/D, The--3354773

1. MOR reporting--The number of service connections is not being reported.
2. Need a screen on well vent.
3. The screen on the air release valve was torn.

NOTE: For Chemical Monitoring, please call DEP.

Clermont #1/FourWinds--3351582

1. MOR reporting--The number of service connections is not being reported/updated.
2. Chlorine line was broken at the time of visit. The line was being fixed during the inspection.
3. The escape hatch was rusted.

NOTE: For Chemical Monitoring, please call DEP.

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Amberhill S/D--3354648

1. MOR reporting--The number of service connections is not being reported/updated.
2. Clean Algal growth in the pump head bowl.
3. Need a cross ventilation in the Chlorine room.
4. Provide adequate air-pak.

NOTE:For Chemical Monitoring, please call DEP.

Lake Ridge Club--3354884

1. MOR reporting--The number of service connections is not being reported.
2. No physical deficiencies noted at the time of visit.

NOTE:For Chemical Monitoring, please call DEP.

Four Lakes & Harbor Oaks--3354647

1. MOR reporting-- The number of service connections are not being reported.
2. No physical deficiencies noted at the time of visit.

NOTE:For Chemical Monitoring, please call DEP.

Clermont #2/ Carr Water System--3350153

1. MOR reporting-- The number of service connections are not being reported/updated.
2. Check pin hole leaks on the pressure tank.

NOTE:For Chemical Monitoring, please call DEP.

The Department values your continued cooperation in operating and maintaining your water system, and appreciates the assistance provided during the sanitary survey.

If you have any questions concerning this letter, please contact me at the above address or by phone at (407) 893-3319.

Sincerely,

Roberto C. Ansag
Roberto C. Ansag, Supervisor
Drinking Water Compliance/Enforcement

cc: Lake County Public Health Unit
Lee Munroe, PSC (via fax)

State of Florida
 Department of Environmental Protection
 Central District
SANITARY SURVEY REPORT

Plant Name HIGHLAND POINT County Lake PWS ID # 3354652
 Plant Location Bronson Rd. Off S.R. 561 South, Clermont Phone 407/869-1919
 Owner Name Utilities, Inc. of Florida Phone 407/869-1919
 Owner Address 200 Weathersfield Ave., Altamonte Springs, Fl 32714
 Contact Person David Zusi Title Reg. Ops. Mgr. Phone 407/869-1919
 This Survey Date 10/22/96 Last Survey Date 3/3/93 Last C.I. Date 10/11/95

PWS TYPE & CLASS

- Community
 Non-transient Non-community
 Non-Community

PWS STATUS

- Approved system with approval number & date
WC35- 2102, 2/5/87
 Unapproved system

SERVICE AREA CHARACTERISTICS

Residential S/D
 Food Service: Yes No N/A

OPERATION & MAINTENANCE

Certified Operator: Yes No Not required
 Operator(s) & Certification Class-Number
Jay Aldrich "C"-6368

O & M Log: Yes No Not required

Operator Visitation Frequency
 Hrs/day: Required N/A Actual N/A
 Days/wk: Required 6 Actual 6
 Non-consecutive Days? Yes No N/A
 MORs submitted regularly? Yes No N/A
 Data missing from MORs? No Yes N/A

Number of Service Connections Unk
 Population Served Unk Basis Unk
 Average Day (from MORs) 135,903 gpd
 Max. Day (from MORs) 358,000 gpd
 Max-day Design Capacity 432,000 gpd
 Comments _____

COMET: SITE ID _____ PROJECT ID 100207

RAW WATER SOURCE

- GROUND; Number of Wells 1
 SURFACE/UDI; Source _____
 PURCHASED from PWS ID # _____
 Emergency Water Source Lk crescent Hills **
 Emergency Water Capacity _____

AUXILIARY POWER SOURCE

- Yes None Not Required
 Source _____
 Capacity of Standby (kW) _____
 Switchover: Automatic Manual
 Standby Plan: Yes No
 Hrs Operated Under Load _____
 What equipment does it operate?
 Well pumps _____
 High Service Pumps _____
 Treatment Equipment _____
 Satisfy 1/2 max-day demand? Yes No Unk
 Comments _____

TREATMENT PROCESSES IN USE

Chlorination
 What additional treatment is needed?
 For control of what deficiencies?

DISTRIBUTION SYSTEM

Flow Measuring Device Flow Meter
 Meter Size & Type 3" Hersey
 Backflow Prevention Devices: Yes No
 Cross-connections None Observed
 Written Cross-connection Control Program: Yes
 Coliform Sampling Plan: Yes No N/A
 Comments **Crescent Bay, Crescent West

GROUND WATER SOURCE

Well Number	1			
Year Drilled	1986			
Depth Drilled	520'			
Drilling Method	Rotary			
Type of Grout	Unk			
Static Water Level	32'			
Pumping Water Level	--			
Design Well Yield	--			
Test Yield	--			
Actual Yield (if different than rated capacity)	--			
Strainer	Unk			
Length (outside casing)	71'			
Diameter (outside casing)	10"			
Material (outside casing)	Blk. Iron			
Well Contamination History	Unk			
Is inundation of well possible?	No			
6' X 6' X 4" Concrete Pad	Yes			
SET BACKS	Septic Tank	>200'		
	Reuse Water	--		
	WW Plumbing	>200'		
	Other Sanitary Hazard	--		
PUMP	Type	V.T.		
	Manufacturer Name	Goulds		
	Model Number	10DHL-7		
	Rated Capacity (gpm)	600		
	Motor Horsepower	60		
Well casing 12" above grade?	Yes			
Well Casing Sanitary Seal	Yes			
Raw Water Sampling Tap	Yes			
Above Ground Check Valve	Yes			
Fence/Housing	Yes			
Well Vent Protection	None			

COMMENTS _____

CHLORINATION (Disinfection)

Type: Gas Hypo
 Make _____ Capacity _____ gpd
 Chlorine Feed Rate _____
 Avg. Amount of Cl₂ gas used _____ N/A
 Chlorine Residuals: Plant _____ Remote _____
 Remote tap location _____
 DPD Test Kit: On-site With operator
 None Not Used Daily
 Injection Points _____
 Booster Pump Info _____
 Comments _____

STORAGE FACILITIES

(G) Ground (H) Hydropneumatic (E) Elevated
 (B) Bladder (C) Clearwell

Tank Type/Number	H/1		
Capacity (gal)	5,000		
Material	Steel		
Gravity Drain	Yes		
By-pass Piping	Yes		
Pressure Gauge	Yes		
Sight Glass or Level Indicator	Yes		
Fittings for Sight Glass	N/A		
Protected Openings	Yes		
PRV/ARV	ARV		
On/Off Pressure	38/55		
Access Padlocked			
Height to Bottom of Elevated Tank	N/A		
Height to Max. Water Level	N/A		

Chlorine Gas Use Requirements	YES	NO	Comments
Dual System	<input type="checkbox"/>	<input type="checkbox"/>	
Auto-switchover	<input type="checkbox"/>	<input type="checkbox"/>	
Alarms:			
Loss of Cl ₂ capability	<input type="checkbox"/>	<input type="checkbox"/>	
Loss of Cl ₂ residual	<input type="checkbox"/>	<input type="checkbox"/>	
Cl ₂ leak detection	<input type="checkbox"/>	<input type="checkbox"/>	
Scale	<input type="checkbox"/>	<input type="checkbox"/>	
Chained Cylinders	<input type="checkbox"/>	<input type="checkbox"/>	
Reserve Supply	<input type="checkbox"/>	<input type="checkbox"/>	
Adequate Air-pak	<input type="checkbox"/>	<input type="checkbox"/>	
Sign of Leaks	<input type="checkbox"/>	<input type="checkbox"/>	
Fresh Ammonia	<input type="checkbox"/>	<input type="checkbox"/>	
Ventilation	<input type="checkbox"/>	<input type="checkbox"/>	
Room Lighting	<input type="checkbox"/>	<input type="checkbox"/>	
Warning Signs	<input type="checkbox"/>	<input type="checkbox"/>	
Repair Kits	<input type="checkbox"/>	<input type="checkbox"/>	
Fitted Wrench	<input type="checkbox"/>	<input type="checkbox"/>	
Housing/Protection	<input type="checkbox"/>	<input type="checkbox"/>	

Comments Did not inspect. the plant. Well was off line.

HIGH SERVICE PUMPS

Pump Number			
Type			
Make			
Model			
Capacity (gpm)			
Motor HP			
Date Installed			
Maintenance			

Comments _____

AERATION (Gases, Fe, & Mn Removal)

Type _____ Capacity _____
 Aerator Condition _____
 Bloodworm Presence _____
 Visible Algae Growth _____
 Protective Screen Condition _____
 Comments Well is off line. Water was being provided by the other three systems.

PWS ID # 3354652Date 10/22/96

**COMPLIANCE MONITORING
COMMUNITY PUBLIC WATER SYSTEMS**

CONTAMINANT	PWS Screen	# Samples Required	Sampling Location	C > 3300			C ≤ 3300		
				Frequency	Sample Date	Due Date	Frequency	Sample Date	Due Date
Microbiological (Bacte)	024	1	Each well	monthly			monthly	9/96	Monthly
		2	Distribution						
Volatile Organics	028	<i>(Note A)</i>	<i>(Note H)</i>	<i>(Notes A, 1)</i>			<i>(Notes A, 2)</i>	8/31/95	1997
Pesticides & PCBs	029	<i>(Notes B, E)</i>	<i>(Note H)</i>	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	2/21/91	1997
Nitrate & Nitrite (as N)	030	1	POE	annually			annually	8/31/95	1996
Inorganics	030	1	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	8/16/94	1997
Asbestos	030	1 <i>(Note F)</i>	Distribution	9 years <i>(Note 7)</i>			9 years <i>(Note 8)</i>	12/23/93	waiver 12/31/01
Secondaries	031	1	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	10/3/94	1997
Radionuclides	033	<i>(Note C)</i>	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	8/16/94	1997
Group I UOCs	035	<i>(Notes B, E, G)</i>	POE	<i>(Note 4)</i>			<i>(Note 5)</i>	12/14/93	waiver
Group II UOCs	034	1 <i>(Notes E, G)</i>	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	12/14/93	waiver
Group III UOCs	036, 037	1 <i>(Note G)</i>	POE	<i>(Note 4)</i>			<i>(Note 5)</i>	12/14/93	waiver
Lead and Copper	047	<i>(Note D)</i>	---	---			---	9/95	1996
TTHM (≥ 10,000 persons)	027	4/plant	Distribution	Quarterly			N/A	N/A	N/A

POE = Point of Entry (Samples shall be taken at each entry point to the distribution system that is representative of each source after treatment.)

See Page 5 for description of italicized notes.

NOTES:

SAMPLES REQUIRED/SAMPLING LOCATION:

Note A See Rule 62-550.515(1), F.A.C. Each system shall take four consecutive quarterly samples during its assigned year in the system's first compliance period. If no contaminant is detected, the system shall monitor annually during the next three-year compliance period. If still no contaminants are detected, systems shall take one sample during each subsequent three-year compliance period.

If the initial monitoring for contaminants listed in Rule 62-550.310(2)(b), F.A.C., was completed prior to December 31, 1992, then each system shall take one sample annually beginning January 1, 1993.

Note B 4 consecutive quarterly samples. Credit will be given for samples taken before January 1, 1993.

Note C See Rule 62-550.519, F.A.C. Compliance shall be based on the average of analyses of four consecutive quarterly samples. A maximum of two quarterly samples may be composited. Subsequent samples shall be collected once every three years.

Note D Contact the Central District's Drinking Water Program at (407) 894-7555 or contact the Florida Rural Water Association.

Note E Contact Ms. Marie Carrasquillo of the Central District's Drinking Water Program at (407) 894-7555, extension 2242, to obtain an application for reduced monitoring.

Note F See Rule 62-550.511(4), F.A.C. A system without asbestos-containing components shall certify to the Department in writing, using DEP Form No. 62-555.910(10), that it is asbestos free. Certification shall satisfy subsections (1), (2), and (3) of the referenced rule, and shall be submitted each nine-year compliance cycle during the specified year the system is required to monitor.

Note G See Rule 62-550.521(4), F.A.C. Systems serving less than 150 service connections and serving fewer than 350 persons should notify the Department, by submitting DEP Form No. 62-555.910(11), that their system is available for testing. Normally, these small systems will not be required to monitor for UOCs. Do not send such samples to the Department unless required to do so by the Department.

Note H First quarter samples shall be representative of each well. Subsequent samples shall be taken at each entry point to the distribution system that is representative of each source after treatment.

FREQUENCY:

Note 1 First year of each three-year compliance period (calendar years 1993, 1996, 1999, etc.)

Note 2 Second year of each three-year compliance period (calendar years 1994, 1997, 2000, etc.)

Note 3 Third year of each three-year compliance period (calendar years 1995, 1998, 2001, etc.)

Note 4 First year of the first three-year compliance period (i.e. calendar year 1993)

Note 5 Second year of the first three-year compliance period (i.e. calendar year 1994)

Note 6 Third year of the first three-year compliance period (i.e. calendar year 1995)

Note 7 First year of each nine-year compliance cycle (calendar years 1993, 2002, etc.)

Note 8 Second year of each nine-year compliance cycle (calendar years 1994, 2003, etc.)

Note 9 Third year of each nine-year compliance cycle (calendar years 1995, 2004, etc.)

MONITORING VIOLATIONS	MCL VIOLATIONS

DEFICIENCIES:

1. MOR reporting- Number of service connection is not being reported.

NOTE: Plant was off line at the time of visit.

Inspector Roberto C. Arroyo Title Env. Supervisor II Date 10/22/96
Approved by _____ Title _____ Date _____

State of Florida
 Department of Environmental Protection
 Central District
SANITARY SURVEY REPORT

Plant Name CRESCENT WEST S/D County Lake PWS ID # 3354690
 Plant Location South Lakeshore Dr., Clermont, FL 32711 Phone 407/869-1919
 Owner Name Utilities, Inc. of Florida Phone 407/869-1919
 Owner Address 200 Weathersfield Ave. Altamonte Springs, FL 32714
 Contact Person David Zusi Title Reg. Ops. Mgr. Phone 407/869-1919
 This Survey Date 10/22/96 Last Survey Date 3/3/93 Last C.I. Date 10/11/95

PWS TYPE & CLASS

- Community
- Non-transient Non-community
- Non-Community

PWS STATUS

- Approved system with approval number & date
WC35-2112, 3/16/88
WD35- 188270, 11/21/90
- Unapproved system

SERVICE AREA CHARACTERISTICS

Residential S/D
5C
 Food Service: Yes No N/A

OPERATION & MAINTENANCE

Certified Operator: Yes No Not required
 Operator(s) & Certification Class-Number
Jay Aldrich "C"- 6368

O & M Log: Yes No Not required

Operator Visitation Frequency
 Hrs/day: Required N/A Actual N/A
 Days/wk: Required 6 Actual 6

Non-consecutive Days? Yes No N/A
 MORs submitted regularly? Yes No N/A
 Data missing from MORs? No Yes N/A
 Number of service connection.

Number of Service Connections Unk
 Population Served Unk Basis _____
 Average Day (from MORs) 207,000 gpd
 Max. Day (from MORs) 405,000 gpd
 Max-day Design Capacity 432,000 gpd
 Comments _____

COMET: SITE ID _____ PROJECT ID 100205

RAW WATER SOURCE

- GROUND; Number of Wells 1
- SURFACE/UDI; Source _____
- PURCHASED from PWS ID # _____
- Emergency Water Source Lk.Crescent Hills
 Emergency Water Capacity 432,000 gpd ***

AUXILIARY POWER SOURCE

- Yes None Not Required
- Source _____
- Capacity of Standby (kW) _____
- Switchover: Automatic Manual
- Standby Plan: Yes No
- Hrs Operated Under Load _____
- What equipment does it operate?
 Well pumps _____
 High Service Pumps _____
 Treatment Equipment _____
- Satisfy 1/2 max-day demand? Yes No Unk
- Comments ***-This system is interconnected with
three other systems.Lk. Crescent Hills,Crescent Bay.

TREATMENT PROCESSES IN USE

Chlorination
 What additional treatment is needed?

 For control of what deficiencies?

DISTRIBUTION SYSTEM

Flow Measuring Device Flow Meter
 Meter Size & Type 3" Hersey
 Backflow Prevention Devices: Yes No
 Cross-connections None Observed
 Written Cross-connection Control Program: Yes
 Coliform Sampling Plan: Yes No N/A
 Comments ***-Highland Point

GROUND WATER SOURCE

Well Number	1			
Year Drilled	1987			
Depth Drilled	400'			
Drilling Method	Cable Tool			
Type of Grout	Unk			
Static Water Level	50'			
Pumping Water Level	--			
Design Well Yield	--			
Test Yield	--			
Actual Yield (if different than rated capacity)	--			
Strainer	Unk			
Length (outside casing)	105'			
Diameter (outside casing)	10"			
Material (outside casing)	Blk. Iron			
Well Contamination History	Unk			
Is inundation of well possible?	No			
6' X 6' X 4" Concrete Pad	Yes			
SET BACKS	Septic Tank	>200'		
	Reuse Water	--		
	WW Plumbing	>200'		
	Other Sanitary Hazard	--		
PUMP	Type	V.T.		
	Manufacturer Name	Goulds		
	Model Number	8JH0-3		
	Rated Capacity (gpm)	600		
	Motor Horsepower	50		
Well casing 12" above grade?	Yes			
Well Casing Sanitary Seal	Ok			
Raw Water Sampling Tap	Yes			
Above Ground Check Valve	Yes			
Fence/Housing	Yes			
Well Vent Protection	None			

COMMENTS _____

CHLORINATION (Disinfection)

Type: Gas Hypo
 Make W & T Capacity 150 gpd
 Chlorine Feed Rate 2 lbs./day
 Avg. Amount of Cl₂ gas used unk
 Chlorine Residuals: Plant 1.8 Remote 1.5
 Remote tap location _____
 DPD Test Kit: On-site With operator
 None Not Used Daily
 Injection Points _____
 Booster Pump Info Goulds 3/4 Hp
 Comments _____

STORAGE FACILITIES

(G) Ground (H) Hydropneumatic (E) Elevated
 (B) Bladder (C) Clearwell

Tank Type/Number	H/1		
Capacity (gal)	10,000		
Material	Steel		
Gravity Drain	Yes		
By-pass Piping	Yes		
Pressure Gauge	Yes		
Sight Glass or Level Indicator	Yes		
Fittings for Sight Glass	N/A		
Protected Openings	Yes		
PRV/ARV	ARV		
On/Off Pressure	38/55		
Access Padlocked	Yes		
Height to Bottom of Elevated Tank	--		
Height to Max. Water Level	--		

Comments _____

Chlorine Gas Use Requirements	YES	NO	Comments
Dual System	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A
Auto-switchover	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A
Alarms:			
Loss of Cl ₂ capability	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Loss of Cl ₂ residual	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Cl ₂ leak detection	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Scale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Chained Cylinders	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Reserve Supply	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Adequate Air-pak	<input checked="" type="checkbox"/>	<input type="checkbox"/>	w/ operator
Sign of Leaks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Fresh Ammonia	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Ventilation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	need cross vent
Room Lighting	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Warning Signs	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Repair Kits	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Fitted Wrench	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Housing/Protection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

AERATION (Gases, Fe, & Mn Removal)

Type N/A Capacity _____
 Aerator Condition _____
 Bloodworm Presence _____
 Visible Algae Growth _____
 Protective Screen Condition _____
 Comments _____

HIGH SERVICE PUMPS

Pump Number			
Type			
Make			
Model			
Capacity (gpm)			
Motor HP			
Date Installed			
Maintenance			

Comments _____

PWS ID # 3354690Date 10/22/96

**COMPLIANCE MONITORING
COMMUNITY PUBLIC WATER SYSTEMS**

CONTAMINANT	PWS Screen	# Samples Required	Sampling Location	C > 3300			C ≤ 3300		
				Frequency	Sample Date	Due Date	Frequency	Sample Date	Due Date
Microbiological (Bacte)	024	1	Each well	monthly			monthly	9/96	Monthly
		2	Distribution						
Volatile Organics	028	<i>(Note A)</i>	<i>(Note H)</i>	<i>(Notes A, 1)</i>			<i>(Notes A, 2)</i>	8/31/95	1997
Pesticides & PCBs	029	<i>(Notes B, E)</i>	<i>(Note H)</i>	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	10/30/90	1997
Nitrate & Nitrite (as N)	030	1	POE	annually			annually	8/31/95	1996
Inorganics	030	1	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	8/6/94	1997
Asbestos	030	1 <i>(Note F)</i>	Distribution	9 years <i>(Note 7)</i>			9 years <i>(Note 8)</i>	12/23/93	waiver 12/31/01
Secondaries	031	1	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	10/3/94	1997
Radionuclides	033	<i>(Note C)</i>	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	8/16/94	1997
Group I UOCs	035	<i>(Notes B, E, G)</i>	POE	<i>(Note 4)</i>			<i>(Note 5)</i>	12/14/93	waiver
Group II UOCs	034	1 <i>(Notes E, G)</i>	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	12/14/93	waiver
Group III UOCs	036, 037	1 <i>(Note G)</i>	POE	<i>(Note 4)</i>			<i>(Note 5)</i>	12/14/93	waiver
Lead and Copper	047	<i>(Note D)</i>	---	---			---	1995	9/96
TTHM (≥ 10,000 persons)	027	4/plant	Distribution	Quarterly			N/A	N/A	N/A

POE = Point of Entry (Samples shall be taken at each entry point to the distribution system that is representative of each source after treatment.)

See Page 5 for description of italicized notes.

NOTES:

SAMPLES REQUIRED/SAMPLING LOCATION:

Note A See Rule 62-550.515(1), F.A.C. Each system shall take four consecutive quarterly samples during its assigned year in the system's first compliance period. If no contaminant is detected, the system shall monitor annually during the next three-year compliance period. If still no contaminants are detected, systems shall take one sample during each subsequent three-year compliance period.

If the initial monitoring for contaminants listed in Rule 62-550.310(2)(b), F.A.C., was completed prior to December 31, 1992, then each system shall take one sample annually beginning January 1, 1993.

Note B 4 consecutive quarterly samples. Credit will be given for samples taken before January 1, 1993.

Note C See Rule 62-550.519, F.A.C. Compliance shall be based on the average of analyses of four consecutive quarterly samples. A maximum of two quarterly samples may be composited. Subsequent samples shall be collected once every three years.

Note D Contact the Central District's Drinking Water Program at (407) 894-7555 or contact the Florida Rural Water Association.

Note E Contact Ms. Marie Carrasquillo of the Central District's Drinking Water Program at (407) 894-7555, extension 2242, to obtain an application for reduced monitoring.

Note F See Rule 62-550.511(4), F.A.C. A system without asbestos-containing components shall certify to the Department in writing, using DEP Form No. 62-555.910(10), that it is asbestos free. Certification shall satisfy subsections (1), (2), and (3) of the referenced rule, and shall be submitted each nine-year compliance cycle during the specified year the system is required to monitor.

Note G See Rule 62-550.521(4), F.A.C. Systems serving less than 150 service connections and serving fewer than 350 persons should notify the Department, by submitting DEP Form No. 62-555.910(11), that their system is available for testing. Normally, these small systems will not be required to monitor for UOCs. Do not send such samples to the Department unless required to do so by the Department.

Note H First quarter samples shall be representative of each well. Subsequent samples shall be taken at each entry point to the distribution system that is representative of each source after treatment.

FREQUENCY:

Note 1 First year of each three-year compliance period (calendar years 1993, 1996, 1999, etc.)

Note 2 Second year of each three-year compliance period (calendar years 1994, 1997, 2000, etc.)

Note 3 Third year of each three-year compliance period (calendar years 1995, 1998, 2001, etc.)

Note 4 First year of the first three-year compliance period (i.e. calendar year 1993)

Note 5 Second year of the first three-year compliance period (i.e. calendar year 1994)

Note 6 Third year of the first three-year compliance period (i.e. calendar year 1995)

Note 7 First year of each nine-year compliance cycle (calendar years 1993, 2002, etc.)

Note 8 Second year of each nine-year compliance cycle (calendar years 1994, 2003, etc.)

Note 9 Third year of each nine-year compliance cycle (calendar years 1995, 2004, etc.)

MONITORING VIOLATIONS	MCL VIOLATIONS

DEFICIENCIES:

1. Need well vent screen.
2. Data reporting on the MOR(service connection).
3. Need a cross ventilation in the chlorine room.
4. Need warning signs for gas chlorine use.
5. Need a loss of chlorination alarm.

Inspector Roberto C. Amey Title Env. Supervisor II Date 10/22/96

State of Florida
 Department of Environmental Protection
 Central District
SANITARY SURVEY REPORT

Plant Name ORANGES S/D, THE County Lake PWS ID # 3354685
 Plant Location Lake Louisa Rd., Clermont, FL 32711 Phone 407/869-1919
 Owner Name Utilities Inc. of Florida Phone 407/8691919
 Owner Address 200 Weathersfield Ave., Altamonte Springs, FL 32714
 Contact Person David Zusi Title Reg. Ops. Mgr. Phone 407/8691919
 This Survey Date 10/22/96 Last Survey Date 3/3/93 Last C.I. Date 10/6/95

PWS TYPE & CLASS

- Community
 Non-transient Non-community
 Non-Community

PWS STATUS

- Approved system with approval number & date
WC35-2106,-7/7/87
 Unapproved system

SERVICE AREA CHARACTERISTICS

Residential S/D
5C
 Food Service: Yes No N/A

OPERATION & MAINTENANCE

Certified Operator: Yes No Not required
 Operator(s) & Certification Class-Number
Jay Aldrich "C"-6368

O & M Log: Yes No Not required
 Operator Visitation Frequency
 Hrs/day: Required N/A Actual N/A
 Days/wk: Required 6 Actual 6
 Non-consecutive Days? Yes No N/A
 MORs submitted regularly? Yes No N/A
 Data missing from MORs? No Yes N/A
Number of service connection.

Number of Service Connections Unk
 Population Served Unk Basis _____
 Average Day (from MORs) 137,000 gpd
 Max. Day (from MORs) 224,000 gpd
 Max-day Design Capacity 396,000 gpd
 Comments _____

COMET: SITE ID _____ PROJECT ID 100204

RAW WATER SOURCE

- GROUND; Number of Wells 1
 SURFACE/UDI; Source _____
 PURCHASED from PWS ID # _____
 Emergency Water Source Vistas S/D
 Emergency Water Capacity _____

AUXILIARY POWER SOURCE

- Yes None Not Required
 Source _____
 Capacity of Standby (kW) _____
 Switchover: Automatic Manual
 Standby Plan: Yes No
 Hrs Operated Under Load _____
 What equipment does it operate?
 Well pumps _____
 High Service Pumps _____
 Treatment Equipment _____
 Satisfy 1/2 max-day demand? Yes No Unk
 Comments _____

TREATMENT PROCESSES IN USE

Chlorination
 What additional treatment is needed?
 For control of what deficiencies?

DISTRIBUTION SYSTEM

Flow Measuring Device Flow Meter
 Meter Size & Type 3" Hersey
 Backflow Prevention Devices: Yes No
 Cross-connections None Observed
 Written Cross-connection Control Program: Yes
 Coliform Sampling Plan: Yes No N/A
 Comments _____

GROUND WATER SOURCE

Well Number	1			
Year Drilled	1986			
Depth Drilled	392'			
Drilling Method	combo			
Type of Grout	Unk			
Static Water Level	59'			
Pumping Water Level	--			
Design Well Yield	--			
Test Yield	--			
Actual Yield (if different than rated capacity)	--			
Strainer	Unk			
Length (outside casing)	237'			
Diameter (outside casing)	10"			
Material (outside casing)	Blk Iron			
Well Contamination History	Unk			
Is inundation of well possible?	No			
6' X 6' X 4" Concrete Pad	Yes			
SET BACKS	Septic Tank	>200'		
	Reuse Water	--		
	WW Plumbing	>200'		
	Other Sanitary Hazard	--		
PUMP	Type	V.T.		
	Manufacturer Name	Berkley		
	Model Number	6-16		
	Rated Capacity (gpm)	550		
	Motor Horsepower	40		
Well casing 12" above grade?	Yes			
Well Casing Sanitary Seal	Ok			
Raw Water Sampling Tap	Yes			
Above Ground Check Valve	Yes			
Fence/Housing	Yes			
Well Vent Protection	no screen			

COMMENTS _____

CHLORINATION (Disinfection)

Type: Gas Hypo
 Make Regal Capacity 150 gpd
 Chlorine Feed Rate Unk
 Avg. Amount of Cl₂ gas used unk
 Chlorine Residuals: Plant 1.6 Remote 1.3
 Remote tap location _____
 DPD Test Kit: On-site With operator
 None Not Used Daily
 Injection Points _____
 Booster Pump Info _____
 Comments _____

Chlorine Gas Use Requirements	YES	NO	Comments
Dual System	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Auto-switchover	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Alarms:			
Loss of Cl ₂ capability	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Loss of Cl ₂ residual	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Cl ₂ leak detection	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Scale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Chained Cylinders	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Reserve Supply	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Adequate Air-pak	<input checked="" type="checkbox"/>	<input type="checkbox"/>	w/operator
Sign of Leaks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Fresh Ammonia	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Ventilation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Room Lighting	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Warning Signs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Repair Kits	<input type="checkbox"/>	<input checked="" type="checkbox"/>	fresh lead wash
Fitted Wrench	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Housing/Protection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

STORAGE FACILITIES

(G) Ground (H) Hydropneumatic (E) Elevated
 (B) Bladder (C) Clearwell

Tank Type/Number	H/1		
Capacity (gal)	5,000		
Material	Steel		
Gravity Drain	Yes		
By-pass Piping	Yes		
Pressure Gauge	Yes		
Sight Glass or Level Indicator	Yes		
Fittings for Sight Glass	N/A		
Protected Openings	Yes		
PRV/ARV	ARV		
On/Off Pressure	38/58		
Access Padlocked	Yes		
Height to Bottom of Elevated Tank	N/A		
Height to Max. Water Level	N/A		

Comments _____

HIGH SERVICE PUMPS

Pump Number			
Type			
Make			
Model			
Capacity (gpm)			
Motor HP			
Date Installed			
Maintenance			

Comments _____

AERATION (Gases, Fe, & Mn Removal)

Type N/A Capacity _____
 Aerator Condition _____
 Bloodworm Presence _____
 Visible Algae Growth _____
 Protective Screen Condition _____
 Comments _____

PWS ID # 3354685

Date 10/22/96

COMPLIANCE MONITORING COMMUNITY PUBLIC WATER SYSTEMS

CONTAMINANT	PWS Screen	# Samples Required	Sampling Location	C > 3300			C ≤ 3300		
				Frequency	Sample Date	Due Date	Frequency	Sample Date	Due Date
Microbiological (Bacte)	024	1	Each well	monthly			monthly	9/96	Monthly
		2	Distribution						
Volatile Organics	028	<i>(Note A)</i>	<i>(Note H)</i>	<i>(Notes A, 1)</i>			<i>(Notes A, 2)</i>	8/31/95	1997
Pesticides & PCBs	029	<i>(Notes B, E)</i>	<i>(Note H)</i>	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	4/22/92	1997
Nitrate & Nitrite (as N)	030	1	POE	annually			annually	8/31/95	1996
Inorganics	030	1	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	8/16/94	1997
Asbestos	030	1 <i>(Note F)</i>	Distribution	9 years <i>(Note 7)</i>			9 years <i>(Note 8)</i>	12/23/93	waiver 12/31/01
Secondaries	031	1	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	10/3/94	1997
Radionuclides	033	<i>(Note C)</i>	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	8/16/94	1997
Group I UOCs	035	<i>(Notes B, E, G)</i>	POE	<i>(Note 4)</i>			<i>(Note 5)</i>	12/14/93	waiver
Group II UOCs	034	1 <i>(Notes E, G)</i>	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	12/14/93	waiver,
Group III UOCs	036, 037	1 <i>(Note G)</i>	POE	<i>(Note 4)</i>			<i>(Note 5)</i>	12/14/93	waiver
Lead and Copper	047	<i>(Note D)</i>	---	---			---	9/95	1996
TTHM (≥ 10,000 persons)	027	4/plant	Distribution	Quarterly			N/A	N/A	N/A

POE = Point of Entry (Samples shall be taken at each entry point to the distribution system that is representative of each source after treatment.)

See Page 5 for description of italicized notes.

NOTES:

SAMPLES REQUIRED/SAMPLING LOCATION:

Note A See Rule 62-550.515(1), F.A.C. Each system shall take four consecutive quarterly samples during its assigned year in the system's first compliance period. If no contaminant is detected, the system shall monitor annually during the next three-year compliance period. If still no contaminants are detected, systems shall take one sample during each subsequent three-year compliance period.

If the initial monitoring for contaminants listed in Rule 62-550.310(2)(b), F.A.C., was completed prior to December 31, 1992, then each system shall take one sample annually beginning January 1, 1993.

Note B 4 consecutive quarterly samples. Credit will be given for samples taken before January 1, 1993.

Note C See Rule 62-550.519, F.A.C. Compliance shall be based on the average of analyses of four consecutive quarterly samples. A maximum of two quarterly samples may be composited. Subsequent samples shall be collected once every three years.

Note D Contact the Central District's Drinking Water Program at (407) 894-7555 or contact the Florida Rural Water Association.

Note E Contact Ms. Marie Carrasquillo of the Central District's Drinking Water Program at (407) 894-7555, extension 2242, to obtain an application for reduced monitoring.

Note F See Rule 62-550.511(4), F.A.C. A system without asbestos-containing components shall certify to the Department in writing, using DEP Form No. 62-555.910(10), that it is asbestos free. Certification shall satisfy subsections (1), (2), and (3) of the referenced rule, and shall be submitted each nine-year compliance cycle during the specified year the system is required to monitor.

Note G See Rule 62-550.521(4), F.A.C. Systems serving less than 150 service connections and serving fewer than 350 persons should notify the Department, by submitting DEP Form No. 62-555.910(11), that their system is available for testing. Normally, these small systems will not be required to monitor for UOCs. Do not send such samples to the Department unless required to do so by the Department.

Note H First quarter samples shall be representative of each well. Subsequent samples shall be taken at each entry point to the distribution system that is representative of each source after treatment.

FREQUENCY:

Note 1 First year of each three-year compliance period (calendar years 1993, 1996, 1999, etc.)

Note 2 Second year of each three-year compliance period (calendar years 1994, 1997, 2000, etc.)

Note 3 Third year of each three-year compliance period (calendar years 1995, 1998, 2001, etc.)

Note 4 First year of the first three-year compliance period (i.e. calendar year 1993)

Note 5 Second year of the first three-year compliance period (i.e. calendar year 1994)

Note 6 Third year of the first three-year compliance period (i.e. calendar year 1995)

Note 7 First year of each nine-year compliance cycle (calendar years 1993, 2002, etc.)

Note 8 Second year of each nine-year compliance cycle (calendar years 1994, 2003, etc.)

Note 9 Third year of each nine-year compliance cycle (calendar years 1995, 2004, etc.)

MONITORING VIOLATIONS	MCL VIOLATIONS

DEFICIENCIES:

1. MOR reporting--The number of the service connections is not being reported.
2. Need a screen on the well vent.

Inspector Roberto C. Araya Title Env. Supervisor II Date 10/22/96

Approved by _____ Title _____ Date _____

State of Florida
 Department of Environmental Protection
 Central District
SANITARY SURVEY REPORT

Plant Name VISTAS S/D, THE County Lake PWS ID # 3354773
 Plant Location US Highway 27, Clermont Phone 407/869-1919
 Owner Name Utilities Inc., Florida Phone 407/869-1919
 Owner Address 200 Weathersfield Ave. Altamonte Springs, FL 32714
 Contact Person David Zusi Title Reg. Ops. Mgr. Phone 407/869-1919
 This Survey Date 10/22/96 Last Survey Date 3/3/93 Last C.I. Date 10/6/95

PWS TYPE & CLASS

- Community
 Non-transient Non-community
 Non-Community

PWS STATUS

- Approved system with approval number & date
WC35-1596009, 5/30/89
 Unapproved system

SERVICE AREA CHARACTERISTICS

Residential S/D
5C
 Food Service: Yes No N/A

OPERATION & MAINTENANCE

Certified Operator: Yes No Not required
 Operator(s) & Certification Class-Number
Jay Aldrich "C"-6368

O & M Log: Yes No Not required
 Operator Visitation Frequency
 Hrs/day: Required N/A Actual N/A
 Days/wk: Required 6 Actual 6
 Non-consecutive Days? Yes No N/A
 MORs submitted regularly? Yes No N/A
 Data missing from MORs? No Yes N/A
Number of service connections missing.

Number of Service Connections Unk
 Population Served Unk Basis Unk
 Average Day (from MORs) 39,322 gpd
 Max. Day (from MORs) 156,000 gpd
 Max-day Design Capacity 720,000 gpd
 Comments _____

COMET: SITE ID _____ PROJECT ID 100203

RAW WATER SOURCE

- GROUND; Number of Wells 1
 SURFACE/UDI; Source _____
 PURCHASED from PWS ID # _____
 Emergency Water Source Oranges S/D
 Emergency Water Capacity _____

AUXILIARY POWER SOURCE

- Yes None Not Required
 Source _____
 Capacity of Standby (kW) _____
 Switchover: Automatic Manual
 Standby Plan: Yes No
 Hrs Operated Under Load _____
 What equipment does it operate?
 Well pumps _____
 High Service Pumps _____
 Treatment Equipment _____
 Satisfy 1/2 max-day demand? Yes No Unk
 Comments _____

TREATMENT PROCESSES IN USE

Chlorination
 What additional treatment is needed?
 For control of what deficiencies?

DISTRIBUTION SYSTEM

Flow Measuring Device Flow Meter
 Meter Size & Type 3" Hersey
 Backflow Prevention Devices: Yes No
 Cross-connections None Observed
 Written Cross-connection Control Program: Yes
 Coliform Sampling Plan: Yes No N/A
 Comments _____

GROUND WATER SOURCE

Well Number	1			
Year Drilled	1988			
Depth Drilled	346'			
Drilling Method	Rotary			
Type of Grout	Unk			
Static Water Level	100'			
Pumping Water Level	--			
Design Well Yield	--			
Test Yield	--			
Actual Yield (if different than rated capacity)	--			
Strainer	Unk			
Length (outside casing)	103'			
Diameter (outside casing)	10"			
Material (outside casing)	Blk Iron			
Well Contamination History	Unk			
Is inundation of well possible?	No			
6' X 6' X 4" Concrete Pad	Yes			
SET BACKS	Septic Tank	>200'		
	Reuse Water	--		
	WW Plumbing			
	Other Sanitary Hazard	--		
PUMP	Type	V.T.		
	Manufacturer Name	Goulds		
	Model Number	10DHH0		
	Rated Capacity (gpm)	1,000		
	Motor Horsepower	100		
Well casing 12" above grade?	Yes			
Well Casing Sanitary Seal	Ok			
Raw Water Sampling Tap	Yes			
Above Ground Check Valve	Yes			
Fence/Housing	Yes			
Well Vent Protection	No screen			

COMMENTS _____

CHLORINATION (Disinfection)

Type: Gas Hypo
 Make Regal Capacity 150 gpd
 Chlorine Feed Rate Unk
 Avg. Amount of Cl₂ gas used unk
 Chlorine Residuals: Plant 1.5 Remote 1.5
 Remote tap location _____
 DPD Test Kit: On-site With operator
 None Not Used Daily
 Injection Points _____
 Booster Pump Info Goulds 1Hp
 Comments Plant is interconnected with Oranges S/D

STORAGE FACILITIES

(G) Ground (H) Hydropneumatic (E) Elevated
 (B) Bladder (C) Clearwell

Tank Type/Number	H/1		
Capacity (gal)	10,000		
Material	Steel		
Gravity Drain	Yes		
By-pass Piping	Yes		
Pressure Gauge	Yes		
Sight Glass or Level Indicator	Yes		
Fittings for Sight Glass	N/A		
Protected Openings	Yes		
PRV/ARV	ARV		
On/Off Pressure	42/50		
Access Padlocked	Yes		
Height to Bottom of Elevated Tank	N/A		
Height to Max. Water Level	N/A		

Comments The scree on the air release valve was torn, need to be replaced.

Chlorine Gas Use Requirements	YES	NO	Comments
Dual System	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Auto-switchover	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Alarms:			
Loss of Cl ₂ capability	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Loss of Cl ₂ residual	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Cl ₂ leak detection	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Scale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Chained Cylinders	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Reserve Supply	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Adequate Air-pak	<input checked="" type="checkbox"/>	<input type="checkbox"/>	w/operator
Sign of Leaks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Fresh Ammonia	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Ventilation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Room Lighting	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Warning Signs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Repair Kits	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lead wash
Fitted Wrench	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Housing/Protection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

AERATION (Gases, Fe, & Mn Removal)

Type N/A Capacity _____
 Aerator Condition _____
 Bloodworm Presence _____
 Visible Algae Growth _____
 Protective Screen Condition _____
 Comments _____

HIGH SERVICE PUMPS

Pump Number			
Type			
Make			
Model			
Capacity (gpm)			
Motor HP			
Date Installed			
Maintenance			

Comments _____

PWS ID # 3354773

Date 10/22/96

COMPLIANCE MONITORING COMMUNITY PUBLIC WATER SYSTEMS

CONTAMINANT	PWS Screen	# Samples Required	Sampling Location	C > 3300			C ≤ 3300		
				Frequency	Sample Date	Due Date	Frequency	Sample Date	Due Date
Microbiological (Bacte)	024	1	Each well	monthly			monthly	9/96	Monthly
		2	Distribution						
Volatile Organics	028	<i>(Note A)</i>	<i>(Note H)</i>	<i>(Notes A, 1)</i>			<i>(Notes A, 2)</i>	8/31/95	1997
Pesticides & PCBs	029	<i>(Notes B, E)</i>	<i>(Note H)</i>	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	5/20/92	1997
Nitrate & Nitrite (as N)	030	1	POE	annually			annually	8/31/95	1996
Inorganics	030	1	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	8/16/94	1997
Asbestos	030	1 <i>(Note F)</i>	Distribution	9 years <i>(Note 7)</i>			9 years <i>(Note 8)</i>	12/23/93	waiver 12/31/01
Secondaries	031	1	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	10/03/94	1997
Radionuclides	033	<i>(Note C)</i>	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	10/3/94	1997
Group I UOCs	035	<i>(Notes B, E, G)</i>	POE	<i>(Note 4)</i>			<i>(Note 5)</i>	12/14/93	waiver
Group II UOCs	034	1 <i>(Notes E, G)</i>	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	12/14/93	waiver
Group III UOCs	036, 037	1 <i>(Note G)</i>	POE	<i>(Note 4)</i>			<i>(Note 5)</i>	12/14/93	waiver
Lead and Copper	047	<i>(Note D)</i>	---	---			---	9/95	1996
TTHM (≥ 10,000 persons)	027	4/plant	Distribution	Quarterly			N/A	N/A	N/A

POE = Point of Entry (Samples shall be taken at each entry point to the distribution system that is representative of each source after treatment.)

See Page 5 for description of italicized notes.

NOTES:

SAMPLES REQUIRED/SAMPLING LOCATION:

Note A See Rule 62-550.515(1), F.A.C. Each system shall take four consecutive quarterly samples during its assigned year in the system's first compliance period. If no contaminant is detected, the system shall monitor annually during the next three-year compliance period. If still no contaminants are detected, systems shall take one sample during each subsequent three-year compliance period.

If the initial monitoring for contaminants listed in Rule 62-550.310(2)(b), F.A.C., was completed prior to December 31, 1992, then each system shall take one sample annually beginning January 1, 1993.

Note B 4 consecutive quarterly samples. Credit will be given for samples taken before January 1, 1993.

Note C See Rule 62-550.519, F.A.C. Compliance shall be based on the average of analyses of four consecutive quarterly samples. A maximum of two quarterly samples may be composited. Subsequent samples shall be collected once every three years.

Note D Contact the Central District's Drinking Water Program at (407) 894-7555 or contact the Florida Rural Water Association.

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Note F See Rule 62-550.511(4), F.A.C. A system without asbestos-containing components shall certify to the Department in writing, using DEP Form No. 62-555.910(10), that it is asbestos free. Certification shall satisfy subsections (1), (2), and (3) of the referenced rule, and shall be submitted each nine-year compliance cycle during the specified year the system is required to monitor.

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Note H First quarter samples shall be representative of each well. Subsequent samples shall be taken at each entry point to the distribution system that is representative of each source after treatment.

FREQUENCY:

Note 1 First year of each three-year compliance period (calendar years 1993, 1996, 1999, etc.)

Note 2 Second year of each three-year compliance period (calendar years 1994, 1997, 2000, etc.)

Note 3 Third year of each three-year compliance period (calendar years 1995, 1998, 2001, etc.)

Note 4 First year of the first three-year compliance period (i.e. calendar year 1993)

Note 5 Second year of the first three-year compliance period (i.e. calendar year 1994)

Note 6 Third year of the first three-year compliance period (i.e. calendar year 1995)

Note 7 First year of each nine-year compliance cycle (calendar years 1993, 2002, etc.)

Note 8 Second year of each nine-year compliance cycle (calendar years 1994, 2003, etc.)

Note 9 Third year of each nine-year compliance cycle (calendar years 1995, 2004, etc.)

PWS ID # 3354773
 Date 10/22/96

MONITORING VIOLATIONS	MCL VIOLATIONS

DEFICIENCIES:

1. MOR reporting-- The number of service connections is not being reported.
2. Need a screen on the well vent.
3. The screen on the air release valve was torn, replace.

Inspector Roberto C. Amador Title Env. Supervisor II Date 10/22/96
 Approved by _____ Title _____ Date _____

State of Florida
 Department of Environmental Protection
 Central District
SANITARY SURVEY REPORT

Plant Name CRESCENT BAY S/D County Lake PWS ID # 3354686
 Plant Location South Lakeshore Dr., Clermont 32711 Phone 407/869-1919
 Owner Name Utilities Inc. of Florida Phone 407/869-1919
 Owner Address 200 Weathersfield Ave., Altamonte Springs, FL 32714
 Contact Person David Zusi Title Reg. Ops. Mgr. Phone 407/869-1919
 This Survey Date 10/22/96 Last Survey Date 3/3/93 Last C.I. Date 10/11/95

PWS TYPE & CLASS

- Community
- Non-transient Non-community
- Non-Community

PWS STATUS

- Approved system with approval number & date
WC35-2105, 2/1/88
- Unapproved system

SERVICE AREA CHARACTERISTICS

Residential S/D
5C
 Food Service: Yes No N/A

OPERATION & MAINTENANCE

Certified Operator: Yes No Not required
 Operator(s) & Certification Class-Number
Jay Aldrich "C"-6368

O & M Log: Yes No Not required
 Operator Visitation Frequency

Hrs/day: Required N/A Actual N/A
 Days/wk: Required 6 Actual 6

Non-consecutive Days? Yes No N/A
 MORs submitted regularly? Yes No N/A
 Data missing from MORs? No Yes N/A
Number of service connections is not being reported.

Number of Service Connections Unk
 Population Served Unk Basis
 Average Day (from MORs) *** gpd
 Max. Day (from MORs) *** gpd
 Max-day Design Capacity 396,000 gpd
 Comments The plant was off line at he time of
visit. Water was being provided by Lk. Crescent Hills,
Crescent West, Highland Point. ***

COMET: SITE ID PROJECT ID 100208

RAW WATER SOURCE

- GROUND; Number of Wells 1
- SURFACE/UDI; Source
- PURCHASED from PWS ID #
- Emergency Water Source ***
 Emergency Water Capacity

AUXILIARY POWER SOURCE

- Yes None Not Required
- Source
 Capacity of Standby (kW)
 Switchover: Automatic Manual
 Standby Plan: Yes No
 Hrs Operated Under Load
 What equipment does it operate?
 Well pumps
 High Service Pumps
 Treatment Equipment
 Satisfy 1/2 max-day demand? Yes No Unk
 Comments

TREATMENT PROCESSES IN USE

Chlorination
 What additional treatment is needed?

 For control of what deficiencies?

DISTRIBUTION SYSTEM

Flow Measuring Device Flow Meter
 Meter Size & Type 3" Hersey
 Backflow Prevention Devices: Yes No
 Cross-connections None Observed
 Written Cross-connection Control Program: Yes
 Coliform Sampling Plan: Yes No N/A
 Comments Lake Crescent Hills has the Auxiliary
Generator(Propane gas)

GROUND WATER SOURCE

Well Number	1			
Year Drilled	1987			
Depth Drilled	210'			
Drilling Method	Combo			
Type of Grout	Neat Cement			
Static Water Level	33'			
Pumping Water Level	--			
Design Well Yield	--			
Test Yield	--			
Actual Yield (if different than rated capacity)	--			
Strainer	Unk			
Length (outside casing)	64'			
Diameter (outside casing)	10"			
Material (outside casing)	Blk. Iron			
Well Contamination History	Unk			
Is inundation of well possible?	No			
6' X 6' X 4" Concrete Pad	Yes			
SET BACKS	Septic Tank	>200'		
	Reuse Water	--		
	WW Plumbing	>200'		
	Other Sanitary Hazard	--		
PUMP	Type	V.T.		
	Manufacturer Name	Goulds		
	Model Number	105L05		
	Rated Capacity (gpm)	550		
	Motor Horsepower	30		
Well casing 12" above grade?	Yes			
Well Casing Sanitary Seal	Ok			
Raw Water Sampling Tap	Yes			
Above Ground Check Valve	Yes			
Fence/Housing	Yes			
Well Vent Protection	No screen			

COMMENTS Algal growth in the pump head bowl.

CHLORINATION (Disinfection)

Type: Gas Hypo
 Make Regal Capacity 150 gpd
 Chlorine Feed Rate Unk
 Avg. Amount of Cl₂ gas used unk
 Chlorine Residuals: Plant 2.0 Remote 1.6
 Remote tap location _____
 DPD Test Kit: On-site With operator
 None Not Used Daily
 Injection Points _____
 Booster Pump Info Goulds 1Hp
 Comments _____

STORAGE FACILITIES

(G) Ground (H) Hydropneumatic (E) Elevated
 (B) Bladder (C) Clearwell

Tank Type/Number	H/1		
Capacity (gal)	10,000		
Material	Steel		
Gravity Drain	Yes		
By-pass Piping	Yes		
Pressure Gauge	Yes		
Sight Glass or Level Indicator	Yes		
Fittings for Sight Glass	N/A		
Protected Openings	Yes		
PRV/ARV	ARV		
On/Off Pressure	48/55		
Access Padlocked	Yes		
Height to Bottom of Elevated Tank	N/A		
Height to Max. Water Level	N/A		

Comments _____

Chlorine Gas Use Requirements	YES	NO	Comments
Dual System	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Auto-switchover	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Alarms:			
Loss of Cl ₂ capability	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Loss of Cl ₂ residual	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Cl ₂ leak detection	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Scale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Chained Cylinders	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Reserve Supply	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Adequate Air-pak	<input checked="" type="checkbox"/>	<input type="checkbox"/>	w/operator
Sign of Leaks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Fresh Ammonia	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Ventilation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Room Lighting	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Warning Signs	<input type="checkbox"/>	<input checked="" type="checkbox"/>	need signs
Repair Kits	<input checked="" type="checkbox"/>	<input type="checkbox"/>	lead wash
Fitted Wrench	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Housing/Protection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

AERATION (Gases, Fe, & Mn Removal)

Type N/A Capacity _____
 Aerator Condition _____
 Bloodworm Presence _____
 Visible Algae Growth _____
 Protective Screen Condition _____
 Comments _____

HIGH SERVICE PUMPS

Pump Number			
Type			
Make			
Model			
Capacity (gpm)			
Motor HP			
Date Installed			
Maintenance			

Comments _____

PWS ID # 3354686
 Date 10/22/96

COMPLIANCE MONITORING COMMUNITY PUBLIC WATER SYSTEMS

CONTAMINANT	PWS Screen	# Samples Required	Sampling Location	C > 3300			C ≤ 3300		
				Frequency	Sample Date	Due Date	Frequency	Sample Date	Due Date
Microbiological (Bacte)	024	1	Each well	monthly			monthly	9/96	Monthly
		2	Distribution						
Volatile Organics	028	<i>(Note A)</i>	<i>(Note H)</i>	<i>(Notes A, 1)</i>			<i>(Notes A, 2)</i>	1996	1997
Pesticides & PCBs	029	<i>(Notes B, E)</i>	<i>(Note H)</i>	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	10/30/90	1997
Nitrate & Nitrite (as N)	030	1	POE	annually			annually	1995 <i>None</i>	1996
Inorganics	030	1	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	1994	1997
Asbestos	030	1 <i>(Note F)</i>	Distribution	9 years <i>(Note 7)</i>			9 years <i>(Note 8)</i>	12/23/93	waiver 12/31/01
Secondaries	031	1	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	10/03/94	1997
Radionuclides	033	<i>(Note C)</i>	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	8/16/94	1997
Group I UOCs	035	<i>(Notes B, E, G)</i>	POE	<i>(Note 4)</i>			<i>(Note 5)</i>	12/14/93	waiver
Group II UOCs	034	1 <i>(Notes E, G)</i>	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	12/14/93	waiver
Group III UOCs	036, 037	1 <i>(Note G)</i>	POE	<i>(Note 4)</i>			<i>(Note 5)</i>	12/14/93	waiver
Lead and Copper	047	<i>(Note D)</i>	---	---			---	1995	9/1996
TTHM (≥ 10,000 persons)	027	4/plant	Distribution	Quarterly			N/A	N/A	N/A

POE = Point of Entry (Samples shall be taken at each entry point to the distribution system that is representative of each source after treatment.)

See Page 5 for description of italicized notes.

NOTES:

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Note E Contact Ms. Marie Carrasquillo of the Central District's Drinking Water Program at (407) 894-7555, extension 2242, to obtain an application for reduced monitoring.

Note F See Rule 62-550.511(4), F.A.C. A system without asbestos-containing components shall certify to the Department in writing, using DEP Form No. 62-555.910(10), that it is asbestos free. Certification shall satisfy subsections (1), (2), and (3) of the referenced rule, and shall be submitted each nine-year compliance cycle during the specified year the system is required to monitor.

Note G See Rule 62-550.521(4), F.A.C. Systems serving less than 150 service connections and serving fewer than 350 persons should notify the Department, by submitting DEP Form No. 62-555.910(11), that their system is available for testing. Normally, these small systems will not be required to monitor for UOCs. Do not send such samples to the Department unless required to do so by the Department.

Note H First quarter samples shall be representative of each well. Subsequent samples shall be taken at each entry point to the distribution system that is representative of each source after treatment.

FREQUENCY:

Note 1 First year of each three-year compliance period (calendar years 1993, 1996, 1999, etc.)

Note 2 Second year of each three-year compliance period (calendar years 1994, 1997, 2000, etc.)

Note 3 Third year of each three-year compliance period (calendar years 1995, 1998, 2001, etc.)

Note 4 First year of the first three-year compliance period (i.e. calendar year 1993)

Note 5 Second year of the first three-year compliance period (i.e. calendar year 1994)

Note 6 Third year of the first three-year compliance period (i.e. calendar year 1995)

Note 7 First year of each nine-year compliance cycle (calendar years 1993, 2002, etc.)

Note 8 Second year of each nine-year compliance cycle (calendar years 1994, 2003, etc.)

Note 9 Third year of each nine-year compliance cycle (calendar years 1995, 2004, etc.)

MONITORING VIOLATIONS	MCL VIOLATIONS
vocs for 1995	
Quarterly monitoring for NO2 & NO3 for the new well (refer to WL 96-0077	
Nitrate and Nitrite for 1995	

DEFICIENCIES:

1. MOR reporting-- The number of service connections is not being reported.
2. Algal growth in the pump head bowl.
3. Need to post Chlorine gas use by the fence.
4. Chemical Monitoring violations:
 - A) VOCs for 1995.
 - B) Nitrate and Nitrite for 1995.
 - C) Lead and Copper sampling for 1996
 - D) Quarterly monitoring for Nitrate from the Well as per **CLEARANCE** condition.

Inspector Roberto C. Garcia Title Env. Supervisor II Date 10/22/96
 Approved by _____ Title _____ Date _____



Department of Environmental Protection

Docket 960444-WU
Exhibit ____ (DR-2)

JUN 23 1997

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

June 23, 1997

COPY

Utilities, Inc. of Florida
200 Weathersfield Avenue
Altamonte Springs, FL 32714

OCD-PW-SS-97-1180

Attention: Donald Rasmussen

Lake County - PW			
Crescent Bay S/D	- 3354686	Amberhill S/D	- 3354648
Crescent West S/D	- 3354690	Lake Ridge Club	- 3354884
Highland Point	- 3354652	Clermont #1/Four Winds	- 3351582
Lake Crescent Hills	- 3354883	Four Lakes & Harbor Oaks	- 3354647
Oranges S/D, The	- 3354685	Clermont #2/Carr Water	- 3350153
Vistas S/D, The - 3354773			

Dear Mr. Rasmussen:

The Department conducted inspections of your public water systems on June 19, 1997. These inspections were conducted by me in the presence of Mr. Bryan Gongre. Copies of the Sanitary Survey Reports and/or Water Treatment Plant Compliance Inspection Reports are enclosed for your reference and records.

Deficiencies found during these inspections and/or in Department records are indicated below. These deficiencies shall be corrected in order to return to compliance with Florida Administrative Code (F.A.C.) Rules 62-550, 62-555, 62-560 and 61E12.

Please correct the indicated deficiencies, and notify the Department in writing that the deficiencies have been corrected, **no later than July 23, 1997**. (You may use the enclosed response form to indicate the corrective actions taken.)

DEFICIENCIES

Crescent West S/D--3354690

1. Properly abandon the 3" well.

Lake Crescent Hills--3354883

1. Clean Algal growth in the pump head discharge.

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

Clermont #2/Carr Water System--3350153

1. Pressure Tank has pin hole leak. This was noted during the last inspection.

The Department values your continued cooperation in operating and maintaining your water system, and appreciates the assistance provided during the sanitary survey.

If you have any questions concerning this letter, please contact me at the above address or by phone at (407) 893-3319.

Sincerely,

Roberto C. Ansag
Roberto C. Ansag, Supervisor
Drinking Water Compliance/Enforcement

Enclosures

State of Florida
 Department of Environmental Protection
 Central District
SANITARY SURVEY REPORT

Plant Name CLERMONT #2/CARR WATER SYSTEM County Lake PWS ID # 3350153
 Plant Location East Lakeshore Drive, Clermont, FL 34711 Phone 407/869-1919
 Owner Name Utlities, Inc. of Florida Phone 407/869-1919
 Owner Address 200 Weathersfield Avenue, Altamonte Springs, FL 32714
 Contact Person Don Rasmussen Title Vice President Phone 407/869-1919
 This Survey Date 6/19/97 Last Survey Date 10/14/94 Last C.I. Date 10/22/96

PWS TYPE & CLASS

- Community
 Non-transient Non-community
 Non-Community

PWS STATUS

- Approved system with approval number & date

 Unapproved system

SERVICE AREA CHARACTERISTICS

Residential
C5C
 Food Service: Yes No N/A

OPERATION & MAINTENANCE

Certified Operator: Yes No Not required
 Operator(s) & Certification Class-Number
A.J. Aldrich "C"--6368

O & M Log: Yes No Not required

Operator Visitation Frequency
 Hrs/day: Required _____ Actual _____
 Days/wk: Required Three Actual Three
 Non-consecutive Days? Yes No N/A
 MORs submitted regularly? Yes No N/A
 Data missing from MORs? No Yes N/A

Number of Service Connections 37
 Population Served 129 Basis _____
 Average Day (from MORs) 35.933 gpd
 Max. Day (from MORs) 70,000 gpd
 Max-day Design Capacity 86,400 gpd
 Comments System is interconnected to Lake Ridge Club, Amberhill S/D, and Clermont #1.

COMET: SITE ID 80465 PROJECT ID 100222

RAW WATER SOURCE

- GROUND; Number of Wells 2
 SURFACE/UDI; Source _____
 PURCHASED from PWS ID # _____
 Emergency Water Source _____
 Emergency Water Capacity _____

AUXILIARY POWER SOURCE

- Yes None Not Required
 Source _____
 Capacity of Standby (kW) _____
 Switchover: Automatic Manual
 Standby Plan: Yes No
 Hrs Operated Under Load _____
 What equipment does it operate?
 Well pumps _____
 High Service Pumps _____
 Treatment Equipment _____
 Satisfy 1/2 max-day demand? Yes No Unk
 Comments _____

TREATMENT PROCESSES IN USE

Disinfection(Chlorination)

 What additional treatment is needed?

 For control of what deficiencies?

DISTRIBUTION SYSTEM

Flow Measuring Device Flow Meter
 Meter Size & Type 2" Badger
 Backflow Prevention Devices: Yes No
 Cross-connections None Observed.
 Written Cross-connection Control Program: Yes
 Coliform Sampling Plan: Yes No N/A
 Comments _____

GROUND WATER SOURCE

Well Number	1		2	
Year Drilled	unk		unk	
Depth Drilled	332'		243'	
Drilling Method	unk		unk	
Type of Grout	unk		unk	
Static Water Level	unk		unk	
Pumping Water Level	--		--	
Design Well Yield	--		--	
Test Yield	--		--	
Actual Yield (if different than rated capacity)	--		--	
Strainer	unk		unk	
Length (outside casing)	212'		206'	
Diameter (outside casing)	6"		4"	
Material (outside casing)	Blk. Steel		Blk. Steel	
Well Contamination History	unk		unk	
Is inundation of well possible?	no		no	
6' X 6' X 4" Concrete Pad	yes		yes	
SET BACKS	Septic Tank	unk	unk	
	Reuse Water	--	--	
	WW Plumbing	>100'	>100'	
	Other Sanitary Hazard	--	--	
PUMP	Type	Subm.	Subm.	
	Manufacturer Name	unk	unk	
	Model Number	unk	unk	
	Rated Capacity (gpm)	75	45	
	Motor Horsepower	5	3	
Well casing 12" above grade?	yes		yes	
Well Casing Sanitary Seal	ok		ok	
Raw Water Sampling Tap	yes		yes	
Above Ground Check Valve	yes		yes	
Fence/Housing	yes		yes	
Well Vent Protection	yes		-	

COMMENTS _____

CHLORINATION (Disinfection)

Type: Gas Hypo
 Make Pulsa Feeder Capacity 30 gpd
 Chlorine Feed Rate _____
 Avg. Amount of Cl₂ gas used N/A
 Chlorine Residuals: Plant 3.0 Remote .7ppm
 Remote tap location _____
 DPD Test Kit: On-site With operator
 None Not Used Daily
 Injection Points _____
 Booster Pump Info _____
 Comments Has two feed pumps at 30 gpd each.

STORAGE FACILITIES

(G) Ground (H) Hydropneumatic (E) Elevated
 (B) Bladder (C) Clearwell

Tank Type/Number	H/1		
Capacity (gal)	3,000		
Material	Steel		
Gravity Drain	Yes		
By-pass Piping	Yes		
Pressure Gauge	Yes		
Sight Glass or Level Indicator	Yes		
Fittings for Sight Glass	N/A		
Protected Openings	Yes		
PRV/ARV	ARV		
On/Off Pressure	50/62		
Access Padlocked	Yes		
Height to Bottom of Elevated Tank	--		
Height to Max. Water Level	--		

Comments Pin Hole leak on the Pressure Tank.

Chlorine Gas Use Requirements	YES	NO	Comments
Dual System	<input type="checkbox"/>	<input type="checkbox"/>	
Auto-switchover	<input type="checkbox"/>	<input type="checkbox"/>	
Alarms:			
Loss of Cl ₂ capability	<input type="checkbox"/>	<input type="checkbox"/>	
Loss of Cl ₂ residual	<input type="checkbox"/>	<input type="checkbox"/>	
Cl ₂ leak detection	<input type="checkbox"/>	<input type="checkbox"/>	
Scale	<input type="checkbox"/>	<input type="checkbox"/>	
Chained Cylinders	<input type="checkbox"/>	<input type="checkbox"/>	
Reserve Supply	<input type="checkbox"/>	<input type="checkbox"/>	
Adequate Air-pak	<input type="checkbox"/>	<input type="checkbox"/>	
Sign of Leaks	<input type="checkbox"/>	<input type="checkbox"/>	
Fresh Ammonia	<input type="checkbox"/>	<input type="checkbox"/>	
Ventilation	<input type="checkbox"/>	<input type="checkbox"/>	
Room Lighting	<input type="checkbox"/>	<input type="checkbox"/>	
Warning Signs	<input type="checkbox"/>	<input type="checkbox"/>	
Repair Kits	<input type="checkbox"/>	<input type="checkbox"/>	
Fitted Wrench	<input type="checkbox"/>	<input type="checkbox"/>	
Housing/Protection	<input type="checkbox"/>	<input type="checkbox"/>	

HIGH SERVICE PUMPS

Pump Number			
Type			
Make			
Model			
Capacity (gpm)			
Motor HP			
Date Installed			
Maintenance			

Comments _____

AERATION (Gases, Fe, & Mn Removal)

Type _____ Capacity _____
 Aerator Condition _____
 Bloodworm Presence _____
 Visible Algae Growth _____
 Protective Screen Condition _____
 Comments _____

PWS ID # 3350153
 Date 6/19/97

COMPLIANCE MONITORING COMMUNITY PUBLIC WATER SYSTEMS

CONTAMINANT	PWS Screen	# Samples Required	Sampling Location	C > 3300			C ≤ 3300		
				Frequency	Sample Date	Due Date	Frequency	Sample Date	Due Date
Microbiological (Bacte)	024	1	Each well	monthly			monthly	5/97	6.97
		2	Distribution				monthly	5/97	6/97
Volatile Organics	028	<i>(Note A)</i>	<i>(Note H)</i>	<i>(Notes A, 1)</i>			<i>(Notes A, 2)</i>	3rd annual 8/31/95	1997
Pesticides & PCBs	029	<i>(Notes B, E)</i>	<i>(Note H)</i>	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	2/21/91	1997
Nitrate & Nitrite (as N)	030	1	POE	annually			annually	12/12/96	1997
Inorganics	030	1	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	8/16/94	1997
Asbestos	030	1 <i>(Note F)</i>	Distribution	9 years <i>(Note 7)</i>			9 years <i>(Note 8)</i>	Waiver 12/23/93	2003
Secondaries	031	1	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	10/3/94	1997
Radionuclides	033	<i>(Note C)</i>	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	8/16/94	1997
Group I UOCs	035	<i>(Notes B, E, G)</i>	POE	<i>(Note 4)</i>			<i>(Note 5)</i>	12/14/93	Waiver
Group II UOCs	034	1 <i>(Notes E, G)</i>	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	12/14/93	1997
Group III UOCs	036, 037	1 <i>(Note G)</i>	POE	<i>(Note 4)</i>			<i>(Note 5)</i>	12/14/93	Waiver
Lead and Copper	047	<i>(Note D)</i>	---	---			---	Call DEP	
TTHM (≥ 10,000 persons)	027	4/plant	Distribution	Quarterly			N/A	N/A	N/A

POE = Point of Entry (Samples shall be taken at each entry point to the distribution system that is representative of each source after treatment.)

See Page 5 for description of italicized notes.

NOTES:

SAMPLES REQUIRED/SAMPLING LOCATION:

Note A See Rule 62-550.515(1), F.A.C. Each system shall take four consecutive quarterly samples during its assigned year in the system's first compliance period. If no contaminant is detected, the system shall monitor annually during the next three-year compliance period. If still no contaminants are detected, systems shall take one sample during each subsequent three-year compliance period.

If the initial monitoring for contaminants listed in Rule 62-550.310(2)(b), F.A.C., was completed prior to December 31, 1992, then each system shall take one sample annually beginning January 1, 1993.

Note B 4 consecutive quarterly samples. Credit will be given for samples taken before January 1, 1993.

Note C See Rule 62-550.519, F.A.C. Compliance shall be based on the average of analyses of four consecutive quarterly samples. A maximum of two quarterly samples may be composited. Subsequent samples shall be collected once every three years.

Note D Contact the Central District's Drinking Water Program at (407) 894-7555 or contact the Florida Rural Water Association.

Note E Contact Ms. Marie Carrasquillo of the Central District's Drinking Water Program at (407) 894-7555, extension 2242, to obtain an application for reduced monitoring.

Note F See Rule 62-550.511(4), F.A.C. A system without asbestos-containing components shall certify to the Department in writing, using DEP Form No. 62-555.910(10), that it is asbestos free. Certification shall satisfy subsections (1), (2), and (3) of the referenced rule, and shall be submitted each nine-year compliance cycle during the specified year the system is required to monitor.

Note G See Rule 62-550.521(4), F.A.C. Systems serving less than 150 service connections and serving fewer than 350 persons should notify the Department, by submitting DEP Form No. 62-555.910(11), that their system is available for testing. Normally, these small systems will not be required to monitor for UOCs. Do not send such samples to the Department unless required to do so by the Department.

Note H First quarter samples shall be representative of each well. Subsequent samples shall be taken at each entry point to the distribution system that is representative of each source after treatment.

FREQUENCY:

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Note 2 Second year of each three-year compliance period (calendar years 1994, 1997, 2000, etc.)

Note 3 Third year of each three-year compliance period (calendar years 1995, 1998, 2001, etc.)

Note 4 First year of the first three-year compliance period (i.e. calendar year 1993)

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Note 7 First year of each nine-year compliance cycle (calendar years 1993, 2002, etc.)

Note 8 Second year of each nine-year compliance cycle (calendar years 1994, 2003, etc.)

Note 9 Third year of each nine-year compliance cycle (calendar years 1995, 2004, etc.)

MONITORING VIOLATIONS	MCL VIOLATIONS

DEFICIENCIES:

1..Pressure tank has pin hole leak. This was noted during last year's inspection.

Inspector Robert C. Guey Title Env. Supervisor II Date 6/19/97

Approved by _____ Title _____ Date _____

State of Florida
 Department of Environmental Protection
 Central District
SANITARY SURVEY REPORT

Plant Name CLERMONT #1/FOUR WINDS S/D County Lake PWS ID # 3351582
 Plant Location East Lakeshore Dr., Clermont, FL 34711 Phone 407/869-1919
 Owner Name Utilities, Inc. of Florida Phone 407/869-1919
 Owner Address 200 Weathersfield Ave., Altamonte Springs, FL 32714
 Contact Person Don Rasmussen Title Vice President Phone 407/869-1919
 This Survey Date 6/19/97 Last Survey Date 10/14/94 Last C.I. Date 10/22/96

PWS TYPE & CLASS

- Community
- Non-transient Non-community
- Non-Community

PWS STATUS

- Approved system with approval number & date

- Unapproved system

SERVICE AREA CHARACTERISTICS

Residential
C5C
 Food Service: Yes No N/A

OPERATION & MAINTENANCE

Certified Operator: Yes No Not required
 Operator(s) & Certification Class-Number
A.J. Aldrich "C"--6368

O & M Log: Yes No Not required
 Operator Visitation Frequency

Hrs/day: Required _____ Actual _____
 Days/wk: Required Three Actual _____
 Non-consecutive Days? Yes No N/A
 MORs submitted regularly? Yes No N/A
 Data missing from MORs? No Yes N/A

Number of Service Connections _____
 Population Served _____ Basis _____
 Average Day (from MORs) _____ gpd
 Max. Day (from MORs) _____ gpd
 Max-day Design Capacity _____ gpd
 Comments _____

COMET: SITE ID _____ PROJECT ID _____

RAW WATER SOURCE

- GROUND; Number of Wells _____
- SURFACE/UDI; Source _____
- PURCHASED from PWS ID # _____
- Emergency Water Source _____
 Emergency Water Capacity _____

AUXILIARY POWER SOURCE

- Yes None Not Required
- Source _____
- Capacity of Standby (kW) _____
- Switchover: Automatic Manual
- Standby Plan: Yes No
- Hrs Operated Under Load _____
- What equipment does it operate?
 Well pumps _____
 High Service Pumps _____
 Treatment Equipment _____
- Satisfy 1/2 max-day demand? Yes No Unk
- Comments _____

TREATMENT PROCESSES IN USE

Disinfection(Chlorination)

 What additional treatment is needed?

 For control of what deficiencies?

DISTRIBUTION SYSTEM

Flow Measuring Device _____ Flow Meter _____
 Meter Size & Type _____
 Backflow Prevention Devices: Yes No
 Cross-connections _____
 Written Cross-connection Control Program: Yes
 Coliform Sampling Plan: Yes No N/A
 Comments _____

GROUND WATER SOURCE

Well Number	1		2	
Year Drilled	unk		unk	
Depth Drilled	445'		387'	
Drilling Method	unk		unk	
Type of Grout	unk		unk	
Static Water Level	--		--	
Pumping Water Level	--		--	
Design Well Yield	--		--	
Test Yield	--		--	
Actual Yield (if different than rated capacity)	--		--	
Strainer	unk		unk	
Length (outside casing)	125'		159'	
Diameter (outside casing)	8"		4"	
Material (outside casing)	Blk.Steel		Blk.Steel	
Well Contamination History	unk		unk	
Is inundation of well possible?	no		no	
6' X 6' X 4" Concrete Pad	yes		yes	
SET BACKS	Septic Tank	>100'	>100'	
	Reuse Water	--	--	
	WW Plumbing	>100'	>100'	
	Other Sanitary Hazard	--	--	
PUMP	Type	Subm.	Subm.	
	Manufacturer Name	unk	unk	
	Model Number	unk	unk	
	Rated Capacity (gpm)	236	54	
	Motor Horsepower	20	5	
Well casing 12" above grade?	yes		yes	
Well Casing Sanitary Seal	ok		ok	
Raw Water Sampling Tap	yes		yes	
Above Ground Check Valve	yes		yes	
Fence/Housing	yes		yes	
Well Vent Protection	yes		yes	

COMMENTS System is interconnected to Amberhill S/D, Lake Ridge Club.

CHLORINATION (Disinfection)

Type: Gas Hypo
 Make Chem-Tech Capacity 30 gpd
 Chlorine Feed Rate _____
 Avg. Amount of Cl₂ gas used N/A
 Chlorine Residuals: Plant 3.0 Remote 1.5
 Remote tap location _____
 DPD Test Kit: On-site With operator
 None Not Used Daily
 Injection Points _____
 Booster Pump Info _____
 Comments _____

Chlorine Gas Use Requirements	YES	NO	Comments
Dual System	<input type="checkbox"/>	<input type="checkbox"/>	
Auto-switchover	<input type="checkbox"/>	<input type="checkbox"/>	
Alarms:			
Loss of Cl ₂ capability	<input type="checkbox"/>	<input type="checkbox"/>	
Loss of Cl ₂ residual	<input type="checkbox"/>	<input type="checkbox"/>	
Cl ₂ leak detection	<input type="checkbox"/>	<input type="checkbox"/>	
Scale	<input type="checkbox"/>	<input type="checkbox"/>	
Chained Cylinders	<input type="checkbox"/>	<input type="checkbox"/>	
Reserve Supply	<input type="checkbox"/>	<input type="checkbox"/>	
Adequate Air-pak	<input type="checkbox"/>	<input type="checkbox"/>	
Sign of Leaks	<input type="checkbox"/>	<input type="checkbox"/>	
Fresh Ammonia	<input type="checkbox"/>	<input type="checkbox"/>	
Ventilation	<input type="checkbox"/>	<input type="checkbox"/>	
Room Lighting	<input type="checkbox"/>	<input type="checkbox"/>	
Warning Signs	<input type="checkbox"/>	<input type="checkbox"/>	
Repair Kits	<input type="checkbox"/>	<input type="checkbox"/>	
Fitted Wrench	<input type="checkbox"/>	<input type="checkbox"/>	
Housing/Protection	<input type="checkbox"/>	<input type="checkbox"/>	

AERATION (Gases, Fe, & Mn Removal)
 Type _____ Capacity _____
 Aerator Condition _____
 Bloodworm Presence _____
 Visible Algae Growth _____
 Protective Screen Condition _____
 Comments _____

STORAGE FACILITIES

(G) Ground (H) Hydropneumatic (E) Elevated
 (B) Bladder (C) Clearwell

Tank Type/Number	H/1		H/2
Capacity (gal)	1,000		900
Material	Steel		
Gravity Drain	Yes		Yes
By-pass Piping	Yes		N/A
Pressure Gauge	Yes		Yes
Sight Glass or Level Indicator	Yes		N/A
Fittings for Sight Glass	N/A		N/A
Protected Openings	Yes		N/A
PRV/ARV	ARV		None
On/Off Pressure	40/55		
Access Padlocked			
Height to Bottom of Elevated Tank			
Height to Max. Water Level			

Comments _____

HIGH SERVICE PUMPS

Pump Number			
Type			
Make			
Model			
Capacity (gpm)			
Motor HP			
Date Installed			
Maintenance			

Comments _____

PWS ID # 3351582Date 6/19/97

**COMPLIANCE MONITORING
COMMUNITY PUBLIC WATER SYSTEMS**

CONTAMINANT	PWS Screen	# Samples Required	Sampling Location	C > 3300			C ≤ 3300		
				Frequency	Sample Date	Due Date	Frequency	Sample Date	Due Date
Microbiological (Bacte)	024	1	Each well	monthly			monthly	5/97	6/97
		2	Distribution				monthly	5/97	6/97
Volatile Organics	028	<i>(Note A)</i>	<i>(Note H)</i>	<i>(Notes A, 1)</i>			<i>(Notes A, 2)</i>	8/31/95	1997
Pesticides & PCBs	029	<i>(Notes B, E)</i>	<i>(Note H)</i>	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	4/22/92	once in 1997
Nitrate & Nitrite (as N)	030	1	POE	annually			annually	*12/12/96	*1997
Inorganics	030	1	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	8/16/94	1997
Asbestos	030	1 <i>(Note F)</i>	Distribution	9 years <i>(Note 7)</i>			9 years <i>(Note 8)</i>	Waiver 12/23/93	2003
Secondaries	031	1	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	10/03/94	1997
Radionuclides	033	<i>(Note C)</i>	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	8/16/94	1997
Group I UOCs	035	<i>(Notes B, E, G)</i>	POE	<i>(Note 4)</i>			<i>(Note 5)</i>	--	--
Group II UOCs	034	1 <i>(Notes E, G)</i>	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	8/16/94	1997
Group III UOCs	036, 037	1 <i>(Note G)</i>	POE	<i>(Note 4)</i>			<i>(Note 5)</i>	--	--
Lead and Copper	047	<i>(Note D)</i>	---	---			---	contact dep.	
TTHM (≥ 10,000 persons)	027	4/plant	Distribution	Quarterly			N/A	N/A	N/A

POE = Point of Entry (Samples shall be taken at each entry point to the distribution system that is representative of each source after treatment.)

See Page 5 for description of italicized notes.

NOTES:

SAMPLES REQUIRED/SAMPLING LOCATION:

Note A See Rule 62-550.515(1), F.A.C. Each system shall take four consecutive quarterly samples during its assigned year in the system's first compliance period. If no contaminant is detected, the system shall monitor annually during the next three-year compliance period. If still no contaminants are detected, systems shall take one sample during each subsequent three-year compliance period.

If the initial monitoring for contaminants listed in Rule 62-550.310(2)(b), F.A.C., was completed prior to December 31, 1992, then each system shall take one sample annually beginning January 1, 1993.

Note B 4 consecutive quarterly samples. Credit will be given for samples taken before January 1, 1993.

Note C See Rule 62-550.519, F.A.C. Compliance shall be based on the average of analyses of four consecutive quarterly samples. A maximum of two quarterly samples may be composited. Subsequent samples shall be collected once every three years.

Note D Contact the Central District's Drinking Water Program at (407) 894-7555 or contact the Florida Rural Water Association.

Note E Contact Ms. Marie Carrasquillo of the Central District's Drinking Water Program at (407) 894-7555, extension 2242, to obtain an application for reduced monitoring.

Note F See Rule 62-550.511(4), F.A.C. A system without asbestos-containing components shall certify to the Department in writing, using DEP Form No. 62-555.910(10), that it is asbestos free. Certification shall satisfy subsections (1), (2), and (3) of the referenced rule, and shall be submitted each nine-year compliance cycle during the specified year the system is required to monitor.

Note G See Rule 62-550.521(4), F.A.C. Systems serving less than 150 service connections and serving fewer than 350 persons should notify the Department, by submitting DEP Form No. 62-555.910(11), that their system is available for testing. Normally, these small systems will not be required to monitor for UOCs. Do not send such samples to the Department unless required to do so by the Department.

Note H First quarter samples shall be representative of each well. Subsequent samples shall be taken at each entry point to the distribution system that is representative of each source after treatment.

FREQUENCY:

Note 1 First year of each three-year compliance period (calendar years 1993, 1996, 1999, etc.)

Note 2 Second year of each three-year compliance period (calendar years 1994, 1997, 2000, etc.)

Note 3 Third year of each three-year compliance period (calendar years 1995, 1998, 2001, etc.)

Note 4 First year of the first three-year compliance period (i.e. calendar year 1993)

Note 5 Second year of the first three-year compliance period (i.e. calendar year 1994)

Note 6 Third year of the first three-year compliance period (i.e. calendar year 1995)

Note 7 First year of each nine-year compliance cycle (calendar years 1993, 2002, etc.)

Note 8 Second year of each nine-year compliance cycle (calendar years 1994, 2003, etc.)

Note 9 Third year of each nine-year compliance cycle (calendar years 1995, 2004, etc.)

MONITORING VIOLATIONS	MCL VIOLATIONS

DEFICIENCIES:

NOTE:

THERE WERE NO DEFICIENCIES NOTED . THANK YOU FOR A JOB WELL DONE.

NITRATE NITRITE QUARTERLY. FIRST QUARTER WAS DUE 3/31?97.

Inspector Roberto C. Amoy Title Env. Supervisor II Date 6/19/97
Approved by _____ Title _____ Date _____

State of Florida
 Department of Environmental Protection
 Central District
SANITARY SURVEY REPORT

Plant Name AMBERHILL S/D County Lake PWS ID # 3354648
 Plant Location East Lakeshore Dr., Clermont, FL 34711 Phone 407/869-1919
 Owner Name Utilities, Inc. of Florida Phone 407/869-1919
 Owner Address 200 Weathersfield Avenue, Altamonte Springs, FL 32714
 Contact Person Don Rasmussen Title Vice President Phone 407/869-1919
 This Survey Date 6/19/97 Last Survey Date 10/14/94 Last C.I. Date 10/22/96

PWS TYPE & CLASS

- Community
- Non-transient Non-community
- Non-Community

PWS STATUS

- Approved system with approval number & date

- Unapproved system

SERVICE AREA CHARACTERISTICS

Residential
C5C
 Food Service: Yes No N/A

OPERATION & MAINTENANCE

Certified Operator: Yes No Not required
 Operator(s) & Certification Class-Number
A.J. Aldrich "C"--6368

O & M Log: Yes No Not required
 Operator Visitation Frequency

Hrs/day: Required _____ Actual _____
 Days/wk: Required six Actual six
 Non-consecutive Days? Yes No N/A
 MORs submitted regularly? Yes No N/A
 Data missing from MORs? No Yes N/A

Number of Service Connections 45
 Population Served 157 Basis _____
 Average Day (from MORs) 241,000 gpd
 Max. Day (from MORs) 390,000 gpd
 Max-day Design Capacity 540,000 gpd
 Comments System is interconnected to Clermont #1,
 Lake Ridge Club

COMET: SITE ID 80566 PROJECT ID 100216

RAW WATER SOURCE

- GROUND; Number of Wells _____
- SURFACE/UDI; Source _____
- PURCHASED from PWS ID # _____
- Emergency Water Source _____
 Emergency Water Capacity _____

AUXILIARY POWER SOURCE

- Yes None Not Required
- Source _____
 Capacity of Standby (kW) _____
 Switchover: Automatic Manual
 Standby Plan: Yes No
 Hrs Operated Under Load _____
 What equipment does it operate?
 Well pumps _____
 High Service Pumps _____
 Treatment Equipment _____
 Satisfy 1/2 max-day demand? Yes No Unk
 Comments _____

TREATMENT PROCESSES IN USE

Disinfection(Chlorination)
 What additional treatment is needed?

 For control of what deficiencies?

DISTRIBUTION SYSTEM

Flow Measuring Device Flow Meter
 Meter Size & Type 6"
 Backflow Prevention Devices: Yes No
 Cross-connections None Observed
 Written Cross-connection Control Program: Yes
 Coliform Sampling Plan: Yes No N/A
 Comments _____

GROUND WATER SOURCE

Well Number	1			
Year Drilled	unk			
Depth Drilled	600'			
Drilling Method	unk			
Type of Grout	unk			
Static Water Level	unk			
Pumping Water Level	--			
Design Well Yield	--			
Test Yield	--			
Actual Yield (if different than rated capacity)	--			
Strainer	unk			
Length (outside casing)	160'			
Diameter (outside casing)	10"			
Material (outside casing)	Blk.Steel			
Well Contamination History	unk			
Is inundation of well possible?	no			
6' X 6' X 4" Concrete Pad	yes			
SET BACKS	Septic Tank	>200'		
	Reuse Water	--		
	WW Plumbing	>200'		
	Other Sanitary Hazard	--		
PUMP	Type	V.T.		
	Manufacturer Name	Goulds		
	Model Number	unk		
	Rated Capacity (gpm)	750		
	Motor Horsepower	60		
Well casing 12" above grade?	yes			
Well Casing Sanitary Seal	ok			
Raw Water Sampling Tap	yes			
Above Ground Check Valve	yes			
Fence/Housing	yeses			
Well Vent Protection				

COMMENTS _____

CHLORINATION (Disinfection)

Type: Gas Hypo
 Make Regal Capacity 150 ppd
 Chlorine Feed Rate 20 lbs/day
 Avg. Amount of Cl₂ gas used 8 ppd
 Chlorine Residuals: Plant 3.0 Remote 1.5
 Remote tap location _____
 DPD Test Kit: On-site With operator
 None Not Used Daily
 Injection Points _____
 Booster Pump Info Goulds 2HP
 Comments System is using less than 10 lbs. of chlorine per day.

Chlorine Gas Use Requirements	YES	NO	Comments
Dual System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Auto-switchover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Alarms:			
Loss of Cl ₂ capability	<input type="checkbox"/>	<input checked="" type="checkbox"/>	using less than 10lbs per day.
Loss of Cl ₂ residual	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Cl ₂ leak detection	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Scale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Chained Cylinders	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Reserve Supply	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Adequate Air-pak	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Sign of Leaks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Fresh Ammonia	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Ventilation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Room Lighting	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Warning Signs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Repair Kits	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Fitted Wrench	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Housing/Protection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

AERATION (Gases, Fe, & Mn Removal)

Type _____ Capacity _____
 Aerator Condition _____
 Bloodworm Presence _____
 Visible Algae Growth _____
 Protective Screen Condition _____
 Comments _____

STORAGE FACILITIES

(G) Ground (H) Hydropneumatic (E) Elevated
 (B) Bladder (C) Clearwell

Tank Type/Number	H/1		
Capacity (gal)	7,500		
Material	Steel		
Gravity Drain	Yes		
By-pass Piping	Yes		
Pressure Gauge	Yes		
Sight Glass or Level Indicator	Yes		
Fittings for Sight Glass	N/A		
Protected Openings	Yes		
PRV/ARV	ARV		
On/Off Pressure	40/50		
Access Padlocked	Yes		
Height to Bottom of Elevated Tank	--		
Height to Max. Water Level	--		

Comments _____

HIGH SERVICE PUMPS

Pump Number			
Type			
Make			
Model			
Capacity (gpm)			
Motor HP			
Date Installed			
Maintenance			

Comments _____

PWS ID # 3354648Date 6/19/97

COMPLIANCE MONITORING COMMUNITY PUBLIC WATER SYSTEMS									
CONTAMINANT	PWS Screen	# Samples Required	Sampling Location	C > 3300			C ≤ 3300		
				Frequency	Sample Date	Due Date	Frequency	Sample Date	Due Date
Microbiological (Bacte)	024	1	Each well	monthly			monthly	5/97	6.97
		2	Distribution				monthly	5/97	6/97
Volatile Organics	028	<i>(Note A)</i>	<i>(Note H)</i>	<i>(Notes A, 1)</i>			<i>(Notes A, 2)</i>	3rd.annual 8/31/95	1997
Pesticides & PCBs	029	<i>(Notes B, E)</i>	<i>(Note H)</i>	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	2/21/91	1997
Nitrate & Nitrite (as N)	030	1	POE	annually			annually	12/12/96	1997
Inorganics	030	1	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	8/16/94	1997
Asbestos	030	1 <i>(Note F)</i>	Distribution	9 years <i>(Note 7)</i>			9 years <i>(Note 8)</i>	Waiver 12/23/93	2003
Secondaries	031	1	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	10/3/94	1997
Radionuclides	033	<i>(Note C)</i>	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	8/16/94	1997
Group I UOCs	035	<i>(Notes B, E, G)</i>	POE	<i>(Note 4)</i>			<i>(Note 5)</i>	12/14/93	Waiver
Group II UOCs	034	1 <i>(Notes E, G)</i>	POE	3 years <i>(Note 1)</i>			3 years <i>(Note 2)</i>	12/14/93	1997
Group III UOCs	036, 037	1 <i>(Note G)</i>	POE	<i>(Note 4)</i>			<i>(Note 5)</i>	12/14/93	1997
Lead and Copper	047	<i>(Note D)</i>	---	---			---	Call DEP	
TTHM (≥ 10,000 persons)	027	4/plant	Distribution	Quarterly			N/A	N/A	N/A

POE = Point of Entry (Samples shall be taken at each entry point to the distribution system that is representative of each source after treatment.)

See Page 5 for description of italicized notes.

NOTES:

SAMPLES REQUIRED/SAMPLING LOCATION:

Note A See Rule 62-550.515(1), F.A.C. Each system shall take four consecutive quarterly samples during its assigned year in the system's first compliance period. If no contaminant is detected, the system shall monitor annually during the next three-year compliance period. If still no contaminants are detected, systems shall take one sample during each subsequent three-year compliance period.

If the initial monitoring for contaminants listed in Rule 62-550.310(2)(b), F.A.C., was completed prior to December 31, 1992, then each system shall take one sample annually beginning January 1, 1993.

Note B 4 consecutive quarterly samples. Credit will be given for samples taken before January 1, 1993.

Note C See Rule 62-550.519, F.A.C. Compliance shall be based on the average of analyses of four consecutive quarterly samples. A maximum of two quarterly samples may be composited. Subsequent samples shall be collected once every three years.

Note D Contact the Central District's Drinking Water Program at (407) 894-7555 or contact the Florida Rural Water Association.

Note E Contact Ms. Marie Carrasquillo of the Central District's Drinking Water Program at (407) 894-7555, extension 2242, to obtain an application for reduced monitoring.

Note F See Rule 62-550.511(4), F.A.C. A system without asbestos-containing components shall certify to the Department in writing, using DEP Form No. 62-555.910(10), that it is asbestos free. Certification shall satisfy subsections (1), (2), and (3) of the referenced rule, and shall be submitted each nine-year compliance cycle during the specified year the system is required to monitor.

Note G See Rule 62-550.521(4), F.A.C. Systems serving less than 150 service connections and serving fewer than 350 persons should notify the Department, by submitting DEP Form No. 62-555.910(11), that their system is available for testing. Normally, these small systems will not be required to monitor for UOCs. Do not send such samples to the Department unless required to do so by the Department.

Note H First quarter samples shall be representative of each well. Subsequent samples shall be taken at each entry point to the distribution system that is representative of each source after treatment.

FREQUENCY:

Note 1 First year of each three-year compliance period (calendar years 1993, 1996, 1999, etc.)

Note 2 Second year of each three-year compliance period (calendar years 1994, 1997, 2000, etc.)

Note 3 Third year of each three-year compliance period (calendar years 1995, 1998, 2001, etc.)

Note 4 First year of the first three-year compliance period (i.e. calendar year 1993)

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Note 6 Third year of the first three-year compliance period (i.e. calendar year 1995)

Note 7 First year of each nine-year compliance cycle (calendar years 1993, 2002, etc.)

Note 8 Second year of each nine-year compliance cycle (calendar years 1994, 2003, etc.)

Note 9 Third year of each nine-year compliance cycle (calendar years 1995, 2004, etc.)

PWS ID # 3354648
Date 6/19/97

MONITORING VIOLATIONS	MCL VIOLATIONS

DEFICIENCIES:

NOTE: THERE WERE NO DEFICIENCIES NOTED. THANK YOU FOR
A JOB WELL DONE.

Inspector Roberto C Amey Title Env. Supervisor II Date 6/19/97
Approved by _____ Title _____ Date _____

PWS ID Number 3354690

PWS Name CRESCENT WEST S/D

Mailing Address _____

Date _____

Florida Department of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803

Attention: BOB ANSAG

In response to the Department's sanitary survey letter/compliance inspection report for the subject public water system dated 6-19-97, the following actions were done to correct the listed deficiencies:

<u>Deficiency</u> <u>Item No.</u>	<u>Corrective Action Done</u>	<u>Date</u> <u>Done</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

(Attach separate sheet if necessary)

I hereby certify to the correctness of the above information:

PWS Owner/Representative Signature _____

Typed or printed Name of PWS Owner/Representative _____

PWS ID Number 3354883
PWS Name LAKE CRESCENT HILLS
Mailing Address _____
Date _____

Florida Department of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803

Attention: BOB ANSAG

In response to the Department's sanitary survey letter/compliance inspection report for the subject public water system dated 6-19-97, the following actions were done to correct the listed deficiencies:

<u>Deficiency</u> <u>Item No.</u>	<u>Corrective Action Done</u>	<u>Date</u> <u>Done</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
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_____	_____	_____
_____	_____	_____
_____	_____	_____

(Attach separate sheet if necessary)

I hereby certify to the correctness of the above information:

PWS Owner/Representative Signature _____

Typed or printed Name of PWS Owner/Representative _____

PWS ID Number 3350153

PWS Name CLERMONT #2/CARR WATER SYSTEM

Mailing Address _____

Date _____

Florida Department of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803

Attention: BOB ANSAG

In response to the Department's sanitary survey letter/compliance inspection report for the subject public water system dated 6-19-97, the following actions were done to correct the listed deficiencies:

<u>Deficiency</u> <u>Item No.</u>	<u>Corrective Action Done</u>	<u>Date</u> <u>Done</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
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_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

(Attach separate sheet if necessary)

I hereby certify to the correctness of the above information:

PWS Owner/Representative Signature _____

Typed or printed Name of PWS Owner/Representative _____

WATER TREATMENT PLANT COMPLIANCE INSPECTION REPORT

Plant name Crescent West S/A County LAKE PWS ID 3354690
 Address So. Lakeshore Dr. Clermont, FL 32711 Phone 407/869-1919
 Owner name Utilities Inc. of FL. Contact Dony Rasmussen
 Owner address 300 Weatherfield Ave. Altamonte Springs Phone 407/869-1919
 This inspection date 6/19/97 Last C.I. date 10/11/95 Last survey date 10/22/96
 PWS Type: Community Non-Transient Non-Community Non-Community
 Service area characteristics RESIDENTIAL SC No. of service connections _____
 Food service? Yes No Served population _____

OPERATION & MAINTENANCE

Certified operator: Yes No N/A
 Operator & certification class-number:
A. T. Aldrich "C" - 6368
 O&M log: yes no LAKE CRESCENT HILLS, CRESCENT

WELL

Number of wells 1 Standby well? BA7
 Auxiliary power.. yes no N/A
 6' x 6' x 4" pad yes no
 Sanitary seal..... OK
 Raw water tap: yes no
 not smooth nosed
 Check valve..... yes no
 Fence/housing.... yes no
 Sanitary hazards _____

CHLORINATION

Chlorinator type: Gas Hypo
 Cl₂ residual: Plant 2.0 ppm Remote .5 ppm
 DPD-type test kit..... yes no
 Gas cylinder scale..... yes no
 Gas cylinder chained..... yes no
 Adequate air-pak..... yes no
 Fresh ammonia solution.. yes no
 Adequate ventilation..... yes no
 Dual chlorination..... yes no
 Auto-switchover..... yes no
 Alarm yes no

AERATION: Type _____

Condition _____

OTHER TREATMENT PROCESSES:

OTHER

Flow measuring device:
 meter elapsed time clock none
 Backflow prevention devices: yes no
 Cross-connections NONE observed

STORAGE TANKS

(G) Ground (C) Clearwell (E) Elevated
 (B) Bladder (H) Hydropneumatic/flow-through

Tank type	<u>H/I</u>			
Capacity	<u>10,000</u>			
Gravity drain	<u>yes</u>			
By-pass piping	<u>yes</u>			
Pressure gauge	<u>yes</u>			
On/Off pressure	<u>38-55</u>			
Sight glass	<u>yes</u>			
Fittings for sight glass	<u>-</u>			
Air release valve	<u>yes</u>			
Pressure relief valve				
Access padlocked	<u>yes</u>			

DEFICIENCIES / COMMENTS

1. ABANDON the 3" well.

PLEASE CORRECT THE INDICATED DEFICIENCIES AND PROVIDE A WRITTEN STATEMENT TO THE DEPARTMENT NO LATER THAN 7/19/97 STATING THAT ALL LISTED DEFICIENCIES HAVE BEEN CORRECTED; FAILURE TO DO SO WILL RESULT IN THE TAKING OF APPROPRIATE ENFORCEMENT ACTION BY THE DEPARTMENT. Send your response to: Department of Environmental Protection, 3319 Maguire Blvd., Suite 232, Orlando, Florida 32803. Phone:(407)894-7555

Inspector Roberto C. Araya Title Env. Sup. II Date 6/19/97

Received by [Signature] Title Area Mgr. Date 6/19/97

Form left: on site with water plant operator with water purveyor

WATER TREATMENT PLANT COMPLIANCE INSPECTION REPORT

Plant name Crescent Bay S/O County LAKE PWS ID 3354686
 Address So. Lakeshore Dr. Clermont, FL 32711 Phone 407/869-1919
 Owner name Utilities, Inc. of Florida Contact Don Rasmussen
 Owner address 200 Weathersfield Ave. Altamonte Springs Phone 407/869-1919
 This inspection date 6/19/97 Last C.I. date 10/11/95 Last survey date 10/22/96
 PWS Type: Community Non-Transient Non-Community Non-Community
 Service area characteristics RESIDENTIAL SC No. of service connections _____
 Food service? Yes No Served population _____

OPERATION & MAINTENANCE

Certified operator: Yes No N/A
 Operator & certification class-number:
A. J. ALDRICH "C" - 6356
 O&M log: yes no Lk. Crescent Hills
WELL
 Number of wells 1 Standby well? Highland Hills
 Auxiliary power.. yes no N/A
 6' x 6' x 4" pad yes no
 Sanitary seal..... OK _____
 Raw water tap: yes no
 not smooth nosed
 Check valve..... yes no
 Fence/housing.... yes no
 Sanitary hazards _____

CHLORINATION

Chlorinator type: Gas Hypo
 Cl₂ residual: Plant 1.5 ppm Remote 5 ppm
 DPD-type test kit..... yes no
 Gas cylinder scale..... yes no
 Gas cylinder chained..... yes no
 Adequate air-pak..... yes no
 Fresh ammonia solution.. yes no
 Adequate ventilation..... yes no
 Dual chlorination..... yes no
 Auto-switchover..... yes no
 Alarm yes no

AERATION: Type less than 10 lbs.
 Condition Average

OTHER TREATMENT PROCESSES:

OTHER

Flow measuring device:
 meter elapsed time clock none
 Backflow prevention devices: yes no
 Cross-connections NONE observed

STORAGE TANKS

(G) Ground (C) Clearwell (E) Elevated
 (B) Bladder (H) Hydropneumatic/flow-through

Tank type	<u>H/I</u>		
Capacity	<u>10,000</u>		
Gravity drain	<u>yes</u>		
By-pass piping	<u>yes</u>		
Pressure gauge	<u>yes</u>		
On/Off pressure	<u>45 55</u>		
Sight glass	<u>yes</u>		
Fittings for sight glass	<u>-</u>		
Air release valve	<u>yes</u>		
Pressure relief valve	<u>-</u>		
Access padlocked	<u>yes</u>		

DEFICIENCIES / COMMENTS

Good work
~~NO DEFICIENCIES~~
 THANK YOU!

PLEASE CORRECT THE INDICATED DEFICIENCIES AND PROVIDE A WRITTEN STATEMENT TO THE DEPARTMENT NO LATER THAN _____ STATING THAT ALL LISTED DEFICIENCIES HAVE BEEN CORRECTED; FAILURE TO DO SO WILL RESULT IN THE TAKING OF APPROPRIATE ENFORCEMENT ACTION BY THE DEPARTMENT. Send your response to: Department of Environmental Protection, 3319 Maguire Blvd., Suite 232, Orlando, Florida 32803. Phone: (407)894-7555

Inspector Roberto C. Araya Title Env. Sup. II Date 6/19/97

Received by [Signature] Title Area Mgr. Date 6/19/97

Form left: on site with water plant operator with water purveyor

WATER TREATMENT PLANT COMPLIANCE INSPECTION REPORT

Plant name VISTAS S/O, The County LAKA PWS ID 3354773
 Address US Highway 27 South, Clermont, FL 32711 Phone 407/869-1919
 Owner name UTILITIES INC OF FL. Contact Don Rasmussen
 Owner address 100 Weatherfield Ave, Altamonte Springs Phone 407/869-1919
 This inspection date 6/19/97 Last C.I. date 10/06/95 Last survey date 10/22/96
 PWS Type: Community Non-Transient Non-Community Non-Community
 Service area characteristics RESIDENTIAL, SC No. of service connections 62
 Food service? Yes No Served population _____

OPERATION & MAINTENANCE

Certified operator: Yes No N/A

Operator & certification class-number:
A. J. ALVICH "C" #368

O&M log: yes no Oranges S/O

WELL

Number of wells 1 Standby well? _____

Auxiliary power.. yes no N/A

6' x 6' x 4" pad yes no

Sanitary seal..... OK _____

Raw water tap: yes no

not smooth nosed

Check valve..... yes no

Fence/housing.... yes no

Sanitary hazards _____

CHLORINATION

Chlorinator type: Gas Hypo

Cl₂ residual: Plant 2.5 PPM Remote 1.5 PPM

DPD-type test kit..... yes no

Gas cylinder scale..... yes no

Gas cylinder chained..... yes no

Adequate air-pak..... yes no

Fresh ammonia solution.. yes no

Adequate ventilation..... yes no

Dual chlorination..... yes no

Auto-switchover..... yes no

Alarm 1.0 lbs. D.M. yes no

AERATION: Type _____

Condition _____

OTHER TREATMENT PROCESSES:

OTHER

Flow measuring device:

6" Hersey meter elapsed time clock none

Backflow prevention devices: yes no

Cross-connections None observed

STORAGE TANKS

(G) Ground (C) Clearwell (E) Elevated

(B) Bladder (H) Hydropneumatic/flow-through

Tank type (Steel)	<u>H/I</u>			
Capacity	<u>10,000</u>			
Gravity drain	<u>YES</u>			
By-pass piping	<u>YES</u>			
Pressure gauge	<u>YES</u>			
On/Off pressure	<u>42/50</u>			
Sight glass	<u>YES</u>			
Fittings for sight glass	<u>-</u>			
Air release valve	<u>YES</u>			
Pressure relief valve	<u>-</u>			
Access padlocked	<u>YES</u>			

DEFICIENCIES / COMMENTS

NO NOTED
Def. noted
Good work
THANK YOU

PLEASE CORRECT THE INDICATED DEFICIENCIES AND PROVIDE A WRITTEN STATEMENT TO THE DEPARTMENT NO LATER THAN _____ STATING THAT ALL LISTED DEFICIENCIES HAVE BEEN CORRECTED; FAILURE TO DO SO WILL RESULT IN THE TAKING OF APPROPRIATE ENFORCEMENT ACTION BY THE DEPARTMENT. Send your response to: Department of Environmental Protection, 3319 Maguire Blvd., Suite 232, Orlando, Florida 32803. Phone: (407)894-7555

Inspector Roberto C. Amay Title Env. Sup. II Date 6/19/97

Received by Ray L. Donje Title Area Mgr. Date 6/19/97

Form left: on site with water plant operator with water purveyor

WATER TREATMENT PLANT COMPLIANCE INSPECTION REPORT

Plant name Lk. Ridge Club County Lake PWS ID 3354884
 Address EAST Lakeshore Dr. Clermont, FL 32711 Phone 407/869-1919
 Owner name UTILITIES, INC. of FL Contact Don Rasmussen
 Owner address 200 Weatherfield Ave. Altamonte Springs Phone 407/869-1919
 This inspection date 6/19/97 Last C.I. date 10/14/94 Last survey date 10/6/95
 PWS Type: Community Non-Transient Non-Community Non-Community
 Service area characteristics Residential, SC No. of service connections 78
 Food service? Yes No Served population _____

OPERATION & MAINTENANCE

Certified operator: Yes No N/A
 Operator & certification class-number:
A. J. ALARICH "C"

O&M log: yes no Clermont #1 Amber hills st

WELL

Number of wells 1 Standby well? _____
 Auxiliary power.. yes no N/A
 6' x 6' x 4" pad yes no
 Sanitary seal..... OK _____
 Raw water tap: yes no
 not smooth nosed
 Check valve..... yes no
 Fence/housing.... yes no
 Sanitary hazards _____

CHLORINATION

Chlorinator type: Gas Hypo
 Cl₂ residual: Plant 1.5 ppm Remote _____
 DPD-type test kit..... yes no
 Gas cylinder scale..... yes no
 Gas cylinder chained..... yes no
 Adequate air-pak..... yes no
 Fresh ammonia solution.. yes no
 Adequate ventilation..... yes no
 Dual chlorination..... yes no
 Auto-switchover..... yes no
 Alarm yes no

AERATION: Type visual
 Condition X

OTHER TREATMENT PROCESSES:

OTHER

Flow measuring device:
 meter elapsed time clock none
 Backflow prevention devices: yes no
 Cross-connections None observed.

STORAGE TANKS

(G) Ground (C) Clearwell (E) Elevated
 (B) Bladder (H) Hydropneumatic/flow-through

Tank type (Steel)	<u>H/I</u>			
Capacity	<u>9k. 7,500</u>			
Gravity drain	<u>yes</u>			
By-pass piping	<u>yes</u>			
Pressure gauge	<u>yes</u>			
On/Off pressure	<u>35/60</u>			
Sight glass	<u>yes</u>			
Fittings for sight glass	<u>-</u>			
Air release valve	<u>yes</u>			
Pressure relief valve	<u>-</u>			
Access padlocked	<u>yes</u>			

DEFICIENCIES / COMMENTS

1 1/2 H.A. G. wells

*NO DEFICIENCIES
 GOOD WORK
 THANK YOU*

PLEASE CORRECT THE INDICATED DEFICIENCIES AND PROVIDE A WRITTEN STATEMENT TO THE DEPARTMENT NO LATER THAN _____ STATING THAT ALL LISTED DEFICIENCIES HAVE BEEN CORRECTED; FAILURE TO DO SO WILL RESULT IN THE TAKING OF APPROPRIATE ENFORCEMENT ACTION BY THE DEPARTMENT. Send your response to: Department of Environmental Protection, 3319 Maguire Blvd., Suite 232, Orlando, Florida 32803. Phone: (407)894-7555

Inspector Roberto C. Arauz Title Env. Sup. II Date 6/19/97

Received by [Signature] Title Asst. Mgr. Date 6/19/97

Form left: on site with water plant operator with water purveyor

WATER TREATMENT PLANT COMPLIANCE INSPECTION REPORT

Plant name Highland Point County Lake PWS ID 3354657
 Address Bronson Rd. off S.R. 561 South, Clermont, FL 32711 Phone 407/869-1919
 Owner name Utilities, Inc. of Florida Contact Don Lasmus
 Owner address 200 W. Central Blvd. Altamonte Springs Phone 407/869-1919
 This inspection date 6/19/97 Last C.I. date 10/11/95 Last survey date 10/12/96
 PWS Type: Community Non-Transient Non-Community Non-Community
 Service area characteristics Residential SC No. of service connections _____
 Food service? Yes No Served population _____

OPERATION & MAINTENANCE

Certified operator: Yes No N/A
 Operator & certification class-number:
A. J. Aldrich "C"

O&M log: yes no Lk. Crescent Hill Crescent Bldg

WELL

Number of wells 1 Standby well? _____
 Auxiliary power.. yes no N/A
 6' x 6' x 4" pad yes no
 Sanitary seal..... OK _____
 Raw water tap: yes no
 not smooth nosed
 Check valve..... yes no
 Fence/housing.... yes no
 Sanitary hazards _____

CHLORINATION

Chlorinator type: Gas Hypo
 Cl₂ residual: Plant 1 Remote 5 ppm
 DPD-type test kit..... yes no
 Gas cylinder scale..... yes no
 Gas cylinder chained..... yes no
 Adequate air-pak..... yes no
 Fresh ammonia solution.. yes no
 Adequate ventilation..... yes no
 Dual chlorination..... yes no
 Auto-switchover..... yes no
 Alarm yes no

AERATION: Type _____

Condition _____

OTHER TREATMENT PROCESSES:

OTHER

Flow measuring device:
 meter elapsed time clock none
 Backflow prevention devices: yes no
 Cross-connections _____

STORAGE TANKS

(G) Ground (C) Clearwell (E) Elevated
 (B) Bladder (H) Hydropneumatic/flow-through

Tank type	<u>H11</u>			
Capacity	<u>5,000</u>			
Gravity drain	<u>yes</u>			
By-pass piping	<u>yes</u>			
Pressure gauge	<u>yes</u>			
On/Off pressure	<u>30/55</u>			
Sight glass	<u>yes</u>			
Fittings for sight glass	<u>-</u>			
Air release valve	<u>yes</u>			
Pressure relief valve	<u>-</u>			
Access padlocked	<u>yes</u>			

DEFICIENCIES / COMMENTS

water source is coming from Lk. Crescent Hill, Crescent Bldg & system down.

PLEASE CORRECT THE INDICATED DEFICIENCIES AND PROVIDE A WRITTEN STATEMENT TO THE DEPARTMENT NO LATER THAN _____ STATING THAT ALL LISTED DEFICIENCIES HAVE BEEN CORRECTED; FAILURE TO DO SO WILL RESULT IN THE TAKING OF APPROPRIATE ENFORCEMENT ACTION BY THE DEPARTMENT. Send your response to: Department of Environmental Protection, 3319 Maguire Blvd., Suite 232, Orlando, Florida 32803. Phone:(407)894-7555

Inspector Roberto C. Guay Title Env. Sup. II Date 6/19/97

Received by [Signature] Title Asst. Mgr. Date 6/19/97

Form left: on site with water plant operator with water purveyor

WATER TREATMENT PLANT COMPLIANCE INSPECTION REPORT

Plant name Four Lakes & Harbor Oaks County LAKES PWS ID 3354647
 Address Alpha Rd. off Ridgewood, off 455 W. Montverde, FL 34757 Phone 407/869-1919
 Owner name Utilities, Inc. of FL Contact Don Rasmussen
 Owner address 200 Weathersfield Ave. ALTHAMONTE Springs 32714 Phone 407/869-1919
 This inspection date 6/19/97 Last C.I. date 10/22/96 Last survey date 10/11/95
 PWS Type: Community Non-Transient Non-Community Non-Community
 Service area characteristics Residential No. of service connections 54
 Food service? Yes No Served population _____

OPERATION & MAINTENANCE

Certified operator: Yes No N/A
 Operator & certification class-number:
A. J. ALMICH C.I.
 O&M log: yes no

WELL

Number of wells 2 Standby well? _____
 Auxiliary power.. yes no N/A
 6' x 6' x 4" pad yes no
 Sanitary seal..... OK _____
 Raw water tap: yes no
 not smooth nosed
 Check valve..... yes no
 Fence/housing.... yes no
 Sanitary hazards _____

CHLORINATION

Chlorinator type: Gas Hypo
 Cl₂ residual: Plant 2.5 PPM Remote 1.2 PPM
 DPD-type test kit..... yes no
 Gas cylinder scale..... yes no
 Gas cylinder chained..... yes no
 Adequate air-pak..... yes no
 Fresh ammonia solution.. yes no
 Adequate ventilation..... yes no
 Dual chlorination..... yes no
 Auto-switchover..... yes no
 Alarm yes no

AERATION: Type _____

Condition _____

OTHER TREATMENT PROCESSES:

OTHER

Flow measuring device:
 meter elapsed time clock none
 Backflow prevention devices: yes no
 Cross-connections None observed

STORAGE TANKS

(G) Ground (C) Clearwell (E) Elevated
 (B) Bladder (H) Hydropneumatic/flow-through

Tank type (Steel)	H/I		
Capacity	2,000		
Gravity drain	yes		
By-pass piping	yes		
Pressure gauge	yes		
On/Off pressure	40/60		
Sight glass	yes		
Fittings for sight glass	-		
Air release valve	yes		
Pressure relief valve	-		
Access padlocked	yes		

DEFICIENCIES / COMMENTS

Handwritten notes:
 No deficiencies noted
 Good work
 Thank you

PLEASE CORRECT THE INDICATED DEFICIENCIES AND PROVIDE A WRITTEN STATEMENT TO THE DEPARTMENT NO LATER THAN _____ STATING THAT ALL LISTED DEFICIENCIES HAVE BEEN CORRECTED; FAILURE TO DO SO WILL RESULT IN THE TAKING OF APPROPRIATE ENFORCEMENT ACTION BY THE DEPARTMENT. Send your response to: Department of Environmental Protection, 3319 Maguire Blvd., Suite 232, Orlando, Florida 32803. Phone:(407)894-7555

Inspector Roberto C. Araya Title Env. Sup. II Date 6/19/97

Received by [Signature] Title Araya Date 6/19/97

Form left: on site with water plant operator with water purveyor

WATER TREATMENT PLANT COMPLIANCE INSPECTION REPORT

Plant name LAKE CRESCENT HILLS County LAKE PWS ID 3354883
 Address SR 561 South Clermont, FL 32711 Phone 407/869-1919
 Owner name UTILITIES INC. of FL. Contact Dan Rasmussen
 Owner address 700 Weatherfield Ave. ALTAMONTE Springs Phone 407/869-1919
 This inspection date 6/19/97 Last C.I. date 10/22/96 Last survey date 10/11/95
 PWS Type: Community Non-Transient Non-Community Non-Community
 Service area characteristics RESIDENTIAL SC No. of service connections 90
 Food service? Yes No Served population _____

OPERATION & MAINTENANCE

Certified operator: Yes No N/A
 Operator & certification class-number:
A. J. ALDRICH "C"

O&M log: yes no Crescent Bay
Highland Pt.

*min 10
 2 pumps
 905
 75
 KW*
WELL
 Number of wells 1 Standby well? _____
 Auxiliary power.. yes no N/A
 6' x 6' x 4" pad yes no
 Sanitary seal..... OK _____
 Raw water tap: yes no
 not smooth nosed
 Check valve..... yes no
 Fence/housing.... yes no
 Sanitary hazards _____

CHLORINATION

Chlorinator type: Gas Hypo
 Cl₂ residual: Plant 2.0 PPM Remote 5 PPM
 DPD-type test kit..... yes no
 Gas cylinder scale..... yes no
 Gas cylinder chained..... yes no
 Adequate air-pak..... yes no
 Fresh ammonia solution.. yes no
 Adequate ventilation..... yes no
 Dual chlorination..... yes no
 Auto-switchover..... yes no
 Alarm visual yes no

AERATION: Type _____

Condition X

OTHER TREATMENT PROCESSES:

OTHER

Flow measuring device:
 meter elapsed time clock none
 Backflow prevention devices: yes no
 Cross-connections None observed.

STORAGE TANKS

(G) Ground (C) Clearwell (E) Elevated
 (B) Bladder (H) Hydropneumatic/flow-through

Tank type (STAG)	H/I			
Capacity	10,000			
Gravity drain	yes			
By-pass piping	yes			
Pressure gauge	yes			
On/Off pressure	40 60			
Sight glass	yes			
Fittings for sight glass	-			
Air release valve	yes			
Pressure relief valve	-			
Access padlocked	yes			

DEFICIENCIES / COMMENTS

1. Clean algae in the pump head discharge.
 2. Check auto. switch for the aux. gen. (corrected - no problem)

PLEASE CORRECT THE INDICATED DEFICIENCIES AND PROVIDE A WRITTEN STATEMENT TO THE DEPARTMENT NO LATER THAN 7/19/97 STATING THAT ALL LISTED DEFICIENCIES HAVE BEEN CORRECTED; FAILURE TO DO SO WILL RESULT IN THE TAKING OF APPROPRIATE ENFORCEMENT ACTION BY THE DEPARTMENT. Send your response to: Department of Environmental Protection, 3319 Maguire Blvd., Suite 232, Orlando, Florida 32803. Phone: (407)894-7555

Inspector Roberto C. Araya Title Env. Sup. II Date 6/19/97

Received by [Signature] Title Area Mgr. Date 6/19/97

Form left: on site with water plant operator with water purveyor

WATER TREATMENT PLANT COMPLIANCE INSPECTION REPORT

Plant name Oranges S/D, THC County LAKA PWS ID 3354685
 Address Lk. Louisa Road, Clermont, FL 32711 Phone 407/869-1919
 Owner name UTILITIES, INC. of FL Contact Don Rasmussen
 Owner address 200 Weatherfield Ave. ALTHAMONIC Springs Phone 407/869-1919
 This inspection date 6/19/97 Last C.I. date 10/06/95 Last survey date 10/22/96
 PWS Type: Community Non-Transient Non-Community Non-Community
 Service area characteristics RESIDENTIAL, SC No. of service connections 85
 Food service? Yes No Served population _____

OPERATION & MAINTENANCE

Certified operator: Yes No N/A

Operator & certification class-number:
A. J. ALDRICH "C" 6368

O&M log: yes no

WELL

Number of wells 1 Standby well? _____

Auxiliary power.. yes no N/A

6' x 6' x 4" pad yes no

Sanitary seal..... OK _____

Raw water tap: yes no

not smooth nosed

Check valve..... yes no

Fence/housing.... yes no

Sanitary hazards _____

CHLORINATION

Chlorinator type: Gas Hypo

Cl₂ residual: Plant 2.5 PPM Remote _____

DPD-type test kit..... yes no

Gas cylinder scale..... yes no

Gas cylinder chained..... yes no

Adequate air-pak..... yes no

Fresh ammonia solution.. yes no

Adequate ventilation..... yes no

Dual chlorination..... yes no

Auto-switchover..... yes no

Alarm less than 10 lbs. yes no

AERATION: Type _____

Condition _____

OTHER TREATMENT PROCESSES:

OTHER

Flow measuring device:

meter elapsed time clock none

Backflow prevention devices: yes no

Cross-connections None observed.

STORAGE TANKS

(G) Ground (C) Clearwell (E) Elevated

(B) Bladder (H) Hydropneumatic/flow-through

Tank type (Steel)	H11		
Capacity	5,000		
Gravity drain	yes		
By-pass piping	yes		
Pressure gauge	yes		
On/Off pressure	38 58		
Sight glass	yes		
Fittings for sight glass	-		
Air release valve	yes		
Pressure relief valve	-		
Access padlocked	yes		

DEFICIENCIES / COMMENTS

~~NO Def. noted work needed~~
 THANK YOU

Goulds / HP

8" Precip.

PLEASE CORRECT THE INDICATED DEFICIENCIES AND PROVIDE A WRITTEN STATEMENT TO THE DEPARTMENT NO LATER THAN _____ STATING THAT ALL LISTED DEFICIENCIES HAVE BEEN CORRECTED; FAILURE TO DO SO WILL RESULT IN THE TAKING OF APPROPRIATE ENFORCEMENT ACTION BY THE DEPARTMENT. Send your response to: Department of Environmental Protection, 3319 Maguire Blvd., Suite 232, Orlando, Florida 32803. Phone:(407)894-7555

Inspector Roberto C. Amador Title Env. Sup. II Date 6/19/97

Received by [Signature] Title Area Mgr. Date 6/19/97

Form left: on site with water plant operator with water purveyor

Lake Utility Services, Inc.

Analysis of Interconnected Mains

TYE 12/31/95

<u>Reference No.</u>	<u>Vendor No.</u>	<u>Vendor Name</u>	<u>Dollar Amt.</u>
38509	6760	Farner Barley & Associates	1,707.50
40159	6760	Farner Barley & Associates	275.00
41817	6760	Farner Barley & Associates	1,320.00
42756	6760	Farner Barley & Associates	724.63
44269	6760	Farner Barley & Associates	245.00
44638	6760	Farner Barley & Associates	2,052.50
46521	6760	Farner Barley & Associates	500.00
46667	6760	Farner Barley & Associates	1,712.50
48361	6760	Farner Barley & Associates	2,522.50
48362	6760	Farner Barley & Associates	149.25
52237	6760	Farner Barley & Associates	1,208.77
52238	6760	Farner Barley & Associates	2,886.63
56325	6760	Farner Barley & Associates	117.00
56326	6760	Farner Barley & Associates	225.00
57560	6760	Farner Barley & Associates	150.00
53815	6760	Farner Barley & Associates	2,382.21
53816	6760	Farner Barley & Associates	750.00
54760	6760	Farner Barley & Associates	5,000.00
55109	6760	Farner Barley & Associates	235.00
55110	6760	Farner Barley & Associates	487.50
58131	8116	Bellevue Underground, Inc.	51,419.66
58731	6760	Farner Barley & Associates	2,110.00
60108	6760	Farner Barley & Associates	870.21
60568	1228	Clayton Group Inc	575.00
60569	1228	Clayton Group Inc	153.69
60656	8116	Bellevue Underground, Inc.	60,711.54
61629	6760	Farner Barley & Associates	812.50
62409	6760	Farner Barley & Associates	200.00
63696	8306	H.C. Connell, Inc.	3,289.00
65620	3466	American Express	820.00
65915	6760	Farner Barley & Associates	742.50
67133	6760	Farner Barley & Associates	1,012.50
69831	6471	Ben E. Girtman, Attorney at Law	1,978.23
73007	6760	Farner Barley & Associates	600.00
73723	6471	Ben E. Girtman, Attorney at Law	787.42
495	8306	H.C. Connell, Inc.	4,882.91
496	8306	H.C. Connell, Inc.	101,116.90
2223	6760	Farner Barley & Associates	4.90
2224	6760	Farner Barley & Associates	80.00
78570	6760	Farner Barley & Associates	405.90
79292	6760	Farner Barley & Associates	600.00
79840	6760	Farner Barley & Associates	1,602.50
82636	6760	Farner Barley & Associates	345.00

82637	6760	Farner Barley & Associates	937.50
82779	6760	Farner Barley & Associates	167.12
83602	6760	Farner Barley & Associates	1,787.50
83839	6471	Ben E. Girtman, Attorney at Law	199.02
85025	8306	H.C. Connell, Inc.	68,124.55
85026	6760	Farner Barley & Associates	625.00
86875	8306	H.C. Connell, Inc.	65,879.28
87345	8306	H.C. Connell, Inc.	9,910.45
88286	6760	Farner Barley & Associates	1,401.25
88918	8306	H.C. Connell, Inc.	52,979.38
88919	8306	H.C. Connell, Inc.	2,504.47
89445	6760	Farner Barley & Associates	525.00
89447	8306	H.C. Connell, Inc.	127,828.93
90067	6760	Farner Barley & Associates	573.16
90068	6760	Farner Barley & Associates	1,012.50
91052	6760	Farner Barley & Associates	262.50
91055	8306	H.C. Connell, Inc.	101,582.22
91055	8306	H.C. Connell, Inc.	67,871.00
95492	8306	H.C. Connell, Inc.	59,456.43
96262	6760	Farner Barley & Associates	90.40
98338	9106	McCoy & Associates	1,250.00

Sub-Total - Invoices

824,739.01

Sub 628	Operator's Capitalize Time	282.00
Sub 634	Operator's Capitalize Time	94.00
Sub 636	Operator's Capitalize Time	634.50
Sub 661	Operator's Capitalize Time	3,666.00
Sub 662	Operator's Capitalize Time	3,008.00
Sub 665	Operator's Capitalize Time	470.00
Sub 628	Operator's Capitalize Time	240.00
Sub 631	Operator's Capitalize Time	432.00
Sub 632	Operator's Capitalize Time	972.00
Sub 633	Operator's Capitalize Time	2,760.00
Sub 634	Operator's Capitalize Time	936.00
Sub 636	Operator's Capitalize Time	1,734.00
Sub 661	Operator's Capitalize Time	3,318.00
Sub 662	Operator's Capitalize Time	696.00
Sub 665	Operator's Capitalize Time	1,632.00
Sub 667	Operator's Capitalize Time	22,536.00
Sub 628	Operator's Capitalize Time	4,532.00

Sub-Total - Capitalized Time

47,942.50

Sub-Total - CIAC Property

28,500.00

Total - Interconnecting Mains

901,181.51



Water Distribution Training Course

AMERICAN WATER WORKS ASSOCIATION
MANUAL OF WATER SUPPLY PRACTICE

tained under fire demand, particularly in high-value districts, as such pressures permit the fire department to use direct streams from the hydrants effectively without pumpers.

The topography of a service area has much to do with the maintenance of good pressures throughout the system. When the area is very hilly and has a considerable range of elevation, it becomes nearly impossible to effect a standard pressure which is neither too high in the low areas nor too low in the high areas. Pressures in excess of 100 psi should preferably be avoided, but sometimes they cannot be. When such high pressures are necessary, it is wise to have the individual customers provide pressure-reducing valves to limit the pressures to 100 psi or less.

Although excess pressures promote pipeline failures and excess leakage, the losses resulting from increased leakage and the cost of repairing mains (for the most part) broken by pressure increases are usually more than offset by the increased revenues resulting from better registration of meters and increased usage. This is true, of course, only if the system is substantially metered.

Unaccounted-for Water

Conservation of water is a fundamental and proper concern of water system operation, not only to prevent depletion and ill use of an important natural resource, but to secure direct money savings in operation and long-range savings in deferred capital costs for plant expansion. Good modern water utility practice dictates that all customer services be metered whenever possible. Plant output as well as plant uses should likewise be metered to secure proper records. The difference between the total net plant output delivered to the distribution system and the total measured quantity of water passing through customers' services for the same specified time is termed the "unaccounted-for" or the "non-revenue-producing" water.

Use of Estimates

In order to reduce unaccounted-for water as much as possible, many operators attempt to estimate the amount of unmetered uses, such as street flushing and fire-fighting or service to publicly owned buildings, hospitals, and charitable institutions. Such attempts sometimes go as far as to include allowances for system leakage and underregistration of customer meters and thereby account for almost all the water produced.

In systems which are completely metered, or substantially so, a proper determination of unaccounted-for water should contain no estimates, for, in the final analysis, the judgment of the estimator is biased by his desire to explain away excess losses, waste, or unmetered uses. In systems where

SYSTEM CAPACITY

only partial metering is in effect, accurate estimates of unaccounted-for water are virtually unobtainable. If unmetered customers form a relatively small percentage of the total, an estimate of water used by such customers based upon the average use of similar metered customers may be proper to secure a reasonable estimate, but the basis for such estimates should be recorded.

The amount of water used for flushing streets and fighting fires is relatively small. It has been estimated by some operators to be 1-3 per cent. The amount of water lost in the pipe system through unavoidable leakage—that is, leakage in mains and services which would cost more to locate and stop than the lost water is worth—has been variously estimated at 1,000-3,000 gpd per mile of pipe, depending on such factors as the age and condition of the pipe system, prevailing system pressures, and ground conditions. Underregistration of meters in a system may vary from as low as 2 per cent to as high as 15 per cent, depending upon the size of meter and efficiency of the meter maintenance program. Unauthorized uses of water, such as through an unmetered fire line or, on occasion, by deliberately bypassing meters, sometimes prove to be an important factor.

Desirable Results

The proper amount of unaccounted-for water in any given system is a function of that system alone. It might range, in a substantially fully metered system, from as much as 35 per cent to as little as 5 per cent. The former percentage may apply if pressures are very high and variable, leakage is difficult to detect and remedy, the pipe system is extensive and old, or practically all customers use water only in small amounts (a principal cause of underregistration of meters). The smaller percentage may be a result of low pressures, the existence of only a few customers who each take a considerable percentage of the total water, and a small mileage of mains.

A fair average of unaccounted-for water might be 10-20 per cent for fully metered systems with good meter maintenance programs and average conditions of service.

Expansion of Service Areas

Expansion of service areas presents one of the most critical problems in the provision of adequate and reliable water service. In most cities, great increases in population are not taking place within the political boundaries; they are more often taking place through rather haphazard annexation of outlying areas. County- or area-wide planning is becoming increasingly necessary to determine adequately the extent of the future growth of a water system. The extent of such expansion, both in the immediate and more remote future, must be recognized in planning the distribution system.

Distribution System(s) for LUSI

	# of Lots Served	Total # of Lots
Clermont II	35	70
Highland Point	32	48
Crescent Bay	45	107
Crescent West	70	102
Lake Crescent Hills	77	138
Preston Cove	49	107
South Clermont Region	182	677
EDB customers		* -44
Total	433	1,135

* Note - When water lines were installed to serve EDB homes the mains passed 44 existing homes with wells