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January 4, 2022

VIA Electronic Filing to the Office of Commission Clerk
Florida Public Service Commission
Office of Commission Clerk
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Re: Docket No. 20210095-WU - Application for transfer of water facilities of Sunshine Utilities of Central Florida, Inc. and Water Certificate No. 363-W to CSWR-Florida Utility Operating Company, LLC, in Marion County.

Dear Commission Clerk:

At the request of Commission Staff, along with this cover letter CSWR-Florida Utility Operating Company, LLC files redacted copies of twenty-three (23) water system assessment expert engineering reports, which are responsive to Staff's November 22, 2021 Fourth Data Request. These reports are submitted in redacted form pursuant to the Request for Confidential Classification filed by CSWR-Florida UOC earlier today.

Thank you for the opportunity to submit additional information in support of the application.

Sincerely,
/s/ Thomas A. Crabb
Thomas A. Crabb
Susan F. Clark
Attorneys for Applicant CSWR-Florida Utility Operating Company, LLC

cc: Anastacia Pirrello, Esq., Office of Public Counsel (pirrello.anastacia@leg.state.fl.us)
Thomas J. Dobbins (sunshineutl@aol.com)

WATER SYSTEM ASSESSMENT

Ashley Heights Subdivision

210 South Florida Avenue | Suite 220
Lakeland, Florida 33801
800.426.4262

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

0233748.01
CSWR
July 2021

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» SWAPP Homepage
» Search By County
» Search by PWS Name or Number
» How to Help?

Definitions

» Aquifers
» Public Water Systems
» Assessment
» Potential Contaminants
» Susceptibility
» Prevention

Contact Us

» Email
» Mailing Address
» Source Water Protection Workshop

EPA Source Water Protection website

Source Water Assessment & Protection Program

Results for: 2019

ASHLEY HEIGHTS S/D
5580 NE 11TH AVENUE
OCALA, FL 34420

Public Water System ID: 3424962
County: MARION
DEP Regulatory Office: DEP Central District
3319 Maguire Blvd, Suite 232
Orlando, FL 32803
407-897-4100
Public Water System Type : COMMUNITY
Public Water System Source : GROUND
Primary Use: SUBDIVISION
Population Served: 154
Size of Assessment Area:
GROUND: For this system, a 1000-foot radius circle around each well was used to define the assessment area.

Number of Wells: 1

Well ID	Owner ID	FLUWID	Status	Well Depth(ft)	Aquifer
6309	4-INCH	AAE0274	ACTIVE	120	Floridan Aquifer

Results:

GROUND WATER:
A search of the data sources indicated no potential sources of contamination.

Last updated: February 19, 2020

Accessibility Information

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Privacy Statement

3900 Commonwealth Boulevard M.S. 49
Tallahassee, Florida 32399
850-245-2118 (phone) /
850-245-2128 (fax)

APPENDIX B: TANK INSPECTION REPORT

INSPECTION AND TESTING of HYDROPNEUMATIC TANK

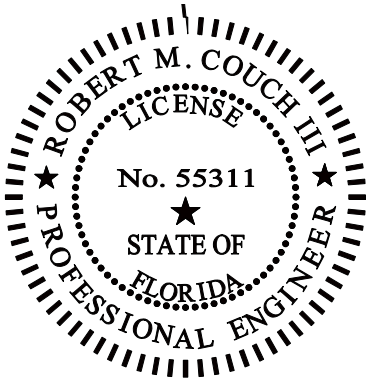
Ashley Heights Subdivision Tank

Pursuant to Chapter 62-555.350 (1) & (2) F.A.C

Water System:	Ashley Heights Subdivision
Street Address:	5580 NE 11th Avenue
City, State:	Ocala, Florida
Phone:	352-347-8228
Contact:	Dewaine Christmas
E-mail:	sunshineutl@aol.com
PWS ID No.:	3424962
County:	Marion
Classification:	Community
Source:	Ground
Ownership:	Sunshine Utilities of North Central Florida
Date:	December 6, 2018

Inspection and Testing by:

Robert M. Couch III, P.E.
ENVIRO-TECH, Inc.
15290 SE Highway 42, PO Box 152
Weirsdale, FL 32195
Telephone: 352-694-1799
E-mail: envirotech@ymail.com



C.O.A. No. 8692 Registration No. 55311

Robert M. Couch III, P.E.

Digitally signed by Robert M. Couch III, P.E.
DN: cn=Robert M. Couch III, P.E., o=ENVIRO-TECH, Inc., ou=Reg. No. 55311, email=envirotech@ymail.com, c=US
Date: 2019.01.05 23:49:30 -05'00'

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1.0 EXECUTIVE SUMMARY

ENVIRO-TECH, Inc. was contracted to perform the five year tank condition inspection on the above mentioned hydro-pneumatic tank.

This condition inspection was performed on December 6, 2018 by Robert M. Couch III, P.E. on the above referenced water tank. The tank was drained and, an internal and external inspection was performed to assess the tank condition as required by the Florida Department of Environmental Protection (FDEP) Rule 62-555.

The tank shell and heads appeared to be in overall fair structural condition. Ultrasonic Thickness Measurement (UTM) readings indicated that the average thickness of the tank shell at the time of the field inspection was approximately 6.06 millimeters. UTM readings from the tank heads indicated an average thickness of 7.56 millimeters. The exterior coating of the tank appeared to be in overall good condition with no notable surface corrosion. The interior coating of the tank appeared to be in poor condition. There was no coating on significant areas of the tank interior and corrosion was noted throughout the tank interior.

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 65 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 58 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

2.0 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS CHAPTER 62-555.350 (1) & (2)

2.1 Operation and Maintenance of Public Water Systems

(1) Suppliers of water shall operate and maintain their public water systems so as to comply with applicable standards in Chapter 62-550, F.A.C., and requirements in this chapter.

(2) Suppliers of water shall keep all necessary public water system components in operation and shall maintain such components in good operating condition so the components function as intended. Preventive maintenance on electrical or mechanical equipment – including exercising of auxiliary power sources, checking the calibration of finished-drinking-water meters at treatment plants, testing of air or pressure relief valves for hydropneumatic tanks, and exercising of isolation valves –shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water; however, in no case shall auxiliary power sources be run under load less frequently than monthly. Accumulated sludge and biogrowths shall be cleaned routinely (i.e., at least annually) from all treatment facilities that are in contact with raw, partially treated, or finished drinking water and that are not specifically designed to collect sludge or support a biogrowth; and blistering, chipped, or cracked coatings and linings on treatment or storage facilities in contact with raw, partially treated, or finished drinking water shall be rehabilitated or repaired. **Finished-drinking-water storage tanks, including conventional hydropneumatic tanks with an access manhole but excluding bladder- or diaphragm-type hydropneumatic tanks without an access manhole, shall be checked at least annually to ensure that hatches are closed and screens are in place; shall be cleaned at least once every five years to remove biogrowths, calcium or iron/manganese deposits, and sludge from inside the tanks; and shall be inspected for structural and coating integrity at least once every five years by personnel under the responsible charge of a professional engineer licensed in Florida.** Dead-end water mains conveying finished drinking water shall be flushed quarterly or in accordance with a written flushing program established by the supplier of water; additionally, dead-end or other water mains conveying finished water shall be flushed as necessary whenever legitimate water quality complaints are received.

2.2 Location of Inspection and Testing Report

Pursuant to Chapter 62-555.350 (2) and 62-555.350 (12) FAC, beginning 28 August 2003, all water systems regardless of size must maintain a copy up-to-date Preventive Maintenance Logs of each water system in the water facility office. The Preventive Maintenance Logs must show the date and type of all maintenance performed and comply with Rule 62-555.350 (2) and 62-555.350 (12), which requires the following:

- Preventive Maintenance Logs on Electrical and Mechanical Equipment
- Cleaning and Inspection Logs of Treatment Facilities and Storage Tanks
- Records of Coatings and Linings Rehabilitation or Repair
- Licensed Engineer Inspection Report (once every 5-years) for Finished-Drinking-Water Storage Tanks and Hydropneumatic Tanks
- Written Flushing Program and Logs showing that Dead-End Water Mains are being flushed at least quarterly
- Isolation Valves Exercise Logs

A copy of this report should be kept with these records.

3.0 HYDROPNEUMATIC PRESSURE TANK INSPECTION AND TEST PROCEDURES

This Inspection and Test Procedures is used as a reference in the overall inspection and testing of this Water System. This procedure is to be updated from time to time to reflect physical and procedural changes to the water system.

Inspection and testing of this tank was conducted by Robert M. Couch III, P.E. with the assistance of Jim Hodges Jr. of Sunshine Utilities of North Central Florida, Inc. The following inspection and testing procedures for hydropneumatic pressure tanks were used:

3.1 Pre-Test Procedures

1. If water service is to be interrupted customers must be notified in advance and if appropriate, boil water notices issued.

2. Turn-off all electrical power to well pumps, air motors, chlorination equipment, etc.

3. Open drain valve to empty tank. This is also a good time to check the valves (exercise them) that isolate the tank to see if they are in fact working as they should. This downtime can also be used to replace a valve if needed.

4. Once depressurized, the site glass is inspected for proper operation.

5. Once the tank is drained, the manway (hatch) will need to be removed for inspection of the interior.

3.2 Visual Inspection

6. Perform visual inspection of the tank exterior and accessories for presence of leaks, shell distortion, signs of settling, deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, accessories, etc.

7. Tank layout and physical measurements

8. Color photographs of the tank exterior and all of the essential appurtenances

9. Perform visual inspection of the tank interior for presence of deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, bio-growths, calcium or iron/manganese deposits, sludge, etc.

3.3 Nondestructive Examination

10. The tank interior coating is then examined for dry film thickness (See PosiTest® DFT Coating Thickness Gauge measurement) or equivalent.

11. The tank exterior is then examined for thickness measurements (See Smart Sensor AR 850+ Ultrasonic Thickness Gauge measurement).

12. If deemed necessary, the tank exterior (or interior) is then examined for porosity, pinholes and leaks (See PCWI porosity detection test, also known as holiday detector test).

3.4 Post-Test Procedures

13. Any coating problems detected should be corrected while the tank is out of service in order to avoid further extensive downtime.

14. Once the tank is inspected and all maintenance items are taken care of, the tank will need to be disinfected prior to placing back in use.

15. Once the tank has been disinfected, bacteriological tests must be performed on water samples (2 per FDEP) taken from the tank discharge. FDEP to clear for service prior to placing back in service.

3.5 Safety of Test Area

The test area should be restricted and barricaded. The porosity testing instrument output can be up to 20,000 volts. Testing should be carried out well clear of personnel not involved in the testing procedure. Should accidental contact be made with the test electrode, the recipient will receive a mild shock. This equipment should never be used by a person with a pacemaker.

4.0 TEST EQUIPMENT DESCRIPTIONS

4.1 AR 850+ Ultrasonic Thickness Gauge



The Smart Sensor AR 850+ Digital Ultrasonic Thickness Gauge is an economical, user-friendly, menu driven, and multi-functional unit offering extensive features from basic measurements to extended memory. This dynamic series of UT gauges is designed to measure the thickness of metallic and non-metallic materials such as steel, aluminum, titanium, plastics, ceramics, glass and any other good ultrasonic wave conductor as long as it has parallel top and bottom surfaces. The AR 850+ gauges will accurately display readings in millimeters after a simple calibration to a known Thickness or sound velocity.

4.1.1 Features

- Main Unit
- Transducer 5 MHz / 2.5 MHz
- Integrated steel calibration plate 4.0mm
- Batteries (2 x AAA)
- Ultrasonic Couplant
- Operation Manual
- Certificate
- Carrying Case
- One Year Warranty

4.1.2 Technical Specification

Display Type	4-digit LCD
Display Resolution	(<100 mm) 0.1 mm
Units	Metric
Measuring Range (steel)	1.2 to 220.0 mm
Sound Velocity Range	1000 to 9999 m/s
Operating Temperature	0 ° C +45° C
Frequency	5 MHz
Power Source	3 X 1.5V AAA batteries
Dimensions	70x145.5x28 mm

4.2 Compact DC Inspector Porosity Detector



Porosity detection of Tanks, Valves, Pumps, Pipeline field joints, and general inspection and maintenance. Suitable for a broad range of testing and inspection requirements. It is recommended that the integral probe be limited to a 125mm flat brush or fan brush.

4.2.1 Standards

ASTM G62-87(1998), ASTM D4787-93(1999), NACE RP0274-98, NACE RP0490-2001, NACE RPO188- 99, JIS G-3491, JIS G-3492, ANSI/AWWA C214-89, ANSI/AWWA C213-94 and ISO 2746:1998

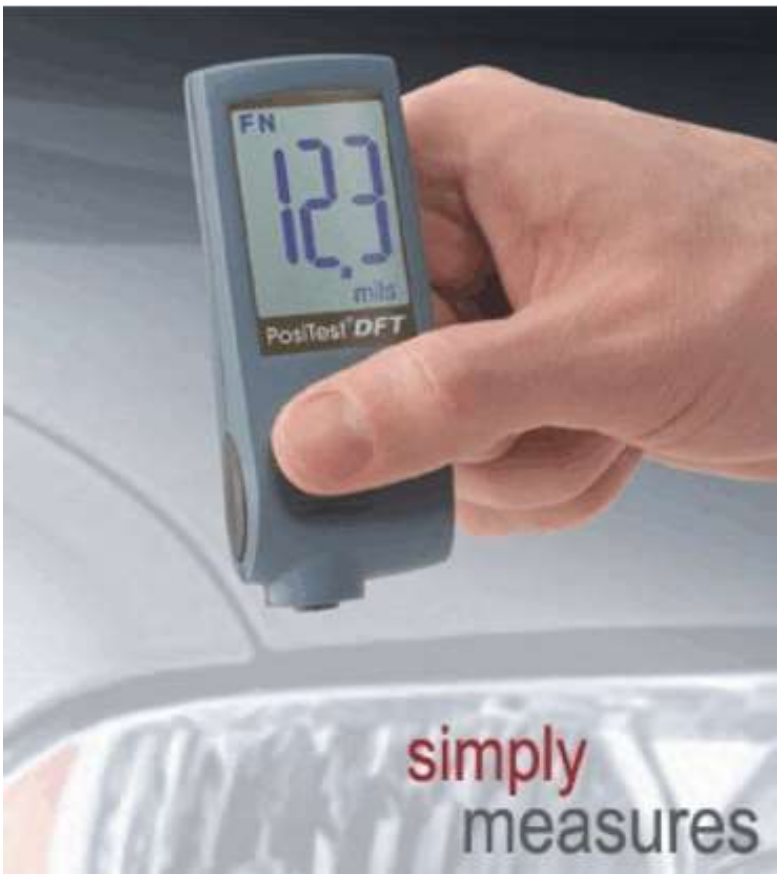
4.2.2 Features

- LED bar graph display of voltage
- "Single" hand-held, lightweight unit for simplicity and ease of operation
- Audible and visual alarms
- LED battery condition indicator
- Integral probe
- Detector
- 7m Earth lead and clamp
- Flat 125mm wide brass wire brush (or optional fan brush)
- Carry Case
- Operating instructions with conformance certificate
- Variable output up to 10kV or Variable output up to 20kV

4.2.3 Technical Specifications

Test Voltage	to 10kV (using 9V Battery)
Output Test Current	up to 100µA
Operating Temperature	-20 to +50ºC
Power Supply	Battery (9V internal)
Unit Dimensions	210 x 75 x 35mm (excl brush) 8.25" x 3.1" x 1.5"
Unit Weight	460g (incl probe)
Shipping Weight	1.5Kg

4.3 PosiTest DFT Coating Thickness Gauge



The new PosiTest DFT Coating Thickness Gauge measures coatings on ALL metals. It is the economical choice that retains the uncompromising quality of Qualitest inspection instruments.

Available in two models:

- PosiTest DFT Ferrous - measures non-magnetic coatings on steel.
- PosiTest DFT Combo - measures both non-magnetic coatings on steel and non-conductive coatings on aluminum, brass, etc. Automatically recognizes the substrate and takes a measurement.

4.3.1 Standards

ASTM B244/B499/B659/D1186/D1400/E376/G12, BS3900-C5, SSPC-PA2, ISO 2178/2360/2808, prEN ISO 19840, and others. Certificate of Calibration traceable to NIST available.

4.3.2 Features

- Fast, repeatable measurements
- No calibration required for most applications
- ZERO feature for rough or curved surfaces
- Handy RESET feature when no zero reference is available
- Strong, wear resistant, ruby-tipped probe
- Audible and visible measurement indication
- V-groove in probe for positioning on cylindrical parts
- Mils/Microns switchable
- Basic instructions on the back of each gauge

4.3.3 Technical Specifications

Measurement Range	0-40 mils (-1000 µm)
Accuracy	±(0.1 mils + 3%) (±(2µm + 3%))
Size	4 x 1.5 x 0.9 in (100 x38 x 23 mm)
Weight	2.5 oz (70 g)



5.0 HYDROPNEUMATIC PRESSURE TANK DESCRIPTION

The hydropneumatic pressure tank inspected and tested is described as follows:

Length: 23'-11" (25'-9" including elliptical heads)
Diameter: 6'-0" outside diameter
Volume: 5,000 gallons with elliptical heads
Tank Age: Unknown
Operating Pressure: 60 psi

6.0 TESTING

6.1 Porosity Testing

The tank surface was not swept with the Compact DC Inspector Porosity Detector during this inspection as no evidence of pin holes was observed throughout the surface of the tank.

6.2 Interior Coating Testing

No dry film thickness readings were taken as coating was missing from significant portions of the tank interior.

6.3 Ultrasonic Metal Thickness Testing

A total of 68 metal thickness readings were taken at various locations on the tank shell and head surface. The average shell reading was 6.06 millimeters in the cylindrical section and 7.56 millimeters in the elliptical heads. Typical industry standard minimum wall thickness for tanks of this size is 1/4" (6.35 mm).

7.0 VISUAL OBSERVATIONS

7.1 Tank Exterior

The exterior of the tank appeared to be in fair structural condition. No lichens were growing on the tank exterior at the time of the inspection.

7.2 Tank Interior

The tank interior appeared to be in poor condition. There were significant areas with no coating present and corrosion noted throughout the tank interior.

8.0 DEFINITIONS

Design Pressure - The maximum design pressure determined from the metal thickness.

Maximum allowable working pressure (MAWP) – Maximum pressure that the pressure tank is capable of safely holding at a design maximum temperature (250ºF).

Operating Pressure - The normal maximum operating pressure of the pressure tank. The normal operating pressure must always be below the MAWP. As a rule of thumb the maximum operating pressure should always be less than the MAWP.

Metal Thickness – The thickness of the pressure tank wall (not including a corrosion allowance) to be used in the pressure calculations.

Design Safety Factor on Metal Tensile Strength – A pressure tank is normally designed with a safety factor of 3 to 4 on the metal tensile strength. All pressure tanks are designed to operate with wall stresses below the yield point of the metal used for fabrication.

9.0 TANK PRESSURE CALCULATIONS

The following formula is found in ASME Section I for determination of MAWP:

For tanks with circumferential stress on (longitudinal joints)

P = SEt/(R+0.6t)
= 60 MPa x 1.0 x 6.06 mm / (908 mm+0.6 x 6.06 mm)
= 0.399 MPa
= 58 psi

When:

t < 0.5R = 0.5 x 908 = 454 mm (true) or
P < 0.385SE = 0.385 x 60 x 1.0 = 23.1 MPa (true)

Where:

t = metal thickness (mm) where t = 6.06 mm
R = inside radius of shell course under consideration (mm) = 908 mm
E = joint efficiency for cylindrical or spherical shells = 1.0 for welded tanks and corresponds to a safety factor of 3.5 in the parent metal.
P = maximum allowable working pressure (MPa) where 1 MPa = 145 psi
S = maximum allowable stress value at the operating temperature of the metal = 60 MPa (Safety Factor of 4).

10.0 CONCLUSIONS

Inspection and testing of the Ashley Heights subdivision 5,000-gallon hydropneumatic pressure tank was performed on December 6, 2018. In addition to a visual examination, non-destructive examinations were also made. Non-destructive examinations included ultrasonic measurement of the tank wall thickness and visual inspection for pinholes and leaks. No examination of Dry Film Thickness Measurement (DFTM) of the interior coating was performed as there was no interior coating present on significant portions of the interior.

Observations of the tank exterior indicated tank is subject to normal exposure. Observations of tank interior revealed surface corrosion throughout significant portions of the tank interior.

11.0 RECOMMENDATIONS

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 65 PSI or lower.
- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.
- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 58 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

Signed: Robert M. Couch III Date: 1/5/2019

Robert M. Couch III, P.E. Registration No. 55311

Exterior and interior views of tank







APPENDIX C: EMERGENCY RESPONSE PLAN

Disaster-Specific Preparedness/Response Plan

for Public Drinking Water Systems

Per Chapter 62-555.350 (15) F.A.C.

Sunshine Utilities

ASHLEY HEIGHTS

Address:	10230 East Hwy. 25 Belleview, FL 34420
Phone:	352-347-8228
Fax:	352-347-6915
Contact:	Dewaine Christmas, Manager
E-mail:	SunshineUtl@AOL.COM
Connections:	49
PWS:	3424962
County:	Marion

May 17, 2013

Department of Environmental Protection
Michael D. LeRoy, P.E.
John R. Sowerby, P.E.

FRWA Security Staff
Sterling L. Carroll, P.E.
Ken Klos, P.E.
Coy Donaldson

For more information or additional copies of this document contact:

FLORIDA RURAL WATER ASSOCIATION
2970 Wellington Circle ~ Suite 101 ~ Tallahassee
Telephone: 850-668-2746 ~ Fax: 850-893-4581
e-mail: FRWA@frwa.net

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This template and guide has been developed by the Florida Rural Water Association (FRWA) in collaboration with the Washington State Department of Health, Office of Drinking Water, Olympia, Washington; and reviewed by Florida Department of Environmental Protection.

Acknowledgment of federal government support of this project:

This project and the preparation of this booklet was funded in part by a Water Protection Coordination grant from the Environmental Protection Agency through an agreement/contract with the Drinking Water Program of the Department of Environmental Protection. Total cost of the project was $3,000 of which $3,000 or 100 percent, was provided by the U.S. Environmental Protection Agency.

Preface
Chapter 62-555.350 (15) FAC

Disaster-Specific Preparedness/Response Plans

(15) Suppliers of water who own or operate a community water system serving, or designed to serve, 350 or more persons or 150 or more service connections shall develop a written emergency preparedness/response plan in accordance with Emergency Planning for Water Utilities, AWWA Manual M19, as adopted in Rule 62-555.335, F.A.C., by no later than December 31, 2004, and shall update and implement the plan as necessary thereafter. Said suppliers of water shall coordinate with their Local Emergency Planning Committee and their Florida Department of Law Enforcement Regional Security Task Force when developing their emergency plan and shall include in their plan all of the information in paragraphs (a) through (e) below.

(a) A Communication Charts as described in Chapter 5 of AWWA Manual M19.

(b) Written agreements with other agencies, utilities, or response organizations.

(c) A disaster-specific preparedness/response plan as described in Chapter 5 of AWWA Manual M19 for each of the following disasters: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release. Each disaster-specific preparedness/response plan shall incorporate the results of a vulnerability assessment; shall include actions and procedures, and identify equipment, that can obviate or lessen the impact of such a disaster; and shall include plans and procedures that can be implemented, and identify equipment that can be utilized, in the event of such a disaster.

(d) Details about how the water system meets the standby power requirements under subsection 62-555.320(14), F.A.C., and, if applicable, recommendations regarding the amount of fuel to maintain on site, and the amount of fuel to hold in reserve under contracts with fuel suppliers, for operation of auxiliary power sources.

(e) If applicable, recommendations regarding the amount of drinking water treatment chemicals, including chemicals used for regeneration of ion-exchange resins or for onsite generation of disinfectants, to maintain in inventory at treatment plants.

Specific Authority 403.861(9) FS. Law Implemented 403.852(12), 403.853(6), 403.861(17) FS. History-New 11-19-87, Formerly 17-22.650, Amended 1-18-89, 1-1-93, Formerly 17-555.350, Amended 8-28-03.

Time Extension for Submitting/Completing ERP – December 31, 2005

From: Hoofnagle, Van
Sent: Thursday, October 21, 2004 11:25 AM
Subject: Time Extension for Submitting/Completing ERP
Importance: High

I am sending this e-mail because of possible confusion in some FDEP District Offices or ACHDs regarding the deadline for compliance with the emergency preparedness/response plan requirements in FAC subsection 62-555.350(15).

As John Sowerby and other staff mentioned during Focus On Change presentations early this year on FAC Rule 62-555.350 and during training this summer on the recent amendments to FAC Chapter 62-555, the FDEP intends to amend FAC subsection 62-555.350(15) to give all affected community water systems (i.e., all community water systems serving 350 or more persons or 150 or more service connections) **until the end of 2005** instead of the end of this year to complete a comprehensive emergency preparedness / response plan as required by FAC subsection 62-555.350(15). At this point, it will likely be after the end of this year before we officially make this change to FAC subsection 62-555.350(15). In the meantime, please do not take any enforcement action against

community water systems who fail to meet the 12/31/04 deadline in FAC subsection 62-555.350(15). Thanks.

Van Hoofnagle
DEP Drinking Water Administrator

Section 1
Communication Charts

The first response step in any emergency is to inform the person at the top of this list, who is responsible for managing the emergency and making key decisions. List the water system chain of command in order of contact.

Water System Chain of Command – Lines of Authority

Order	Name & Title	Responsibilities During an Emergency	Contact Information
1	Dewaine Christmas Manager	Responsible for overall management and decision making. The manager is the lead for managing the emergency and providing information to regulatory agencies. All communications to external parties are to be approved by the manager.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl@AOL.Com
2	James Hodges Jr. Field Supervisor	Responsible for decision making in the field. In charge of overall maintenance, and repairs to all components of water system.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl @AOL.Com
3	Kelvin Edun Water Treatment Plant Operator	Responsible for running water treatment plant, performing inspections, maintenance, sampling and relaying all critical information to Field Supervisor.	Phone: Cell: 352-875-5141 Email:
4	Pamela Christmas Office	Responsible for assisting the manager in administrative duties and emergencies.	Phone: 352-347-8228 Cell: 352-245-4743 Email:
5			Phone: Cell: Email:
6			Phone: Cell: Email:
7			Phone: Cell: Email:

Emergency Notification

Notification call-up lists - Use these lists to notify important parties of an emergency.

Emergency Notification List

Organization or Department	Name & Position	Telephone	Cell Phone	e-mail
State Warning Point	**Duty Officer**	**800-320-0519**	800-320-0519	N/A
Local Law Enforcement	EOC Commander	352-622-3205		Pstefanski@sheriff.marioncountyfl.org
Fire Department		911		
Emergency Medical Services		911		
Water Operator (if contractor)	Kelvin Edun Operator	352-875-5141		
County Health Department	Tom Moore Director of Environmental Health	352-622-7744	352-266-7486	
DEP District Office	Manny Cardona	407-897-4134	Fax 407-893-4418	
County Emergency Management Dept.	Chip Wildy	352-622-3205		
Local Leader (City Mgr., Mayor, Chair. Co. Comm., etc.)				
Local Hazmat Team (if any)		911		
Hazmat Hotline		911		
National Spill Response Center.	Duty Officer	800-424-8802	800-424-8802	N/A
Interconnected Water System(s)				
Neighboring Water System (not connected)				
FRWA Water Circuit Rider	Tom Gustafson	850-668-2746	352-267-1302	

Priority Customers

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Hospital Or Clinic(s)				
Nursing Home(s)				
Public Schools				
Private Schools				
Wastewater Treatment Plant				
Food Processing Or Other Industry				

Service / Repair Notifications

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Electric Utility Co.	City of Ocala	352-651-6666		
Electrician	Melville Electric	352-245-0600		
Gas / Propane Supplier	Belleview Gas	352-245-6055		
Water Testing Lab.	Aqua Pure Lisa Saupp	352-625-2822		
Sewer Utility Co.				
Telephone Co.	Sprint	800-788-3600	611	
Plumber	ACP	352-427-7036		
Pump Supplier	Coast Pump	352-620-0616	352-266-4277	Coastpumpocal@hotmail.com
"Dig Safe" or "One Call"	Sunshine One Call	800-432-4770		

Service / Repair Notifications				
Organization Or Department	**Name & Position**	**Telephone**	**Cell Phone**	**email**
Rental Equip. Supplier	B&M Rental	352-245-3133	352-245-9800	
Chlorine Supplier	Custom Controls	352-622-9244	352-304-0572	
Other Chemical Suppliers				
Radio/SCADA Repair Co.				
Bottled Water Service				
Bulk Water Supplier				
Well Drilling Co.	Earls Well Drilling David Moffitt	352-245-2324	352-817-0502	
Pipe Supplier	National Water Works Roy Sands	352-351-8144	352-266-4705	

Designated Public Spokesperson and Alternates

Designate a spokesperson (alternates) for delivering messages to the news media & public

Public Spokesperson	Name & Position	Telephone	Cell Phone
Spokesperson	Dewaine Christmas Manager	352-347-8228	352-239-1198
Alternate 1	James Hodges Jr. Supervisor	352-347-8228	352-239-1197
Alternate 2			

Key Messages

Develop possible messages in advance, and update them as the emergency develops
▪ We are aware of the emergency and are working diligently to restore your water service.

- If you fall under a boil water notice you must bring water to a rolling boil for a period of at least one minute. You only have to boil water for human cunsumption.

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Health Advisories – Boil Water Notices

Use the assistance of your County Health Department and/or District FDEP office, and FDEP's Mandatory Health Effects Language, located on FDEP's website at:

http://www.doh.state.fl.us/environment/water/manual/boil.htm

http://www.DEP.state.fl.us/water/drinkingwater/rules.htm,

and click on "Mandatory Health Effects Language"., PLUS EPA's templates at:

http://epa.gov/safewater/pn.html

Click on "Microsoft Word and Word Perfect files of PN templates" (PN means Public Notifications), then determine which "Tier" of notifications is needed and click on the desired software to receive them in.

Section 2
Written Agreements With Other Agencies, Utilities, or Response Organizations

INSERT BELOW information regarding any written agreements with other agencies, utilities, or response organizations, such as emergency interconnects, mutual aid or FlaWARN.

Emergency Interconnect(s)

Information on the location of interconnection(s) (if any), type and size of interconnecting pipe, pumps and accessory equipment, meters at interconnection(s), normal pressures at both ends of interconnection, volume of water from interconnection(s), type of agreement and approvals needed for use, procedures necessary to use interconnection, etc.

Location (Street)	
Location (GPS)	
Description	

Memoranda of Understanding

Organization	
Summary of Understanding	

Mutual Aid Agreements

Organization	Marion Utilities, 352-622-1171
Summary of Understanding	Will render mutual aide – ie: pumps, generators, and other materials necessary to restore water service.

FlaWARN

Organization	
Summary of Understanding	

Section 3
Disaster-Specific Preparedness/Response Plan

Your disaster-specific preparedness/response plan must include a Vulnerability Assessment and preparedness / response plans for: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release.

In any event there are a series of general steps to take:

1. Confirm and analyze the type and severity of the emergency.
2. Take immediate actions to save lives.
3. Take action to reduce injuries and system damage.
4. Make repairs based on priority demand.
5. Return the system to normal operation.

Vulnerability Assessment

It is essential that water systems identify and assess the vulnerability of each system component for both natural and human-caused emergencies, before preparing their disaster-specific preparedness/response plans. Prepare your Vulnerability Assessment by completing the table below:

Facility Vulnerability Assessment

System component	Description and condition	Vulnerability	Security improvements (indicate existing or proposed)
Raw Water Sources	(1) 4" groundwater wells located several hundred feet from homes. Wells are in good condition. We have wellhead protection in place.	The well is most vulnerable to above ground activities because it is only 120 FT deep.	1.Purchase land surrounding well. 2. Secure well house to foundation and install lighting around well house.
Pump-house and pumping facilities	The pump-house and pumping facility are in good condition.	Pump location is fully fenced with a locked gate.	Install tamper proof padlocks.
Treatment Facilities	There is a hypo-chlorination system inside of pump house. System is in good condition.	Chlorination systems are not subject to power outages.	There is a backup generator on site in compliance with CH. 62-555.320(14)FAC
Storage Facilities	Hydro pneumatic tank is fenced in good condition.	Tank is not in a lighted area.	Install lighting in area of tank.
Computer and telemetry systems	Computers are in utilities main office and are in good condition.	Computers should be better protected against cyber attack or hacking.	Secure computers with firewalls & virus protection.

A. Vandalism or Sabotage Response Procedures

1. Utility staff first aware of incident:
    a) Calls 9-1-1/ Local Law Enforcement.
    b) Calls Manager
2. Manager determines severity of incident.
    a) Field supervisor determines if vandalism or sabotage will effect the water quality.
    b) Manager reports incident to the state warning point.
3. Field supervisor directs repairs as needed.
    a) Complete repairs
    b) Update ERP as needed.

B. Drought Response Procedures

Include water use restrictions per Consumptive Use Permit

1. Manager coordinates with the local Water Management District (WMD) regarding drought conditions.
    a) If drought conditions exist, a water conservation plan will be initiated.
    b) Literature will be distributed to customers regarding the drought.
    c) Conservation material will be distributed to customers on conservation measures.
    d) Customers not abiding by restrictions will be reported to WMD.
    e) Manager updates ERP as needed.

C. Hurricane Preparedness & Response Procedures

Pre- Hurricane **(36 to 48 hrs prior to arrival)**	1. Manager coordinates with local EOC. 2. Field supervisor checks operation of standby power. 3. Field supervisor secures fuel and treatment chemicals for a 10 day period. 4. Manager replenishes inventory of spare parts.
Hurricane Watch **(24 to 36 hrs prior to arrival)**	1. Manager cancels all time off for employees. 2. Manager issues work assignments in advance in case of communication loss. 3. Employees all top off fuel in vehicles & standby generators. 4. Manager authorizes employees to secure their personal property and arrange for the safety of family members.
Hurricane Warning (24hrs or less prior to arrival)	1. Employees report to designated areas and wait for instructions. 2. Employees load truck with supplies. 3. Employees follow evacuation protocol.
Recovery Procedures	1. Manager coordinates with local EOC. 2. Manager issues boil water notices if needed. 3. Field supervisor coordinates repairs. 4. Manager makes contact with the appropriate DEP office. 5. After repairs are completed samples are taken. 6. When samples come back clear – boil water notice is lifted. 7. Manager files all malfunction reports with the DEP. 8. Field supervisor inspects all systems to make sure everything is running smooth.

D. Structure Fire Response Procedures

1. Utility staff discovering fire:
    a) Evacuate structure on fire.
    b) Call 9-1-1
2. Manager determines severity of incident.
    a) Manager contact State Warning Point.
    b) Field supervisor coordinates repairs when fire is extinguished.
3. Field supervisor reports to manager when repairs are complete.
    a) Manager reports completion of all repairs to any Gov. agency.
    b) Manager updates ERP as needed.

E. Flood Preparedness & Response Procedures

(Is any critical part of your system in a flood prone area?)

None of our systems are in a flood prone area.

F. Forest or Brush Fire Response Procedures

(Is any critical part of your system subject to forest or brush fires?)

1. Utility staff discovering fire.
    a) Orders evacuation of any threatened buildings.
    b) Calls 9-1-1 to report fire.
2. Manager determines the severity of fire.
    a) Manager contacts the State Warning Point.
    b) Field supervisor inspects for any damage and coordinates repairs after fire is extinguished.
3. Field supervisor reports to manager that all repairs are complete.
    a) Manager updates the ERP as needed.
    b)

G. Hazardous Material Release Response Procedures

Do you have any hazardous material (chlorine gas) at your water system?

We have no Hazardous materials at any of our water systems.

H. Other Disaster Response Procedures

Are there other disasters that you want to prepare for, such as a Contamination event, SCADA Attack, or Structural Damage from an Intentional Act?

Contamination

1.
   a)
   b)
2.
   a)
   b)

SCADA Attack

1.
   a)
   b)
2.
   a)
   b)

Structural Damage from an Intentional Act

1.
   a)
   b)
2.
   a)
   b)

Section 4
Standby Power Requirements

Include details about how the water system meets the standby power requirements as described in Ch. 62-555.320(14), and 62-555.350(15)(d) FAC for water source, treatment, and pumping facilities necessary to deliver drinking water at a rate at least equal to the Average Daily Water Demand.

Standby Power for Wells or Surface Water Intakes

Standby Power (or by alternate means) to OPERATE WELLS at Average Daily Demand

Average Daily Demand (ADD) in gpd or gpm	7809 gpd
Wells Needed to Supply Average Daily Demand	1
Standby Generator (kW) Needed for ADD &	15 KW
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	We will have reserve fuel in the case of an emergency.

Standby Power for Treatment Facilities

Standby Power (or by alternate means) to TREAT WATER at Average Daily Demand

Treatment Units Needed to Supply ADD	
Standby Generator (kW) Needed to Treat ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Standby Power for Pumps

Standby Power (or by alternate means) to PUMP WATER at Average Daily Demand

Pumps Needed to Supply ADD	
Standby Generator (kW) Needed to Pump ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Section 5
Drinking Water Treatment Chemicals & Disinfectants

Include recommendations regarding the amount of drinking water treatment chemicals, to maintain in inventory at treatment plants. Do not just list chemical storage capacity, but instead recommend the minimum amount of chemicals to maintain in inventory, which depends upon the location and reliability of chemical suppliers, the status of impending disasters, etc.

Disinfection Treatment Information

Disinfection Chemical(s)	Chemical / Location No. 1	Chemical / Location No. 2
Type of Chemical	Chlorine	
Type of Chemical Feed	Hypo-Chlorinator	
Chemical Storage Location	On site in the pump house.	
Recommended Minimum Amount to be Maintained in Storage (gal)	55 gallons	

Other Chemical Information

Chemical(s) Used	Chemical #1	Chemical #2	Chemical #3	Chemical #4
Type of Chemical				
Type of Chemical Feed				
System Location				
Chemical Storage Location				
Recommended Minimum Amount to be Maintained in Storage (gal)				

Appendix A
Basic System information

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Keep this basic information readily available for when you need it for emergency responders, repair people, the news media and potentially, an emergency operator.

Basic System Information

GPS coordinates will help emergency crews find your system following a major catastrophe.

System identification number (PWS ID)	**3424962**	
System name and address	**Ashley Heights**	
GPS Coordinates	Latitude:	Longitude:
Basic description and location of system facilities	**1086 NE 56th St**	
Population served and service connections.	Population =	Connections = 49
System Owner	**Sunshine Utilities of Central Florida, Inc.**	
Management Authority	**Owner and Manager**	
Name, title, and phone numbers of person responsible for maintaining and implementing the ERP.	**Dewaine Christmas** **Manager**	**352-347-8228 phone** **352-239-1198 cell**

System Demand

Demand based on Monthly Operational Records and system capacity based on Sanitary Survey.

Average Daily Demand (gpd)	7809 GPD
Maximum Daily Demand (gpd)	12400 GPD
System Capacity (gpd)	44,000 GPD
Peak Hour Demand (gpm)	N/A

Location of Pertinent Information

Item	Location
Distribution System Map	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
O&M Manual(s)	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
Start-Up / Shut-Down Procedures	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.

Well Information

GPS coordinates will help emergency crews find wells following a major catastrophe.

Well Information	Well No. 1	Well No. 2	Well No. 3	Well No. 4
GPS well tag #				
Location (street)	NE 11th Ave			
GPS Coordinates	Lat: Long:		Lat: Long:	Lat: Long:
Well Depth (ft)	120 FT			
Well Yield (gpd)	89,000GPD			
Pump Type	Submersible			
Manufacturer	Sta-Rite			
Capacity (gpm)	230 GPM			
Motor Manufacturer	Franklin			
Horsepower	5 HP			
Phase	1			
Volts/Amps	230 volts			

Surface Water Sources

GPS coordinates will help emergency crews find surface water intakes following a major catastrophe.

Surface Water Information	Intake No. 1	Intake No. 2
Location (Street / Description)		
GPS Coordinates	Lat: Long:	Lat: Long:
Critical Water Level		

Finished Water Storage

GPS coordinates will help emergency crews find tanks following a major catastrophe.

Name of Storage Unit	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Location (Street)				
Location (GPS)	Lat: Long:	Lat: Long:	Lat: Long:	Lat: Long:
Type (ground, elevated, etc.)				
Capacity (gal)				
Empty Elevation				
Overflow Elevation				

High Service Pumps

HSP	HSP No. 1	HSP No. 2	HSP No. 3	HSP No. 4
Location (street)				
Pump Type				
Manufacturer				
Capacity (gpm)				
Motor Manufacturer				
Horsepower				
Phase				
Volts/Amps				

Other Applicable Information

Appendix B
Training and Rehearsals

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Event	Description	People & Organizations Involved	Date

Appendix C
Plan Approval

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Plan Approval

This plan is officially in effect when reviewed, approved, and signed by the following people:

Name / Title	Signature	Date
Hodges Family Trust		

APPENDIX D: CONSUMER CONFIDENCE REPORT

Certification of Delivery of Consumer Confidence Report

GENERAL INSTRUCTIONS: This form shall be completed by all community water systems (CWSs) that have prepared a Consumer Confidence Report (CCR) in accordance with Rule 62-550.824, F.A.C., Consumer Confidence Reports. At the end of this form is a certification in which a system's authorized representative shall certify that the reported information is accurate and is in conformance with Rule 62-550.824, F.A.C. **COMPLETE THIS FORM AND SUBMIT IT BY AUGUST 10,** together with a copy of your system's CCR, sample email or water bill (with URL notification of CCR, if applicable), and any newspaper notice(s) and posted notice(s) of your CCR, to the appropriate DEP district office or Approved County Health Department (ACHD). Systems serving 100,000 or more persons posting their CCRs on publicly accessible Internet sites shall provide the information on the appropriate Internet link(s). All information provided on this form must be typed or printed in ink.

I. General Water System Information. (To be completed by all community water systems.)

System name: Ashley Heights Contact person: Dewaine Christmas

PWS Identification number (PWS ID): 3424962 Contact phone number: (352)347-8228

Mailing address: 10220 East Hwy 25 City: Belleview

State: Fl Zip: 34420-5531 Population served (not the number of "service connections"): _____

II. CCR Distribution Method. (To be completed by all community water systems. Choose A or B as appropriate.)

☐ A. We mailed, emailed, or otherwise directly delivered a copy of our CCR to each customer on _____ (enter date(s) of mailing or delivery) using the method(s) checked below:

- ☐ a. **Mailed** CCR
- ☐ b. **Mailed** notice (e.g. water bill) with **direct URL** to the CCR
- ☐ c. **Emailed** CCR as an **embedded** image or as an **attachment**
- ☐ d. **Emailed** notice with a **direct URL** to the CCR
- ☐ e. **Otherwise directly delivered** CCR to every customer. Explain: _____

☑ B. We were eligible to use a mailing waiver and used a mailing waiver. (Systems are eligible to use a mailing waiver only if they serve fewer than 10,000 persons, have not had any MCL or monitoring and reporting (M/R) violations, nor have been issued any formal Notices of Violations (NOVs), Consent Orders, Administrative Orders, or court-ordered civil actions during the calendar year before the year the CCR is due to the customers).

Answer a, b, **and** c below.)

- ☐ a. Date of newspaper: _____
- ☐ b. Name of newspaper/newsletter that published our CCR: _____
- ☑ c. A copy of our notice to customers, informing them that our CCR will not be mailed to them, is attached.

This notice was: ☑ mailed with bill; ☐ published in newspaper/newsletter; or ☐ other (describe)

_____

III. Posting of CCR on the Internet. (To be completed by all CWSs serving 100,000 or more persons.)

We posted our CCR on this publicly accessible internet site: www.sunshineutilities.org

IV. Report on Your Effort to Distribute Your CCR to Your Water Consumers.
(To be completed by all CWSs. Check all items that apply - at least one item must be checked.)

In addition to the methods selected in Part II,

- ■ A. We posted our CCR on this publicly accessible internet site: _____
- ☐ B. We published our CCR in the local newspaper(s). The name(s) and date(s) of the newspaper(s) are:

_____

RECEIVED
JUL 10 2020
DEP Central District

☐ C. We advertised the availability of our CCR as a press release, radio announcement, or TV announcement. The type(s) and date(s) of the advertisement(s) are: _____

☐ D. We delivered multiple copies of our CCR to single bill addresses serving several persons.

☐ E. We delivered multiple copies of our CCR to the following community organizations:

_____

☐ F. Our CCR was posted in the following public locations: _____

_____

☒ G. Our CCR was distributed by other methods (e.g., additional copies placed in entrance hall to facility). Describe.
Additional copies available at Sunshine Utilities Office

V. Use of Non-English Language in CCR. (To be completed by all community water systems.)

☐ Information in a non-English language was included in our CCR because 20% or more of our customers do not speak English but speak _____. The method we used to determine the proportion of non-English speaking customers is _____

☒ This requirement does not apply to our system, because we have no non-English speaking group among our customers equal to or exceeding 20% of our total number of customers.

VI. Other Delivery Requirements. (To be completed by all community water systems.)

(A) Was a copy of your CCR sent to your county health department, as required by rule? ☒ Yes ☐ No

(B) Is your system regulated by the Public Service Commission (PSC)? ☐ Yes ☐ No

If Yes, was a copy of your CCR sent to the PSC, as required by rule? ☒ Yes ☐ No

(C) If your system sells water to other systems, have you provided them with either a copy of your CCR or the required consumer confidence information? ☒ Yes ☐ No ☒ Not Applicable

VII. Certification of Delivery of CCR and Compliance with Regulations. (To be completed by all CWSs.)

This statement certifies that the above named community public water system has distributed its CCR for the time period starting ***January 1,*** 2019 ***, and ending December 31,*** 2019 to its customers on 6/15/20 (mm/dd/yy) and provided the appropriate notices of availability according to the requirements listed in this form, which are also found in Rule 62-550.824, F.A.C. This statement also certifies that the reported information is correct and consistent with the compliance monitoring data for the same period previously submitted to the Department, and that the report has been delivered to the agencies identified in Rules 62-550.824(3)(e)3., and 4., F.A.C.

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____

NAME (please print): Dewaine Christmas

TITLE: Manager DATE: 6/26/20

☒ **A copy of our CCR is attached, and**

☐ **If using electronic delivery, a copy of our sample email or notice (e.g. water bill), with URL leading directly to the CCR and not a general information website, is attached. For example, if you are using the FRWA website to post your CCR, your URL would be:**

www.frwa.net/2012-Your PWSID Number.pdf (www.frwa.net/2012-0000000.pdf).

SUNSHINE UTILITIES
10230 East Highway 25
Belleview, Florida 34420

Drinking Water Quality Report

Annual Drinking Water Quality Report for 2019

Ashley Heights Subdivision

Florida Department of Environmental Protection Public Water System ID # 3424962

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

The source of our water is groundwater from one well located in the community. The well draws from the Floridan aquifer, one of the world's most protected sources. Our water is chlorinated for disinfection purposes and treated for corrosion control. In 2019 the Florida Department of Environmental Protection conducted an assessment which identifies potential sources of contamination in the vicinity of our well. The SWAPP (Source Water Assessment and Protection Program) determined our public water system to have no potential sources of contamination. You may obtain more information at the web site *www.dep.state.fl.us/swapp.*

If you have any questions about this report or concerning your water utility please contact **Dewaine Christmas, at Sunshine Utilities, (352) 347-8228,** during normal business hours. We encourage our valued customers to be informed about their water utility.

Sunshine Utilities routinely monitors for constituents in your drinking water according to Federal and State laws, rules and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2019. Data obtained before January 1, 2019, and presented in this report are from the most recent testing performed in accordance with the laws, rules and regulations.

WATER QUALITY TEST RESULTS FOR ASHLEY HEIGHTS

Radioactive Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Radium 226 + 228	(pCi/L)	MAR '15	No	2.5	N/A	0	5	Erosion of natural deposits

Inorganic Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Arsenic	(ppb)	APR '18	No	0.6	N/A	N/A	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	(ppm)	APR '18	No	0.001	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chromium	(ppb)	APR '18	No	2.9	N/A	100	100	Discharge from steel and pulp mills; erosion of natural deposits
Fluoride	(ppm)	APR '18	No	0.028	N/A	4	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum levels between 0.7 and 1.2 ppm
Nitrate (as Nitrogen)	(ppm)	DEC '19	No	1.39	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium	(ppm)	APR '18	No	7.2	N/A	N/A	160	Salt water intrusion; leaching from soil

Stage 2 Disinfectants and Disinfection By-Products

Disinfectant or Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL or MRDL Violation Yes / No	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine	(ppm)	2019	No	0.8	0.4 - 1.8	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Total trihalomethane (TTHM)	(ppb)	AUG '18	No	1.67	N/A	N/A	MCL = 80	By-product of drinking water disinfection

Lead and Copper (Tap Water)

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	AL Violation Yes / No	90th Percentile Result	No. of Sampling Sites Exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper	(ppm)	JUN '18	No	0.138	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

In the table you may find unfamiliar terms and abbreviations. To help you better understand these terms we have provided the following definitions (please note not all definitions may pertain to your report):

- Action Level (AL) – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial growth.
- Maximum Residual Disinfectant Level Goal (MRDLG) – The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.
- ND – This abbreviation means not detected and indicates that the substance was not found by laboratory analysis.
- Parts per million (ppm) or milligrams per Liter (mg/L) - one part of analyte (by weight) to 1 million parts of water sample (by weight).
- Parts per billion (ppb) or micrograms per Liter (µg/L) - one part of analyte (by weight) to 1 billion parts of water sample (by weight).
- Picocurie per liter (pCi/L) - measure of the radioactivity in water.

What does this mean?

As you can see our system had no violations. We're very proud that your drinking water meets all Federal and State requirements.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Sunshine Utilities is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals, and in some cases radioactive material, and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

A.) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

B.) Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

C.) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

D.) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

E.) Radioactive contaminants, which may be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The FDA (Food & Drug Administration) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care providers about their drinking water. EPA/CDC (Center for Disease Control) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are also available from the Safe Drinking Water Hotline (800-426-4791).

We are committed to ensuring the quality of your water. If you have any questions or concerns about the information provided, please feel free to call the numbers listed.

Sunshine Utilities

10230 East Highway 25, Belleview, FL 34420
Office (352)347-8228 – Fax (352)347-6915

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality of water and services we deliver to you everyday. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

Please follow the link to view your 2019 Annual Water Quality Report.

https://www.sunshineutilities.org/ccr19/2019AshleyHeights.pdf

APPENDIX E: SANITARY SURVEY REPORT

FLORIDA DEPARTMENT OF
Environmental Protection

CENTRAL DISTRICT OFFICE
3319 MAGUIRE BLVD., SUITE 232
ORLANDO, FLORIDA 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

January 14, 2021

Dewaine Christmas, Owner
Sunshine Utilities of Central Florida, Inc.
10230 SE Highway 25
Belleview FL, 34420
sunshineutl@aol.com;

Re: Ashley Heights Subdivision
PW Facility ID #3424962
Marion County

Dear Mr. Christmas:

Department personnel conducted an inspection of the above-referenced facility on December 11, 2020. Based on the information provided during the inspection, the facility was determined to be in compliance with the Department's rules and regulations. A copy of the inspection report is attached for your records, and any non-compliance items which may have been identified at the time of the inspection have been corrected.

The Department appreciates your efforts to maintain this facility in compliance with state and federal rules. Should you have any questions or comments, please contact Talia Ayala at 407-897-4307 or via e-mail at Talia.Ayala@FloridaDEP.gov.

Sincerely,

Jill Farris, Manager
Central District
Florida Department of Environmental Protection

Enclosure: Inspection Report

cc: Talia Ayala, FDEP

State of Florida
Department of Environmental Protection
Central District

SANITARY SURVEY REPORT

Plant Name **ASHLEY HEIGHTS S/D** County Marion PWS ID # **3424962**
Plant Location 5580 NE 11th Avenue Phone 352-347-8228
Owner Name Sunshine Utilities of Central Florida, Inc. Phone 352-347-8228
Owner Address 10230 SE Highway 25, Belleview FL, 34420
Contact Person Dewaine Christmas Title Owner Phone 352-347-8228
This Survey Date 12/18/20 Last Survey Date 1/23/18 Last Compliance Inspection Date 8/29/14

PWS TYPE: Community

PLANT CATEGORY & CLASS: 5D

MAX-DAY DESIGN CAPACITY: 44,000 gpd

PWS STATUS: Approved

TREATMENT PROCESSES IN USE
Hypochlorination

SERVICE AREA CHARACTERISTICS
Subdivision
Food Service: ☐ Yes ☐ No ☒ N/A

Number of Service Connections 44
Population Served 154 Basis MOR

OPERATION & MAINTENANCE LOG: Yes
Location Water treatment plant
Comments

CERTIFIED OPERATOR: Yes
Operator(s) & Certification Class-Number:
Kelvin Edun C-7459

Hrs/day: *Required* *Visit *Actual* *Visit
Days/wk: *Required* 2 *Actual* 2
Non-consecutive Days? ☒ Yes ☐ No ☐ N/A
Comments *Visits must total 0.2 hr/week

MONTHLY OPERATION REPORTS (MORs)
MORs submitted regularly? ☒ Yes ☐ No ☐ N/A
Data missing from MORs? ☒ No ☐ Yes ☐ N/A
Average Day (from MORs) 8,906 gpd
Maximum Day (from MORs) 63,000 gpd 1/2020
Comments

Flow Measuring Device Flow Meter
Meter Size & Type 2" Master
Date Last Calibrated 8/4/16

RAW WATER SOURCE
☒ GROUND; Number of Wells 1
☐ PURCHASED from PWS ID #
☐ Emergency Water Source
Emergency Water Capacity

STANDBY POWER SOURCE: Not Required
Source
Capacity of Standby (kW)
Switchover: ☐ Automatic ☐ Manual
Hrs Operated Under Load
What equipment does it operate?
☐ Well Pumps
☐ High Service Pumps
☐ Treatment Equipment
Satisfy avg. daily demand? ☐ Yes ☐ No ☐ Unknown
Audio-visual alarm? ☐ Yes ☐ No
Comments

PLANS AND MAPS

Coliform Sampling Plan	☒ Yes	☐ No	☐ N/A
D/DBP Monitoring Plan	☒ Yes	☐ No	☐ N/A
Lead and Copper Plan	☒ Yes	☐ No	☐ N/A
Distribution System Map	☒ Yes	☐ No	☐ N/A
Emergency Response Plan	☒ Yes	☐ No	☐ N/A

Comments

PREVENTIVE MAINTENANCE/O&M

Operation & Maintenance Manual	☒ Yes	☐ No	
Preventive Maintenance Program	☒ Yes	☐ No	
Flushing Program	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A
Isolation Valve Exercise	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A

Comments

CROSS CONNECTION CONTROL
BFPAs None observed # Tested Unknown
WWTP RPZ N/A Date Tested N/A
Written Plan Yes Date 11/14/12
Comments

PWS ID # 3424962
Date 12/18/20

GROUND WATER SOURCE

Well Number (Florida Unique Well ID #)		1 (AAE0274)			
Year Drilled		1991			
Depth Drilled		120’			
Drilling Method		Combination			
Type of Grout		Unknown			
Static Water Level		34’			
Pumping Water Level		39’			
Design Well Yield		Unknown			
Test Yield		Unknown			
Actual Yield (if different than rated capacity)		Unknown			
Strainer		Unknown			
Length (outside casing)		62’			
Diameter (outside casing)		4”			
Material (outside casing)		Black steel			
Well Contamination History		None			
Is inundation of well possible?		No			
6’ X 6’ X 4” Concrete Pad		Yes			
SET BACKS	Septic Tank	>200’			
	Reuse Water	N/A			
	WW Plumbing	>100’			
	Other Sanitary Hazard	None observed			
PUMP	Type	Submersible			
	Manufacturer Name	Sta-Rite			
	Model Number	Unknown			
	Rated Capacity (gpm)	62			
	Motor Horsepower	5			
Well casing 12” above grade?		Yes			
Well Casing Sanitary Seal		Okay			
Raw Water Sampling Tap		Yes			
Above Ground Check Valve		Yes			
Security		Yes			
Well Vent Protection		Yes			

COMMENTS _____

PWS ID # 3424962
Date 12/18/20

CHLORINATION (Disinfection)
Type: ☐ Gas ☒ Hypo
Make Stenner Capacity 17 gpd
Chlorine Feed Rate 50% Stroke
Avg. Amount of Cl_2 gas used N/A
Chlorine Residuals: Plant 1.3 Remote >2.2
Remote tap location 1148 NE 53rd Street
DPD Test Kit: ☐ On-site ☒ With operator
☐ None ☐ Not Used Daily
Injection Points Prior to hydropneumatic tank
Booster Pump Info N/A
Comments

Chlorine Gas Use Requirements	YES	NO	Comments
Dual System	☐	☐	
Auto-switchover	☐	☐	
Alarms: Loss of Cl_2 capability Loss of Cl_2 residual Cl_2 leak detection	 ☐ ☐ ☐	 ☐ ☐ ☐	
Scale	☐	☐	
Chained Cylinders	☐	☐	
Reserve Supply	☐	☐	
Adequate Air-pak	☐	☐	
Sign of Leaks	☐	☐	
Fresh Ammonia	☐	☐	
Ventilation	☐	☐	
Room Lighting	☐	☐	
Warning Signs	☐	☐	
Repair Kits	☐	☐	
Fitted Wrench	☐	☐	
Housing/Protection	☐	☐	

AERATION (Gases, Fe, & Mn Removal)
Type Capacity
Aerator Condition
Visible Algae Growth
Protective Screen Condition
Frequency of Cleaning
Date Last Inspected/Cleaned
Comments

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

Tank Type/Number	H
Capacity (gal)	5,000
Material	Steel
Gravity Drain	Yes
By-Pass Piping	Yes
Protected Openings	Yes
Sight Glass or Level Indicator	Yes
PRV/ARV	PRV
Pressure Gauge	Yes
On/Off Pressure	40/60
Access Secured	Yes
Access Manhole	Yes
Tank Sample Tap Location	Discharge piping
Date of Inspection	12/18
Date of Cleaning	12/18

Comments

HIGH SERVICE PUMPS

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

Comments

DEFICIENCIES:

- No deficiencies were noted during this inspection.

MONITORING REMINDER:

- Nitrate and nitrite samples are required to be collected from the point of entry (POE) to the distribution system annually. The 2021 results have not been received.
- The consumer confidence report (CCR) must be delivered to consumers and the Department no later than July 1, 2021, and certification of delivery of the CCR must be submitted to the Department no later than August 10, 2021.
- Monitoring schedules are available on the Central District's website: https://floridadep.gov/central/central/content/resources-drinking-water-facilities-and-operators

COMMENTS:

- Contact FRWA (Florida Rural Water Association) at 850-668-2746, or frwa@frwa.net, for free technical assistance with your system. FRWA has extended benefits offered to members.
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.

  Checking the calibration of finished-drinking-water meters at treatment plants shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water. [Rule 62-555.350(2), F.A.C.]
- Suppliers of water shall submit written notification to the Department before beginning work or alterations to the public water system. Each notification shall be submitted to the appropriate Department of Environmental Protection District Office or Approved County Health Department and shall include the following: a description of the scope, purpose, and location of the work or alterations; and assurance that the work or alterations will comply with applicable requirements listed in Rule 62-555.330, F.A.C. Suppliers of water may begin such work or alterations 14 days after providing notification to the Department unless they are advised by the Department that the notification is incomplete or that a construction permit is required.
- Suppliers of water shall telephone the SWO at 1-800-320-0519 immediately (i.e., within two hours) after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving a public water system. [Rule 62-555.350(10)(a), F.A.C.]
- Suppliers of water shall telephone, and speak directly to a person at, the appropriate DEP District Office as soon as possible, but never later than noon of the next business day, in the event of any of the following emergency or abnormal operating conditions:
  - The occurrence of any abnormal color, odor, or taste in a public water system's raw or finished water;
  - The failure of a public water system to comply with applicable disinfection requirements; or
  - The breakdown of any water treatment or pumping facilities, or the break of any water main, in a public water system if the breakdown or break is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(b), F.A.C.]
- Suppliers of water shall notify affected water customers in writing or via telephone, newspaper, radio, or television; and telephone, and speak directly to a person at, the appropriate DEP District Office by no later than the previous business day before taking PWS components out of operation for planned maintenance or repair work if the work is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the

Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(d), F.A.C.]

- Suppliers of water shall issue precautionary “boil water” notices as required or recommended in the Department of Health’s “Guidelines for the Issuance of Precautionary Boil Water Notices” as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(11), F.A.C.]

Inspector Signature	*Reviewer Signature*
Talia Ayala	Jill Farris
Printed Name	*Printed Name*
Environmental Specialist	Environmental Manager
Title	*Title*
1/12/21	1/13/21
Date	*Date*

APPENDIX F: DISTRIBUTION MAP

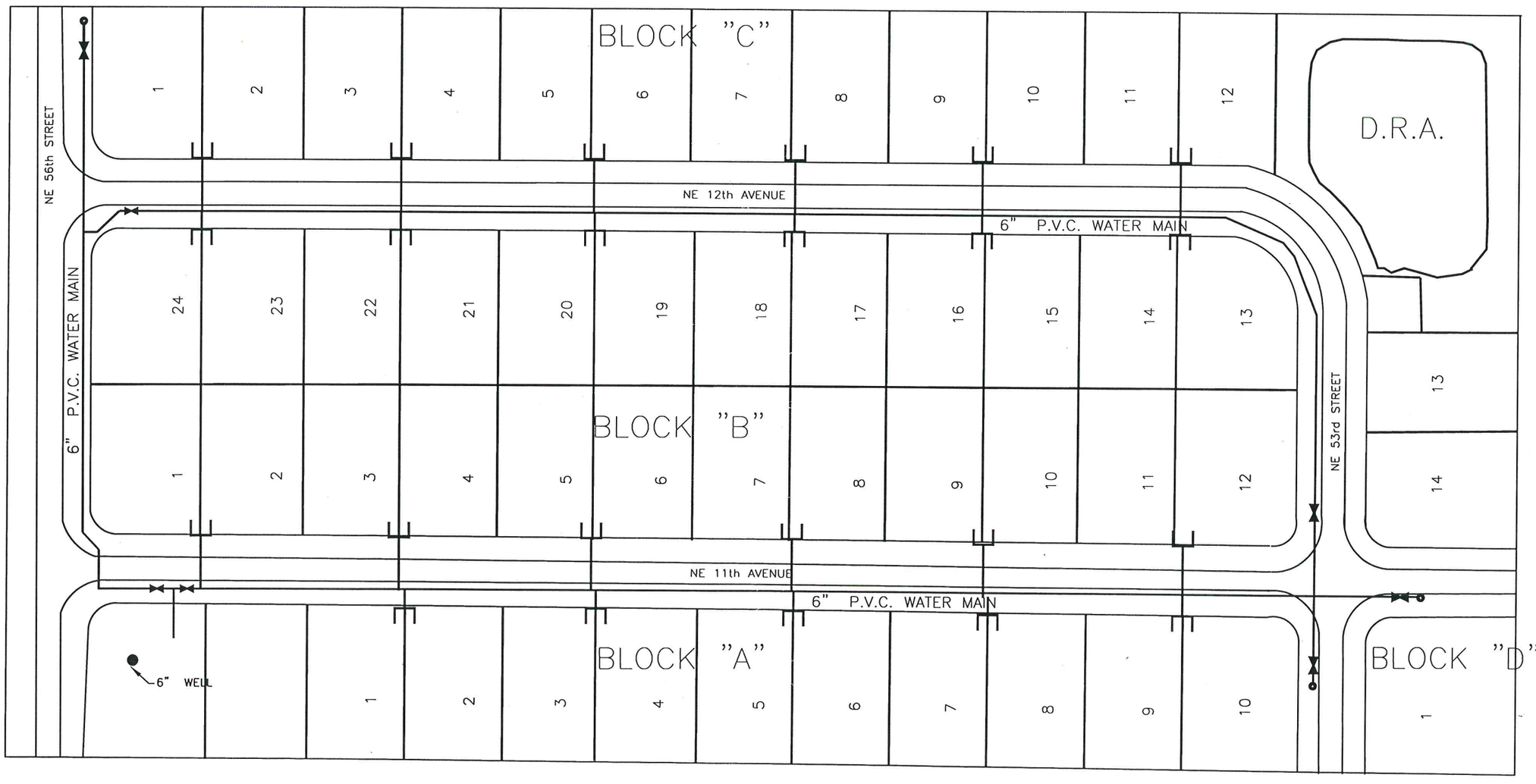
ASHLEY HEIGHTS SUBDIVISON

WATER DISTRIBUTION SYSTEM

NOTE: THIS PLAN REPRESENTS A COMPILATION OF ENGINEERING PLANS AND SPECIFICATIONS FROM THE FILES OF SUNSHINE UTILITIES, INC.

LEGEND

- 6" P.V.C. EXISTING WATER MAIN &SIZE
- WELL LOCATION
- 6" GATE VALVE
- BLOW-OFF VALVE
- SINGLE SERVICE
- DOUBLE SERVICE



0 50 100 200 400

Scale: 1" = 100'

H.W. BARRINEAU & ASSOCIATES, INC.
8100 SOUTHEAST 17TH ST, SUITE 602 OCALA, FLORIDA 34471
PH (352) 840-6606 FAX (352) 840-6774

ASHLEY HEIGHTS
SUNSHINE UTILITIES INC.
OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PMM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9636-02

1

Sheet 1 Of 1



woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Belleview Oaks Estates

210 South Florida Avenue | Suite 220
Lakeland, Florida 33801
800.426.4262

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

0233748.01
CSWR
July 2021

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Appendix C: Emergency Response Plan
Appendix D: Consumer Confidence Report
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Appendix F: Distribution Map
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APPENDIX A: SOURCE WATER ASSESSMENT & PROTECTION PROGRAM RESULTS

» SWAPP Homepage
» Search By County
» Search by PWS Name or Number
» How to Help?

Definitions

» Aquifers
» Public Water Systems
» Assessment
» Potential Contaminants
» Susceptibility
» Prevention

Contact Us

» Email
» Mailing Address
» Source Water Protection Workshop

EPA Source Water Protection website

Source Water Assessment & Protection Program

Results for: 2019

BELLEVIEW OAKS ESTATES
CR25A & SE 76TH AVE.
BELLEVIEW, FL 32620

Public Water System ID: 3424621
County: MARION
DEP Regulatory Office: DEP Central District
3319 Maguire Blvd, Suite 232
Orlando, FL 32803
407-897-4100
Public Water System Type : COMMUNITY
Public Water System Source : GROUND
Primary Use: SUBDIVISION
Population Served: 294
Size of Assessment Area:
GROUND: For this system, a 1000-foot radius circle around each well was used to define the assessment area.

Number of Wells: 1

Well ID	Owner ID	FLUWID	Status	Well Depth(ft)	Aquifer
5942	BELLEVIEW OAKS ESTATES WELL#1	AAE0255	ACTIVE	Not Available	Floridan Aquifer

Results:

GROUND WATER:

Number of Unique Potential Contaminant Sources: 1

Facility Type	Facility Class	Status	Name	Affected Well	Susceptibility Score	Concern Level
PETROLEUM STORAGE TANK	RETAIL STATION	OPEN	CIRCLE K #2722901	5942	8.33	LOW

Last updated: February 19, 2020

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3900 Commonwealth Boulevard M.S. 49 Tallahassee, Florida 32399 850-245-2118 (phone) / 850-245-2128 (fax)

APPENDIX B: TANK INSPECTION REPORT

INSPECTION AND TESTING of HYDROPNEUMATIC TANK

Belleview Oaks Estates Subdivision Tank

Pursuant to Chapter 62-555.350 (1) & (2) F.A.C

Water System:	Belleview Oaks Estates Subdivision
Street Address:	CR 25 & SE 76th Avenue
City, State:	Belleview, Florida
Phone:	352-347-8228
Contact:	Dewaine Christmas
E-mail:	sunshineutl@aol.com
PWS ID No.:	3424621
County:	Marion
Classification:	Community
Source:	Ground
Ownership:	Sunshine Utilities of North Central Florida
Date:	November 28, 2018

Inspection and Testing by:

Robert M. Couch III, P.E.
ENVIRO-TECH, Inc.
15290 SE Highway 42, PO Box 152
Weirsdale, FL 32195
Telephone: 352-694-1799
E-mail: envirotech@ymail.com

ROBERT M. COUCH III ★ LICENSE No. 55311 ★ STATE OF FLORIDA ★ PROFESSIONAL ENGINEER

C.O.A. No. 8692 Registration No. 55311

Robert M. Couch III, P.E.

Digitally signed by Robert M. Couch III, P.E.
DN: cn=Robert M. Couch III, P.E., o=ENVIRO-TECH, Inc., ou=Reg. No. 55311, email=envirotech@ymail.com, c=US
Date: 2018.12.19 00:46:15 -05'00'

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1.0 EXECUTIVE SUMMARY

ENVIRO-TECH, Inc. was contracted to perform the five year tank condition inspection on the above mentioned hydro-pneumatic tank.

This condition inspection was performed on November 28, 2018 by Robert M. Couch III, P.E. on the above referenced water tank. The tank was drained and, an internal and external inspection was performed to assess the tank condition as required by the Florida Department of Environmental Protection (FDEP) Rule 62-555.

The tank shell and heads appeared to be in overall good structural condition. Ultrasonic Thickness Measurement (UTM) readings indicated that the average thickness of the tank shell at the time of the field inspection was approximately 4.22 millimeters. UTM readings from the tank heads indicated an average thickness of 7.74 millimeters. The exterior coating of the tank appeared to be in overall good condition with no notable surface corrosion. There was no coating on significant areas of the tank interior and corrosion was noted on the tank floor and walls.

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 55 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 46 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

2.0 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS CHAPTER 62-555.350 (1) & (2)

2.1 Operation and Maintenance of Public Water Systems

(1) Suppliers of water shall operate and maintain their public water systems so as to comply with applicable standards in Chapter 62-550, F.A.C., and requirements in this chapter.

(2) Suppliers of water shall keep all necessary public water system components in operation and shall maintain such components in good operating condition so the components function as intended. Preventive maintenance on electrical or mechanical equipment – including exercising of auxiliary power sources, checking the calibration of finished-drinking-water meters at treatment plants, testing of air or pressure relief valves for hydropneumatic tanks, and exercising of isolation valves –shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water; however, in no case shall auxiliary power sources be run under load less frequently than monthly. Accumulated sludge and biogrowths shall be cleaned routinely (i.e., at least annually) from all treatment facilities that are in contact with raw, partially treated, or finished drinking water and that are not specifically designed to collect sludge or support a biogrowth; and blistering, chipped, or cracked coatings and linings on treatment or storage facilities in contact with raw, partially treated, or finished drinking water shall be rehabilitated or repaired. **Finished-drinking-water storage tanks, including conventional hydropneumatic tanks with an access manhole but excluding bladder- or diaphragm-type hydropneumatic tanks without an access manhole, shall be checked at least annually to ensure that hatches are closed and screens are in place; shall be cleaned at least once every five years to remove biogrowths, calcium or iron/manganese deposits, and sludge from inside the tanks; and shall be inspected for structural and coating integrity at least once every five years by personnel under the responsible charge of a professional engineer licensed in Florida.** Dead-end water mains conveying finished drinking water shall be flushed quarterly or in accordance with a written flushing program established by the supplier of water; additionally, dead-end or other water mains conveying finished water shall be flushed as necessary whenever legitimate water quality complaints are received.

2.2 Location of Inspection and Testing Report

Pursuant to Chapter 62-555.350 (2) and 62-555.350 (12) FAC, beginning 28 August 2003, all water systems regardless of size must maintain a copy up-to-date Preventive Maintenance Logs of each water system in the water facility office. The Preventive Maintenance Logs must show the date and type of all maintenance performed and comply with Rule 62-555.350 (2) and 62-555.350 (12), which requires the following:

- Preventive Maintenance Logs on Electrical and Mechanical Equipment
- Cleaning and Inspection Logs of Treatment Facilities and Storage Tanks
- Records of Coatings and Linings Rehabilitation or Repair
- Licensed Engineer Inspection Report (once every 5-years) for Finished-Drinking-Water Storage Tanks and Hydropneumatic Tanks
- Written Flushing Program and Logs showing that Dead-End Water Mains are being flushed at least quarterly
- Isolation Valves Exercise Logs

A copy of this report should be kept with these records.

3.0 HYDROPNEUMATIC PRESSURE TANK INSPECTION AND TEST PROCEDURES

This Inspection and Test Procedures is used as a reference in the overall inspection and testing of this Water System. This procedure is to be updated from time to time to reflect physical and procedural changes to the water system.

Inspection and testing of this tank was conducted by Robert M. Couch III, P.E. with the assistance of Jim Hodges Jr. of Sunshine Utilities of North Central Florida, Inc. The following inspection and testing procedures for hydropneumatic pressure tanks were used:

3.1 Pre-Test Procedures

1. If water service is to be interrupted customers must be notified in advance and if appropriate, boil water notices issued.

2. Turn-off all electrical power to well pumps, air motors, chlorination equipment, etc.

3. Open drain valve to empty tank. This is also a good time to check the valves (exercise them) that isolate the tank to see if they are in fact working as they should. This downtime can also be used to replace a valve if needed.

4. Once depressurized, the site glass is inspected for proper operation.

5. Once the tank is drained, the manway (hatch) will need to be removed for inspection of the interior.

3.2 Visual Inspection

6. Perform visual inspection of the tank exterior and accessories for presence of leaks, shell distortion, signs of settling, deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, accessories, etc.

7. Tank layout and physical measurements

8. Color photographs of the tank exterior and all of the essential appurtenances

9. Perform visual inspection of the tank interior for presence of deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, bio-growths, calcium or iron/manganese deposits, sludge, etc.

3.3 Nondestructive Examination

10. The tank interior coating is then examined for dry film thickness (See PosiTest® DFT Coating Thickness Gauge measurement) or equivalent.

11. The tank exterior is then examined for thickness measurements (See Smart Sensor AR 850+ Ultrasonic Thickness Gauge measurement).

12. If deemed necessary, the tank exterior (or interior) is then examined for porosity, pinholes and leaks (See PCWI porosity detection test, also known as holiday detector test).

3.4 Post-Test Procedures

13. Any coating problems detected should be corrected while the tank is out of service in order to avoid further extensive downtime.

14. Once the tank is inspected and all maintenance items are taken care of, the tank will need to be disinfected prior to placing back in use.

15. Once the tank has been disinfected, bacteriological tests must be performed on water samples (2 per FDEP) taken from the tank discharge. FDEP to clear for service prior to placing back in service.

3.5 Safety of Test Area

The test area should be restricted and barricaded. The porosity testing instrument output can be up to 20,000 volts. Testing should be carried out well clear of personnel not involved in the testing procedure. Should accidental contact be made with the test electrode, the recipient will receive a mild shock. This equipment should never be used by a person with a pacemaker.

4.0 TEST EQUIPMENT DESCRIPTIONS

4.1 AR 850+ Ultrasonic Thickness Gauge



The Smart Sensor AR 850+ Digital Ultrasonic Thickness Gauge is an economical, user-friendly, menu driven, and multi-functional unit offering extensive features from basic measurements to extended memory. This dynamic series of UT gauges is designed to measure the thickness of metallic and non-metallic materials such as steel, aluminum, titanium, plastics, ceramics, glass and any other good ultrasonic wave conductor as long as it has parallel top and bottom surfaces. The AR 850+ gauges will accurately display readings in millimeters after a simple calibration to a known Thickness or sound velocity.

4.1.1 Features

- Main Unit
- Transducer 5 MHz / 2.5 MHz
- Integrated steel calibration plate 4.0mm
- Batteries (2 x AAA)
- Ultrasonic Couplant
- Operation Manual
- Certificate
- Carrying Case
- One Year Warranty

4.1.2 Technical Specification

Display Type	4-digit LCD
Display Resolution	(<100 mm) 0.1 mm
Units	Metric
Measuring Range (steel)	1.2 to 220.0 mm
Sound Velocity Range	1000 to 9999 m/s
Operating Temperature	0 ° C +45° C
Frequency	5 MHz
Power Source	3 X 1.5V AAA batteries
Dimensions	70x145.5x28 mm

4.2 Compact DC Inspector Porosity Detector



Porosity detection of Tanks, Valves, Pumps, Pipeline field joints, and general inspection and maintenance. Suitable for a broad range of testing and inspection requirements. It is recommended that the integral probe be limited to a 125mm flat brush or fan brush.

4.2.1 Standards

ASTM G62-87(1998), ASTM D4787-93(1999), NACE RP0274-98, NACE RP0490-2001, NACE RPO188- 99, JIS G-3491, JIS G-3492, ANSI/AWWA C214-89, ANSI/AWWA C213-94 and ISO 2746:1998

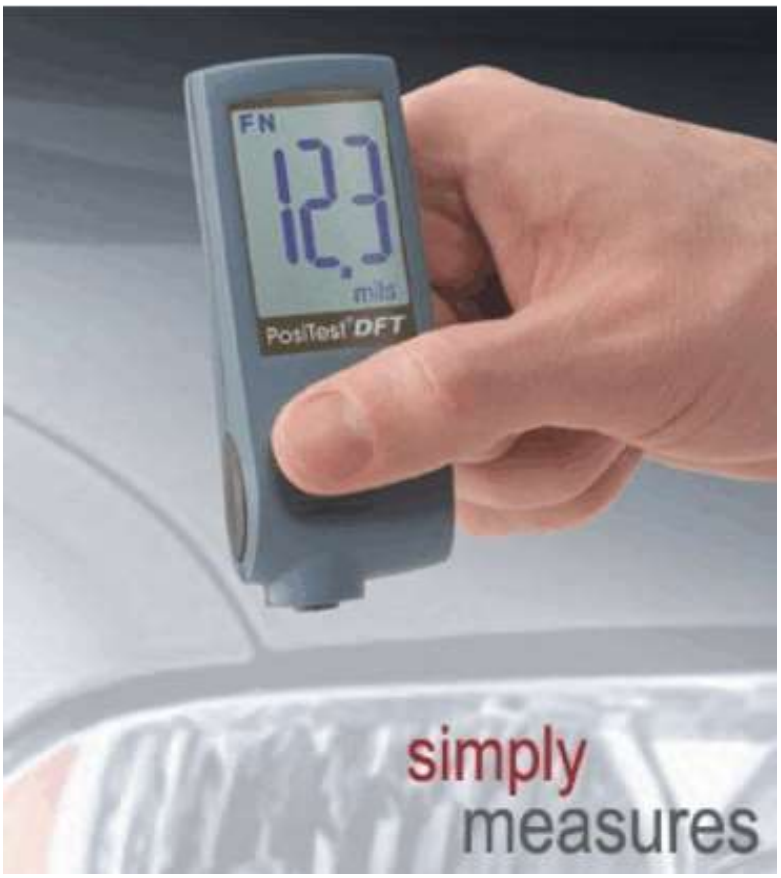
4.2.2 Features

- LED bar graph display of voltage
- "Single" hand-held, lightweight unit for simplicity and ease of operation
- Audible and visual alarms
- LED battery condition indicator
- Integral probe
- Detector
- 7m Earth lead and clamp
- Flat 125mm wide brass wire brush (or optional fan brush)
- Carry Case
- Operating instructions with conformance certificate
- Variable output up to 10kV or Variable output up to 20kV

4.2.3 Technical Specifications

Test Voltage	to 10kV (using 9V Battery)
Output Test Current	up to 100µA
Operating Temperature	-20 to +50ºC
Power Supply	Battery (9V internal)
Unit Dimensions	210 x 75 x 35mm (excl brush) 8.25" x 3.1" x 1.5"
Unit Weight	460g (incl probe)
Shipping Weight	1.5Kg

4.3 PosiTest DFT Coating Thickness Gauge



The new PosiTest DFT Coating Thickness Gauge measures coatings on ALL metals. It is the economical choice that retains the uncompromising quality of Qualitest inspection instruments.

Available in two models:

- PosiTest DFT Ferrous - measures non-magnetic coatings on steel.
- PosiTest DFT Combo - measures both non-magnetic coatings on steel and non-conductive coatings on aluminum, brass, etc. Automatically recognizes the substrate and takes a measurement.

4.3.1 Standards

ASTM B244/B499/B659/D1186/D1400/E376/G12, BS3900-C5, SSPC-PA2, ISO 2178/2360/2808, prEN ISO 19840, and others. Certificate of Calibration traceable to NIST available.

4.3.2 Features

- Fast, repeatable measurements
- No calibration required for most applications
- ZERO feature for rough or curved surfaces
- Handy RESET feature when no zero reference is available
- Strong, wear resistant, ruby-tipped probe
- Audible and visible measurement indication
- V-groove in probe for positioning on cylindrical parts
- Mils/Microns switchable
- Basic instructions on the back of each gauge

4.3.3 Technical Specifications

Measurement Range	0-40 mils (-1000 µm)
Accuracy	±(0.1 mils + 3%) (±(2µm + 3%))
Size	4 x 1.5 x 0.9 in (100 x38 x 23 mm)
Weight	2.5 oz (70 g)



5.0 HYDROPNEUMATIC PRESSURE TANK DESCRIPTION

The hydropneumatic pressure tank inspected and tested is described as follows:

Length: 11'-11" (13'-5" including elliptical heads)
Diameter: 5'-3" outside diameter
Volume: 2,000 gallons with elliptical heads
Tank Age: Approximately 30 yrs
Operating Pressure: 60 psi

6.0 TESTING

6.1 Porosity Testing

The tank surface was not swept with the Compact DC Inspector Porosity Detector during this inspection as no evidence of pin holes was observed throughout the surface of the tank.

6.2 Interior Coating Testing

Dry film thickness readings were not taken during the interior inspection as the interior tank coating was missing from the tank interior.

6.3 Ultrasonic Metal Thickness Testing

A total of 57 metal thickness readings were taken at various locations on the tank shell and head surface. The average shell reading was 4.22 millimeters in the cylindrical section and 7.74 millimeters in the elliptical heads. Typical industry standard minimum wall thickness for tanks of this size is 1/4" (6.35 mm).

7.0 VISUAL OBSERVATIONS

7.1 Tank Exterior

The exterior of the tank appeared to be in good structural condition. No lichens were growing on the tank exterior at the time of the inspection.

7.2 Tank Interior

The tank interior appeared to be in poor condition. There were significant areas with no coating present on the interior tank surface. There was corrosion noted throughout the floor and walls of the tank interior.

8.0 DEFINITIONS

Design Pressure - The maximum design pressure determined from the metal thickness.

Maximum allowable working pressure (MAWP) – Maximum pressure that the pressure tank is capable of safely holding at a design maximum temperature (250ºF).

Operating Pressure - The normal maximum operating pressure of the pressure tank. The normal operating pressure must always be below the MAWP. As a rule of thumb the maximum operating pressure should always be less than the MAWP.

Metal Thickness – The thickness of the pressure tank wall (not including a corrosion allowance) to be used in the pressure calculations.

Design Safety Factor on Metal Tensile Strength – A pressure tank is normally designed with a safety factor of 3 to 4 on the metal tensile strength. All pressure tanks are designed to operate with wall stresses below the yield point of the metal used for fabrication.

9.0 TANK PRESSURE CALCULATIONS

The following formula is found in ASME Section I for determination of MAWP:

For tanks with circumferential stress on (longitudinal joints)

P = SEt/(R+0.6t)
= 60 MPa x 1.0 x 4.22 mm / (796 mm+0.6 x 4.22 mm)
= 0.317 MPa
= 46 psi

When:

t < 0.5R = 0.5 x 796 = 398 mm (true) or
P < 0.385SE = 0.385 x 60 x 1.0 = 23.1 MPa (true)

Where:

t = metal thickness (mm) where t = 4.22 mm
R = inside radius of shell course under consideration (mm) = 796 mm
E = joint efficiency for cylindrical or spherical shells = 1.0 for welded tanks and corresponds to a safety factor of 3.5 in the parent metal.
P = maximum allowable working pressure (MPa) where 1 MPa = 46 psi
S = maximum allowable stress value at the operating temperature of the metal = 60 MPa (Safety Factor of 4).

10.0 CONCLUSIONS

Inspection and testing of the Belleview Oaks Estates subdivision 2,000-gallon hydropneumatic pressure tank was performed on November 28, 2018. In addition to a visual examination, non-destructive examinations were also made. Non-destructive examinations included ultrasonic measurement of the tank wall thickness and visual inspection for pinholes and leaks. No examination of Dry Film Thickness Measurement (DFTM) of the interior coating was performed as there was no interior coating present.

Observations of the tank exterior indicated tank is subject to normal exposure. Observations of tank interior revealed surface corrosion throughout the entire interior of the tank.

11.0 RECOMMENDATIONS

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 55 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 46 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

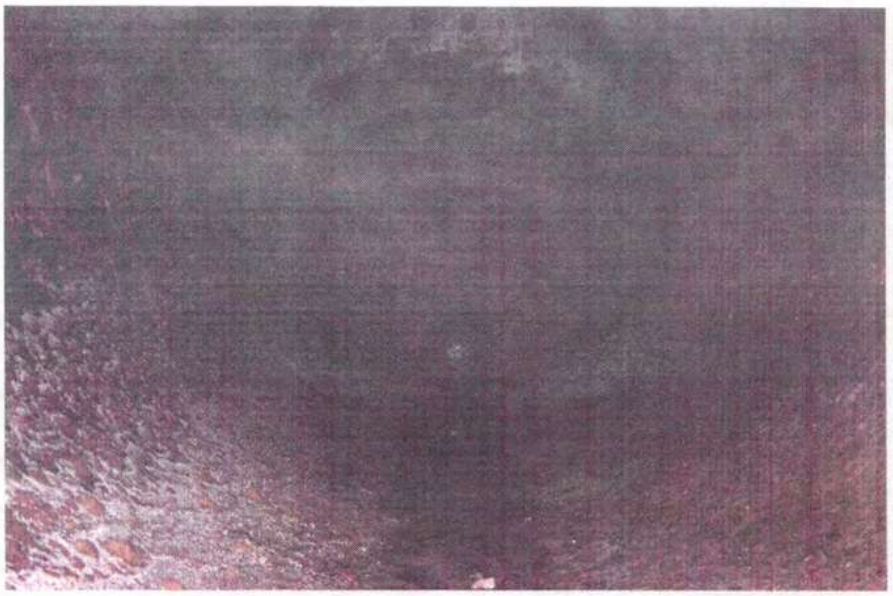
Signed: Robert M. Couch III Date: 12/19/2018

Robert M. Couch III, P.E. Registration No. 55311

External and internal views of tank







APPENDIX C: EMERGENCY RESPONSE PLAN

Disaster-Specific Preparedness/Response Plan

for Public Drinking Water Systems

Per Chapter 62-555.350 (15) F.A.C.

Sunshine Utilities

Belleview Oaks

Address:	10230 East Hwy. 25 Belleview, FL 34420
Phone:	352-347-8228
Fax:	352-347-6915
Contact:	Dewaine Christmas, Manager
E-mail:	SunshineUtl@AOL.COM
Connections:	88
PWS:	3424621
County:	Marion

May 17, 2013

Department of Environmental Protection
Michael D. LeRoy, P.E.
John R. Sowerby, P.E.

FRWA Security Staff
Sterling L. Carroll, P.E.
Ken Klos, P.E.
Coy Donaldson

For more information or additional copies of this document contact:

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This template and guide has been developed by the Florida Rural Water Association (FRWA) in collaboration with the Washington State Department of Health, Office of Drinking Water, Olympia, Washington; and reviewed by Florida Department of Environmental Protection.

Acknowledgment of federal government support of this project:

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Preface
Chapter 62-555.350 (15) FAC

Disaster-Specific Preparedness/Response Plans

(15) Suppliers of water who own or operate a community water system serving, or designed to serve, 350 or more persons or 150 or more service connections shall develop a written emergency preparedness/response plan in accordance with Emergency Planning for Water Utilities, AWWA Manual M19, as adopted in Rule 62-555.335, F.A.C., by no later than December 31, 2004, and shall update and implement the plan as necessary thereafter. Said suppliers of water shall coordinate with their Local Emergency Planning Committee and their Florida Department of Law Enforcement Regional Security Task Force when developing their emergency plan and shall include in their plan all of the information in paragraphs (a) through (e) below.

(a) A Communication Charts as described in Chapter 5 of AWWA Manual M19.

(b) Written agreements with other agencies, utilities, or response organizations.

(c) A disaster-specific preparedness/response plan as described in Chapter 5 of AWWA Manual M19 for each of the following disasters: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release. Each disaster-specific preparedness/response plan shall incorporate the results of a vulnerability assessment; shall include actions and procedures, and identify equipment, that can obviate or lessen the impact of such a disaster; and shall include plans and procedures that can be implemented, and identify equipment that can be utilized, in the event of such a disaster.

(d) Details about how the water system meets the standby power requirements under subsection 62-555.320(14), F.A.C., and, if applicable, recommendations regarding the amount of fuel to maintain on site, and the amount of fuel to hold in reserve under contracts with fuel suppliers, for operation of auxiliary power sources.

(e) If applicable, recommendations regarding the amount of drinking water treatment chemicals, including chemicals used for regeneration of ion-exchange resins or for onsite generation of disinfectants, to maintain in inventory at treatment plants.

Specific Authority 403.861(9) FS. Law Implemented 403.852(12), 403.853(6), 403.861(17) FS. History-New 11-19-87, Formerly 17-22.650, Amended 1-18-89, 1-1-93, Formerly 17-555.350, Amended 8-28-03.

Time Extension for Submitting/Completing ERP – December 31, 2005

From: Hoofnagle, Van
Sent: Thursday, October 21, 2004 11:25 AM
Subject: Time Extension for Submitting/Completing ERP
Importance: High

I am sending this e-mail because of possible confusion in some FDEP District Offices or ACHDs regarding the deadline for compliance with the emergency preparedness/response plan requirements in FAC subsection 62-555.350(15).

As John Sowerby and other staff mentioned during Focus On Change presentations early this year on FAC Rule 62-555.350 and during training this summer on the recent amendments to FAC Chapter 62-555, the FDEP intends to amend FAC subsection 62-555.350(15) to give all affected community water systems (i.e., all community water systems serving 350 or more persons or 150 or more service connections) **until the end of 2005** instead of the end of this year to complete a comprehensive emergency preparedness / response plan as required by FAC subsection 62-555.350(15). At this point, it will likely be after the end of this year before we officially make this change to FAC subsection 62-555.350(15). In the meantime, please do not take any enforcement action against

community water systems who fail to meet the 12/31/04 deadline in FAC subsection 62-555.350(15). Thanks.

Van Hoofnagle
DEP Drinking Water Administrator

Section 1
Communication Charts

The first response step in any emergency is to inform the person at the top of this list, who is responsible for managing the emergency and making key decisions. List the water system chain of command in order of contact.

Water System Chain of Command – Lines of Authority

Order	Name & Title	Responsibilities During an Emergency	Contact Information
1	Dewaine Christmas Manager	Responsible for overall management and decision making. The manager is the lead for managing the emergency and providing information to regulatory agencies. All communications to external parties are to be approved by the manager.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl@AOL.Com
2	James Hodges Jr. Field Supervisor	Responsible for decision making in the field. In charge of overall maintenance, and repairs to all components of water system.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl @AOL.Com
3	Kelvin Edun Water Treatment Plant Operator	Responsible for running water treatment plant, performing inspections, maintenance, sampling and relaying all critical information to Field Supervisor.	Phone: Cell: 352-875-5141 Email:
4	Pamela Christmas Office	Responsible for assisting the manager in administrative duties and emergencies.	Phone: 352-347-8228 Cell: 352-245-4743 Email:
5			Phone: Cell: Email:
6			Phone: Cell: Email:
7			Phone: Cell: Email:

Emergency Notification

Notification call-up lists - Use these lists to notify important parties of an emergency.

Emergency Notification List

Organization or Department	Name & Position	Telephone	Cell Phone	e-mail
State Warning Point	**Duty Officer**	**800-320-0519**	800-320-0519	N/A
Local Law Enforcement	EOC Commander	352-622-3205		Pstefanski@sheriff.marioncountyfl.org
Fire Department		911		
Emergency Medical Services		911		
Water Operator (if contractor)	Kelvin Edun Operator	352-875-5141		
County Health Department	Tom Moore Director of Environmental Health	352-622-7744	352-266-7486	
DEP District Office	Manny Cardona	407-897-4134	Fax 407-893-4418	
County Emergency Management Dept.	Chip Wildy	352-622-3205		
Local Leader (City Mgr., Mayor, Chair. Co. Comm., etc.)				
Local Hazmat Team (if any)		911		
Hazmat Hotline		911		
National Spill Response Center.	Duty Officer	800-424-8802	800-424-8802	N/A
Interconnected Water System(s)				
Neighboring Water System (not connected)				
FRWA Water Circuit Rider	Tom Gustafson	850-668-2746	352-267-1302	

Priority Customers

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Hospital Or Clinic(s)				
Nursing Home(s)				
Public Schools				
Private Schools				
Wastewater Treatment Plant				
Food Processing Or Other Industry				

Service / Repair Notifications

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Electric Utility Co.	City of Ocala	352-651-6666		
Electrician	Melville Electric	352-245-0600		
Gas / Propane Supplier	Belleview Gas	352-245-6055		
Water Testing Lab.	Aqua Pure Lisa Saupp	352-625-2822		
Sewer Utility Co.				
Telephone Co.	Sprint	800-788-3600	611	
Plumber	ACP	352-427-7036		
Pump Supplier	Coast Pump	352-620-0616	352-266-4277	Coastpumpocal@hotmail.com
"Dig Safe" or "One Call"	Sunshine One Call	800-432-4770		
Rental Equip. Supplier	B&M Rental	352-245-3133	352-245-9800	

Service / Repair Notifications				
Organization Or Department	**Name & Position**	**Telephone**	**Cell Phone**	**email**
Chlorine Supplier	Custom Controls	352-622-9244	352-304-0572	
Other Chemical Suppliers				
Radio/SCADA Repair Co.				
Bottled Water Service				
Bulk Water Supplier				
Well Drilling Co.	Earls Well Drilling David Moffitt	352-245-2324	352-817-0502	
Pipe Supplier	National Water Works Roy Sands	352-351-8144	352-266-4705	

Designated Public Spokesperson and Alternates

Designate a spokesperson (alternates) for delivering messages to the news media & public

Public Spokesperson	Name & Position	Telephone	Cell Phone
Spokesperson	Dewaine Christmas Manager	352-347-8228	352-239-1198
Alternate 1	James Hodges Jr. Supervisor	352-347-8228	352-239-1197
Alternate 2			

Key Messages

Develop possible messages in advance, and update them as the emergency develops
▪ We are aware of the emergency and are working diligently to restore your water service.
▪ If you fall under a boil water notice you must bring water to a rolling boil for a period of at least one minute. You only have to boil water for human cunsumption.

▪

Health Advisories – Boil Water Notices

Use the assistance of your County Health Department and/or District FDEP office, and FDEP's Mandatory Health Effects Language, located on FDEP's website at:

http://www.doh.state.fl.us/environment/water/manual/boil.htm

http://www.DEP.state.fl.us/water/drinkingwater/rules.htm,

and click on "Mandatory Health Effects Language"., PLUS EPA's templates at:

http://epa.gov/safewater/pn.html

Click on "Microsoft Word and Word Perfect files of PN templates" (PN means Public Notifications), then determine which "Tier" of notifications is needed and click on the desired software to receive them in.

Section 2
Written Agreements With Other Agencies, Utilities, or Response Organizations

INSERT BELOW information regarding any written agreements with other agencies, utilities, or response organizations, such as emergency interconnects, mutual aid or FlaWARN.

Emergency Interconnect(s)

Information on the location of interconnection(s) (if any), type and size of interconnecting pipe, pumps and accessory equipment, meters at interconnection(s), normal pressures at both ends of interconnection, volume of water from interconnection(s), type of agreement and approvals needed for use, procedures necessary to use interconnection, etc.

Location (Street)	
Location (GPS)	
Description	

Memoranda of Understanding

Organization	
Summary of Understanding	

Mutual Aid Agreements

Organization	Marion Utilities, 352-622-1171
Summary of Understanding	Will render mutual aide – ie: pumps, generators, and other materials necessary to restore water service.

FlaWARN

Organization	
Summary of Understanding	

Section 3
Disaster-Specific Preparedness/Response Plan

Your disaster-specific preparedness/response plan must include a Vulnerability Assessment and preparedness / response plans for: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release.

In any event there are a series of general steps to take:

1. Confirm and analyze the type and severity of the emergency.
2. Take immediate actions to save lives.
3. Take action to reduce injuries and system damage.
4. Make repairs based on priority demand.
5. Return the system to normal operation.

Vulnerability Assessment

It is essential that water systems identify and assess the vulnerability of each system component for both natural and human-caused emergencies, before preparing their disaster-specific preparedness/response plans. Prepare your Vulnerability Assessment by completing the table below:

Facility Vulnerability Assessment

System component	Description and condition	Vulnerability	Security improvements (indicate existing or proposed)
Raw Water Sources	(1) 6" groundwater wells located several hundred feet from homes. Wells are in good condition. We have wellhead protection in place.	The well is most vulnerable to above ground activities because it is only 160 FT deep.	1.Purchase land surrounding well. 2. Secure well house to foundation and install lighting around well house.
Pump-house and pumping facilities	The pump-house and pumping facility are in good condition.	Pump location is fully fenced with a locked gate.	Install tamper proof padlocks.
Treatment Facilities	There is a hypo-chlorination system inside of pump house. System is in good condition.	Chlorination systems are not subject to power outages.	There is a backup generator on site in compliance with CH. 62-555.320(14)FAC
Storage Facilities	Hydro pneumatic tank is fenced in good condition.	Tank is not in a lighted area.	Install lighting in area of tank.
Computer and telemetry systems	Computers are in utilities main office and are in good condition.	Computers should be better protected against cyber attack or hacking.	Secure computers with firewalls & virus protection.

A. Vandalism or Sabotage Response Procedures

1. Utility staff first aware of incident:
    a) Calls 9-1-1/ Local Law Enforcement.
    b) Calls Manager
2. Manager determines severity of incident.
    a) Field supervisor determines if vandalism or sabotage will effect the water quality.
    b) Manager reports incident to the state warning point.
3. Field supervisor directs repairs as needed.
    a) Complete repairs
    b) Update ERP as needed.

B. Drought Response Procedures

Include water use restrictions per Consumptive Use Permit

1. Manager coordinates with the local Water Management District (WMD) regarding drought conditions.
    a) If drought conditions exist, a water conservation plan will be initiated.
    b) Literature will be distributed to customers regarding the drought.
    c) Conservation material will be distributed to customers on conservation measures.
    d) Customers not abiding by restrictions will be reported to WMD.
    e) Manager updates ERP as needed.

C. Hurricane Preparedness & Response Procedures

Pre- Hurricane **(36 to 48 hrs prior to arrival)**	1. Manager coordinates with local EOC. 2. Field supervisor checks operation of standby power. 3. Field supervisor secures fuel and treatment chemicals for a 10 day period. 4. Manager replenishes inventory of spare parts.
Hurricane Watch **(24 to 36 hrs prior to arrival)**	1. Manager cancels all time off for employees. 2. Manager issues work assignments in advance in case of communication loss. 3. Employees all top off fuel in vehicles & standby generators. 4. Manager authorizes employees to secure their personal property and arrange for the safety of family members.
Hurricane Warning (24hrs or less prior to arrival)	1. Employees report to designated areas and wait for instructions. 2. Employees load truck with supplies. 3. Employees follow evacuation protocol.
Recovery Procedures	1. Manager coordinates with local EOC. 2. Manager issues boil water notices if needed. 3. Field supervisor coordinates repairs. 4. Manager makes contact with the appropriate DEP office. 5. After repairs are completed samples are taken. 6. When samples come back clear – boil water notice is lifted. 7. Manager files all malfunction reports with the DEP. 8. Field supervisor inspects all systems to make sure everything is running smooth.

D. Structure Fire Response Procedures

1. Utility staff discovering fire:
    a) Evacuate structure on fire.
    b) Call 9-1-1
2. Manager determines severity of incident.
    a) Manager contact State Warning Point.
    b) Field supervisor coordinates repairs when fire is extinguished.
3. Field supervisor reports to manager when repairs are complete.
    a) Manager reports completion of all repairs to any Gov. agency.
    b) Manager updates ERP as needed.

E. Flood Preparedness & Response Procedures

(Is any critical part of your system in a flood prone area?)

None of our systems are in a flood prone area.

F. Forest or Brush Fire Response Procedures

(Is any critical part of your system subject to forest or brush fires?)

1. Utility staff discovering fire.
    a) Orders evacuation of any threatened buildings.
    b) Calls 9-1-1 to report fire.
2. Manager determines the severity of fire.
    a) Manager contacts the State Warning Point.
    b) Field supervisor inspects for any damage and coordinates repairs after fire is extinguished.
3. Field supervisor reports to manager that all repairs are complete.
    a) Manager updates the ERP as needed.
    b)

G. Hazardous Material Release Response Procedures

Do you have any hazardous material (chlorine gas) at your water system?

We have no Hazardous materials at any of our water systems.

H. Other Disaster Response Procedures

Are there other disasters that you want to prepare for, such as a Contamination event, SCADA Attack, or Structural Damage from an Intentional Act?

Contamination

1.
   a)
   b)
2.
   a)
   b)

SCADA Attack

1.
   a)
   b)
2.
   a)
   b)

Structural Damage from an Intentional Act

1.
   a)
   b)
2.
   a)
   b)

Section 4
Standby Power Requirements

Include details about how the water system meets the standby power requirements as described in Ch. 62-555.320(14), and 62-555.350(15)(d) FAC for water source, treatment, and pumping facilities necessary to deliver drinking water at a rate at least equal to the Average Daily Water Demand.

Standby Power for Wells or Surface Water Intakes

Standby Power (or by alternate means) to OPERATE WELLS at Average Daily Demand

Average Daily Demand (ADD) in gpd or gpm	25741 gpd
Wells Needed to Supply Average Daily Demand	1
Standby Generator (kW) Needed for ADD &	45 KW
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	We will have reserve fuel in the case of an emergency.

Standby Power for Treatment Facilities

Standby Power (or by alternate means) to TREAT WATER at Average Daily Demand

Treatment Units Needed to Supply ADD	
Standby Generator (kW) Needed to Treat ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Standby Power for Pumps

Standby Power (or by alternate means) to PUMP WATER at Average Daily Demand

Pumps Needed to Supply ADD	
Standby Generator (kW) Needed to Pump ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Section 5
Drinking Water Treatment Chemicals & Disinfectants

Include recommendations regarding the amount of drinking water treatment chemicals, to maintain in inventory at treatment plants. Do not just list chemical storage capacity, but instead recommend the minimum amount of chemicals to maintain in inventory, which depends upon the location and reliability of chemical suppliers, the status of impending disasters, etc.

Disinfection Treatment Information

Disinfection Chemical(s)	Chemical / Location No. 1	Chemical / Location No. 2
Type of Chemical	Chlorine	
Type of Chemical Feed	Hypo-Chlorinator	
Chemical Storage Location	On site in the pump house.	
Recommended Minimum Amount to be Maintained in Storage (gal)	55 gallons	

Other Chemical Information

Chemical(s) Used	Chemical #1	Chemical #2	Chemical #3	Chemical #4
Type of Chemical				
Type of Chemical Feed				
System Location				
Chemical Storage Location				
Recommended Minimum Amount to be Maintained in Storage (gal)				

Appendix A
Basic System information

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Keep this basic information readily available for when you need it for emergency responders, repair people, the news media and potentially, an emergency operator.

Basic System Information

GPS coordinates will help emergency crews find your system following a major catastrophe.

System identification number (PWS ID)	**3424621**	
System name and address	**Belleview Oaks**	
GPS Coordinates	Latitude:	Longitude:
Basic description and location of system facilities	**11260 SE 76th Ave**	
Population served and service connections.	Population =	Connections = 88
System Owner	**Sunshine Utilities of Central Florida, Inc.**	
Management Authority	**Owner and Manager**	
Name, title, and phone numbers of person responsible for maintaining and implementing the ERP.	**Dewaine Christmas** **Manager**	**352-347-8228 phone** **352-239-1198 cell**

System Demand

Demand based on Monthly Operational Records and system capacity based on Sanitary Survey.

Average Daily Demand (gpd)	25741 GPD
Maximum Daily Demand (gpd)	29300 GPD
System Capacity (gpd)	147000 GPD
Peak Hour Demand (gpm)	N/A

Location of Pertinent Information

Item	Location
Distribution System Map	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
O&M Manual(s)	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
Start-Up / Shut-Down Procedures	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.

Well Information

GPS coordinates will help emergency crews find wells following a major catastrophe.

Well Information	Well No. 1	Well No. 2	Well No. 3	Well No. 4
GPS well tag #				
Location (street)	SE 76th Ave			
GPS Coordinates	Lat: Long:		Lat: Long:	Lat: Long:
Well Depth (ft)	160 FT			
Well Yield (gpd)	259200 GPD			
Pump Type	Submersible			
Manufacturer	Sta-Rite			
Capacity (gpm)	230 GPM			
Motor Manufacturer	Franklin			
Horsepower	15 HP			
Phase	3			
Volts/Amps	230 volts			

Surface Water Sources

GPS coordinates will help emergency crews find surface water intakes following a major catastrophe.

Surface Water Information	Intake No. 1	Intake No. 2
Location (Street / Description)		
GPS Coordinates	Lat: Long:	Lat: Long:
Critical Water Level		

Finished Water Storage

GPS coordinates will help emergency crews find tanks following a major catastrophe.

Name of Storage Unit	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Location (Street)				
Location (GPS)	Lat: Long:	Lat: Long:	Lat: Long:	Lat: Long:
Type (ground, elevated, etc.)				
Capacity (gal)				
Empty Elevation				
Overflow Elevation				

High Service Pumps

HSP	HSP No. 1	HSP No. 2	HSP No. 3	HSP No. 4
Location (street)				
Pump Type				
Manufacturer				
Capacity (gpm)				
Motor Manufacturer				
Horsepower				
Phase				
Volts/Amps				

Other Applicable Information

Appendix B
Training and Rehearsals

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Event	Description	People & Organizations Involved	Date

Appendix C
Plan Approval

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Plan Approval

This plan is officially in effect when reviewed, approved, and signed by the following people:

Name / Title	Signature	Date
Hodges Family Trust		

APPENDIX D: CONSUMER CONFIDENCE REPORT

Certification of Delivery of Consumer Confidence Report

GENERAL INSTRUCTIONS: This form shall be completed by all community water systems (CWSs) that have prepared a Consumer Confidence Report (CCR) in accordance with Rule 62-550.824, F.A.C., Consumer Confidence Reports. At the end of this form is a certification in which a system's authorized representative shall certify that the reported information is accurate and is in conformance with Rule 62-550.824, F.A.C. **COMPLETE THIS FORM AND SUBMIT IT BY AUGUST 10,** together with a copy of your system's CCR, sample email or water bill (with URL notification of CCR, if applicable), and any newspaper notice(s) and posted notice(s) of your CCR, to the appropriate DEP district office or Approved County Health Department (ACHD). Systems serving 100,000 or more persons posting their CCRs on publicly accessible Internet sites shall provide the information on the appropriate Internet link(s). All information provided on this form must be typed or printed in ink.

I. General Water System Information. (To be completed by all community water systems.)

System name: Belleview Oaks Contact person: Dewaine Christmas

PWS Identification number (PWS ID): 3424621 Contact phone number: (352)347-8228

Mailing address: 10220 East Hwy 25 City: Belleview

State: Fl Zip: 34420-5531 Population served (not the number of "service connections"): _____

II. CCR Distribution Method. (To be completed by all community water systems. Choose A or B as appropriate.)

☐ A. We mailed, emailed, or otherwise directly delivered a copy of our CCR to each customer on _____ (enter date(s) of mailing or delivery) using the method(s) checked below:

- ☐ a. **Mailed** CCR
- ☐ b. **Mailed** notice (e.g. water bill) with **direct URL** to the CCR
- ☐ c. **Emailed** CCR as an **embedded** image or as an **attachment**
- ☐ d. **Emailed** notice with a **direct URL** to the CCR
- ☐ e. **Otherwise directly delivered** CCR to every customer. Explain: _____

☑ B. We were eligible to use a mailing waiver and used a mailing waiver. (Systems are eligible to use a mailing waiver only if they serve fewer than 10,000 persons, have not had any MCL or monitoring and reporting (M/R) violations, nor have been issued any formal Notices of Violations (NOVs), Consent Orders, Administrative Orders, or court-ordered civil actions during the calendar year before the year the CCR is due to the customers).

Answer a, b, **and** c below.)

- ☐ a. Date of newspaper: _____
- ☐ b. Name of newspaper/newsletter that published our CCR: _____
- ☑ c. A copy of our notice to customers, informing them that our CCR will not be mailed to them, is attached.

This notice was: ☑ mailed with bill; ☐ published in newspaper/newsletter; or ☐ other (describe)

_____

III. Posting of CCR on the Internet. (To be completed by all CWSs serving 100,000 or more persons.)

We posted our CCR on this publicly accessible internet site: _____

IV. Report on Your Effort to Distribute Your CCR to Your Water Consumers.

(To be completed by all CWSs. Check all items that apply - at least one item must be checked.)

In addition to the methods selected in Part II,

■ A. We posted our CCR on this publicly accessible internet site: www.sunshineutilities.org

☐ B. We published our CCR in the local newspaper(s). The name(s) and date(s) of the newspaper(s) are:

_____

RECEIVED
JUL 10 2020
DEP Central District

☐ C. We advertised the availability of our CCR as a press release, radio announcement, or TV announcement. The type(s) and date(s) of the advertisement(s) are: _____

☐ D. We delivered multiple copies of our CCR to single bill addresses serving several persons.

☐ E. We delivered multiple copies of our CCR to the following community organizations:

_____

☐ F. Our CCR was posted in the following public locations: _____

_____

☒ G. Our CCR was distributed by other methods (e.g., additional copies placed in entrance hall to facility). Describe.

Additional copies available at Sunshine Utilities Office

_____

V. Use of Non-English Language in CCR. (To be completed by all community water systems.)

☐ Information in a non-English language was included in our CCR because 20% or more of our customers do not speak English but speak _____. The method we used to determine the proportion of non-English speaking customers is _____

☒ This requirement does not apply to our system, because we have no non-English speaking group among our customers equal to or exceeding 20% of our total number of customers.

VI. Other Delivery Requirements. (To be completed by all community water systems.)

(A) Was a copy of your CCR sent to your county health department, as required by rule? ☒ Yes ☐ No

(B) Is your system regulated by the Public Service Commission (PSC)? ☐ Yes ☐ No

If Yes, was a copy of your CCR sent to the PSC, as required by rule? ☒ Yes ☐ No

(C) If your system sells water to other systems, have you provided them with either a copy of your CCR or the required consumer confidence information? ☒ Yes ☐ No ☒ Not Applicable

VII. Certification of Delivery of CCR and Compliance with Regulations. (To be completed by all CWSs.)

This statement certifies that the above named community public water system has distributed its CCR for the time period starting ***January 1,*** 2019 ***, and ending December 31,*** 2019, to its customers on 6/15/20 (mm/dd/yy) and provided the appropriate notices of availability according to the requirements listed in this form, which are also found in Rule 62-550.824, F.A.C. This statement also certifies that the reported information is correct and consistent with the compliance monitoring data for the same period previously submitted to the Department, and that the report has been delivered to the agencies identified in Rules 62-550.824(3)(e)3., and 4., F.A.C.

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____

NAME (please print): Dewaine Christmas

TITLE: Manager DATE: 6/24/20

☒ **A copy of our CCR is attached, and**

☐ **If using electronic delivery, a copy of our sample email or notice (e.g. water bill), with URL leading directly to the CCR and not a general information website, is attached. For example, if you are using the FRWA website to post your CCR, your URL would be:**

www.frwa.net/2012-Your PWSID Number.pdf (www.frwa.net/2012-0000000.pdf).

SUNSHINE UTILITIES
10230 East Highway 25
Belleview, Florida 34420

Drinking Water Quality Report

Annual Drinking Water Quality Report for 2019

Belleview Oaks Estates

Florida Department of Environmental Protection Public Water System ID # 3424621

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

The source of our water is groundwater from one well located in the community. The well draws from the Floridan aquifer, one of the world's most protected sources. Our water is chlorinated for disinfection purposes. In 2019 the Department of Environmental Protection performed a Source Water Assessment on our system to provide information about any potential sources of contamination in the vicinity of our wells. There is one potential source of contamination identified with a low level of concern. The assessment results are available of the FDEP Source Water Assessment and Protection Program website at www.dep.state.fl.us/swapp.

If you have any questions about this report or concerning your water utility please contact **Dewaine Christmas, at Sunshine Utilities, (352) 347-8228**, during normal business hours. We encourage our valued customers to be informed about their water utility.

Sunshine Utilities routinely monitors for constituents in your drinking water according to Federal and State laws, rules and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2019. Data obtained before January 1, 2019, and presented in this report are from the most recent testing performed in accordance with the laws, rules and regulations.

WATER QUALITY TEST RESULTS FOR BELLEVIEW OAKS

Inorganic Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Arsenic	(ppb)	JUN '18	No	0.6	N/A	N/A	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	(ppm)	JUN '18	No	0.0041	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chromium	(ppb)	JUN '18	No	2.4	N/A	100	100	Discharge from steel and pulp mills; erosion of natural deposits
Fluoride	(ppm)	JUN '18	No	0.12	N/A	4	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum levels between 0.7 and 1.2 ppm
Nitrate (as Nitrogen)	(ppm)	DEC '19	No	2.63	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium	(ppb)	JUN '18	No	2.3	N/A	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium	(ppm)	JUN '18	No	6.5	N/A	N/A	160	Salt water intrusion; leaching from soil

Stage 2 Disinfectants and Disinfection By-Products

Disinfectant or Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL or MRDL Violation Yes / No	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine	(ppm)	2019	No	0.7	0.4 - 1.0	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Total trihalomethane (TTHM)	(ppb)	SEP '18	No	0.52	N/A	N/A	MCL = 80	By-product of drinking water disinfection

Lead and Copper (Tap Water)

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	AL Violation Yes / No	90th Percentile Result	No. of Sampling Sites Exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper	(ppm)	JUL '18	No	0.385	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

In the table you may find unfamiliar terms and abbreviations. To help you better understand these terms we have provided the following definitions (please note not all definitions may pertain to your report):

- Action Level (AL) – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial growth.
- Maximum Residual Disinfectant Level Goal (MRDLG) – The level of a drinking water disinfectant below Which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.
- ND – This abbreviation means not detected and indicates that the substance was not found by laboratory analysis.
- Parts per million (ppm) or milligrams per Liter (mg/L) - one part of analyte (by weight) to 1 million parts of water sample (by weight).
- Parts per billion (ppb) or micrograms per Liter (µg/L) - one part of analyte (by weight) to 1 billion parts of water sample (by weight).
- Picocurie per liter (pCi/L) - measure of the radioactivity in water.

What does this mean?

As you can see our system had no violations for water quality. We are very pleased to report that our water meets all federal and state requirements.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Sunshine Utilities is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals, and in some cases radioactive material, and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

A.) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

B.) Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

C.) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

D.) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

E.) Radioactive contaminants, which may be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The FDA (Food & Drug Administration) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care providers about their drinking water. EPA/CDC (Center for Disease Control) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are also available from the Safe Drinking Water Hotline (800-426-4791).

We are committed to ensuring the quality of your water. If you have any questions or concerns about the information provided, please feel free to call the numbers listed.

Sunshine Utilities

10230 East Highway 25, Belleview, FL 34420
Office (352)347-8228 – Fax (352)347-6915

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality of water and services we deliver to you everyday. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

Please follow the link to view your 2019 Annual Water Quality Report.

https://www.sunshineutilities.org/ccr19/2019BelleviewOaks.pdf

APPENDIX E: SANITARY SURVEY REPORT

FLORIDA DEPARTMENT OF
Environmental Protection

CENTRAL DISTRICT OFFICE
3319 MAGUIRE BLVD., SUITE 232
ORLANDO, FLORIDA 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

April 17, 2020

Dewaine Christmas, Owner/Office Manager
Sunshine Utilities of Central Florida
CR 25A & SE 76th Ave.
Belleview, FL 32620
sunshineutl@aol.com

Re: Belleview Oaks Estates
PW Facility ID #3424621
Marion County

Dear Mr. Christmas:

Department personnel conducted an inspection of the above-referenced facility on March 30, 2020. Based on the information provided during the inspection, the facility was determined to be in compliance with the Department's rules and regulations. A copy of the inspection report is attached for your records, and any non-compliance items which may have been identified at the time of the inspection have been corrected.

The Department appreciates your efforts to maintain this facility in compliance with state and federal rules. Should you have any questions or comments, please contact Amada Fernandez at 407-897-4159 or via e-mail at Amada.M.Fernandez@FloridaDEP.gov.

Sincerely,

Jill Farris, Manager
Central District
Florida Department of Environmental Protection

Enclosure: Inspection Report

cc: Amada Fernandez and Jill Farris, FDEP
Universal Waters, universalwaters94@yahoo.com

State of Florida
Department of Environmental Protection
Central District

SANITARY SURVEY REPORT

Plant Name **BELLEVIEW OAKS ESTATES** County Marion PWS ID # **3424621**
Plant Location CR 25A & SE 76th Ave. Belleview, FL 32620 Phone 352-347-8228
Owner Name Sunshine Utilities of Central Florida, Inc. Phone 352-347-8228
Owner Address 10230 East Highway 25, Belleview, FL 34420-5531
Contact Person Dewaine Christmas Title Owner/Office manager Phone 352-347-8228
This Survey Date 3/30/20 Last Survey Date 3/16/17 Last Compliance Inspection Date 10/16/01

PWS TYPE: Community

PLANT CATEGORY & CLASS: 5D

MAX-DAY DESIGN CAPACITY: 147,000 gpd

PWS STATUS: Approved

TREATMENT PROCESSES IN USE
Hypochlorination

SERVICE AREA CHARACTERISTICS
Subdivision
Food Service: ☐ Yes ☐ No ☒ N/A

Number of Service Connections 84
Population Served 294 Basis Operator

OPERATION & MAINTENANCE LOG: Yes
Location Water treatment plant
Comments

CERTIFIED OPERATOR: Yes
Operator(s) & Certification Class-Number:
Kelvin Edun C-7459

Hrs/day: *Required* Visit* *Actual* Visit*
Days/wk: *Required* 3 *Actual* 3
Non-consecutive Days? ☐ Yes ☐ No ☒ N/A
Comments *Visit must total 0.3 hour/week.

MONTHLY OPERATION REPORTS (MORs)
MORs submitted regularly? ☒ Yes ☐ No ☐ N/A
Data missing from MORs? ☒ No ☐ Yes ☐ N/A
Average Day (from MORs) 18,694 gpd
Maximum Day (from MORs) 29,300 gpd 01/2020
Comments

Flow Measuring Device Flow Meter
Meter Size & Type 3" Kent
Date Last Calibrated 12/4/18

RAW WATER SOURCE
☒ GROUND; Number of Wells 1
☐ PURCHASED from PWS ID #
☐ Emergency Water Source
Emergency Water Capacity

STANDBY POWER SOURCE: Not Required
Source
Capacity of Standby (kW)
Switchover: ☐ Automatic ☐ Manual
Hrs Operated Under Load
What equipment does it operate?
☐ Well Pumps
☐ High Service Pumps
☐ Treatment Equipment
Satisfy avg. daily demand? ☐Yes ☐No ☐Unknown
Audio-visual alarm? ☐Yes ☐No
Comments

PLANS AND MAPS

Coliform Sampling Plan	☒ Yes	☐ No	☐ N/A
D/DBP Monitoring Plan	☒ Yes	☐ No	☐ N/A
Lead and Copper Plan	☒ Yes	☐ No	☐ N/A
Distribution System Map	☒ Yes	☐ No	☐ N/A
Emergency Response Plan	☒ Yes	☐ No	☐ N/A

Comments

PREVENTIVE MAINTENANCE/O&M

Operation & Maintenance Manual	☒ Yes	☐ No	
Preventive Maintenance Program	☒ Yes	☐ No	☐ N/A
Flushing Program	☒ Yes	☐ No	☒ N/A
Records	☒ Yes	☐ No	☒ N/A
Isolation Valve Exercise	☒ Yes	☐ No	☒ N/A
Records	☒ Yes	☐ No	☒ N/A

Comments

CROSS CONNECTION CONTROL
BFPAs None # Tested N/A
WWTP RPZ N/A Date Tested N/A
Written Plan Yes Date Unknown
Comments

PWS ID # 3424621
Date 3/30/20

GROUND WATER SOURCE

Well Number (Florida Unique Well ID #)		1 (AAE0255)			
Year Drilled		1983			
Depth Drilled		160’			
Drilling Method		Rotary drill			
Type of Grout		Neat cement			
Static Water Level		30’			
Pumping Water Level		Unknown			
Design Well Yield		Unknown			
Test Yield		Unknown			
Actual Yield (if different than rated capacity)		Unknown			
Strainer		Unknown			
Length (outside casing)		80’			
Diameter (outside casing)		6’’			
Material (outside casing)		Black steel			
Well Contamination History		None			
Is inundation of well possible?		No			
6’ X 6’ X 4” Concrete Pad		Yes			
SET BACKS	Septic Tank	N/A			
	Reuse Water	>200’			
	WW Plumbing	>200’			
	Other Sanitary Hazard	None observed			
PUMP	Type	Submersible			
	Manufacturer Name	Unknown			
	Model Number	Unknown			
	Rated Capacity (gpm)	150			
	Motor Horsepower	10			
Well casing 12” above grade?		Yes			
Well Casing Sanitary Seal		OK			
Raw Water Sampling Tap		Yes			
Above Ground Check Valve		Yes			
Security		Yes			
Well Vent Protection		N/A			

COMMENTS _____

PWS ID # 3424621
Date 3/30/20

CHLORINATION (Disinfection)
Type: ☐ Gas ☒ Hypo
Make Uni-Dose Capacity 12 gpd
Chlorine Feed Rate 100% stroke
Avg. Amount of Cl_2 gas used N/A
Chlorine Residuals: Plant 1.25 Remote 1.21
Remote tap location 7415 SE 114 Ln.
DPD Test Kit: ☐ On-site ☒ With operator
☐ None ☐ Not Used Daily
Injection Points Prior to hydropneumatic tank
Booster Pump Info N/A
Comments

Chlorine Gas Use Requirements	YES	NO	Comments
Dual System	☐	☐	
Auto-switchover	☐	☐	
Alarms: Loss of Cl_2 capability Loss of Cl_2 residual Cl_2 leak detection	☐ ☐ ☐	☐ ☐ ☐	
Scale	☐	☐	
Chained Cylinders	☐	☐	
Reserve Supply	☐	☐	
Adequate Air-pak	☐	☐	
Sign of Leaks	☐	☐	
Fresh Ammonia	☐	☐	
Ventilation	☐	☐	
Room Lighting	☐	☐	
Warning Signs	☐	☐	
Repair Kits	☐	☐	
Fitted Wrench	☐	☐	
Housing/Protection	☐	☐	

AERATION (Gases, Fe, & Mn Removal)
Type Capacity
Aerator Condition
Visible Algae Growth
Protective Screen Condition
Frequency of Cleaning
Date Last Inspected/Cleaned
Comments

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

Tank Type/Number	H	
Capacity (gal)	2,000	
Material	Steel	
Gravity Drain	Yes	
By-Pass Piping	Yes	
Protected Openings	Yes	
Sight Glass or Level Indicator	Yes	
PRV/ARV	Both	
Pressure Gauge	Yes	
On/Off Pressure	40/60	
Access Secured	Yes	
Access Manhole	Yes	
Tank Sample Tap Location	Discharge piping	
Date of Inspection	11/18	
Date of Cleaning	11/18	

Comments

HIGH SERVICE PUMPS

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

Comments

DEFICIENCIES:

No deficiencies were noted at the time of the inspection.

MONITORING REMINDER:

- Nitrate and nitrite samples are required to be collected from the point of entry (POE) to the distribution system annually. The 2020 results have not been received. Early sampling is recommended.
- The consumer confidence report (CCR) must be delivered to consumers and the Department no later than July 1, 2020, and certification of delivery of the CCR must be submitted to the Department no later than August 10, 2020.
- Monitoring schedules are available on the Central District's Drinking Water site:

https://floridadep.gov/central/central/content/resources-drinking-water-facilities-and-operators-central-district

COMMENTS:

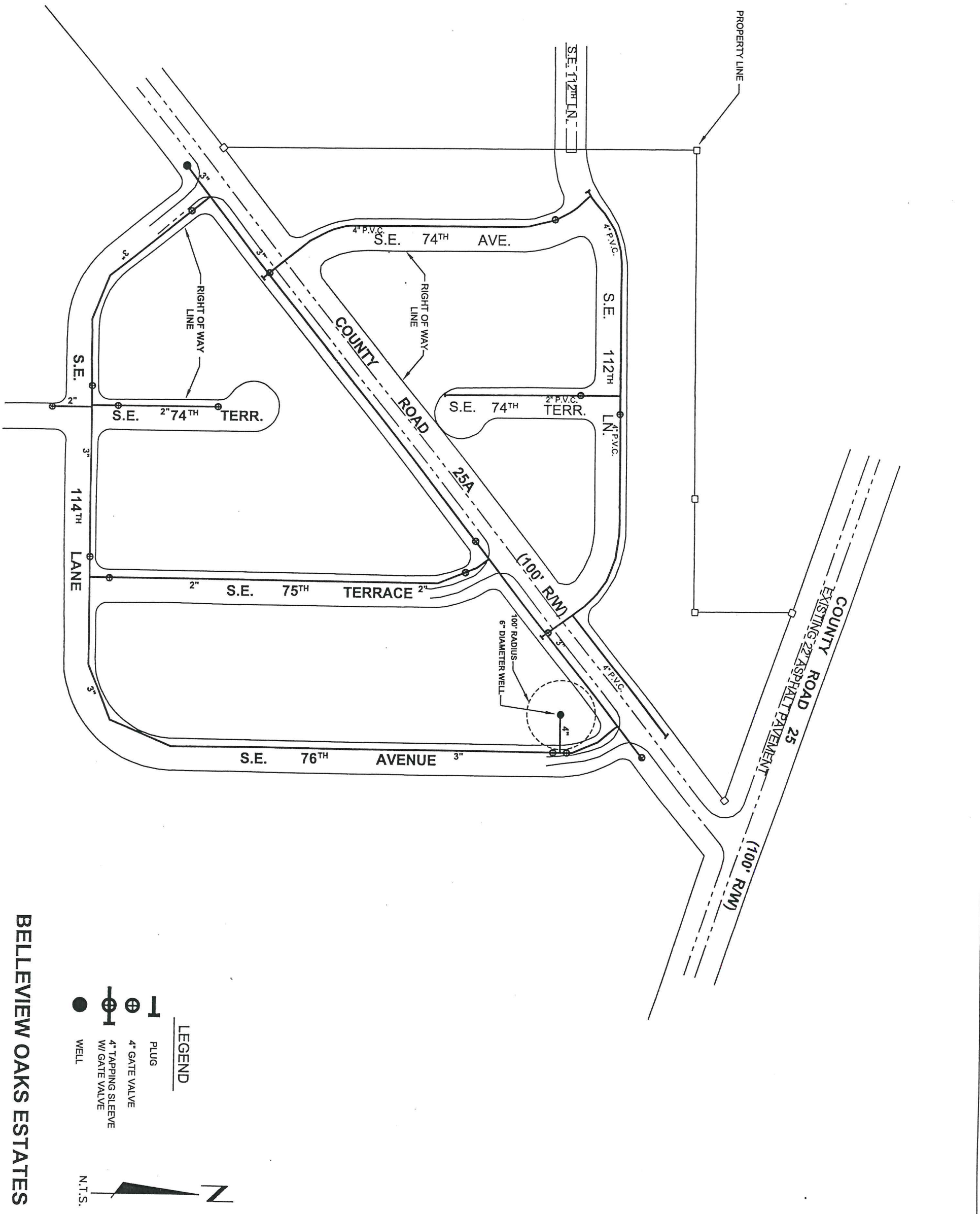
- Contact FRWA (Florida Rural Water Association) at 850-668-2746, or frwa@frwa.net, for free technical assistance with your system. FRWA has extended benefits offered to members.
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.

  Checking the calibration of finished-drinking-water meters at treatment plants shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water. [Rule 62-555.350(2), F.A.C.]
- Suppliers of water shall submit written notification to the Department before beginning work or alterations to the public water system. Each notification shall be submitted to the appropriate Department of Environmental Protection District Office or Approved County Health Department and shall include the following: a description of the scope, purpose, and location of the work or alterations; and assurance that the work or alterations will comply with applicable requirements listed in Rule 62-555.330, F.A.C. Suppliers of water may begin such work or alterations 14 days after providing notification to the Department unless they are advised by the Department that the notification is incomplete or that a construction permit is required.
- Suppliers of water shall telephone the SWO at 1-800-320-0519 immediately (i.e., within two hours) after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving a public water system. [Rule 62-555.350(10)(a), F.A.C.]
- Suppliers of water shall telephone, and speak directly to a person at, the appropriate DEP District Office as soon as possible, but never later than noon of the next business day, in the event of any of the following emergency or abnormal operating conditions:
  - The occurrence of any abnormal color, odor, or taste in a public water system's raw or finished water;
  - The failure of a public water system to comply with applicable disinfection requirements; or
  - The breakdown of any water treatment or pumping facilities, or the break of any water main, in a public water system if the breakdown or break is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(b), F.A.C.]
- Suppliers of water shall notify affected water customers in writing or via telephone, newspaper, radio, or television; and telephone, and speak directly to a person at, the appropriate DEP District Office by no later than the previous business day before taking PWS components out of operation for planned maintenance or repair work if the work is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(d), F.A.C.]

- Suppliers of water shall issue precautionary "boil water" notices as required or recommended in the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(11), F.A.C.]

amada fernandez	
Inspector Signature	*Reviewer Signature*
Amada Fernandez	Jill Farris
Printed Name	*Printed Name*
Environmental Specialist II	Environmental Manager
Title	*Title*
4/13/20	4/16/20
Date	*Date*

APPENDIX F: DISTRIBUTION MAP



DRN	CHK	DATE	DESCRIPTION
SAO	RJW	14 JUL 99	ORIGINAL ISSUE

Project No. 9636-02

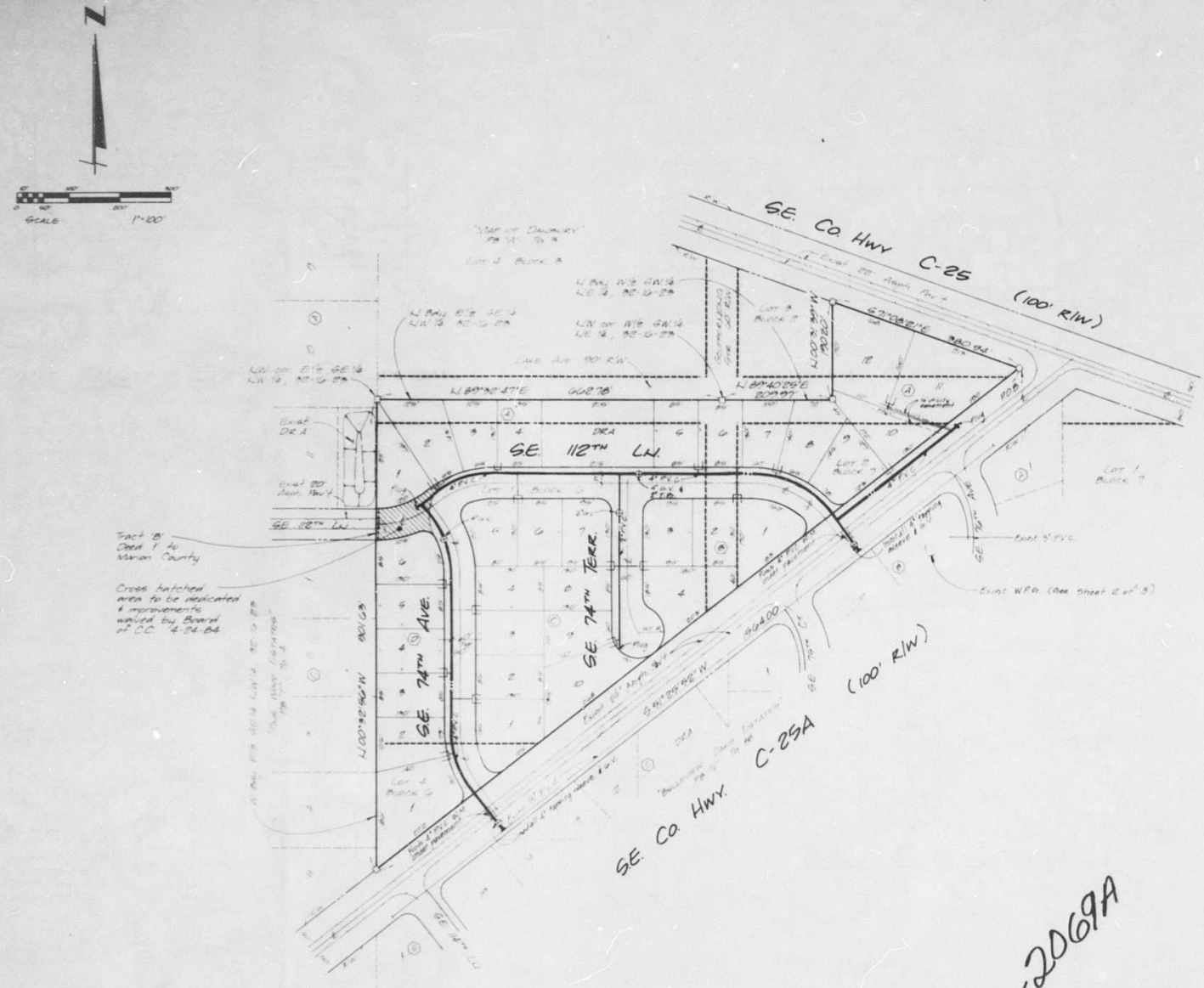
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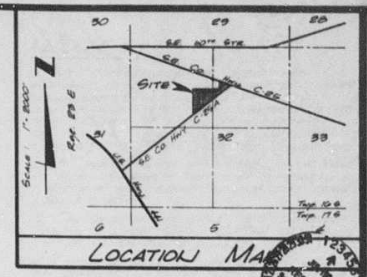
FACILITY WATER SYSTEM

BELLEVIEW OAKS ESTATES
SUNSHINE UTILITIES
BELLEVIEW, FLORIDA

H.W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17th ST, SUITE 802
OCALA, FLORIDA 34471
FAX (352) 840-9588
(352) 840-9774

APPENDIX G: BELLEVIEW OAKS ESTATES AS-BUILT





DESCRIPTION:

A portion of the Northeast 1/4 and the Northwest 1/4 of Section 32, Township 16 South, Range 23 East, Marion County, Florida, being more particularly described as follows:

BEGINNING at the intersection of the Southerly right-of-way of S.E. County Highway 25 (Alt. U.S. 441, 27) (100 feet wide), with the Northerly right-of-way of S.E. County Highway 25A (100 feet wide) thence S.51°25'52"W., along the Northerly right-of-way of said S.E. County Highway 25A, 1564.00 feet to the West boundary of the East 1/2 of the Southeast 1/4 of the Northwest 1/4 of aforesaid Section 32; thence N.00°32'56"W., along said West boundary, 901.63 feet to the Northwest corner of the East 1/2 of the Southeast 1/4 of the Northwest 1/4 of said Section 32; thence N.89°32'47"E., along the North boundary of said East 1/2, 662.78 feet to the Northwest corner of the West 1/2 of the Southwest 1/4 of the Northeast 1/4 of said Section 32; thence N.89°40'25"E., along the North boundary of said West 1/2 209.97 feets; thence N.00°31'39"W., 190.20 feet to the aforesaid Southerly right-of-way of S.E. County Highway 25; thence S.71°08'21"E., along said Southerly right-of-way 380.94 feet to the POINT OF BEGINNING. Containing 12.894 acres more or less.

NOTES:

1. Distances on corner lots are to the intersection of right-of-way lines extended
2. All block corner radii are 25' and all centerline radii are 180'
3. Bearings are based on an assumed meridian
4. ---- Denotes lot lines as per "Map of Dedication" P.B. "A", Pg. 3

LEGEND:

℄	Centerline
R/W	Right-of-Way
R	Radius
W.M.	Water Main
G.V.	Gate Valve
T.B.	Temporary Blowoff
F.H.	Fire Hydrant
P.V.C.	Poly-vinyl Chloride
G.I.P.	Galvanized Iron Pipe
D.I.P.	Ductile Iron Pipe
H.P.	Horsepower
L.F.	Lineal Feet
L.S.	Lump Sum
Ea.	Each
	Gate Valve
	Single Water Service
	Double Water Service
W.P.S.	Water Plant Site
S.L.S.	Sewer Lift Station
D.R.A.	Drainage Retention Area
D.R.O.W.	Drainage Right-of-Way
D.E.R.	Department of Environmental Regulation

APPROVED
WC42 20694A
WATER SYSTEM
Date AUG 15 1984
By
Joseph C. Lordon

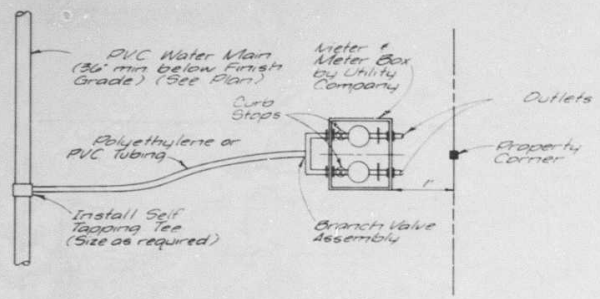
CARBAUGH & ASSOCIATES
ENGINEERS · SURVEYORS
2801 S.W. COLLEGE ROAD SUITE NO. 8
OCALA, FL. 32674 TELE (904) 237-2161

WATER DISTRIBUTION SYSTEM
BELLEVIEW OAKS ESTATES
UNIT No. 2
CLASS 'A' GROUP I SUBDIVISION
MARION COUNTY, FLORIDA

DESIGNED A.G.
DRAWN
CHECKED J.C.L.
DATE 6-29-84
PROJECT NO. 84-107
FILE NO. G-4

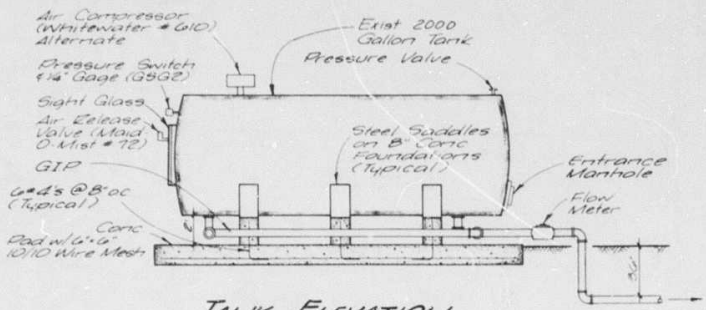
SHEET 1 OF SHEETS 3

FIELD BOOK(S) 88 PAGES 14-41 DATE OF SURVEY October 25, 1983



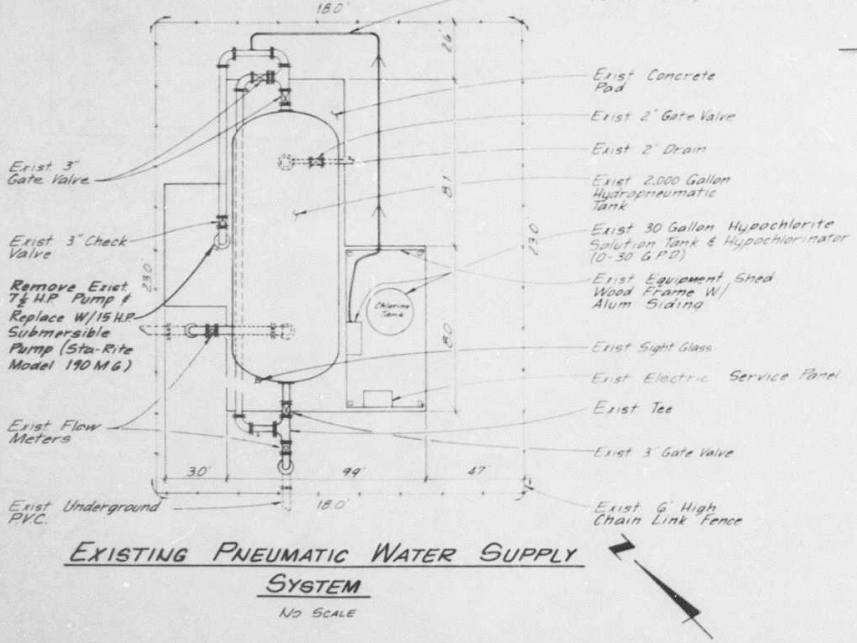
TYPICAL WATER SERVICE CONNECTION

No Scale



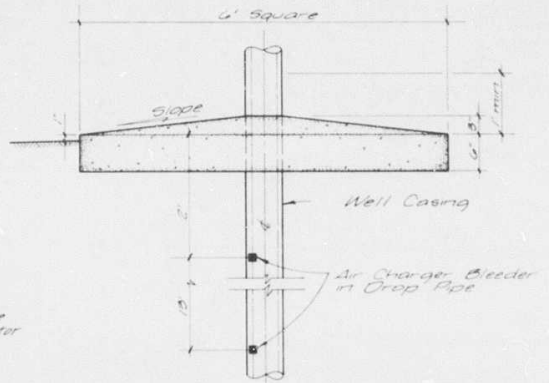
TANK ELEVATION

No Scale



EXISTING PNEUMATIC WATER SUPPLY SYSTEM

No Scale



WELL PAD DETAIL

No Scale

NOTES:

1. Well construction, treatment, storage, and distribution facilities shall be constructed in accordance with the requirements of the "Rules of the Department of Environmental Regulation, Chapters 17-22, Water Supplies"
2. All equipment shall be installed in accordance with the manufacturers recommendations and local code
3. Chlorinator shall be Chem-Tech, Model 080 0-30 GPD or Approved Equal
4. Chlorinator shall be wired to alternate and run concurrently with well pump
5. The internal coating of the tank shall be AWWA and Environmental Health Service approved
6. The tank shall be painted
7. Flow measurement shall also be by individual lot metering
8. All electrical work shall be accomplished by a licensed electrician in accordance with the National Electrical Code
9. All waterline construction shall be in accordance with the "Public Works Manual of Marion County, Florida
10. All waterlines shall be installed 1' North or West of street ℄ unless otherwise shown
11. Waterlines shall be installed after road grading and installation of culverts, and before placement of pavement
12. The waterline contractor shall coordinate his work with the road contractor
13. All PVC piping must bear the NSF logo "for Potable Water Use"
14. Water Valves and covers shall not be located in pavement unless necessary
15. All dead end lines shall be provided with temporary blow-offs and shall be capped after flush and satisfactory test results
16. The waterline contractor shall make pressure tests and obtain satisfactory bacteria logical samples from locations designated in the DER Permit
17. All materials shall be in accordance with the construction regulations of the "Public Works Manual of Marion County, Florida" only to the extent of Material Requirements and Quality Control

APPROVED
DEPARTMENT OF ENVIRONMENTAL REGULATION
DEC 2 2059
WATER SYSTEM
MAR 1 9 1984
STATE OF FLORIDA

Joseph C. Carbaugh

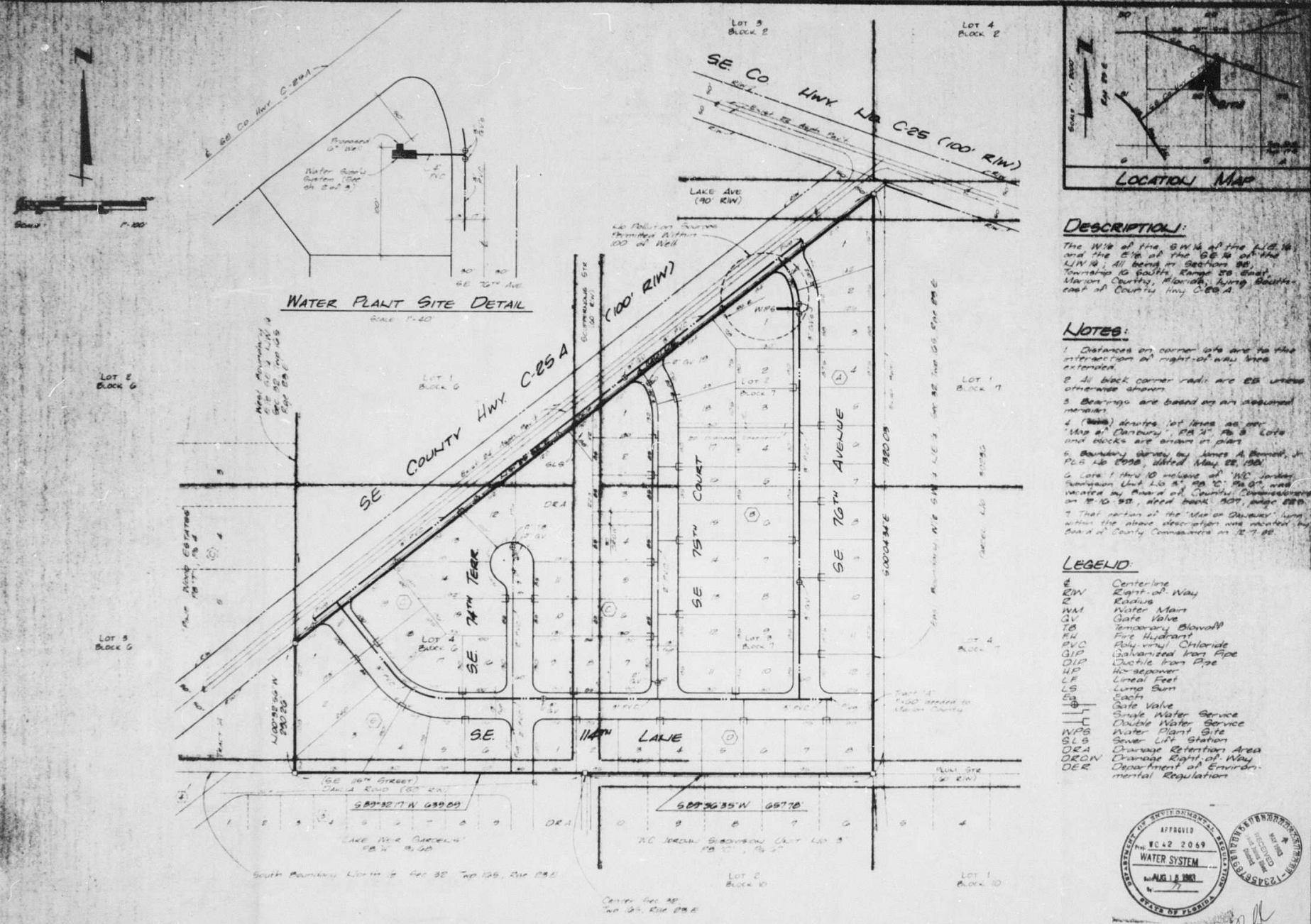
CARBAUGH & ASSOCIATES
ENGINEERS · SURVEYORS
2801 SW. COLLEGE ROAD SUITE NO 9
OCALA FL 32674 TELE (904) 237-2181

DRAWN	JCL	6-28-84
CHECKED	MLA	83-107
APPROVED	MJC	G-4

EXISTING WATER SUPPLY SYSTEM
BELLEVIEW OAKS ESTATES
CLARA K. GROVE 1 SUBDIVISION
MARION COUNTY, FLORIDA

SHEET 2 OF SHEETS 3

FIELD BOOK(S) 68 PAGES 55 DATE OF SURVEY 6-21-84



DESCRIPTION:

The W½ of the S.W¼ of the N.E¼ and the E½ of the S.E¼ of the N.W¼; All being in Section 32, Township 16 South, Range 23 East, Marion County, Florida, lying Southeast of County Hwy. C-25A.

NOTES:

1. Distances on corner lots are to the intersection of right-of-way lines extended.
2. All block corner radii are 25 unless otherwise shown.
3. Bearings are based on an assumed meridian.
4. (Basis) of curves, lot lines as per "Map of Danbury", PB "A" Pg 8. Lots and blocks are shown on plan.
5. Boundary survey by James A. Bennett, Jr. FLA. Lic. 2098, dated May 22, 1981.
6. Lots 1 thru 10 inclusive of "W.C. Iron Shadow Subdivision Unit No 3", PB "C" Pg 67, was vacated by Board of County Commissioners on 12-10-73, deed book 907, page 880.
7. That portion of the "Map of Danbury" lying within the above description was vacated by Board of County Commissioners on 12-7-82.

LEGEND:

℄	Centerline
R/W	Right-of-Way
R	Radius
W.M.	Water Main
G.V.	Gate Valve
T.B.	Temporary Blowoff
F.H.	Fire Hydrant
P.V.C.	Poly-vinyl Chloride
G.I.P.	Galvanized Iron Pipe
D.I.P.	Ductile Iron Pipe
H.P.	Horsepower
L.F.	Lineal Feet
L.S.	Lump Sum
Ea.	Each
	Gate Valve
	Single Water Service
	Double Water Service
W.P.S.	Water Plant Site
S.L.S.	Sewer Lift Station
D.R.A.	Drainage Retention Area
D.R.O.W.	Drainage Right-of-Way
D.E.R.	Department of Environmental Regulation

APPROVED FOR WC 42 2069 WATER SYSTEM DATE AUG 18 1983 BY

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

RECEIVED AUG 1983

CARRAUGH & ASSOCIATES ENGINEERS SURVEYORS PLANNERS OCALA, FLORIDA

WATER DISTRIBUTION SYSTEM

BELLAMEW OAKS ESTATES

Owner of Record: J. Bellamew

Marion County, Florida

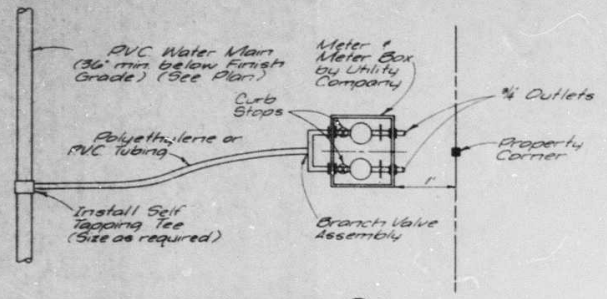
DATE OF SURVEY

FIELD BOOK

PAGES

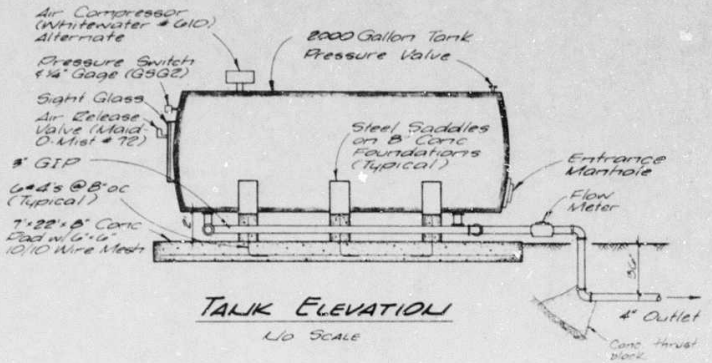
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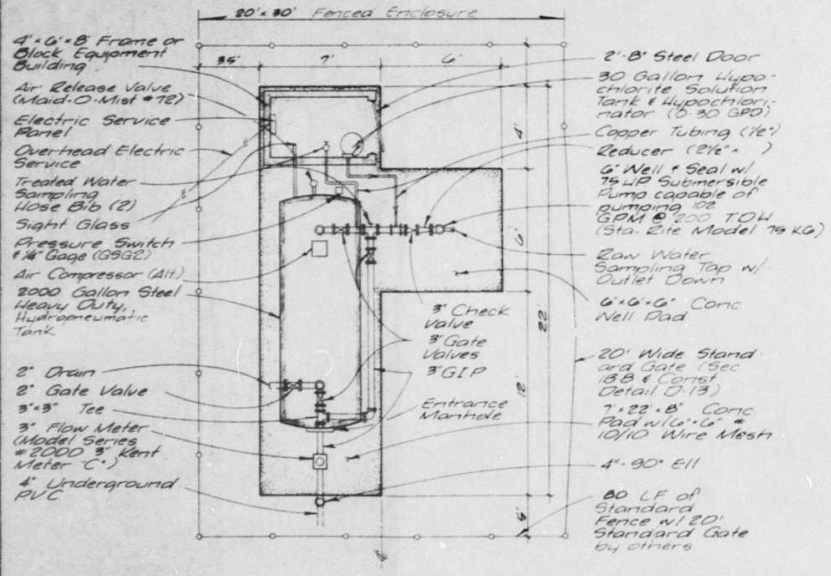
TYPICAL WATER SERVICE COLLECTION

1/0 SCALE



TANK ELEVATION

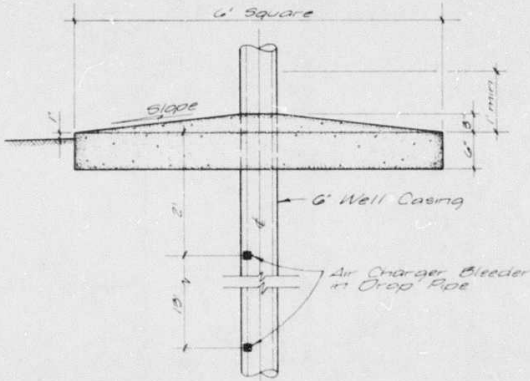
1/0 SCALE



PNEUMATIC WATER SUPPLY SYSTEM PLAN

1/0 SCALE

N



WELL PAD DETAIL

1/0 SCALE

NOTES:

1. Well construction, treatment, storage, and distribution facilities shall be constructed in accordance with the requirements of the "Rules of the Department of Environmental Regulation" Chapters 17-22, Water Supply".
2. All equipment shall be installed in accordance with the manufacturers recommendations and local code.
3. Chlorinator shall be Chem-Tech, Model D-30 0-30 GPD or Approved Equal.
4. Chlorinator shall be wired to alternate and run concurrently with well pump.
5. The internal coating of the tank shall be AWWA and Environmental Health Service approved.
6. The tank shall be painted.
7. Flow measurement shall also be by individual lot metering.
8. All electrical work shall be accomplished by a licensed electrician in accordance with the National Electrical Code.
9. All waterline construction shall be in accordance with the Public Works Manual of Marion County, Florida.
10. All waterlines shall be installed 7' North or West of street ℄ unless otherwise shown.
11. Waterlines shall be installed after road grading and installation of culverts, and before placement of pavement.
12. The waterline contractor shall coordinate his work with the road contractor.
13. All PVC piping must bear the NSF logo "for Potable Water Use".
14. Water Valves and covers shall not be located in pavement unless necessary.
15. All dead end lines shall be provided with temporary blow-offs and shall be capped after flush and satisfactory test results.
16. The waterline contractor shall make pressure tests and obtain satisfactory bacteriological samples from locations designated in the DER Permit.
17. All materials shall be in accordance with the construction regulations of the "Public Works Manual of Marion County, Florida", only to the extent of Material Requirements and Quality Control.
18. The waterline contractor shall perform a satisfactory well survey consisting of a minimum of 20 samples in accordance with DER Requirements, and shall obtain primary and secondary chemical water analysis and gross alpha.
19. Well completion report, well survey, and water analysis shall be submitted to the project engineer prior to construction of the Water Supply System by the well driller or the waterline contractor.

RECEIVED
DEC 12 2003
WATER SYSTEM
DEC 16 2003
STATE OF FLORIDA

CARLTON FIELDS
ATTORNEYS AT LAW

BELLEVIEW OAKS ESTATES
WATER SUPPLY SYSTEM
Sheet of Sheets
Marion County, Florida

DATE OF SURVEY
PAGES
FIELD BOOK(S)



woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Country Walk Subdivision

210 South Florida Avenue | Suite 220
Lakeland, Florida 33801
800.426.4262

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

0233748.01
CSWR
July 2021

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1.2 Water Use 1-2

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2.2 Permit Information 2-5
2.2.1 Water Quality and MCL Exceedances 2-5
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Table 2-2: Country Walk Chemical Metering Pumps
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Table 4-2: Water Treatment and Pumping Triage Repairs
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Figure 2-4: Storage Tank
Figure 2-5: Broken Distribution Meter
Figure 2-6: Pump Station Building
Figure 2-7: PIG 66-Gallon Tank Enclosure

APPENDICES

Appendix A: Source Water Assessment & Protection Program Results
Appendix B: Tank Inspection Report
Appendix C: Emergency Response Plan
Appendix D: Consumer Confidence Report
Appendix E: Sanitary Survey Report
Appendix F: Distribution Map

APPENDIX A: SOURCE WATER ASSESSMENT & PROTECTION PROGRAM RESULTS

» SWAPP Homepage
» Search By County
» Search by PWS Name or Number
» How to Help?

Definitions

» Aquifers
» Public Water Systems
» Assessment
» Potential Contaminants
» Susceptibility
» Prevention

Contact Us

» Email
» Mailing Address
» Source Water Protection Workshop

EPA Source Water Protection website

Source Water Assessment & Protection Program

Results for: 2019

COUNTRY WALK
SE 60TH TERR & SE 60TH AVE
BELLEVIEW, FL 34420

Public Water System ID: 3424657

Previously Known As:
COUNTRY WALK S/D

County: MARION
DEP Regulatory Office: DEP Central District
3319 Maguire Blvd, Suite 232
Orlando, FL 32803
407-897-4100
Public Water System Type : COMMUNITY
Public Water System Source : GROUND
Primary Use: SUBDIVISION
Population Served: 189
Size of Assessment Area:
GROUND: For this system, a 1000-foot radius circle around each well was used to define the assessment area.

Number of Wells: 1

Well ID	Owner ID	FLUWID	Status	Well Depth(ft)	Aquifer
5989	4	AAE0261	ACTIVE	140	Floridan Aquifer

Results:

GROUND WATER:
A search of the data sources indicated no potential sources of contamination.

Last updated: February 19, 2020

Accessibility Information

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Exit Disclaimer
Privacy Statement

3900 Commonwealth Boulevard M.S. 49
Tallahassee, Florida 32399
850-245-2118 (phone) /
850-245-2128 (fax)

APPENDIX B: TANK INSPECTION REPORT

INSPECTION AND TESTING of HYDROPNEUMATIC TANK

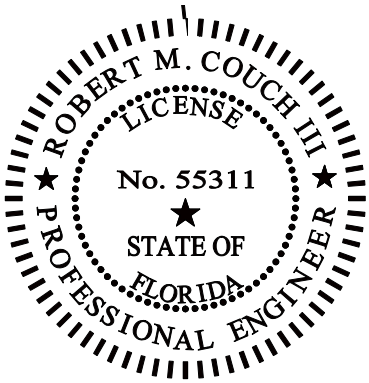
Country Walk Subdivision Tank

Pursuant to Chapter 62-555.350 (1) & (2) F.A.C

Water System:	Country Walk Subdivision
Street Address:	SE 60th Terrace & SE 60th Avenue
City, State:	Belleview, Florida
Phone:	352-347-8228
Contact:	Dewaine Christmas
E-mail:	sunshineutl@aol.com
PWS ID No.:	3424657
County:	Marion
Classification:	Community
Source:	Ground
Ownership:	Sunshine Utilities of North Central Florida
Date:	November 28, 2018

Inspection and Testing by:

Robert M. Couch III, P.E.
ENVIRO-TECH, Inc.
15290 SE Highway 42, PO Box 152
Weirsdale, FL 32195
Telephone: 352-694-1799
E-mail: envirotech@ymail.com



C.O.A. No. 8692 Registration No. 55311

Robert M. Couch III, P.E.

Digitally signed by Robert M. Couch III, P.E.
DN: cn=Robert M. Couch III, P.E., o=ENVIRO-TECH, Inc., ou=Reg. No. 55311, email=envirotech@ymail.com, c=US
Date: 2018.12.19 00:58:30 -05'00'

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1.0 EXECUTIVE SUMMARY

ENVIRO-TECH, Inc. was contracted to perform the five year tank condition inspection on the above mentioned hydro-pneumatic tank.

This condition inspection was performed on November 28, 2018 by Robert M. Couch III, P.E. on the above referenced water tank. The tank was drained and, an internal and external inspection was performed to assess the tank condition as required by the Florida Department of Environmental Protection (FDEP) Rule 62-555.

The tank shell and heads appeared to be in overall fair structural condition. Ultrasonic Thickness Measurement (UTM) readings indicated that the average thickness of the tank shell at the time of the field inspection was approximately 4.26 millimeters. UTM readings from the tank heads indicated an average thickness of 7.89 millimeters. The exterior coating of the tank appeared to be in overall good condition with no notable surface corrosion. There was no coating on significant areas of the tank interior and corrosion was noted on the tank floor and walls.

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 55 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 46 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

2.0 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS CHAPTER 62-555.350 (1) & (2)

2.1 Operation and Maintenance of Public Water Systems

(1) Suppliers of water shall operate and maintain their public water systems so as to comply with applicable standards in Chapter 62-550, F.A.C., and requirements in this chapter.

(2) Suppliers of water shall keep all necessary public water system components in operation and shall maintain such components in good operating condition so the components function as intended. Preventive maintenance on electrical or mechanical equipment – including exercising of auxiliary power sources, checking the calibration of finished-drinking-water meters at treatment plants, testing of air or pressure relief valves for hydropneumatic tanks, and exercising of isolation valves –shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water; however, in no case shall auxiliary power sources be run under load less frequently than monthly. Accumulated sludge and biogrowths shall be cleaned routinely (i.e., at least annually) from all treatment facilities that are in contact with raw, partially treated, or finished drinking water and that are not specifically designed to collect sludge or support a biogrowth; and blistering, chipped, or cracked coatings and linings on treatment or storage facilities in contact with raw, partially treated, or finished drinking water shall be rehabilitated or repaired. **Finished-drinking-water storage tanks, including conventional hydropneumatic tanks with an access manhole but excluding bladder- or diaphragm-type hydropneumatic tanks without an access manhole, shall be checked at least annually to ensure that hatches are closed and screens are in place; shall be cleaned at least once every five years to remove biogrowths, calcium or iron/manganese deposits, and sludge from inside the tanks; and shall be inspected for structural and coating integrity at least once every five years by personnel under the responsible charge of a professional engineer licensed in Florida.** Dead-end water mains conveying finished drinking water shall be flushed quarterly or in accordance with a written flushing program established by the supplier of water; additionally, dead-end or other water mains conveying finished water shall be flushed as necessary whenever legitimate water quality complaints are received.

2.2 Location of Inspection and Testing Report

Pursuant to Chapter 62-555.350 (2) and 62-555.350 (12) FAC, beginning 28 August 2003, all water systems regardless of size must maintain a copy up-to-date Preventive Maintenance Logs of each water system in the water facility office. The Preventive Maintenance Logs must show the date and type of all maintenance performed and comply with Rule 62-555.350 (2) and 62-555.350 (12), which requires the following:

- Preventive Maintenance Logs on Electrical and Mechanical Equipment
- Cleaning and Inspection Logs of Treatment Facilities and Storage Tanks
- Records of Coatings and Linings Rehabilitation or Repair
- Licensed Engineer Inspection Report (once every 5-years) for Finished-Drinking-Water Storage Tanks and Hydropneumatic Tanks
- Written Flushing Program and Logs showing that Dead-End Water Mains are being flushed at least quarterly
- Isolation Valves Exercise Logs

A copy of this report should be kept with these records.

3.0 HYDROPNEUMATIC PRESSURE TANK INSPECTION AND TEST PROCEDURES

This Inspection and Test Procedures is used as a reference in the overall inspection and testing of this Water System. This procedure is to be updated from time to time to reflect physical and procedural changes to the water system.

Inspection and testing of this tank was conducted by Robert M. Couch III, P.E. with the assistance of Jim Hodges Jr. of Sunshine Utilities of North Central Florida, Inc. The following inspection and testing procedures for hydropneumatic pressure tanks were used:

3.1 Pre-Test Procedures

1. If water service is to be interrupted customers must be notified in advance and if appropriate, boil water notices issued.

2. Turn-off all electrical power to well pumps, air motors, chlorination equipment, etc.

3. Open drain valve to empty tank. This is also a good time to check the valves (exercise them) that isolate the tank to see if they are in fact working as they should. This downtime can also be used to replace a valve if needed.

4. Once depressurized, the site glass is inspected for proper operation.

5. Once the tank is drained, the manway (hatch) will need to be removed for inspection of the interior.

3.2 Visual Inspection

6. Perform visual inspection of the tank exterior and accessories for presence of leaks, shell distortion, signs of settling, deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, accessories, etc.

7. Tank layout and physical measurements

8. Color photographs of the tank exterior and all of the essential appurtenances

9. Perform visual inspection of the tank interior for presence of deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, bio-growths, calcium or iron/manganese deposits, sludge, etc.

3.3 Nondestructive Examination

10. The tank interior coating is then examined for dry film thickness (See PosiTest® DFT Coating Thickness Gauge measurement) or equivalent.

11. The tank exterior is then examined for thickness measurements (See Smart Sensor AR 850+ Ultrasonic Thickness Gauge measurement).

12. If deemed necessary, the tank exterior (or interior) is then examined for porosity, pinholes and leaks (See PCWI porosity detection test, also known as holiday detector test).

3.4 Post-Test Procedures

13. Any coating problems detected should be corrected while the tank is out of service in order to avoid further extensive downtime.

14. Once the tank is inspected and all maintenance items are taken care of, the tank will need to be disinfected prior to placing back in use.

15. Once the tank has been disinfected, bacteriological tests must be performed on water samples (2 per FDEP) taken from the tank discharge. FDEP to clear for service prior to placing back in service.

3.5 Safety of Test Area

The test area should be restricted and barricaded. The porosity testing instrument output can be up to 20,000 volts. Testing should be carried out well clear of personnel not involved in the testing procedure. Should accidental contact be made with the test electrode, the recipient will receive a mild shock. This equipment should never be used by a person with a pacemaker.

4.0 TEST EQUIPMENT DESCRIPTIONS

4.1 AR 850+ Ultrasonic Thickness Gauge



The Smart Sensor AR 850+ Digital Ultrasonic Thickness Gauge is an economical, user-friendly, menu driven, and multi-functional unit offering extensive features from basic measurements to extended memory. This dynamic series of UT gauges is designed to measure the thickness of metallic and non-metallic materials such as steel, aluminum, titanium, plastics, ceramics, glass and any other good ultrasonic wave conductor as long as it has parallel top and bottom surfaces. The AR 850+ gauges will accurately display readings in millimeters after a simple calibration to a known Thickness or sound velocity.

4.1.1 Features

- Main Unit
- Transducer 5 MHz / 2.5 MHz
- Integrated steel calibration plate 4.0mm
- Batteries (2 x AAA)
- Ultrasonic Couplant
- Operation Manual
- Certificate
- Carrying Case
- One Year Warranty

4.1.2 Technical Specification

Display Type	4-digit LCD
Display Resolution	(<100 mm) 0.1 mm
Units	Metric
Measuring Range (steel)	1.2 to 220.0 mm
Sound Velocity Range	1000 to 9999 m/s
Operating Temperature	0 ° C +45° C
Frequency	5 MHz
Power Source	3 X 1.5V AAA batteries
Dimensions	70x145.5x28 mm

4.2 Compact DC Inspector Porosity Detector



Porosity detection of Tanks, Valves, Pumps, Pipeline field joints, and general inspection and maintenance. Suitable for a broad range of testing and inspection requirements. It is recommended that the integral probe be limited to a 125mm flat brush or fan brush.

4.2.1 Standards

ASTM G62-87(1998), ASTM D4787-93(1999), NACE RP0274-98, NACE RP0490-2001, NACE RPO188- 99, JIS G-3491, JIS G-3492, ANSI/AWWA C214-89, ANSI/AWWA C213-94 and ISO 2746:1998

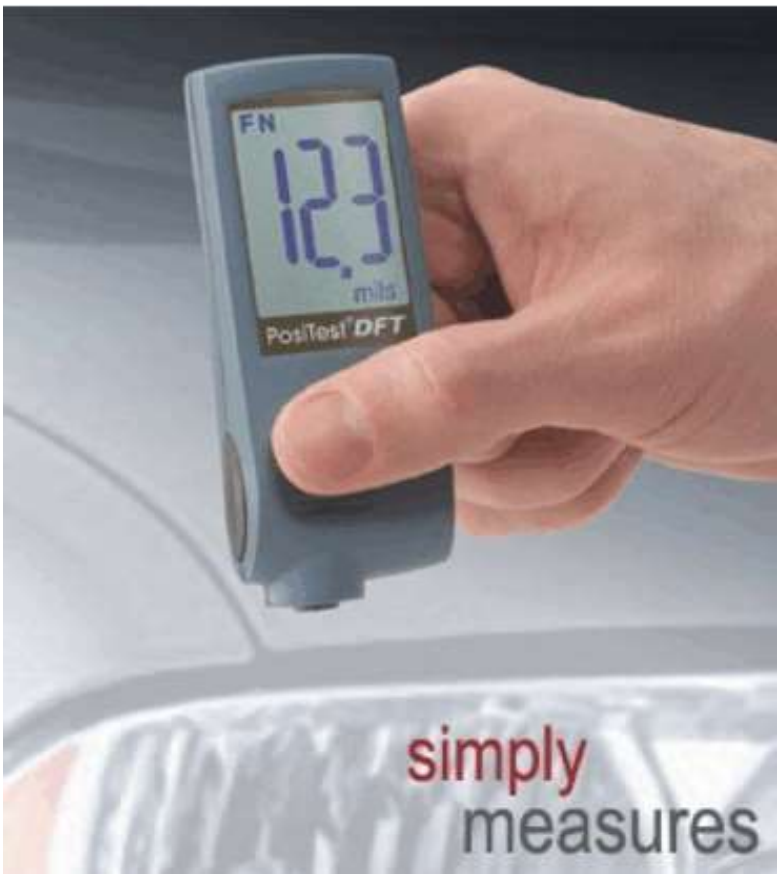
4.2.2 Features

- LED bar graph display of voltage
- "Single" hand-held, lightweight unit for simplicity and ease of operation
- Audible and visual alarms
- LED battery condition indicator
- Integral probe
- Detector
- 7m Earth lead and clamp
- Flat 125mm wide brass wire brush (or optional fan brush)
- Carry Case
- Operating instructions with conformance certificate
- Variable output up to 10kV or Variable output up to 20kV

4.2.3 Technical Specifications

Test Voltage	to 10kV (using 9V Battery)
Output Test Current	up to 100µA
Operating Temperature	-20 to +50ºC
Power Supply	Battery (9V internal)
Unit Dimensions	210 x 75 x 35mm (excl brush) 8.25" x 3.1" x 1.5"
Unit Weight	460g (incl probe)
Shipping Weight	1.5Kg

4.3 PosiTest DFT Coating Thickness Gauge



The new PosiTest DFT Coating Thickness Gauge measures coatings on ALL metals. It is the economical choice that retains the uncompromising quality of Qualitest inspection instruments.

Available in two models:

- PosiTest DFT Ferrous - measures non-magnetic coatings on steel.
- PosiTest DFT Combo - measures both non-magnetic coatings on steel and non-conductive coatings on aluminum, brass, etc. Automatically recognizes the substrate and takes a measurement.

4.3.1 Standards

ASTM B244/B499/B659/D1186/D1400/E376/G12, BS3900-C5, SSPC-PA2, ISO 2178/2360/2808, prEN ISO 19840, and others. Certificate of Calibration traceable to NIST available.

4.3.2 Features

- Fast, repeatable measurements
- No calibration required for most applications
- ZERO feature for rough or curved surfaces
- Handy RESET feature when no zero reference is available
- Strong, wear resistant, ruby-tipped probe
- Audible and visible measurement indication
- V-groove in probe for positioning on cylindrical parts
- Mils/Microns switchable
- Basic instructions on the back of each gauge

4.3.3 Technical Specifications

Measurement Range	0-40 mils (-1000 µm)
Accuracy	±(0.1 mils + 3%) (±(2µm + 3%))
Size	4 x 1.5 x 0.9 in (100 x38 x 23 mm)
Weight	2.5 oz (70 g)



5.0 HYDROPNEUMATIC PRESSURE TANK DESCRIPTION

The hydropneumatic pressure tank inspected and tested is described as follows:

Length: 11'-11" (13'-5" including elliptical heads)
Diameter: 5'-3" outside diameter
Volume: 2,000 gallons with elliptical heads
Tank Age: Unknown
Operating Pressure: 60 psi

6.0 TESTING

6.1 Porosity Testing

The tank surface was not swept with the Compact DC Inspector Porosity Detector during this inspection as no evidence of pin holes was observed throughout the surface of the tank.

6.2 Interior Coating Testing

Dry film thickness readings were not taken during the interior inspection as the interior tank coating was missing from significant portions of the tank interior.

6.3 Ultrasonic Metal Thickness Testing

A total of 49 metal thickness readings were taken at various locations on the tank shell and head surface. The average shell reading was 4.26 millimeters in the cylindrical section and 7.89 millimeters in the elliptical heads. Typical industry standard minimum wall thickness for tanks of this size is 1/4" (6.35 mm).

7.0 VISUAL OBSERVATIONS

7.1 Tank Exterior

The exterior of the tank appeared to be in fair structural condition. No lichens were growing on the tank exterior at the time of the inspection.

7.2 Tank Interior

The tank interior appeared to be in poor condition. There were significant areas with no coating present on the interior tank surface. There was corrosion noted throughout the tank interior.

8.0 DEFINITIONS

Design Pressure - The maximum design pressure determined from the metal thickness.

Maximum allowable working pressure (MAWP) – Maximum pressure that the pressure tank is capable of safely holding at a design maximum temperature (250ºF).

Operating Pressure - The normal maximum operating pressure of the pressure tank. The normal operating pressure must always be below the MAWP. As a rule of thumb the maximum operating pressure should always be less than the MAWP.

Metal Thickness – The thickness of the pressure tank wall (not including a corrosion allowance) to be used in the pressure calculations.

Design Safety Factor on Metal Tensile Strength – A pressure tank is normally designed with a safety factor of 3 to 4 on the metal tensile strength. All pressure tanks are designed to operate with wall stresses below the yield point of the metal used for fabrication.

9.0 TANK PRESSURE CALCULATIONS

The following formula is found in ASME Section I for determination of MAWP:

For tanks with circumferential stress on (longitudinal joints)

P = SEt/(R+0.6t)
= 60 MPa x 1.0 x 4.26 mm / (796 mm+0.6 x 4.26 mm)
= 0.320 MPa
= 46 psi

When:

t < 0.5R = 0.5 x 796 = 398 mm (true) or
P < 0.385SE = 0.385 x 60 x 1.0 = 23.1 MPa (true)

Where:

t = metal thickness (mm) where t = 4.26 mm
R = inside radius of shell course under consideration (mm) = 796 mm
E = joint efficiency for cylindrical or spherical shells = 1.0 for welded tanks and corresponds to a safety factor of 3.5 in the parent metal.
P = maximum allowable working pressure (MPa) where 1 MPa = 46 psi
S = maximum allowable stress value at the operating temperature of the metal = 60 MPa (Safety Factor of 4).

10.0 CONCLUSIONS

Inspection and testing of the Country Walk subdivision 2,000-gallon hydropneumatic pressure tank was performed on November 28, 2018. In addition to a visual examination, non-destructive examinations were also made. Non-destructive examinations included ultrasonic measurement of the tank wall thickness and visual inspection for pinholes and leaks. No examination of Dry Film Thickness Measurement (DFTM) of the interior coating was performed as there was no interior coating present on significant portions of the interior.

Observations of the tank exterior indicated tank is subject to normal exposure. Observations of tank interior revealed surface corrosion throughout significant portions of the tank interior.

11.0 RECOMMENDATIONS

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 55 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

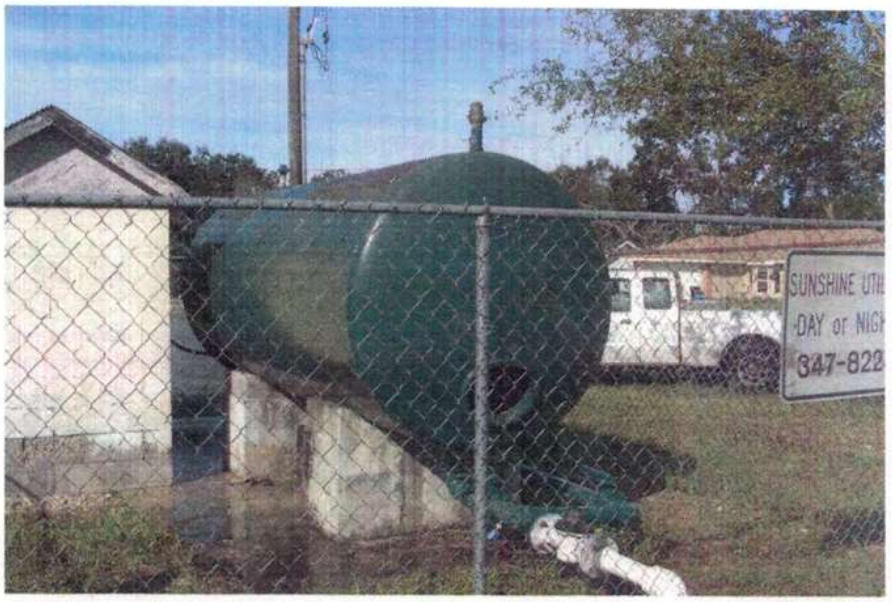
- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 46 psi until the next 5 year inspection cycle and provided the recommended actions are taken.

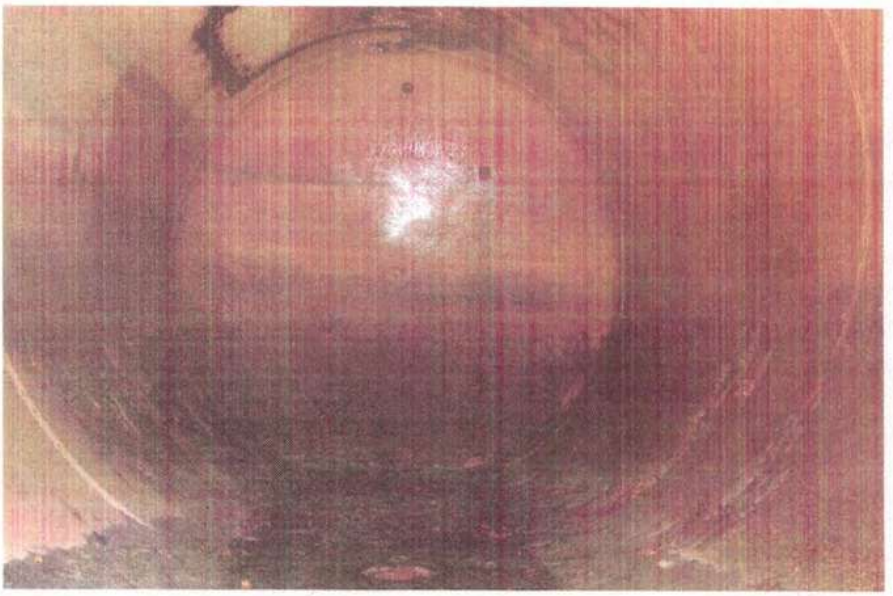
Signed: Robert M. Couch III Date: 12/19/2018

Robert M. Couch III, P.E. Registration No. 55311

Exterior and interior views of tank







APPENDIX C: EMERGENCY RESPONSE PLAN

Disaster-Specific Preparedness/Response Plan

for Public Drinking Water Systems

Per Chapter 62-555.350 (15) F.A.C.

Sunshine Utilities
COUNTRY WALK

Address:	10230 East Hwy. 25 Belleview, FL 34420
Phone:	352-347-8228
Fax:	352-347-6915
Contact:	Dewaine Christmas, Manager
E-mail:	SunshineUtl@AOL.COM
Connections:	68
PWS:	3424657
County:	Marion

May 17, 2013

Department of Environmental Protection
Michael D. LeRoy, P.E.
John R. Sowerby, P.E.

FRWA Security Staff
Sterling L. Carroll, P.E.
Ken Klos, P.E.
Coy Donaldson

For more information or additional copies of this document contact:

FLORIDA RURAL WATER ASSOCIATION
2970 Wellington Circle ~ Suite 101 ~ Tallahassee
Telephone: 850-668-2746 ~ Fax: 850-893-4581
e-mail: FRWA@frwa.net

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This template and guide has been developed by the Florida Rural Water Association (FRWA) in collaboration with the Washington State Department of Health, Office of Drinking Water, Olympia, Washington; and reviewed by Florida Department of Environmental Protection.

Acknowledgment of federal government support of this project:

This project and the preparation of this booklet was funded in part by a Water Protection Coordination grant from the Environmental Protection Agency through an agreement/contract with the Drinking Water Program of the Department of Environmental Protection. Total cost of the project was $3,000 of which $3,000 or 100 percent, was provided by the U.S. Environmental Protection Agency.

Preface
Chapter 62-555.350 (15) FAC

Disaster-Specific Preparedness/Response Plans

(15) Suppliers of water who own or operate a community water system serving, or designed to serve, 350 or more persons or 150 or more service connections shall develop a written emergency preparedness/response plan in accordance with Emergency Planning for Water Utilities, AWWA Manual M19, as adopted in Rule 62-555.335, F.A.C., by no later than December 31, 2004, and shall update and implement the plan as necessary thereafter. Said suppliers of water shall coordinate with their Local Emergency Planning Committee and their Florida Department of Law Enforcement Regional Security Task Force when developing their emergency plan and shall include in their plan all of the information in paragraphs (a) through (e) below.

(a) A Communication Charts as described in Chapter 5 of AWWA Manual M19.

(b) Written agreements with other agencies, utilities, or response organizations.

(c) A disaster-specific preparedness/response plan as described in Chapter 5 of AWWA Manual M19 for each of the following disasters: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release. Each disaster-specific preparedness/response plan shall incorporate the results of a vulnerability assessment; shall include actions and procedures, and identify equipment, that can obviate or lessen the impact of such a disaster; and shall include plans and procedures that can be implemented, and identify equipment that can be utilized, in the event of such a disaster.

(d) Details about how the water system meets the standby power requirements under subsection 62-555.320(14), F.A.C., and, if applicable, recommendations regarding the amount of fuel to maintain on site, and the amount of fuel to hold in reserve under contracts with fuel suppliers, for operation of auxiliary power sources.

(e) If applicable, recommendations regarding the amount of drinking water treatment chemicals, including chemicals used for regeneration of ion-exchange resins or for onsite generation of disinfectants, to maintain in inventory at treatment plants.

Specific Authority 403.861(9) FS. Law Implemented 403.852(12), 403.853(6), 403.861(17) FS. History-New 11-19-87, Formerly 17-22.650, Amended 1-18-89, 1-1-93, Formerly 17-555.350, Amended 8-28-03.

Time Extension for Submitting/Completing ERP – December 31, 2005

From: Hoofnagle, Van
Sent: Thursday, October 21, 2004 11:25 AM
Subject: Time Extension for Submitting/Completing ERP
Importance: High

I am sending this e-mail because of possible confusion in some FDEP District Offices or ACHDs regarding the deadline for compliance with the emergency preparedness/response plan requirements in FAC subsection 62-555.350(15).

As John Sowerby and other staff mentioned during Focus On Change presentations early this year on FAC Rule 62-555.350 and during training this summer on the recent amendments to FAC Chapter 62-555, the FDEP intends to amend FAC subsection 62-555.350(15) to give all affected community water systems (i.e., all community water systems serving 350 or more persons or 150 or more service connections) **until the end of 2005** instead of the end of this year to complete a comprehensive emergency preparedness / response plan as required by FAC subsection 62-555.350(15). At this point, it will likely be after the end of this year before we officially make this change to FAC subsection 62-555.350(15). In the meantime, please do not take any enforcement action against

community water systems who fail to meet the 12/31/04 deadline in FAC subsection 62-555.350(15). Thanks.

Van Hoofnagle
DEP Drinking Water Administrator

Section 1
Communication Charts

The first response step in any emergency is to inform the person at the top of this list, who is responsible for managing the emergency and making key decisions. List the water system chain of command in order of contact.

Water System Chain of Command – Lines of Authority

Order	Name & Title	Responsibilities During an Emergency	Contact Information
1	Dewaine Christmas Manager	Responsible for overall management and decision making. The manager is the lead for managing the emergency and providing information to regulatory agencies. All communications to external parties are to be approved by the manager.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl@AOL.Com
2	James Hodges Jr. Field Supervisor	Responsible for decision making in the field. In charge of overall maintenance, and repairs to all components of water system.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl @AOL.Com
3	Kelvin Edun Water Treatment Plant Operator	Responsible for running water treatment plant, performing inspections, maintenance, sampling and relaying all critical information to Field Supervisor.	Phone: Cell: 352-875-5141 Email:
4	Pamela Christmas Office	Responsible for assisting the manager in administrative duties and emergencies.	Phone: 352-347-8228 Cell: 352-245-4743 Email:
5			Phone: Cell: Email:
6			Phone: Cell: Email:
7			Phone: Cell: Email:

Emergency Notification

Notification call-up lists - Use these lists to notify important parties of an emergency.

Emergency Notification List

Organization or Department	Name & Position	Telephone	Cell Phone	e-mail
State Warning Point	**Duty Officer**	**800-320-0519**	800-320-0519	N/A
Local Law Enforcement	EOC Commander	352-622-3205		Pstefanski@sheriff.marioncountyfl.org
Fire Department		911		
Emergency Medical Services		911		
Water Operator (if contractor)	Kelvin Edun Operator	352-875-5141		
County Health Department	Tom Moore Director of Environmental Health	352-622-7744	352-266-7486	
DEP District Office	Manny Cardona	407-897-4134	Fax 407-893-4418	
County Emergency Management Dept.	Chip Wildy	352-622-3205		
Local Leader (City Mgr., Mayor, Chair. Co. Comm., etc.)				
Local Hazmat Team (if any)		911		
Hazmat Hotline		911		
National Spill Response Center.	Duty Officer	800-424-8802	800-424-8802	N/A
Interconnected Water System(s)				
Neighboring Water System (not connected)				
FRWA Water Circuit Rider	Tom Gustafson	850-668-2746	352-267-1302	

Priority Customers

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Hospital Or Clinic(s)				
Nursing Home(s)				
Public Schools				
Private Schools				
Wastewater Treatment Plant				
Food Processing Or Other Industry				

Service / Repair Notifications

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Electric Utility Co.	City of Ocala	352-651-6666		
Electrician	Melville Electric	352-245-0600		
Gas / Propane Supplier	Belleview Gas	352-245-6055		
Water Testing Lab.	Aqua Pure Lisa Saupp	352-625-2822		
Sewer Utility Co.				
Telephone Co.	Sprint	800-788-3600	611	
Plumber	ACP	352-427-7036		
Pump Supplier	Coast Pump	352-620-0616	352-266-4277	Coastpumpocal@hotmail.com
"Dig Safe" or "One Call"	Sunshine One Call	800-432-4770		
Rental Equip. Supplier	B&M Rental	352-245-3133	352-245-9800	

Service / Repair Notifications				
Organization Or Department	**Name & Position**	**Telephone**	**Cell Phone**	**email**
Chlorine Supplier	Custom Controls	352-622-9244	352-304-0572	
Other Chemical Suppliers				
Radio/SCADA Repair Co.				
Bottled Water Service				
Bulk Water Supplier				
Well Drilling Co.	Earls Well Drilling David Moffitt	352-245-2324	352-817-0502	
Pipe Supplier	National Water Works Roy Sands	352-351-8144	352-266-4705	

Designated Public Spokesperson and Alternates

Designate a spokesperson (alternates) for delivering messages to the news media & public

Public Spokesperson	Name & Position	Telephone	Cell Phone
Spokesperson	Dewaine Christmas Manager	352-347-8228	352-239-1198
Alternate 1	James Hodges Jr. Supervisor	352-347-8228	352-239-1197
Alternate 2			

Key Messages

Develop possible messages in advance, and update them as the emergency develops
▪ We are aware of the emergency and are working diligently to restore your water service.
▪ If you fall under a boil water notice you must bring water to a rolling boil for a period of at least one minute. You only have to boil water for human cunsumption.

▪

Health Advisories – Boil Water Notices

Use the assistance of your County Health Department and/or District FDEP office, and FDEP's Mandatory Health Effects Language, located on FDEP's website at:

http://www.doh.state.fl.us/environment/water/manual/boil.htm

http://www.DEP.state.fl.us/water/drinkingwater/rules.htm,

and click on "Mandatory Health Effects Language"., PLUS EPA's templates at:

http://epa.gov/safewater/pn.html

Click on "Microsoft Word and Word Perfect files of PN templates" (PN means Public Notifications), then determine which "Tier" of notifications is needed and click on the desired software to receive them in.

Section 2
Written Agreements With Other Agencies, Utilities, or Response Organizations

INSERT BELOW information regarding any written agreements with other agencies, utilities, or response organizations, such as emergency interconnects, mutual aid or FlaWARN.

Emergency Interconnect(s)

Information on the location of interconnection(s) (if any), type and size of interconnecting pipe, pumps and accessory equipment, meters at interconnection(s), normal pressures at both ends of interconnection, volume of water from interconnection(s), type of agreement and approvals needed for use, procedures necessary to use interconnection, etc.

Location (Street)	
Location (GPS)	
Description	

Memoranda of Understanding

Organization	
Summary of Understanding	

Mutual Aid Agreements

Organization	Marion Utilities, 352-622-1171
Summary of Understanding	Will render mutual aide – ie: pumps, generators, and other materials necessary to restore water service.

FlaWARN

Organization	
Summary of Understanding	

Section 3
Disaster-Specific Preparedness/Response Plan

Your disaster-specific preparedness/response plan must include a Vulnerability Assessment and preparedness / response plans for: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release.

In any event there are a series of general steps to take:

1. Confirm and analyze the type and severity of the emergency.
2. Take immediate actions to save lives.
3. Take action to reduce injuries and system damage.
4. Make repairs based on priority demand.
5. Return the system to normal operation.

Vulnerability Assessment

It is essential that water systems identify and assess the vulnerability of each system component for both natural and human-caused emergencies, before preparing their disaster-specific preparedness/response plans. Prepare your Vulnerability Assessment by completing the table below:

Facility Vulnerability Assessment

System component	Description and condition	Vulnerability	Security improvements (indicate existing or proposed)
Raw Water Sources	(1) 4" groundwater wells located several hundred feet from homes. Wells are in good condition. We have wellhead protection in place.	The well is most vulnerable to above ground activities because it is only 140 FT deep.	1.Purchase land surrounding well. 2. Secure well house to foundation and install lighting around well house.
Pump-house and pumping facilities	The pump-house and pumping facility are in good condition.	Pump location is fully fenced with a locked gate.	Install tamper proof padlocks.
Treatment Facilities	There is a hypo-chlorination system inside of pump house. System is in good condition.	Chlorination systems are not subject to power outages.	There is a backup generator on site in compliance with CH. 62-555.320(14)FAC
Storage Facilities	Hydro pneumatic tank is fenced in good condition.	Tank is not in a lighted area.	Install lighting in area of tank.
Computer and telemetry systems	Computers are in utilities main office and are in good condition.	Computers should be better protected against cyber attack or hacking.	Secure computers with firewalls & virus protection.

A. Vandalism or Sabotage Response Procedures

1. Utility staff first aware of incident:
    a) Calls 9-1-1/ Local Law Enforcement.
    b) Calls Manager
2. Manager determines severity of incident.
    a) Field supervisor determines if vandalism or sabotage will effect the water quality.
    b) Manager reports incident to the state warning point.
3. Field supervisor directs repairs as needed.
    a) Complete repairs
    b) Update ERP as needed.

B. Drought Response Procedures

Include water use restrictions per Consumptive Use Permit

1. Manager coordinates with the local Water Management District (WMD) regarding drought conditions.
    a) If drought conditions exist, a water conservation plan will be initiated.
    b) Literature will be distributed to customers regarding the drought.
    c) Conservation material will be distributed to customers on conservation measures.
    d) Customers not abiding by restrictions will be reported to WMD.
    e) Manager updates ERP as needed.

C. Hurricane Preparedness & Response Procedures

Pre- Hurricane **(36 to 48 hrs prior to arrival)**	1. Manager coordinates with local EOC. 2. Field supervisor checks operation of standby power. 3. Field supervisor secures fuel and treatment chemicals for a 10 day period. 4. Manager replenishes inventory of spare parts.
Hurricane Watch **(24 to 36 hrs prior to arrival)**	1. Manager cancels all time off for employees. 2. Manager issues work assignments in advance in case of communication loss. 3. Employees all top off fuel in vehicles & standby generators. 4. Manager authorizes employees to secure their personal property and arrange for the safety of family members.
Hurricane Warning (24hrs or less prior to arrival)	1. Employees report to designated areas and wait for instructions. 2. Employees load truck with supplies. 3. Employees follow evacuation protocol.
Recovery Procedures	1. Manager coordinates with local EOC. 2. Manager issues boil water notices if needed. 3. Field supervisor coordinates repairs. 4. Manager makes contact with the appropriate DEP office. 5. After repairs are completed samples are taken. 6. When samples come back clear – boil water notice is lifted. 7. Manager files all malfunction reports with the DEP. 8. Field supervisor inspects all systems to make sure everything is running smooth.

D. Structure Fire Response Procedures

1. Utility staff discovering fire:
    a) Evacuate structure on fire.
    b) Call 9-1-1
2. Manager determines severity of incident.
    a) Manager contact State Warning Point.
    b) Field supervisor coordinates repairs when fire is extinguished.
3. Field supervisor reports to manager when repairs are complete.
    a) Manager reports completion of all repairs to any Gov. agency.
    b) Manager updates ERP as needed.

E. Flood Preparedness & Response Procedures

(Is any critical part of your system in a flood prone area?)

None of our systems are in a flood prone area.

F. Forest or Brush Fire Response Procedures

(Is any critical part of your system subject to forest or brush fires?)

1. Utility staff discovering fire.
    a) Orders evacuation of any threatened buildings.
    b) Calls 9-1-1 to report fire.
2. Manager determines the severity of fire.
    a) Manager contacts the State Warning Point.
    b) Field supervisor inspects for any damage and coordinates repairs after fire is extinguished.
3. Field supervisor reports to manager that all repairs are complete.
    a) Manager updates the ERP as needed.
    b)

G. Hazardous Material Release Response Procedures

Do you have any hazardous material (chlorine gas) at your water system?

We have no Hazardous materials at any of our water systems.

H. Other Disaster Response Procedures

Are there other disasters that you want to prepare for, such as a Contamination event, SCADA Attack, or Structural Damage from an Intentional Act?

Contamination

1.
   a)
   b)
2.
   a)
   b)

SCADA Attack

1.
   a)
   b)
2.
   a)
   b)

Structural Damage from an Intentional Act

1.
   a)
   b)
2.
   a)
   b)

Section 4
Standby Power Requirements

Include details about how the water system meets the standby power requirements as described in Ch. 62-555.320(14), and 62-555.350(15)(d) FAC for water source, treatment, and pumping facilities necessary to deliver drinking water at a rate at least equal to the Average Daily Water Demand.

Standby Power for Wells or Surface Water Intakes

Standby Power (or by alternate means) to OPERATE WELLS at Average Daily Demand

Average Daily Demand (ADD) in gpd or gpm	14116 gpd
Wells Needed to Supply Average Daily Demand	1
Standby Generator (kW) Needed for ADD &	15 KW
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	We will have reserve fuel in the case of an emergency.

Standby Power for Treatment Facilities

Standby Power (or by alternate means) to TREAT WATER at Average Daily Demand

Treatment Units Needed to Supply ADD	
Standby Generator (kW) Needed to Treat ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Standby Power for Pumps

Standby Power (or by alternate means) to PUMP WATER at Average Daily Demand

Pumps Needed to Supply ADD	
Standby Generator (kW) Needed to Pump ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Section 5
Drinking Water Treatment Chemicals & Disinfectants

Include recommendations regarding the amount of drinking water treatment chemicals, to maintain in inventory at treatment plants. Do not just list chemical storage capacity, but instead recommend the minimum amount of chemicals to maintain in inventory, which depends upon the location and reliability of chemical suppliers, the status of impending disasters, etc.

Disinfection Treatment Information

Disinfection Chemical(s)	Chemical / Location No. 1	Chemical / Location No. 2
Type of Chemical	Chlorine	
Type of Chemical Feed	Hypo-Chlorinator	
Chemical Storage Location	On site in the pump house.	
Recommended Minimum Amount to be Maintained in Storage (gal)	55 gallons	

Other Chemical Information

Chemical(s) Used	Chemical #1	Chemical #2	Chemical #3	Chemical #4
Type of Chemical				
Type of Chemical Feed				
System Location				
Chemical Storage Location				
Recommended Minimum Amount to be Maintained in Storage (gal)				

Appendix A
Basic System information

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Keep this basic information readily available for when you need it for emergency responders, repair people, the news media and potentially, an emergency operator.

Basic System Information

GPS coordinates will help emergency crews find your system following a major catastrophe.

System identification number (PWS ID)	**3424657**	
System name and address	**Country Walk**	
GPS Coordinates	Latitude:	Longitude:
Basic description and location of system facilities	**6036 SE 122nd Ln**	
Population served and service connections.	Population =	Connections = 68
System Owner	**Sunshine Utilities of Central Florida, Inc.**	
Management Authority	**Owner and Manager**	
Name, title, and phone numbers of person responsible for maintaining and implementing the ERP.	**Dewaine Christmas** **Manager**	**352-347-8228 phone** **352-239-1198 cell**

System Demand

Demand based on Monthly Operational Records and system capacity based on Sanitary Survey.

Average Daily Demand (gpd)	14116 GPD
Maximum Daily Demand (gpd)	16300 GPD
System Capacity (gpd)	132480 GPD
Peak Hour Demand (gpm)	N/A

Location of Pertinent Information

Item	Location
Distribution System Map	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
O&M Manual(s)	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
Start-Up / Shut-Down Procedures	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.

Well Information

GPS coordinates will help emergency crews find wells following a major catastrophe.

Well Information	Well No. 1	Well No. 2	Well No. 3	Well No. 4
GPS well tag #				
Location (street)	SE 122nd Ln			
GPS Coordinates	Lat: Long:		Lat: Long:	Lat: Long:
Well Depth (ft)	140 FT			
Well Yield (gpd)	132480 GPD			
Pump Type	Submersible			
Manufacturer	Sta-Rite			
Capacity (gpm)	230 GPM			
Motor Manufacturer	Franklin			
Horsepower	5 HP			
Phase	1			
Volts/Amps	230 volts			

Surface Water Sources

GPS coordinates will help emergency crews find surface water intakes following a major catastrophe.

Surface Water Information	Intake No. 1	Intake No. 2
Location (Street / Description)		
GPS Coordinates	Lat: Long:	Lat: Long:
Critical Water Level		

Finished Water Storage

GPS coordinates will help emergency crews find tanks following a major catastrophe.

Name of Storage Unit	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Location (Street)				
Location (GPS)	Lat: Long:	Lat: Long:	Lat: Long:	Lat: Long:
Type (ground, elevated, etc.)				
Capacity (gal)				
Empty Elevation				
Overflow Elevation				

High Service Pumps

HSP	HSP No. 1	HSP No. 2	HSP No. 3	HSP No. 4
Location (street)				
Pump Type				
Manufacturer				
Capacity (gpm)				
Motor Manufacturer				
Horsepower				
Phase				
Volts/Amps				

Other Applicable Information

Appendix B
Training and Rehearsals

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Event	Description	People & Organizations Involved	Date

Appendix C
Plan Approval

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Plan Approval

This plan is officially in effect when reviewed, approved, and signed by the following people:

Name / Title	Signature	Date
Hodges Family Trust		

APPENDIX D: CONSUMER CONFIDENCE REPORT

Certification of Delivery of Consumer Confidence Report

GENERAL INSTRUCTIONS: This form shall be completed by all community water systems (CWSs) that have prepared a Consumer Confidence Report (CCR) in accordance with Rule 62-550.824, F.A.C., Consumer Confidence Reports. At the end of this form is a certification in which a system's authorized representative shall certify that the reported information is accurate and is in conformance with Rule 62-550.824, F.A.C. **COMPLETE THIS FORM AND SUBMIT IT BY AUGUST 10,** together with a copy of your system's CCR, sample email or water bill (with URL notification of CCR, if applicable), and any newspaper notice(s) and posted notice(s) of your CCR, to the appropriate DEP district office or Approved County Health Department (ACHD). Systems serving 100,000 or more persons posting their CCRs on publicly accessible Internet sites shall provide the information on the appropriate Internet link(s). All information provided on this form must be typed or printed in ink.

I. General Water System Information. (To be completed by all community water systems.)

System name: Country Walk Contact person: Dewaine Christmas

PWS Identification number (PWS ID): 3424657 Contact phone number: (352)347-8228

Mailing address: 10220 East Hwy 25 City: Belleview

State: Fl Zip: 34420-5531 Population served (not the number of "service connections"): _____

II. CCR Distribution Method. (To be completed by all community water systems. Choose A or B as appropriate.)

☐ A. We mailed, emailed, or otherwise directly delivered a copy of our CCR to each customer on _____ (enter date(s) of mailing or delivery) using the method(s) checked below:

- ☐ a. **Mailed** CCR
- ☐ b. **Mailed** notice (e.g. water bill) with **direct URL** to the CCR
- ☐ c. **Emailed** CCR as an **embedded** image or as an **attachment**
- ☐ d. **Emailed** notice with a **direct URL** to the CCR
- ☐ e. **Otherwise directly delivered** CCR to every customer. Explain: _____

☑ B. We were eligible to use a mailing waiver and used a mailing waiver. (Systems are eligible to use a mailing waiver only if they serve fewer than 10,000 persons, have not had any MCL or monitoring and reporting (M/R) violations, nor have been issued any formal Notices of Violations (NOVs), Consent Orders, Administrative Orders, or court-ordered civil actions during the calendar year before the year the CCR is due to the customers).

Answer a, b, **and** c below.)

- ☐ a. Date of newspaper: _____
- ☐ b. Name of newspaper/newsletter that published our CCR: _____
- ☑ c. A copy of our notice to customers, informing them that our CCR will not be mailed to them, is attached.

This notice was: ☑ mailed with bill; ☐ published in newspaper/newsletter; or ☐ other (describe)

_____

III. Posting of CCR on the Internet. (To be completed by all CWSs serving 100,000 or more persons.)

We posted our CCR on this publicly accessible internet site: _____

IV. Report on Your Effort to Distribute Your CCR to Your Water Consumers.

(To be completed by all CWSs. Check all items that apply - at least one item must be checked.)

In addition to the methods selected in Part II,

- ■ A. We posted our CCR on this publicly accessible internet site: www.sunshineutilities.org
- ☐ B. We published our CCR in the local newspaper(s). The name(s) and date(s) of the newspaper(s) are:

_____

RECEIVED
JUL 10 2020
DEP Central District

☐ C. We advertised the availability of our CCR as a press release, radio announcement, or TV announcement. The type(s) and date(s) of the advertisement(s) are: _____

☐ D. We delivered multiple copies of our CCR to single bill addresses serving several persons.

☐ E. We delivered multiple copies of our CCR to the following community organizations:

_____

☐ F. Our CCR was posted in the following public locations: _____

_____

☒ G. Our CCR was distributed by other methods (e.g., additional copies placed in entrance hall to facility). Describe.
Additional copies available at Sunshine Utilities Office

_____

V. Use of Non-English Language in CCR. (To be completed by all community water systems.)

☐ Information in a non-English language was included in our CCR because 20% or more of our customers do not speak English but speak _____. The method we used to determine the proportion of non-English speaking customers is _____

☒ This requirement does not apply to our system, because we have no non-English speaking group among our customers equal to or exceeding 20% of our total number of customers.

VI. Other Delivery Requirements. (To be completed by all community water systems.)

(A) Was a copy of your CCR sent to your county health department, as required by rule? ☒ Yes ☐ No

(B) Is your system regulated by the Public Service Commission (PSC)? ☐ Yes ☐ No

If Yes, was a copy of your CCR sent to the PSC, as required by rule? ☒ Yes ☐ No

(C) If your system sells water to other systems, have you provided them with either a copy of your CCR or the required consumer confidence information? ☒ Yes ☐ No ☒ Not Applicable

VII. Certification of Delivery of CCR and Compliance with Regulations. (To be completed by all CWSs.)

This statement certifies that the above named community public water system has distributed its CCR for the time period starting ***January 1, 2019, and ending December 31, 2019,*** to its customers on 6/15/20 (mm/dd/yy) and provided the appropriate notices of availability according to the requirements listed in this form, which are also found in Rule 62-550.824, F.A.C. This statement also certifies that the reported information is correct and consistent with the compliance monitoring data for the same period previously submitted to the Department, and that the report has been delivered to the agencies identified in Rules 62-550.824(3)(e)3., and 4., F.A.C.

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____

NAME (please print): Dewaine Christmas

TITLE: Manager DATE: 6/26/20

☒ **A copy of our CCR is attached, and**

☐ **If using electronic delivery, a copy of our sample email or notice (e.g. water bill), with URL leading directly to the CCR and not a general information website, is attached. For example, if you are using the FRWA website to post your CCR, your URL would be:**

www.frwa.net/2012-Your PWSID Number.pdf (www.frwa.net/2012-0000000.pdf).

SUNSHINE UTILITIES
10230 East Highway 25
Belleview, Florida 34420

Drinking Water Quality Report

Annual Drinking Water Quality Report for 2019

Country Walk

Florida Department of Environmental Protection Public Water System ID # 3424657

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

The source of our water is groundwater from one well located in the community. The well draws from the Floridan aquifer, one of the world's most protected sources. Our water is chlorinated for disinfection purposes. In 2019 the Florida Department of Environmental Protection conducted an assessment which identifies potential sources of contamination in the vicinity of our well. The SWAPP (Source Water Assessment and Protection Program) determined our public water system to have no potential sources of contamination. You may obtain more information at the web site *www.dep.state.fl.us/swapp.*

If you have any questions about this report or concerning your water utility please contact **Dewaine Christmas, at Sunshine Utilities, (352) 347-8228**, during normal business hours. We encourage our valued customers to be informed about their water utility.

Sunshine Utilities routinely monitors for constituents in your drinking water according to Federal and State laws, rules and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2019, Data obtained before January 1, 2019, and presented in this report are from the most recent testing performed in accordance with the laws, rules and regulations.

WATER QUALITY TEST RESULTS FOR COUNTRY WALK

Inorganic Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Arsenic	(ppb)	MAR '18	No	1.1	N/A	N/A	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	(ppm)	MAR '18	No	0.0052	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chromium	(ppb)	MAR '18	No	1.7	N/A	100	100	Discharge from steel and pulp mills; erosion of natural deposits
Fluoride	(ppm)	MAR '18	No	0.13	N/A	4	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum levels between 0.7 and 1.2 ppm
Lead (point of entry)	(ppb)	MAR '18	No	0.3	N/A	N/A	15	Residue from man-made pollution such as auto emissions and paint; lead pipe, casing, and solder
Nitrate (as Nitrogen)	(ppm)	DEC'19	No	3.78	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium	(ppb)	MAR '18	No	2.6	N/A	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium	(ppm)	MAR '18	No	6.6	N/A	N/A	160	Salt water intrusion; leaching from soil

Stage 2 Disinfectants and Disinfection By-Products

Disinfectant or Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL or MRDL Violation Yes / No	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine	(ppm)	2019	No	1.2	0.8 - 1.8	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Haloacetic Acids (five) (HAA_5)	(ppb)	SEP '18	No	1.55	N/A	N/A	MCL = 60	By-product of drinking water disinfection

Lead and Copper (Tap Water)

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	AL Violation Yes / No	90th Percentile Result	No. of Sampling Sites Exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper	(ppm)	JUL '18	No	0.305	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

In the table you may find unfamiliar terms and abbreviations. To help you better understand these terms we have provided the following definitions (please note not all definitions may pertain to your report):

- Action Level (AL) – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial growth.
- Maximum Residual Disinfectant Level Goal (MRDLG) – The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.
- ND – This abbreviation means not detected and indicates that the substance was not found by laboratory analysis.
- Parts per million (ppm) or milligrams per Liter (mg/L) - one part of analyte (by weight) to 1 million parts of water sample (by weight).
- Parts per billion (ppb) or micrograms per Liter (µg/L) - one part of analyte (by weight) to 1 billion parts of water sample (by weight).
- Picocurie per liter (pCi/L) - measure of the radioactivity in water.

What does this mean?

As you can see our system had no violations. We're very proud that your drinking water meets all Federal and State requirements.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Sunshine Utilities is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals, and in some cases radioactive material, and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

A.) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

B.) Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

C.) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

D.) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

E.) Radioactive contaminants, which may be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The FDA (Food & Drug Administration) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care providers about their drinking water. EPA/CDC (Center for Disease Control) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are also available from the Safe Drinking Water Hotline (800-426-4791).

We are committed to ensuring the quality of your water. If you have any questions or concerns about the information provided, please feel free to call the numbers listed.

Sunshine Utilities

10230 East Highway 25, Belleview, FL 34420
Office (352)347-8228 – Fax (352)347-6915

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality of water and services we deliver to you everyday. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

Please follow the link to view your 2019 Annual Water Quality Report.

https://www.sunshineutilities.org/ccr19/2019CountryWalk.pdf

APPENDIX E: SANITARY SURVEY REPORT

FLORIDA DEPARTMENT OF
Environmental Protection

CENTRAL DISTRICT OFFICE
3319 MAGUIRE BLVD., SUITE 232
ORLANDO, FLORIDA 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

April 17, 2020

Dewaine Christmas, Owner/Office manager
Sunshine Utilities of Central FL, Inc.
SE 60th Terrace & 60th Ave.
Belleview, FL 34420
sunshineutl@aol.com

Re: Country Walk
PW Facility ID #3424657
Marion County

Dear Mr. Christmas:

Department personnel conducted an inspection of the above-referenced facility on March 30, 2020. Based on the information provided during the inspection, the facility was determined to be in compliance with the Department's rules and regulations. A copy of the inspection report is attached for your records, and any non-compliance items which may have been identified at the time of the inspection have been corrected.

The Department appreciates your efforts to maintain this facility in compliance with state and federal rules. Should you have any questions or comments, please contact Amada Fernandez at 407-897-4159 or via e-mail at Amada.M.Fernandez@FloridaDEP.gov.

Sincerely,

Jill Farris, Manager
Central District
Florida Department of Environmental Protection

Enclosure: Inspection Report

cc: Amada Fernandez and Jill Farris, FDEP
Universal Waters, universalwaters94@yahoo.com

State of Florida
Department of Environmental Protection
Central District

SANITARY SURVEY REPORT

Plant Name **COUNTRY WALK** County Marion PWS ID # **3424657**
Plant Location SE 60th Terrace and 60th Avenue, Belleview, FL 34420 Phone 352-347-8228
Owner Name Sunshine Utilities of Central FL, Inc.; Attn: Dewaine Christmas Phone 352-347-8228
Owner Address 10230 East Highway 25, Belleview, FL 34420-5531
Contact Person Dewaine Christmas Title Owner/Office manager Phone 352-347-8228
This Survey Date 3/30/20 Last Survey Date 3/16/17 Last Compliance Inspection Date 10/15/01

PWS TYPE: Community

PLANT CATEGORY & CLASS: 5D

MAX-DAY DESIGN CAPACITY: 132,480 gpd

PWS STATUS: Approved

TREATMENT PROCESSES IN USE
Hypochlorination

SERVICE AREA CHARACTERISTICS
Subdivision
Food Service: ☐ Yes ☐ No ☒ N/A

Number of Service Connections 65
Population Served 189 Basis Operator

OPERATION & MAINTENANCE LOG: Yes
Location Water treatment plant
Comments

CERTIFIED OPERATOR: Yes
Operator(s) & Certification Class-Number:
Kelvin Edun C-7459

Hrs/day: *Required* Visit* *Actual* Visit*
Days/wk: *Required* 3 *Actual* 3
Non-consecutive Days? ☒ Yes ☐ No ☐ N/A
Comments *Visit must total 0.3 hour/week

MONTHLY OPERATION REPORTS (MORs)
MORs submitted regularly? ☒ Yes ☐ No ☐ N/A
Data missing from MORs? ☒ No ☐ Yes ☐ N/A
Average Day (from MORs) 16,457 gpd
Maximum Day (from MORs) 28,800 gpd 10/2019
Comments

Flow Measuring Device Flow Meter
Meter Size & Type 2" Master
Date Last Calibrated 12/4/18

RAW WATER SOURCE
☒ GROUND; Number of Wells 1
☐ PURCHASED from PWS ID #
☐ Emergency Water Source
Emergency Water Capacity

STANDBY POWER SOURCE: Not Required
Source
Capacity of Standby (kW)
Switchover: ☐ Automatic ☐ Manual
Hrs Operated Under Load
What equipment does it operate?
☐ Well Pumps
☐ High Service Pumps
☐ Treatment Equipment
Satisfy avg. daily demand? ☐ Yes ☐ No ☐ Unknown
Audio-visual alarm? ☐ Yes ☐ No
Comments

PLANS AND MAPS

Coliform Sampling Plan	☒ Yes	☐ No	☐ N/A
D/DBP Monitoring Plan	☒ Yes	☐ No	☐ N/A
Lead and Copper Plan	☒ Yes	☐ No	☐ N/A
Distribution System Map	☒ Yes	☐ No	☒ N/A
Emergency Response Plan	☒ Yes	☐ No	☒ N/A

Comments

PREVENTIVE MAINTENANCE/O&M

Operation & Maintenance Manual	☒ Yes	☐ No	
Preventive Maintenance Program	☒ Yes	☐ No	☐ N/A
Flushing Program	☒ Yes	☐ No	☒ N/A
Records	☒ Yes	☐ No	☒ N/A
Isolation Valve Exercise	☒ Yes	☐ No	☒ N/A
Records	☒ Yes	☐ No	☒ N/A

Comments

CROSS CONNECTION CONTROL
BFPAs None # Tested N/A
WWTP RPZ N/A Date Tested N/A
Written Plan Yes Date Unknown
Comments

PWS ID # 3424657
Date 3/30/20

GROUND WATER SOURCE

Well Number (Florida Unique Well ID #)		1 (AAE0261)			
Year Drilled		1985			
Depth Drilled		140’			
Drilling Method		Combination			
Type of Grout		Neat cement			
Static Water Level		60’			
Pumping Water Level		Unknown			
Design Well Yield		Unknown			
Test Yield		Unknown			
Actual Yield (if different than rated capacity)		Unknown			
Strainer		Unknown			
Length (outside casing)		105’			
Diameter (outside casing)		4’’			
Material (outside casing)		Black steel			
Well Contamination History		None			
Is inundation of well possible?		No			
6’ X 6’ X 4” Concrete Pad		Yes			
SET BACKS	Septic Tank	N/A			
	Reuse Water	>200’			
	WW Plumbing	>200’			
	Other Sanitary Hazard	None observed			
PUMP	Type	Submersible			
	Manufacturer Name	Unknown			
	Model Number	Unknown			
	Rated Capacity (gpm)	150			
	Motor Horsepower	10			
Well casing 12” above grade?		Yes			
Well Casing Sanitary Seal		OK			
Raw Water Sampling Tap		Yes			
Above Ground Check Valve		Yes			
Security		Yes			
Well Vent Protection		N/A			

COMMENTS _____

PWS ID # 3424657
Date 3/30/20

CHLORINATION (Disinfection)
Type: ☐ Gas ☒ Hypo
Make Chem-Tech Capacity 15 gpd
Chlorine Feed Rate 100% stroke
Avg. Amount of Cl_2 gas used N/A
Chlorine Residuals: Plant 1.67 Remote 1.43
Remote tap location 12473 SE 62nd Ave.
DPD Test Kit: ☐ On-site ☒ With operator
☐ None ☐ Not Used Daily
Injection Points Prior to hydropneumatic tank
Booster Pump Info N/A
Comments

Chlorine Gas Use Requirements	YES	NO	Comments
Dual System	☐	☐	
Auto-switchover	☐	☐	
Alarms:			
Loss of Cl_2 capability	☐	☐	
Loss of Cl_2 residual	☐	☐	
Cl_2 leak detection	☐	☐	
Scale	☐	☐	
Chained Cylinders	☐	☐	
Reserve Supply	☐	☐	
Adequate Air-pak	☐	☐	
Sign of Leaks	☐	☐	
Fresh Ammonia	☐	☐	
Ventilation	☐	☐	
Room Lighting	☐	☐	
Warning Signs	☐	☐	
Repair Kits	☐	☐	
Fitted Wrench	☐	☐	
Housing/Protection	☐	☐	

AERATION (Gases, Fe, & Mn Removal)
Type Capacity
Aerator Condition
Visible Algae Growth
Protective Screen Condition
Frequency of Cleaning
Date Last Inspected/Cleaned
Comments

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

Tank Type/Number	H	
Capacity (gal)	2,000	
Material	Steel	
Gravity Drain	Yes	
By-Pass Piping	Yes	
Protected Openings	Yes	
Sight Glass or Level Indicator	Yes	
PRV/ARV	PRV	
Pressure Gauge	Yes	
On/Off Pressure	40/60	
Access Secured	Yes	
Access Manhole	Yes	
Tank Sample Tap Location	On tank	
Date of Inspection	1/19	
Date of Cleaning	1/19	

Comments

HIGH SERVICE PUMPS

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

Comments

DEFICIENCIES:

No deficiencies were noted at the time of the inspection.

MONITORING REMINDER:

- Nitrate and nitrite samples are required to be collected from the point of entry (POE) to the distribution system annually. The 2020 results have not been received. Early sampling is recommended.
- The consumer confidence report (CCR) must be delivered to consumers and the Department no later than July 1, 2020, and certification of delivery of the CCR must be submitted to the Department no later than August 10, 2020.
- Monitoring schedules are available on the Central District's Drinking Water site:

https://floridadep.gov/central/central/content/resources-drinking-water-facilities-and-operators-central-district

COMMENTS:

- Contact FRWA (Florida Rural Water Association) at 850-668-2746, or frwa@frwa.net, for free technical assistance with your system. FRWA has extended benefits offered to members.
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.

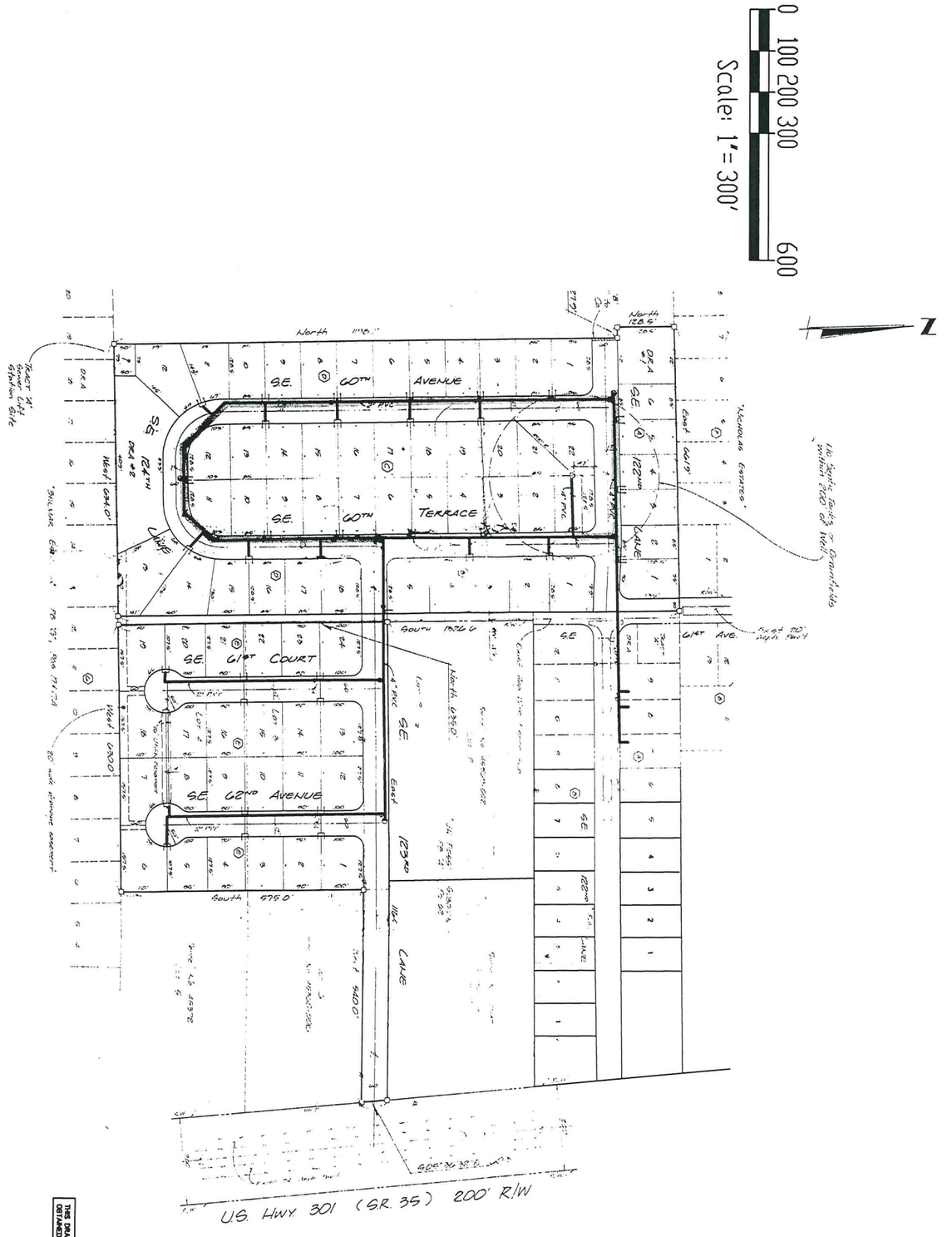
  Checking the calibration of finished-drinking-water meters at treatment plants shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water. [Rule 62-555.350(2), F.A.C.]
- Suppliers of water shall submit written notification to the Department before beginning work or alterations to the public water system. Each notification shall be submitted to the appropriate Department of Environmental Protection District Office or Approved County Health Department and shall include the following: a description of the scope, purpose, and location of the work or alterations; and assurance that the work or alterations will comply with applicable requirements listed in Rule 62-555.330, F.A.C. Suppliers of water may begin such work or alterations 14 days after providing notification to the Department unless they are advised by the Department that the notification is incomplete or that a construction permit is required.
- Suppliers of water shall telephone the SWO at 1-800-320-0519 immediately (i.e., within two hours) after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving a public water system. [Rule 62-555.350(10)(a), F.A.C.]
- Suppliers of water shall telephone, and speak directly to a person at, the appropriate DEP District Office as soon as possible, but never later than noon of the next business day, in the event of any of the following emergency or abnormal operating conditions:
  - The occurrence of any abnormal color, odor, or taste in a public water system's raw or finished water;
  - The failure of a public water system to comply with applicable disinfection requirements; or
  - The breakdown of any water treatment or pumping facilities, or the break of any water main, in a public water system if the breakdown or break is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(b), F.A.C.]
- Suppliers of water shall notify affected water customers in writing or via telephone, newspaper, radio, or television; and telephone, and speak directly to a person at, the appropriate DEP District Office by no later than the previous business day before taking PWS components out of operation for planned maintenance or repair work if the work is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the

Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(d), F.A.C.]

- Suppliers of water shall issue precautionary “boil water” notices as required or recommended in the Department of Health’s “Guidelines for the Issuance of Precautionary Boil Water Notices” as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(11), F.A.C.]

amada fernandez	
Inspector Signature	*Reviewer Signature*
Amada Fernandez	Jill Farris
Printed Name	*Printed Name*
Environmental Specialist II	Environmental Manager
Title	*Title*
4/13/20	4/16/20
Date	*Date*

APPENDIX F: DISTRIBUTION MAP



THIS DRAWING IS A COPY OF AN ORIGINAL OBTAINED FROM SUNSHINE UTILITIES, INC.

DRN	CHK	DATE	DESCRIPTION
PMM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 936-02

1

Sheet 1 Of 1

COUNTRY WALK

SUNSHINE UTILITIES INC.
OCALA, FLORIDA

H.W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17th ST, SUITE 502
OCALA, FLORIDA 34471
FAX (352) 840-9526
(352) 840-9774



woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Eleven Oaks Subdivision

210 South Florida Avenue | Suite 220
Lakeland, Florida 33801
800.426.4262

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

0233748.01
CSWR
July 2021

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Appendix C: Emergency Response Plan
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APPENDIX A: SOURCE WATER ASSESSMENT & PROTECTION PROGRAM RESULTS

» SWAPP Homepage
» Search By County
» Search by PWS Name or Number
» How to Help?

Definitions

» Aquifers
» Public Water Systems
» Assessment
» Potential Contaminants
» Susceptibility
» Prevention

Contact Us

» Email
» Mailing Address
» Source Water Protection Workshop

EPA Source Water Protection website

Source Water Assessment & Protection Program

Results for: 2019

ELEVEN OAKS SUBDIVISION
BETWEEN NE 60TH LN AND 63RD STREET.
OCALA, FL 34471

Public Water System ID: 3424099
County: MARION
DEP Regulatory Office: DEP Central District
3319 Maguire Blvd, Suite 232
Orlando, FL 32803
407-897-4100
Public Water System Type : COMMUNITY
Public Water System Source : GROUND
Primary Use: SUBDIVISION
Population Served: 136
Size of Assessment Area:
GROUND: For this system, a 1000-foot radius circle around each well was used to define the assessment area.

Number of Wells: 1

Well ID	Owner ID	FLUWID	Status	Well Depth(ft)	Aquifer
5815	4"/200'/194'	AAE0276	ACTIVE	200	Floridan Aquifer

Results:

GROUND WATER:
A search of the data sources indicated no potential sources of contamination.

Last updated: February 19, 2020

Accessibility Information

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Exit Disclaimer
Privacy Statement

3900 Commonwealth Boulevard M.S. 49
Tallahassee, Florida 32399
850-245-2118 (phone) /
850-245-2128 (fax)

APPENDIX B: TANK INSPECTION REPORT

INSPECTION AND TESTING of HYDROPNEUMATIC TANK

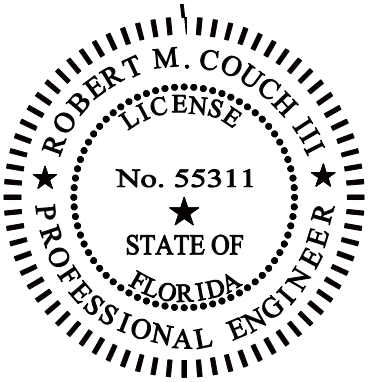
Eleven Oaks Subdivision Tank

Pursuant to Chapter 62-555.350 (1) & (2) F.A.C

Water System:	Eleven Oaks Subdivision
Street Address:	Behind 2749 NE 60th Lane
City, State:	Marion, Florida
Phone:	352-347-8228
Contact:	Dewaine Christmas
E-mail:	sunshineutl@aol.com
PWS ID No.:	3424099
County:	Marion
Classification:	Community
Source:	Ground
Ownership:	Sunshine Utilities of North Central Florida
Date:	December 11, 2018

Inspection and Testing by:

Robert M. Couch III, P.E.
ENVIRO-TECH, Inc.
PO Box 152
Weirsdale, FL 32195
Telephone: 352-694-1799
E-mail: envirotech@ymail.com



C.O.A. No. 8692 Registration No. 55311

Robert M. Couch III, P.E.

Digitally signed by Robert M. Couch III, P.E.
DN: cn=Robert M. Couch III, P.E., o=ENVIRO-TECH, Inc., ou=Reg. No. 55311, email=envirotech@ymail.com, c=US
Date: 2019.01.01 23:17:54 -05'00'

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1.0 EXECUTIVE SUMMARY

ENVIRO-TECH, Inc. was contracted to perform the five year tank condition inspection on the above mentioned hydro-pneumatic tank.

This condition inspection was performed on December 11, 2018 by Robert M. Couch III, P.E. on the above referenced water tank. The tank was drained and, an internal and external inspection was performed to assess the tank condition as required by the Florida Department of Environmental Protection (FDEP) Rule 62-555.

The tank shell and heads appeared to be in overall good structural condition. Ultrasonic Thickness Measurement (UTM) readings indicated that the average thickness of the tank shell at the time of the field inspection was approximately 3.97 millimeters. UTM readings from the tank heads indicated an average thickness of 6.05 millimeters. The exterior coating of the tank appeared to be in overall good condition with no notable surface corrosion. There were coating failures on significant areas of the tank interior and corrosion was noted on the tank ridge and walls.

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 65 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 57 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

2.0 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS CHAPTER 62-555.350 (1) & (2)

2.1 Operation and Maintenance of Public Water Systems

(1) Suppliers of water shall operate and maintain their public water systems so as to comply with applicable standards in Chapter 62-550, F.A.C., and requirements in this chapter.

(2) Suppliers of water shall keep all necessary public water system components in operation and shall maintain such components in good operating condition so the components function as intended. Preventive maintenance on electrical or mechanical equipment – including exercising of auxiliary power sources, checking the calibration of finished-drinking-water meters at treatment plants, testing of air or pressure relief valves for hydropneumatic tanks, and exercising of isolation valves –shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water; however, in no case shall auxiliary power sources be run under load less frequently than monthly. Accumulated sludge and biogrowths shall be cleaned routinely (i.e., at least annually) from all treatment facilities that are in contact with raw, partially treated, or finished drinking water and that are not specifically designed to collect sludge or support a biogrowth; and blistering, chipped, or cracked coatings and linings on treatment or storage facilities in contact with raw, partially treated, or finished drinking water shall be rehabilitated or repaired. **Finished-drinking-water storage tanks, including conventional hydropneumatic tanks with an access manhole but excluding bladder- or diaphragm-type hydropneumatic tanks without an access manhole, shall be checked at least annually to ensure that hatches are closed and screens are in place; shall be cleaned at least once every five years to remove biogrowths, calcium or iron/manganese deposits, and sludge from inside the tanks; and shall be inspected for structural and coating integrity at least once every five years by personnel under the responsible charge of a professional engineer licensed in Florida.** Dead-end water mains conveying finished drinking water shall be flushed quarterly or in accordance with a written flushing program established by the supplier of water; additionally, dead-end or other water mains conveying finished water shall be flushed as necessary whenever legitimate water quality complaints are received.

2.2 Location of Inspection and Testing Report

Pursuant to Chapter 62-555.350 (2) and 62-555.350 (12) FAC, beginning 28 August 2003, all water systems regardless of size must maintain a copy up-to-date Preventive Maintenance Logs of each water system in the water facility office. The Preventive Maintenance Logs must show the date and type of all maintenance performed and comply with Rule 62-555.350 (2) and 62-555.350 (12), which requires the following:

- Preventive Maintenance Logs on Electrical and Mechanical Equipment
- Cleaning and Inspection Logs of Treatment Facilities and Storage Tanks
- Records of Coatings and Linings Rehabilitation or Repair
- Licensed Engineer Inspection Report (once every 5-years) for Finished-Drinking-Water Storage Tanks and Hydropneumatic Tanks
- Written Flushing Program and Logs showing that Dead-End Water Mains are being flushed at least quarterly
- Isolation Valves Exercise Logs

A copy of this report should be kept with these records.

3.0 HYDROPNEUMATIC PRESSURE TANK INSPECTION AND TEST PROCEDURES

This Inspection and Test Procedures is used as a reference in the overall inspection and testing of this Water System. This procedure is to be updated from time to time to reflect physical and procedural changes to the water system.

Inspection and testing of this tank was conducted by Robert M. Couch III, P.E. with the assistance of Jim Hodges Jr. of Sunshine Utilities of North Central Florida, Inc. The following inspection and testing procedures for hydropneumatic pressure tanks were used:

3.1 Pre-Test Procedures

1. If water service is to be interrupted customers must be notified in advance and if appropriate, boil water notices issued.

2. Turn-off all electrical power to well pumps, air motors, chlorination equipment, etc.

3. Open drain valve to empty tank. This is also a good time to check the valves (exercise them) that isolate the tank to see if they are in fact working as they should. This downtime can also be used to replace a valve if needed.

4. Once depressurized, the site glass is inspected for proper operation.

5. Once the tank is drained, the manway (hatch) will need to be removed for inspection of the interior.

3.2 Visual Inspection

6. Perform visual inspection of the tank exterior and accessories for presence of leaks, shell distortion, signs of settling, deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, accessories, etc.

7. Tank layout and physical measurements

8. Color photographs of the tank exterior and all of the essential appurtenances

9. Perform visual inspection of the tank interior for presence of deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, bio-growths, calcium or iron/manganese deposits, sludge, etc.

3.3 Nondestructive Examination

10. The tank interior coating is then examined for dry film thickness (See PosiTest® DFT Coating Thickness Gauge measurement) or equivalent.

11. The tank exterior is then examined for thickness measurements (See Smart Sensor AR 850+ Ultrasonic Thickness Gauge measurement).

12. If deemed necessary, the tank exterior (or interior) is then examined for porosity, pinholes and leaks (See PCWI porosity detection test, also known as holiday detector test).

3.4 Post-Test Procedures

13. Any coating problems detected should be corrected while the tank is out of service in order to avoid further extensive downtime.

14. Once the tank is inspected and all maintenance items are taken care of, the tank will need to be disinfected prior to placing back in use.

15. Once the tank has been disinfected, bacteriological tests must be performed on water samples (2 per FDEP) taken from the tank discharge. FDEP to clear for service prior to placing back in service.

3.5 Safety of Test Area

The test area should be restricted and barricaded. The porosity testing instrument output can be up to 20,000 volts. Testing should be carried out well clear of personnel not involved in the testing procedure. Should accidental contact be made with the test electrode, the recipient will receive a mild shock. This equipment should never be used by a person with a pacemaker.

4.0 TEST EQUIPMENT DESCRIPTIONS

4.1 AR 850+ Ultrasonic Thickness Gauge



The Smart Sensor AR 850+ Digital Ultrasonic Thickness Gauge is an economical, user-friendly, menu driven, and multi-functional unit offering extensive features from basic measurements to extended memory. This dynamic series of UT gauges is designed to measure the thickness of metallic and non-metallic materials such as steel, aluminum, titanium, plastics, ceramics, glass and any other good ultrasonic wave conductor as long as it has parallel top and bottom surfaces. The AR 850+ gauges will accurately display readings in millimeters after a simple calibration to a known Thickness or sound velocity.

4.1.1 Features

- Main Unit
- Transducer 5 MHz / 2.5 MHz
- Integrated steel calibration plate 4.0mm
- Batteries (2 x AAA)
- Ultrasonic Couplant
- Operation Manual
- Certificate
- Carrying Case
- One Year Warranty

4.1.2 Technical Specification

Display Type	4-digit LCD
Display Resolution	(<100 mm) 0.1 mm
Units	Metric
Measuring Range (steel)	1.2 to 220.0 mm
Sound Velocity Range	1000 to 9999 m/s
Operating Temperature	0 ° C +45° C
Frequency	5 MHz
Power Source	3 X 1.5V AAA batteries
Dimensions	70x145.5x28 mm

4.2 Compact DC Inspector Porosity Detector



Porosity detection of Tanks, Valves, Pumps, Pipeline field joints, and general inspection and maintenance. Suitable for a broad range of testing and inspection requirements. It is recommended that the integral probe be limited to a 125mm flat brush or fan brush.

4.2.1 Standards

ASTM G62-87(1998), ASTM D4787-93(1999), NACE RP0274-98, NACE RP0490-2001, NACE RPO188- 99, JIS G-3491, JIS G-3492, ANSI/AWWA C214-89, ANSI/AWWA C213-94 and ISO 2746:1998

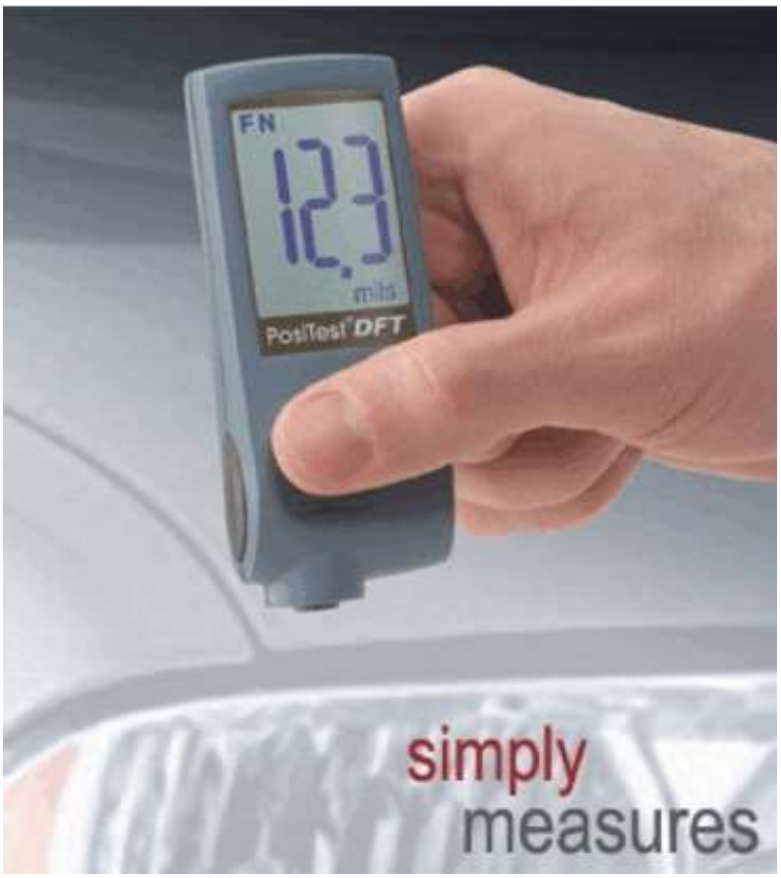
4.2.2 Features

- LED bar graph display of voltage
- "Single" hand-held, lightweight unit for simplicity and ease of operation
- Audible and visual alarms
- LED battery condition indicator
- Integral probe
- Detector
- 7m Earth lead and clamp
- Flat 125mm wide brass wire brush (or optional fan brush)
- Carry Case
- Operating instructions with conformance certificate
- Variable output up to 10kV or Variable output up to 20kV

4.2.3 Technical Specifications

Test Voltage	to 10kV (using 9V Battery)
Output Test Current	up to 100µA
Operating Temperature	-20 to +50ºC
Power Supply	Battery (9V internal)
Unit Dimensions	210 x 75 x 35mm (excl brush) 8.25" x 3.1" x 1.5"
Unit Weight	460g (incl probe)
Shipping Weight	1.5Kg

4.3 PosiTest DFT Coating Thickness Gauge



The new PosiTest DFT Coating Thickness Gauge measures coatings on ALL metals. It is the economical choice that retains the uncompromising quality of Qualitest inspection instruments.

Available in two models:

- PosiTest DFT Ferrous - measures non-magnetic coatings on steel.
- PosiTest DFT Combo - measures both non-magnetic coatings on steel and non-conductive coatings on aluminum, brass, etc. Automatically recognizes the substrate and takes a measurement.

4.3.1 Standards

ASTM B244/B499/B659/D1186/D1400/E376/G12, BS3900-C5, SSPC-PA2, ISO 2178/2360/2808, prEN ISO 19840, and others. Certificate of Calibration traceable to NIST available.

4.3.2 Features

- Fast, repeatable measurements
- No calibration required for most applications
- ZERO feature for rough or curved surfaces
- Handy RESET feature when no zero reference is available
- Strong, wear resistant, ruby-tipped probe
- Audible and visible measurement indication
- V-groove in probe for positioning on cylindrical parts
- Mils/Microns switchable
- Basic instructions on the back of each gauge

4.3.3 Technical Specifications

Measurement Range	0-40 mils (-1000 µm)
Accuracy	±(0.1 mils + 3%) (±(2µm + 3%))
Size	4 x 1.5 x 0.9 in (100 x38 x 23 mm)
Weight	2.5 oz (70 g)



5.0 HYDROPNEUMATIC PRESSURE TANK DESCRIPTION

The hydropneumatic pressure tank inspected and tested is described as follows:

Length: 20'-1" (21'-6" including elliptical heads)
Diameter: 4'-0" outside diameter
Volume: 2,000 gallons with elliptical heads
Tank Age: Approximately 15 years
Operating Pressure: 60 psi

6.0 TESTING

6.1 Porosity Testing

The tank surface was not swept with the Compact DC Inspector Porosity Detector during this inspection as no evidence of pin holes was observed throughout the surface of the tank.

6.2 Interior Coating Testing

Dry film thickness readings were not taken as the coating had failed on significant portions of the tank interior.

6.3 Ultrasonic Metal Thickness Testing

A total of 60 metal thickness readings were taken at various locations on the tank shell and head surface. The average shell reading was 3.97 millimeters in the cylindrical section and 6.05 millimeters in the elliptical heads. Typical industry standard minimum wall thickness for tanks of this size is 1/4" (6.35 mm).

7.0 VISUAL OBSERVATIONS

7.1 Tank Exterior

The exterior of the tank appeared to be in good structural condition. No lichens were growing on the tank exterior at the time of the inspection.

7.2 Tank Interior

The tank interior appeared to be in fair condition, however, there were significant areas where the coating had failed on the interior tank surface. There was corrosion noted on the ridge and side walls of the tank interior.

8.0 DEFINITIONS

Design Pressure - The maximum design pressure determined from the metal thickness.

Maximum allowable working pressure (MAWP) – Maximum pressure that the pressure tank is capable of safely holding at a design maximum temperature (250ºF).

Operating Pressure - The normal maximum operating pressure of the pressure tank. The normal operating pressure must always be below the MAWP. As a rule of thumb the maximum operating pressure should always be less than the MAWP.

Metal Thickness – The thickness of the pressure tank wall (not including a corrosion allowance) to be used in the pressure calculations.

Design Safety Factor on Metal Tensile Strength – A pressure tank is normally designed with a safety factor of 3 to 4 on the metal tensile strength. All pressure tanks are designed to operate with wall stresses below the yield point of the metal used for fabrication.

9.0 TANK PRESSURE CALCULATIONS

The following formula is found in ASME Section I for determination of MAWP:

For tanks with circumferential stress on (longitudinal joints)

P = SEt/(R+0.6t)
= 60 MPa x 1.0 x 3.97 mm / (606 mm+0.6 x 3.97 mm)
= 0.392 MPa
= 57 psi

When:

t < 0.5R = 0.5 x 606 = 303 mm (true) or
P < 0.385SE = 0.385 x 60 x 1.0 = 23.1 MPa (true)

Where:

t = metal thickness (mm) where t = 3.97 mm
R = inside radius of shell course under consideration (mm) = 606 mm
E = joint efficiency for cylindrical or spherical shells = 1.0 for welded tanks and corresponds to a safety factor of 3.5 in the parent metal.
P = maximum allowable working pressure (MPa) where 1 MPa = 145 psi
S = maximum allowable stress value at the operating temperature of the metal = 60 MPa (Safety Factor of 4).

10.0 CONCLUSIONS

Inspection and testing of the Eleven Oaks subdivision 2,000-gallon hydropneumatic pressure tank was performed on December 11, 2018. In addition to a visual examination, non-destructive examinations were also made. Non-destructive examinations included ultrasonic measurement of the tank wall thickness and visual inspection for pinholes and leaks. No examination of Dry Film Thickness Measurement (DFTM) of the interior coating was performed as the coating had already failed.

Observations of the tank exterior indicated tank is subject to normal exposure. Observations of tank interior revealed light surface corrosion along the upper ridge portions of the tank interior.

11.0 RECOMMENDATIONS

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 65 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 57 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

Signed: Robert M. Couch III Date: 1/1/2019

Robert M. Couch III, P.E. Registration No. 55311

Typical exterior and interior views of tank







APPENDIX C: EMERGENCY RESPONSE PLAN

Disaster-Specific Preparedness/Response Plan

for Public Drinking Water Systems

Per Chapter 62-555.350 (15) F.A.C.

Sunshine Utilities

ELEVEN OAKS

Address:	10230 East Hwy. 25 Belleview, FL 34420
Phone:	352-347-8228
Fax:	352-347-6915
Contact:	Dewaine Christmas, Manager
E-mail:	SunshineUtl@AOL.COM
Connections:	40
PWS:	3424099
County:	Marion

May 17, 2013

Department of Environmental Protection
Michael D. LeRoy, P.E.
John R. Sowerby, P.E.

FRWA Security Staff
Sterling L. Carroll, P.E.
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For more information or additional copies of this document contact:

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Telephone: 850-668-2746 ~ Fax: 850-893-4581
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This template and guide has been developed by the Florida Rural Water Association (FRWA) in collaboration with the Washington State Department of Health, Office of Drinking Water, Olympia, Washington; and reviewed by Florida Department of Environmental Protection.

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Preface
Chapter 62-555.350 (15) FAC

Disaster-Specific Preparedness/Response Plans

(15) Suppliers of water who own or operate a community water system serving, or designed to serve, 350 or more persons or 150 or more service connections shall develop a written emergency preparedness/response plan in accordance with Emergency Planning for Water Utilities, AWWA Manual M19, as adopted in Rule 62-555.335, F.A.C., by no later than December 31, 2004, and shall update and implement the plan as necessary thereafter. Said suppliers of water shall coordinate with their Local Emergency Planning Committee and their Florida Department of Law Enforcement Regional Security Task Force when developing their emergency plan and shall include in their plan all of the information in paragraphs (a) through (e) below.

(a) A Communication Charts as described in Chapter 5 of AWWA Manual M19.

(b) Written agreements with other agencies, utilities, or response organizations.

(c) A disaster-specific preparedness/response plan as described in Chapter 5 of AWWA Manual M19 for each of the following disasters: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release. Each disaster-specific preparedness/response plan shall incorporate the results of a vulnerability assessment; shall include actions and procedures, and identify equipment, that can obviate or lessen the impact of such a disaster; and shall include plans and procedures that can be implemented, and identify equipment that can be utilized, in the event of such a disaster.

(d) Details about how the water system meets the standby power requirements under subsection 62-555.320(14), F.A.C., and, if applicable, recommendations regarding the amount of fuel to maintain on site, and the amount of fuel to hold in reserve under contracts with fuel suppliers, for operation of auxiliary power sources.

(e) If applicable, recommendations regarding the amount of drinking water treatment chemicals, including chemicals used for regeneration of ion-exchange resins or for onsite generation of disinfectants, to maintain in inventory at treatment plants.

Specific Authority 403.861(9) FS. Law Implemented 403.852(12), 403.853(6), 403.861(17) FS. History-New 11-19-87, Formerly 17-22.650, Amended 1-18-89, 1-1-93, Formerly 17-555.350, Amended 8-28-03.

Time Extension for Submitting/Completing ERP – December 31, 2005

From: Hoofnagle, Van
Sent: Thursday, October 21, 2004 11:25 AM
Subject: Time Extension for Submitting/Completing ERP
Importance: High

I am sending this e-mail because of possible confusion in some FDEP District Offices or ACHDs regarding the deadline for compliance with the emergency preparedness/response plan requirements in FAC subsection 62-555.350(15).

As John Sowerby and other staff mentioned during Focus On Change presentations early this year on FAC Rule 62-555.350 and during training this summer on the recent amendments to FAC Chapter 62-555, the FDEP intends to amend FAC subsection 62-555.350(15) to give all affected community water systems (i.e., all community water systems serving 350 or more persons or 150 or more service connections) **until the end of 2005** instead of the end of this year to complete a comprehensive emergency preparedness / response plan as required by FAC subsection 62-555.350(15). At this point, it will likely be after the end of this year before we officially make this change to FAC subsection 62-555.350(15). In the meantime, please do not take any enforcement action against

community water systems who fail to meet the 12/31/04 deadline in FAC subsection 62-555.350(15). Thanks.

Van Hoofnagle
DEP Drinking Water Administrator

Section 1
Communication Charts

The first response step in any emergency is to inform the person at the top of this list, who is responsible for managing the emergency and making key decisions. List the water system chain of command in order of contact.

Water System Chain of Command – Lines of Authority

Order	Name & Title	Responsibilities During an Emergency	Contact Information
1	Dewaine Christmas Manager	Responsible for overall management and decision making. The manager is the lead for managing the emergency and providing information to regulatory agencies. All communications to external parties are to be approved by the manager.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl@AOL.Com
2	James Hodges Jr. Field Supervisor	Responsible for decision making in the field. In charge of overall maintenance, and repairs to all components of water system.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl @AOL.Com
3	Kelvin Edun Water Treatment Plant Operator	Responsible for running water treatment plant, performing inspections, maintenance, sampling and relaying all critical information to Field Supervisor.	Phone: Cell: 352-875-5141 Email:
4	Pamela Christmas Office	Responsible for assisting the manager in administrative duties and emergencies.	Phone: 352-347-8228 Cell: 352-245-4743 Email:
5			Phone: Cell: Email:
6			Phone: Cell: Email:
7			Phone: Cell: Email:

Emergency Notification

Notification call-up lists - Use these lists to notify important parties of an emergency.

Emergency Notification List

Organization or Department	Name & Position	Telephone	Cell Phone	e-mail
State Warning Point	**Duty Officer**	**800-320-0519**	800-320-0519	N/A
Local Law Enforcement	EOC Commander Chip Wildy	352-622-3205		Pstefanski@sheriff.marioncountyfl.org
Fire Department		911		
Emergency Medical Services		911		
Water Operator (if contractor)	Kelvin Edun Operator	352-875-5141		
County Health Department	Tom Moore Director of Environmental Health	352-622-7744	352-266-7486	
DEP District Office	Manny Cardona	407-897-4134	Fax 407-893-4418	
County Emergency Management Dept.	Chip Wildy	352-622-3205		
Local Leader (City Mgr., Mayor, Chair. Co. Comm., etc.)				
Local Hazmat Team (if any)		911		
Hazmat Hotline		911		
National Spill Response Center.	Duty Officer	800-424-8802	800-424-8802	N/A
Interconnected Water System(s)				
Neighboring Water System (not connected)				
FRWA Water Circuit Rider	David Hannah	850-668-2746	352-267-5108	

Priority Customers

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Hospital Or Clinic(s)				
Nursing Home(s)				
Public Schools				
Private Schools				
Wastewater Treatment Plant				
Food Processing Or Other Industry				

Service / Repair Notifications

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Electric Utility Co.	City of Ocala	352-651-6666		
Electrician				
Gas / Propane Supplier				
Water Testing Lab.	Aqua Pure Lisa Saupp	352-625-2822		
Sewer Utility Co.				
Telephone Co.	Sprint	800-788-3600	611	
Plumber	Roto Rooter Allen Curry	352-629-7886		
Pump Supplier	Coast Pump Zane	352-620-0616	352-266-4277	Coastpumpocal@hotmail.com
"Dig Safe" or "One Call"	Sunshine One Call	800-432-4770		

Service / Repair Notifications				
Organization Or Department	**Name & Position**	**Telephone**	**Cell Phone**	**email**
Rental Equip. Supplier	B&M Rental	352-245-3133	352-245-9800	
Chlorine Supplier	Custom Controls	352-622-9244	352-304-0572	
Other Chemical Suppliers				
Radio/SCADA Repair Co.				
Bottled Water Service				
Bulk Water Supplier				
Well Drilling Co.	Earls Well Drilling David Moffitt	352-245-2324	352-817-0502	
Pipe Supplier	National Water Works Roy Sands	352-351-8144	352-266-4705	

Designated Public Spokesperson and Alternates

Designate a spokesperson (alternates) for delivering messages to the news media & public

Public Spokesperson	Name & Position	Telephone	Cell Phone
Spokesperson	Dewaine Christmas Manager	352-347-8228	352-239-1198
Alternate 1	James Hodges Jr. Supervisor	352-347-8228	352-239-1197
Alternate 2			

Key Messages

Develop possible messages in advance, and update them as the emergency develops
▪ We are aware of the emergency and are working diligently to restore your water service.

- If you fall under a boil water notice you must bring water to a rolling boil for a period of at least one minute. You only have to boil water for human cunsumption.

-

Health Advisories – Boil Water Notices

Use the assistance of your County Health Department and/or District FDEP office, and FDEP's Mandatory Health Effects Language, located on FDEP's website at:

http://www.doh.state.fl.us/environment/water/manual/boil.htm

http://www.DEP.state.fl.us/water/drinkingwater/rules.htm,

and click on "Mandatory Health Effects Language"., PLUS EPA's templates at:

http://epa.gov/safewater/pn.html

Click on "Microsoft Word and Word Perfect files of PN templates" (PN means Public Notifications), then determine which "Tier" of notifications is needed and click on the desired software to receive them in.

Section 2
Written Agreements With Other Agencies, Utilities, or Response Organizations

INSERT BELOW information regarding any written agreements with other agencies, utilities, or response organizations, such as emergency interconnects, mutual aid or FlaWARN.

Emergency Interconnect(s)

Information on the location of interconnection(s) (if any), type and size of interconnecting pipe, pumps and accessory equipment, meters at interconnection(s), normal pressures at both ends of interconnection, volume of water from interconnection(s), type of agreement and approvals needed for use, procedures necessary to use interconnection, etc.

Location (Street)	
Location (GPS)	
Description	

Memoranda of Understanding

Organization	
Summary of Understanding	

Mutual Aid Agreements

Organization	Marion Utilities, Hal McDonald 352-622-1171
Summary of Understanding	Will render mutual aide – ie: pumps, generators, and other materials necessary to restore water service.

FlaWARN

Organization	
Summary of Understanding	

Section 3
Disaster-Specific Preparedness/Response Plan

Your disaster-specific preparedness/response plan must include a Vulnerability Assessment and preparedness / response plans for: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release.

In any event there are a series of general steps to take:

1. Confirm and analyze the type and severity of the emergency.
2. Take immediate actions to save lives.
3. Take action to reduce injuries and system damage.
4. Make repairs based on priority demand.
5. Return the system to normal operation.

Vulnerability Assessment

It is essential that water systems identify and assess the vulnerability of each system component for both natural and human-caused emergencies, before preparing their disaster-specific preparedness/response plans. Prepare your Vulnerability Assessment by completing the table below:

Facility Vulnerability Assessment

System component	Description and condition	Vulnerability	Security improvements (indicate existing or proposed)
Raw Water Sources	(1) 4" groundwater wells located several hundred feet from homes. Wells are in good condition. We have wellhead protection in place.	The wells are most vulnerable to above ground activities because they are only 180 & 179 FT deep.	1.Purchase land surrounding well. 2. Secure well house to foundation and install lighting around well house.
Pump-house and pumping facilities	The pump-house and pumping facility are in good condition.	Pump location is fully fenced with a locked gate.	Install tamper proof padlocks.
Treatment Facilities	There is a hypo-chlorination system inside of pump house. System is in good condition.	Chlorination systems are not subject to power outages.	There is a backup generator on site in compliance with CH. 62-555.320(14)FAC
Storage Facilities	Hydro pneumatic tank is fenced in good condition.	Tank is not in a lighted area.	Install lighting in area of tank.
Computer and telemetry systems	Computers are in utilities main office and are in good condition.	Computers should be better protected against cyber attack or hacking.	Secure computers with firewalls & virus protection.

A. Vandalism or Sabotage Response Procedures

1. Utility staff first aware of incident:
    a) Calls 9-1-1/ Local Law Enforcement.
    b) Calls Manager
2. Manager determines severity of incident.
    a) Field supervisor determines if vandalism or sabotage will effect the water quality.
    b) Manager reports incident to the state warning point.
3. Field supervisor directs repairs as needed.
    a) Complete repairs
    b) Update ERP as needed.

B. Drought Response Procedures

Include water use restrictions per Consumptive Use Permit

1. Manager coordinates with the local Water Management District (WMD) regarding drought conditions.
    a) If drought conditions exist, a water conservation plan will be initiated.
    b) Literature will be distributed to customers regarding the drought.
    c) Conservation material will be distributed to customers on conservation measures.
    d) Customers not abiding by restrictions will be reported to WMD.
    e) Manager updates ERP as needed.

C. Hurricane Preparedness & Response Procedures

Pre- Hurricane **(36 to 48 hrs prior to arrival)**	1. Manager coordinates with local EOC. 2. Field supervisor checks operation of standby power. 3. Field supervisor secures fuel and treatment chemicals for a 10 day period. 4. Manager replenishes inventory of spare parts.
Hurricane Watch **(24 to 36 hrs prior to arrival)**	1. Manager cancels all time off for employees. 2. Manager issues work assignments in advance in case of communication loss. 3. Employees all top off fuel in vehicles & standby generators. 4. Manager authorizes employees to secure their personal property and arrange for the safety of family members.
Hurricane Warning (24hrs or less prior to arrival)	1. Employees report to designated areas and wait for instructions. 2. Employees load truck with supplies. 3. Employees follow evacuation protocol.
Recovery Procedures	1. Manager coordinates with local EOC. 2. Manager issues boil water notices if needed. 3. Field supervisor coordinates repairs. 4. Manager makes contact with the appropriate DEP office. 5. After repairs are completed samples are taken. 6. When samples come back clear – boil water notice is lifted. 7. Manager files all malfunction reports with the DEP. 8. Field supervisor inspects all systems to make sure everything is running smooth.

D. Structure Fire Response Procedures

1. Utility staff discovering fire:
    a) Evacuate structure on fire.
    b) Call 9-1-1
2. Manager determines severity of incident.
    a) Manager contact State Warning Point.
    b) Field supervisor coordinates repairs when fire is extinguished.
3. Field supervisor reports to manager when repairs are complete.
    a) Manager reports completion of all repairs to any Gov. agency.
    b) Manager updates ERP as needed.

E. Flood Preparedness & Response Procedures

(Is any critical part of your system in a flood prone area?)

None of our systems are in a flood prone area.

F. Forest or Brush Fire Response Procedures

(Is any critical part of your system subject to forest or brush fires?)

1. Utility staff discovering fire.
    a) Orders evacuation of any threatened buildings.
    b) Calls 9-1-1 to report fire.
2. Manager determines the severity of fire.
    a) Manager contacts the State Warning Point.
    b) Field supervisor inspects for any damage and coordinates repairs after fire is extinguished.
3. Field supervisor reports to manager that all repairs are complete.
    a) Manager updates the ERP as needed.
    b)

G. Hazardous Material Release Response Procedures

Do you have any hazardous material (chlorine gas) at your water system?

We have no Hazardous materials at any of our water systems.

H. Other Disaster Response Procedures

Are there other disasters that you want to prepare for, such as a Contamination event, SCADA Attack, or Structural Damage from an Intentional Act?

Contamination

1.
   a)
   b)
2.
   a)
   b)

SCADA Attack

1.
   a)
   b)
2.
   a)
   b)

Structural Damage from an Intentional Act

1.
   a)
   b)
2.
   a)
   b)

Section 4
Standby Power Requirements

Include details about how the water system meets the standby power requirements as described in Ch. 62-555.320(14), and 62-555.350(15)(d) FAC for water source, treatment, and pumping facilities necessary to deliver drinking water at a rate at least equal to the Average Daily Water Demand.

Standby Power for Wells or Surface Water Intakes

Standby Power (or by alternate means) to OPERATE WELLS at Average Daily Demand

Average Daily Demand (ADD) in gpd or gpm	8720 gpd
Wells Needed to Supply Average Daily Demand	1
Standby Generator (kW) Needed for ADD &	15 KW
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	We will have reserve fuel in the case of an emergency.

Standby Power for Treatment Facilities

Standby Power (or by alternate means) to TREAT WATER at Average Daily Demand

Treatment Units Needed to Supply ADD	
Standby Generator (kW) Needed to Treat ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Standby Power for Pumps

Standby Power (or by alternate means) to PUMP WATER at Average Daily Demand

Pumps Needed to Supply ADD	
Standby Generator (kW) Needed to Pump ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Section 5
Drinking Water Treatment Chemicals & Disinfectants

Include recommendations regarding the amount of drinking water treatment chemicals, to maintain in inventory at treatment plants. Do not just list chemical storage capacity, but instead recommend the minimum amount of chemicals to maintain in inventory, which depends upon the location and reliability of chemical suppliers, the status of impending disasters, etc.

Disinfection Treatment Information

Disinfection Chemical(s)	Chemical / Location No. 1	Chemical / Location No. 2
Type of Chemical	Chlorine	
Type of Chemical Feed	Hypo-Chlorinator	
Chemical Storage Location	On site in the pump house.	
Recommended Minimum Amount to be Maintained in Storage (gal)	55 gallons	

Other Chemical Information

Chemical(s) Used	Chemical #1	Chemical #2	Chemical #3	Chemical #4
Type of Chemical				
Type of Chemical Feed				
System Location				
Chemical Storage Location				
Recommended Minimum Amount to be Maintained in Storage (gal)				

Appendix A
Basic System information

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Keep this basic information readily available for when you need it for emergency responders, repair people, the news media and potentially, an emergency operator.

Basic System Information

GPS coordinates will help emergency crews find your system following a major catastrophe.

System identification number (PWS ID)	**3424099**	
System name and address	**Eleven Oaks**	
GPS Coordinates	Latitude:	Longitude:
Basic description and location of system facilities	**2767 NE 60th Ln**	
Population served and service connections.	Population =	Connections =257
System Owner	**Sunshine Utilities of Central Florida, Inc.**	
Management Authority	**Owner and Manager**	
Name, title, and phone numbers of person responsible for maintaining and implementing the ERP.	**Dewaine Christmas** **Manager**	**352-347-8228 phone** **352-239-1198 cell**

System Demand

Demand based on Monthly Operational Records and system capacity based on Sanitary Survey.

Average Daily Demand (gpd)	8720GPD
Maximum Daily Demand (gpd)	10300GPD
System Capacity (gpd)	79200 GPD
Peak Hour Demand (gpm)	N/A

Location of Pertinent Information

Item	Location
Distribution System Map	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
O&M Manual(s)	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
Start-Up / Shut-Down Procedures	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.

Well Information

GPS coordinates will help emergency crews find wells following a major catastrophe.

Well Information	Well No. 1	Well No. 2	Well No. 3	Well No. 4
GPS well tag #				
Location (street)	2767 NE 60th Ln			
GPS Coordinates	Lat: Long:		Lat: Long:	Lat: Long:
Well Depth (ft)	215 FT			
Well Yield (gpd)	79200GPD			
Pump Type	Submersible			
Manufacturer	Sta-Rite			
Capacity (gpm)	230 GPM			
Motor Manufacturer	Franklin			
Horsepower	5 HP			
Phase	1			
Volts/Amps	230 volts			

Surface Water Sources

GPS coordinates will help emergency crews find surface water intakes following a major catastrophe.

Surface Water Information	Intake No. 1	Intake No. 2
Location (Street / Description)		
GPS Coordinates	Lat: Long:	Lat: Long:
Critical Water Level		

Finished Water Storage

GPS coordinates will help emergency crews find tanks following a major catastrophe.

Name of Storage Unit	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Location (Street)				
Location (GPS)	Lat: Long:	Lat: Long:	Lat: Long:	Lat: Long:
Type (ground, elevated, etc.)				
Capacity (gal)				
Empty Elevation				
Overflow Elevation				

High Service Pumps

HSP	HSP No. 1	HSP No. 2	HSP No. 3	HSP No. 4
Location (street)				
Pump Type				
Manufacturer				
Capacity (gpm)				
Motor Manufacturer				
Horsepower				
Phase				
Volts/Amps				

Other Applicable Information

Appendix B
Training and Rehearsals

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Event	Description	People & Organizations Involved	Date

Appendix C
Plan Approval

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Plan Approval

This plan is officially in effect when reviewed, approved, and signed by the following people:

Name / Title	Signature	Date
Hodges Family Trust		

APPENDIX D: CONSUMER CONFIDENCE REPORT

Certification of Delivery of Consumer Confidence Report

GENERAL INSTRUCTIONS: This form shall be completed by all community water systems (CWSs) that have prepared a Consumer Confidence Report (CCR) in accordance with Rule 62-550.824, F.A.C., Consumer Confidence Reports. At the end of this form is a certification in which a system's authorized representative shall certify that the reported information is accurate and is in conformance with Rule 62-550.824, F.A.C. **COMPLETE THIS FORM AND SUBMIT IT BY AUGUST 10,** together with a copy of your system's CCR, sample email or water bill (with URL notification of CCR, if applicable), and any newspaper notice(s) and posted notice(s) of your CCR, to the appropriate DEP district office or Approved County Health Department (ACHD). Systems serving 100,000 or more persons posting their CCRs on publicly accessible Internet sites shall provide the information on the appropriate Internet link(s). All information provided on this form must be typed or printed in ink.

I. General Water System Information. (To be completed by all community water systems.)

System name: Eleven Oaks Contact person: Dewaine Christmas

PWS Identification number (PWS ID): 3424099 Contact phone number: (352)347-8228

Mailing address: 10220 East Hwy 25 City: Belleview

State: Fl Zip: 34420-5531 Population served (not the number of "service connections"): _____

II. CCR Distribution Method. (To be completed by all community water systems. Choose A or B as appropriate.)

☐ A. We mailed, emailed, or otherwise directly delivered a copy of our CCR to each customer on _____ (enter date(s) of mailing or delivery) using the method(s) checked below:

- ☐ a. **Mailed** CCR
- ☐ b. **Mailed** notice (e.g. water bill) with **direct URL** to the CCR
- ☐ c. **Emailed** CCR as an **embedded** image or as an **attachment**
- ☐ d. **Emailed** notice with a **direct URL** to the CCR
- ☐ e. **Otherwise directly delivered** CCR to every customer. Explain: _____

☑ B. We were eligible to use a mailing waiver and used a mailing waiver. (Systems are eligible to use a mailing waiver only if they serve fewer than 10,000 persons, have not had any MCL or monitoring and reporting (M/R) violations, nor have been issued any formal Notices of Violations (NOVs), Consent Orders, Administrative Orders, or court-ordered civil actions during the calendar year before the year the CCR is due to the customers).

Answer a, b, **and** c below.)

- ☐ a. Date of newspaper: _____
- ☐ b. Name of newspaper/newsletter that published our CCR: _____
- ☑ c. A copy of our notice to customers, informing them that our CCR will not be mailed to them, is attached.

This notice was: ☑ mailed with bill; ☐ published in newspaper/newsletter; or ☐ other (describe)

_____

III. Posting of CCR on the Internet. (To be completed by all CWSs serving 100,000 or more persons.)

We posted our CCR on this publicly accessible internet site: _____

IV. Report on Your Effort to Distribute Your CCR to Your Water Consumers. (To be completed by all CWSs. Check all items that apply - at least one item must be checked.)

In addition to the methods selected in Part II,

■ A. We posted our CCR on this publicly accessible internet site: www.sunshineutilities.org

☐ B. We published our CCR in the local newspaper(s). The name(s) and date(s) of the newspaper(s) are:

_____

RECEIVED
JUL 10 2020
DEP Central District

☐ C. We advertised the availability of our CCR as a press release, radio announcement, or TV announcement. The type(s) and date(s) of the advertisement(s) are: _____

☐ D. We delivered multiple copies of our CCR to single bill addresses serving several persons.

☐ E. We delivered multiple copies of our CCR to the following community organizations:

_____

☐ F. Our CCR was posted in the following public locations: _____

_____

■ G. Our CCR was distributed by other methods (e.g., additional copies placed in entrance hall to facility). Describe.

Additional copies available at Sunshine Utilities Office

_____

V. Use of Non-English Language in CCR. (To be completed by all community water systems.)

☐ Information in a non-English language was included in our CCR because 20% or more of our customers do not speak English but speak _____. The method we used to determine the proportion of non-English speaking customers is _____

■ This requirement does not apply to our system, because we have no non-English speaking group among our customers equal to or exceeding 20% of our total number of customers.

VI. Other Delivery Requirements. (To be completed by all community water systems.)

(A) Was a copy of your CCR sent to your county health department, as required by rule?	■ Yes	☐ No
(B) Is your system regulated by the Public Service Commission (PSC)?	☐ Yes	☐ No
If Yes, was a copy of your CCR sent to the PSC, as required by rule?	■ Yes	☐ No

(C) If your system sells water to other systems, have you provided them with either a copy of your CCR or the required consumer confidence information? ■ Yes ☐ No ■ Not Applicable

VII. Certification of Delivery of CCR and Compliance with Regulations. (To be completed by all CWSs.)

This statement certifies that the above named community public water system has distributed its CCR for the time period starting ***January 1, 2019, and ending December 31, 2019*** to its customers on 6/15/20 (mm/dd/yy) and provided the appropriate notices of availability according to the requirements listed in this form, which are also found in Rule 62-550.824, F.A.C. This statement also certifies that the reported information is correct and consistent with the compliance monitoring data for the same period previously submitted to the Department, and that the report has been delivered to the agencies identified in Rules 62-550.824(3)(e)3., and 4., F.A.C.

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____

NAME (please print): Dewaine Christmas

TITLE: Manager DATE: 6/24/20

■ **A copy of our CCR is attached, and**

☐ **If using electronic delivery, a copy of our sample email or notice (e.g. water bill), with URL leading directly to the CCR and not a general information website, is attached. For example, if you are using the FRWA website to post your CCR, your URL would be:**

www.frwa.net/2012-Your PWSID Number.pdf (www.frwa.net/2012-0000000.pdf).

SUNSHINE UTILITIES
10230 East Highway 25
Belleview, Florida 34420

Drinking Water Quality Report

Annual Drinking Water Quality Report for 2019

Eleven Oaks

Florida Department of Environmental Protection Public Water System ID # 3424099

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water.

The source of our water is groundwater from one well located in the community. The wells draw from the Floridan aquifer, one of the world's most protected sources. Our water is chlorinated for disinfection purposes, we also use an additive for corrosion control. In 2019 the Florida Department of Environmental Protection conducted an assessment which identifies potential sources of contamination in the vicinity of our well. The SWAPP (Source Water Assessment and Protection Program) determined our public water system to have no potential sources of contamination. You may obtain more information at the web site *www.dep.state.fl.us/swapp.*

If you have any questions about this report or concerning your water utility please contact **Dewaine Christmas, at Sunshine Utilities, (352) 347-8228**, during normal business hours. We encourage our valued customers to be informed about their water utility.

Sunshine Utilities routinely monitors for constituents in your drinking water according to Federal and State laws, rules and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2019. Data obtained before January 1, 2019, and presented in this report are from the most recent testing performed in accordance with the laws, rules and regulations.

WATER QUALITY TEST RESULTS FOR ELEVEN OAKS

Radioactive Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Alpha Emitters	(pCi/L)	OCT '18	No	6	N/A	0	15	Erosion of natural deposits
Radium 226 + 228	(pCi/L)	OCT '18	No	1.2	N/A	0	5	Erosion of natural deposits

Inorganic Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Arsenic	(ppb)	OCT '18	No	0.9	N/A	N/A	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	(ppm)	OCT '18	No	0.0058	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride	(ppm)	OCT '18	No	0.2	N/A	4	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum levels between 0.7 and 1.2 ppm
Nitrate (as Nitrogen)	(ppm)	DEC '19	No	0.35	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium	(ppm)	OCT '18	No	9.4	N/A	N/A	160	Salt water intrusion; leaching from soil

Stage 2 Disinfectants and Disinfection By-Products

Disinfectant or Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL or MRDL Violation Yes / No	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine	(ppm)	2019	No	1.0	0.4 - 1.8	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Total trihalomethane (TTHM)	(ppb)	AUG '18	No	3.78	N/A	N/A	MCL = 80	By-product of drinking water disinfection

Lead and Copper (Tap Water)

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	AL Violation Yes / No	90th Percentile Result	No. of Sampling Sites Exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper	(ppm)	JUL '18	No	0.165	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

In the table you may find unfamiliar terms and abbreviations. To help you better understand these terms we have provided the following definitions (please note not all definitions may pertain to your report):

- Action Level (AL) – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial growth.
- Maximum Residual Disinfectant Level Goal (MRDLG) – The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.
- ND – This abbreviation means not detected and indicates that the substance was not found by laboratory analysis.
- Parts per million (ppm) or milligrams per Liter (mg/L) - one part of analyte (by weight) to 1 million parts of water sample (by weight).
- Parts per billion (ppb) or micrograms per Liter (µg/L) - one part of analyte (by weight) to 1 billion parts of water sample (by weight).
- Picocurie per liter (pCi/L) - measure of the radioactivity in water.

What does this mean?

As you can see our system had no violations. We're very proud that your drinking water meets all Federal and State requirements.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Sunshine Utilities is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals, and in some cases radioactive material, and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

A.) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

B.) Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

C.) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

D.) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

E.) Radioactive contaminants, which may be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The FDA (Food & Drug Administration) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care providers about their drinking water. EPA/CDC (Center for Disease Control) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are also available from the Safe Drinking Water Hotline (800-426-4791).

We are committed to ensuring the quality of your water. If you have any questions or concerns about the information provided, please feel free to call the numbers listed.

Sunshine Utilities

10230 East Highway 25, Belleview, FL 34420
Office (352)347-8228 – Fax (352)347-6915

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality of water and services we deliver to you everyday. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

Please follow the link to view your 2019 Annual Water Quality Report.

https://www.sunshineutilities.org/ccr19/2019ElevenOaks.pdf

APPENDIX E: SANITARY SURVEY REPORT

State of Florida
Department of Environmental Protection
Central District

SANITARY SURVEY REPORT

Plant Name **ELEVEN OAKS SUBDIVISION** County Marion PWS ID # **3424099**
Plant Location Between NE 60th Lane and 63rd Street, Ocala, FL 34471 Phone 352/347-8228
Owner Name Sunshine Utilities of Central Florida, Inc. Phone 352/347-8228
Owner Address 10230 SE Highway 25, Belleview, FL 34420-5531
Contact Person Dewaine Christmas Title Owner Phone 352/347-8228
This Survey Date 1/23/18 Last Survey Date 11/16/12 Last Compliance Inspection Date 8/29/14

PWS TYPE: Community

PLANT CATEGORY & CLASS: 5D

MAX-DAY DESIGN CAPACITY: 39,000 gpd

PWS STATUS: Approved

TREATMENT PROCESSES IN USE
Hypochlorination, corrosion control

SERVICE AREA CHARACTERISTICS
Subdivision
Food Service: ☐ Yes ☐ No ☒ N/A

Number of Service Connections 36
Population Served 126 Basis Operator

OPERATION & MAINTENANCE LOG: Yes
Location Plant
Comments

CERTIFIED OPERATOR: Yes
Operator(s) & Certification Class-Number:
Kelvin Edun C-7459

Hrs/day: *Required* Visit *Actual* Visit
Days/wk: *Required* 2 *Actual* 3
Non-consecutive Days? ☒ Yes ☐ No ☐ N/A
Comments

MONTHLY OPERATION REPORTS (MORs)
MORs submitted regularly? ☒ Yes ☐ No ☐ N/A
Data missing from MORs? ☒ No ☐ Yes ☐ N/A
Average Day (from MORs) 9,961 gpd
Maximum Day (from MORs) 48,400 gpd 9/17
Comments During 9/17 the system exceeded the design capacity. The circumstances were non-recurrent and highly unusual.

Flow Measuring Device Flow Meter
Meter Size & Type 3" Kent
Date Last Calibrated 4/22/15

RAW WATER SOURCE
☒ GROUND; Number of Wells 1
☐ PURCHASED from PWS ID #
☐ Emergency Water Source
Emergency Water Capacity

STANDBY POWER SOURCE: Not Required
Source
Capacity of Standby (kW)
Switchover: ☐ Automatic ☐ Manual
Hrs Operated Under Load
What equipment does it operate?
☐ Well Pumps
☐ High Service Pumps
☐ Treatment Equipment
Satisfy avg. daily demand? ☐ Yes ☐ No ☐ Unknown
Audio-visual alarm? ☐ Yes ☐ No
Comments

PLANS AND MAPS

Coliform Sampling Plan	☒ Yes	☐ No	☐ N/A
D/DBP Monitoring Plan	☒ Yes	☐ No	☐ N/A
Lead and Copper Plan	☒ Yes	☐ No	☐ N/A
Distribution System Map	☒ Yes	☐ No	☒ N/A
Emergency Response Plan	☒ Yes	☐ No	☒ N/A

Comments

PREVENTIVE MAINTENANCE/O&M

Operation & Maintenance Manual	☒ Yes	☐ No	
Preventive Maintenance Program	☒ Yes	☐ No	
Flushing Program	☒ Yes	☐ No	☒ N/A
Records	☒ Yes	☐ No	☒ N/A
Isolation Valve Exercise	☒ Yes	☐ No	☒ N/A
Records	☒ Yes	☐ No	☒ N/A

Comments

CROSS CONNECTION CONTROL
BFPAs None observed # Tested Unknown
WWTP RPZ N/A Date Tested N/A
Written Plan Yes Date 11/14/12
Comments

PWS ID # 3424099
Date 1/23/18

GROUND WATER SOURCE

Well Number (Florida Unique Well ID #)		1 (AAE0276)			
Year Drilled		1981			
Depth Drilled		200’			
Drilling Method		Rotary drill			
Type of Grout		Neat cement			
Static Water Level		Unknown			
Pumping Water Level		Unknown			
Design Well Yield		Unknown			
Test Yield		Unknown			
Actual Yield (if different than rated capacity)		Unknown			
Strainer		Unknown			
Length (outside casing)		194’			
Diameter (outside casing)		4”			
Material (outside casing)		Black steel			
Well Contamination History		None			
Is inundation of well possible?		No			
6’ X 6’ X 4” Concrete Pad		Yes			
SET BACKS	Septic Tank	>200’			
	Reuse Water	N/A			
	WW Plumbing	>100’			
	Other Sanitary Hazard	None observed			
PUMP	Type	Submersible			
	Manufacturer Name	Sta-Rite			
	Model Number	Unknown			
	Rated Capacity (gpm)	55			
	Motor Horsepower	5			
Well casing 12” above grade?		No*			
Well Casing Sanitary Seal		OK			
Raw Water Sampling Tap		Yes			
Above Ground Check Valve		Yes			
Security		Yes			
Well Vent Protection		Yes			

COMMENTS *The Department will continue to accept the well casing height as it currently exists unless it is shown to contain chemical or microbial contamination.

PWS ID # 3424099
Date 1/23/18

CHLORINATION (Disinfection)
Type: ☐ Gas ☒ Hypo
Make Chem-Tech Capacity 15 gpd
Chlorine Feed Rate 90% stroke
Avg. Amount of Cl_2 gas used N/A
Chlorine Residuals: Plant 1.19 Remote 1.25
Remote tap location 5985 NE 25th Ave
DPD Test Kit: ☐ On-site ☒ With operator
☐ None ☐ Not Used Daily
Injection Points Prior to hydropneumatic tank
Booster Pump Info N/A
Comments

CORROSION CONTROL
Chemical Used Aqua Gold
Make Stenner Capacity 17 gpd
Feed Rate 30% stroke
Injection Points Well discharge piping
Comments

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

Tank Type/Number	**H**
Capacity (gal)	1,000
Material	Steel
Gravity Drain	Yes
By-Pass Piping	Yes
Protected Openings	Yes
Sight Glass or Level Indicator	Yes
PRV/ARV	PRV
Pressure Gauge	Yes
On/Off Pressure	40/60
Access Secured	Yes
Access Manhole	Yes
Tank Sample Tap Location	Discharge piping
Date of Inspection	6/13
Date of Cleaning	6/13

Comments Tank inspection due 6/18.

DEFICIENCIES:

No deficiencies were noted during this inspection.

MONITORING REMINDER:

- Nitrate and nitrite samples are required to be collected from the point of entry (POE) to the distribution system annually. The 2018 results have not been received.
- The consumer confidence report (CCR) must be delivered to consumers and the Department no later than July 1, 2018, and certification of delivery of the CCR must be submitted to the Department no later than August 10, 2018.
- Monitoring schedules are available on the Central District's Drinking Water Website. https://floridadep.gov/central/central/content/resources-drinking-water-facilities-and-operators-central-district

COMMENTS:

- Contact FRWA (Florida Rural Water Association) at 850-668-2746, or frwa@frwa.net, for free technical assistance with your system. FRWA has extended benefits offered to members.
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.

  Checking the calibration of finished-drinking-water meters at treatment plants shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water. [Rule 62-555.350(2), F.A.C.]
- Suppliers of water shall submit written notification to the Department before beginning work or alterations to the public water system. Each notification shall be submitted to the appropriate Department of Environmental Protection District Office or Approved County Health Department and shall include the following: a description of the scope, purpose, and location of the work or alterations; and assurance that the work or alterations will comply with applicable requirements listed in Rule 62-555.330, F.A.C. Suppliers of water may begin such work or alterations 14 days after providing notification to the Department unless they are advised by the Department that the notification is incomplete or that a construction permit is required.
- Suppliers of water shall telephone the SWO at 1-800-320-0519 immediately (i.e., within two hours) after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving a public water system. [Rule 62-555.350(10)(a), F.A.C.]
- Suppliers of water shall telephone, and speak directly to a person at, the appropriate DEP District Office as soon as possible, but never later than noon of the next business day, in the event of any of the following emergency or abnormal operating conditions:
  - The occurrence of any abnormal color, odor, or taste in a public water system's raw or finished water;
  - The failure of a public water system to comply with applicable disinfection requirements; or
  - The breakdown of any water treatment or pumping facilities, or the break of any water main, in a public water system if the breakdown or break is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(b), F.A.C.]
- Suppliers of water shall notify affected water customers in writing or via telephone, newspaper, radio, or television; and telephone, and speak directly to a person at, the appropriate DEP District Office by no later than the previous business day before taking PWS components out of operation for planned maintenance or repair work if the work is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(d), F.A.C.]

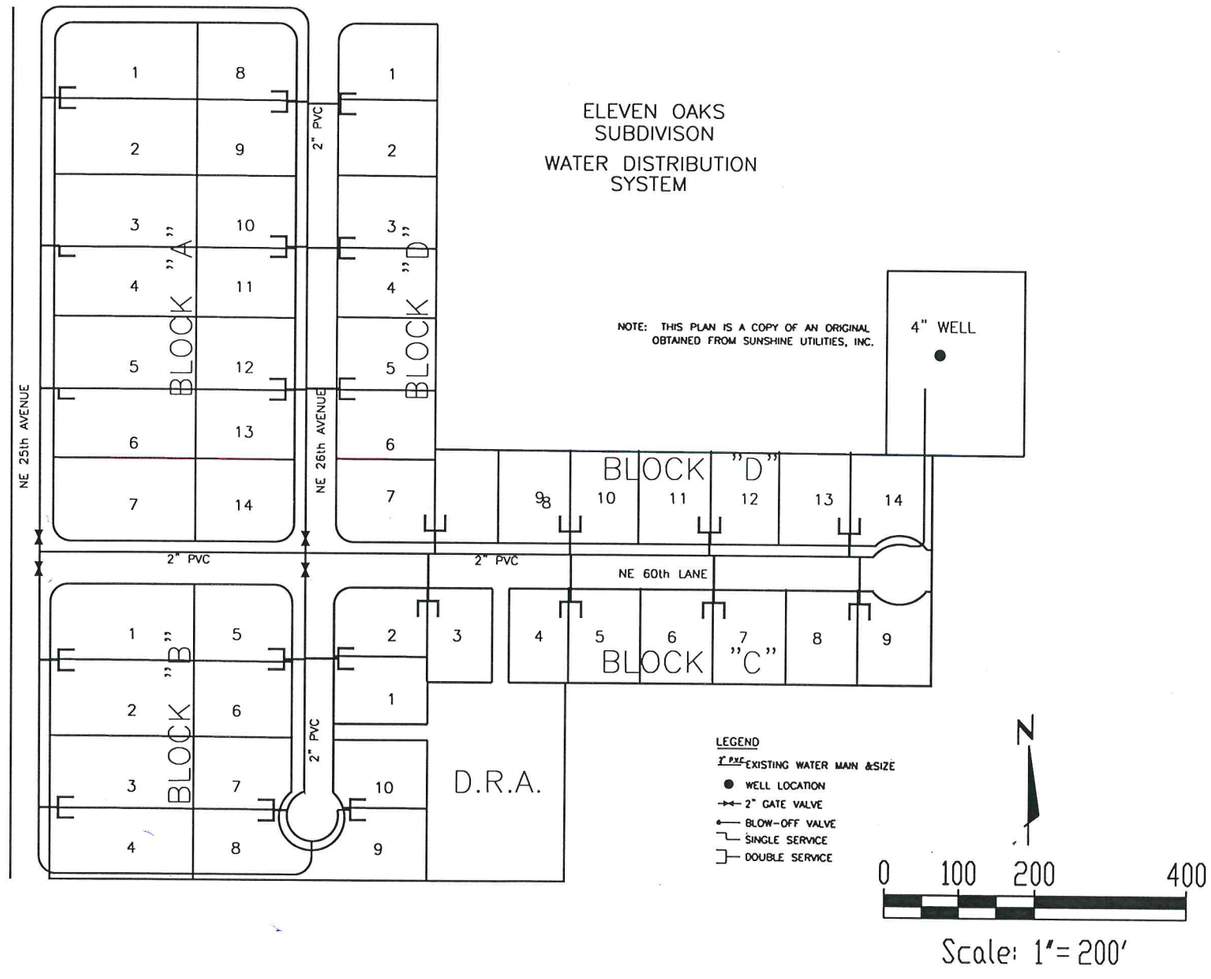
PWS ID # 3424962
Date 1/23/18

COMMENTS (continued):

- Suppliers of water shall issue precautionary "boil water" notices as required or recommended in the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(11), F.A.C.]

Inspector Signature	*Reviewer Signature*
Viviana Penuela Useche	Christine Daniel
Printed Name	*Printed Name*
Environmental Specialist	Environmental Manager
Title	*Title*
2-21-18	3/1/18
Date	*Date*

APPENDIX F: DISTRIBUTION MAP



H. W. BARRINEAU & ASSOCIATES, INC.
3100 SOUTHEAST 17th ST. SUITE 602 OCALA, FLORIDA 34471
TEL (352) 840-8538
(352) 840-8774

ELEVEN OAKS
SUNSHINE INDUSTRIES INC.
OCALA, FLORIDA

DESCRIPTION	DATE	CHK	DRN
ORIGINAL ISSUE	11 APR 97	HWB	PMM

Project No. 9836-02

1

Sheet 1 Of 1



woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Emil-Mar Subdivision

210 South Florida Avenue | Suite 220
Lakeland, Florida 33801
800.426.4262

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

0233748.01
CSWR
July 2021

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» Search By County
» Search by PWS Name or Number
» How to Help?

Definitions

» Aquifers
» Public Water Systems
» Assessment
» Potential Contaminants
» Susceptibility
» Prevention

Contact Us

» Email
» Mailing Address
» Source Water Protection Workshop

EPA Source Water Protection website

Source Water Assessment & Protection Program

Results for: 2019

EMIL-MAR SUBDIVISION
NE 22ND & NE 38TH ST
OCALA, FL 34471

Public Water System ID: 3420340
County: MARION
DEP Regulatory Office: DEP Central District
3319 Maguire Blvd, Suite 232
Orlando, FL 32803
407-897-4100
Public Water System Type : COMMUNITY
Public Water System Source : GROUND
Primary Use: SUBDIVISION
Population Served: 255
Size of Assessment Area:
GROUND: For this system, a 1000-foot radius circle around each well was used to define the assessment area.

Number of Wells: 1

Well ID	Owner ID	FLUWID	Status	Well Depth(ft)	Aquifer
5492	EMIL-MARR SUBDIVIS ELL	AAE0259	ACTIVE	79	Floridan Aquifer

Results:

GROUND WATER:
A search of the data sources indicated no potential sources of contamination.

Last updated: February 19, 2020

Accessibility Information

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3900 Commonwealth Boulevard M.S. 49
Tallahassee, Florida 32399
850-245-2118 (phone) /
850-245-2128 (fax)

APPENDIX B: TANK INSPECTION REPORT

INSPECTION AND TESTING of HYDROPNEUMATIC TANK

Emil-Marr Subdivision Tank

Pursuant to Chapter 62-555.350 (1) & (2) F.A.C

Water System:	Emil-Marr Subdivision
Street Address:	NW corner of NE 22nd Court & 38th Street
City, State:	Ocala, Florida
Phone:	352-347-8228
Contact:	Dewaine Christmas
E-mail:	sunshineutl@aol.com
PWS ID No.:	3420340
County:	Marion
Classification:	Community
Source:	Ground
Ownership:	Sunshine Utilities of North Central Florida
Date:	December 11, 2018

Inspection and Testing by:

Robert M. Couch III, P.E.
ENVIRO-TECH, Inc.
PO Box 152
Weirsdale, FL 32195
Telephone: 352-694-1799
E-mail: envirotech@ymail.com

ROBERT M. COUCH III ★ LICENSE ★ No. 55311 ★ STATE OF FLORIDA ★ PROFESSIONAL ENGINEER

C.O.A. No. 8692 Registration No. 55311

Robert M. Couch III, P.E.

Digitally signed by Robert M. Couch III, P.E.
DN: cn=Robert M. Couch III, P.E., o=ENVIRO-TECH, Inc., ou=Reg. No. 55311, email=envirotech@ymail.com, c=US
Date: 2019.01.01 23:15:36 -05'00'

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1.0 EXECUTIVE SUMMARY

ENVIRO-TECH, Inc. was contracted to perform the five year tank condition inspection on the above mentioned hydro-pneumatic tank.

This condition inspection was performed on December 11, 2018 by Robert M. Couch III, P.E. on the above referenced water tank. The tank was drained and, an internal and external inspection was performed to assess the tank condition as required by the Florida Department of Environmental Protection (FDEP) Rule 62-555.

The tank shell and heads appeared to be in overall good structural condition. Ultrasonic Thickness Measurement (UTM) readings indicated that the average thickness of the tank shell at the time of the field inspection was approximately 4.77 millimeters. UTM readings from the tank heads indicated an average thickness of 8.11 millimeters. The exterior coating of the tank appeared to be in overall good condition with no notable surface corrosion. The interior coating of the tank appeared to be in fair condition with only slight surface corrosion beginning to form along portions of the tank ridge where the coating was beginning to fail.

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 60 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 52 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

2.0 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS CHAPTER 62-555.350 (1) & (2)

2.1 Operation and Maintenance of Public Water Systems

(1) Suppliers of water shall operate and maintain their public water systems so as to comply with applicable standards in Chapter 62-550, F.A.C., and requirements in this chapter.

(2) Suppliers of water shall keep all necessary public water system components in operation and shall maintain such components in good operating condition so the components function as intended. Preventive maintenance on electrical or mechanical equipment – including exercising of auxiliary power sources, checking the calibration of finished-drinking-water meters at treatment plants, testing of air or pressure relief valves for hydropneumatic tanks, and exercising of isolation valves –shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water; however, in no case shall auxiliary power sources be run under load less frequently than monthly. Accumulated sludge and biogrowths shall be cleaned routinely (i.e., at least annually) from all treatment facilities that are in contact with raw, partially treated, or finished drinking water and that are not specifically designed to collect sludge or support a biogrowth; and blistering, chipped, or cracked coatings and linings on treatment or storage facilities in contact with raw, partially treated, or finished drinking water shall be rehabilitated or repaired. **Finished-drinking-water storage tanks, including conventional hydropneumatic tanks with an access manhole but excluding bladder- or diaphragm-type hydropneumatic tanks without an access manhole, shall be checked at least annually to ensure that hatches are closed and screens are in place; shall be cleaned at least once every five years to remove biogrowths, calcium or iron/manganese deposits, and sludge from inside the tanks; and shall be inspected for structural and coating integrity at least once every five years by personnel under the responsible charge of a professional engineer licensed in Florida.** Dead-end water mains conveying finished drinking water shall be flushed quarterly or in accordance with a written flushing program established by the supplier of water; additionally, dead-end or other water mains conveying finished water shall be flushed as necessary whenever legitimate water quality complaints are received.

2.2 Location of Inspection and Testing Report

Pursuant to Chapter 62-555.350 (2) and 62-555.350 (12) FAC, beginning 28 August 2003, all water systems regardless of size must maintain a copy up-to-date Preventive Maintenance Logs of each water system in the water facility office. The Preventive Maintenance Logs must show the date and type of all maintenance performed and comply with Rule 62-555.350 (2) and 62-555.350 (12), which requires the following:

- Preventive Maintenance Logs on Electrical and Mechanical Equipment
- Cleaning and Inspection Logs of Treatment Facilities and Storage Tanks
- Records of Coatings and Linings Rehabilitation or Repair
- Licensed Engineer Inspection Report (once every 5-years) for Finished-Drinking-Water Storage Tanks and Hydropneumatic Tanks
- Written Flushing Program and Logs showing that Dead-End Water Mains are being flushed at least quarterly
- Isolation Valves Exercise Logs

A copy of this report should be kept with these records.

3.0 HYDROPNEUMATIC PRESSURE TANK INSPECTION AND TEST PROCEDURES

This Inspection and Test Procedures is used as a reference in the overall inspection and testing of this Water System. This procedure is to be updated from time to time to reflect physical and procedural changes to the water system.

Inspection and testing of this tank was conducted by Robert M. Couch III, P.E. with the assistance of Jim Hodges Jr. of Sunshine Utilities of North Central Florida, Inc. The following inspection and testing procedures for hydropneumatic pressure tanks were used:

3.1 Pre-Test Procedures

1. If water service is to be interrupted customers must be notified in advance and if appropriate, boil water notices issued.

2. Turn-off all electrical power to well pumps, air motors, chlorination equipment, etc.

3. Open drain valve to empty tank. This is also a good time to check the valves (exercise them) that isolate the tank to see if they are in fact working as they should. This downtime can also be used to replace a valve if needed.

4. Once depressurized, the site glass is inspected for proper operation.

5. Once the tank is drained, the manway (hatch) will need to be removed for inspection of the interior.

3.2 Visual Inspection

6. Perform visual inspection of the tank exterior and accessories for presence of leaks, shell distortion, signs of settling, deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, accessories, etc.

7. Tank layout and physical measurements

8. Color photographs of the tank exterior and all of the essential appurtenances

9. Perform visual inspection of the tank interior for presence of deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, bio-growths, calcium or iron/manganese deposits, sludge, etc.

3.3 Nondestructive Examination

10. The tank interior coating is then examined for dry film thickness (See PosiTest® DFT Coating Thickness Gauge measurement) or equivalent.

11. The tank exterior is then examined for thickness measurements (See Smart Sensor AR 850+ Ultrasonic Thickness Gauge measurement).

12. If deemed necessary, the tank exterior (or interior) is then examined for porosity, pinholes and leaks (See PCWI porosity detection test, also known as holiday detector test).

3.4 Post-Test Procedures

13. Any coating problems detected should be corrected while the tank is out of service in order to avoid further extensive downtime.

14. Once the tank is inspected and all maintenance items are taken care of, the tank will need to be disinfected prior to placing back in use.

15. Once the tank has been disinfected, bacteriological tests must be performed on water samples (2 per FDEP) taken from the tank discharge. FDEP to clear for service prior to placing back in service.

3.5 Safety of Test Area

The test area should be restricted and barricaded. The porosity testing instrument output can be up to 20,000 volts. Testing should be carried out well clear of personnel not involved in the testing procedure. Should accidental contact be made with the test electrode, the recipient will receive a mild shock. This equipment should never be used by a person with a pacemaker.

4.0 TEST EQUIPMENT DESCRIPTIONS

4.1 AR 850+ Ultrasonic Thickness Gauge



The Smart Sensor AR 850+ Digital Ultrasonic Thickness Gauge is an economical, user-friendly, menu driven, and multi-functional unit offering extensive features from basic measurements to extended memory. This dynamic series of UT gauges is designed to measure the thickness of metallic and non-metallic materials such as steel, aluminum, titanium, plastics, ceramics, glass and any other good ultrasonic wave conductor as long as it has parallel top and bottom surfaces. The AR 850+ gauges will accurately display readings in millimeters after a simple calibration to a known Thickness or sound velocity.

4.1.1 Features

- Main Unit
- Transducer 5 MHz / 2.5 MHz
- Integrated steel calibration plate 4.0mm
- Batteries (2 x AAA)
- Ultrasonic Couplant
- Operation Manual
- Certificate
- Carrying Case
- One Year Warranty

4.1.2 Technical Specification

Display Type	4-digit LCD
Display Resolution	(<100 mm) 0.1 mm
Units	Metric
Measuring Range (steel)	1.2 to 220.0 mm
Sound Velocity Range	1000 to 9999 m/s
Operating Temperature	0 ° C +45° C
Frequency	5 MHz
Power Source	3 X 1.5V AAA batteries
Dimensions	70x145.5x28 mm

4.2 Compact DC Inspector Porosity Detector



Porosity detection of Tanks, Valves, Pumps, Pipeline field joints, and general inspection and maintenance. Suitable for a broad range of testing and inspection requirements. It is recommended that the integral probe be limited to a 125mm flat brush or fan brush.

4.2.1 Standards

ASTM G62-87(1998), ASTM D4787-93(1999), NACE RP0274-98, NACE RP0490-2001, NACE RPO188- 99, JIS G-3491, JIS G-3492, ANSI/AWWA C214-89, ANSI/AWWA C213-94 and ISO 2746:1998

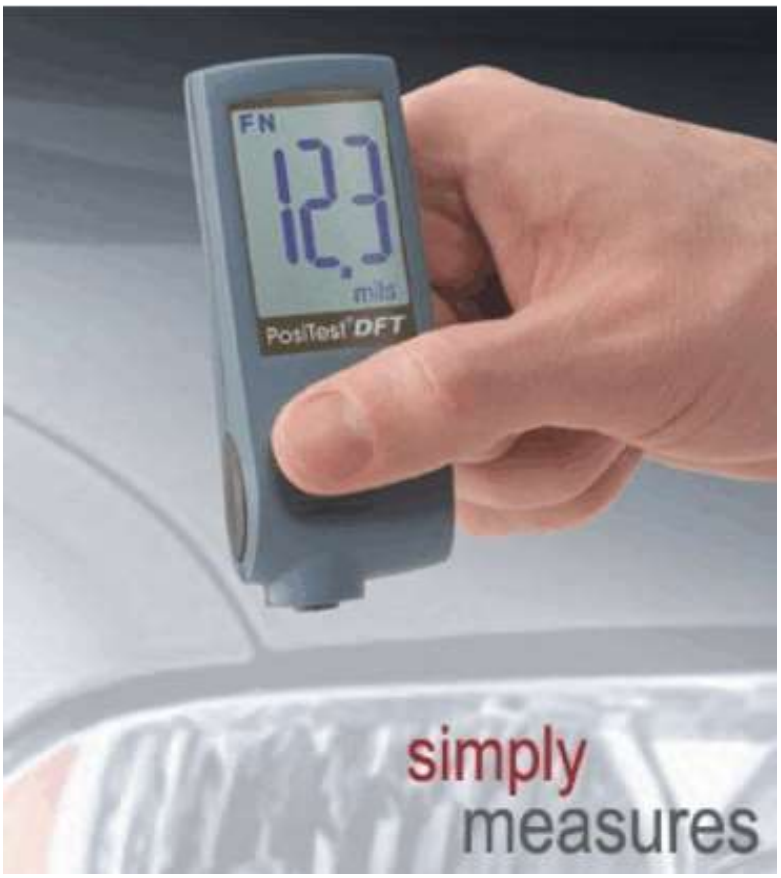
4.2.2 Features

- LED bar graph display of voltage
- "Single" hand-held, lightweight unit for simplicity and ease of operation
- Audible and visual alarms
- LED battery condition indicator
- Integral probe
- Detector
- 7m Earth lead and clamp
- Flat 125mm wide brass wire brush (or optional fan brush)
- Carry Case
- Operating instructions with conformance certificate
- Variable output up to 10kV or Variable output up to 20kV

4.2.3 Technical Specifications

Test Voltage	to 10kV (using 9V Battery)
Output Test Current	up to 100µA
Operating Temperature	-20 to +50ºC
Power Supply	Battery (9V internal)
Unit Dimensions	210 x 75 x 35mm (excl brush) 8.25" x 3.1" x 1.5"
Unit Weight	460g (incl probe)
Shipping Weight	1.5Kg

4.3 PosiTest DFT Coating Thickness Gauge



The new PosiTest DFT Coating Thickness Gauge measures coatings on ALL metals. It is the economical choice that retains the uncompromising quality of Qualitest inspection instruments.

Available in two models:

- PosiTest DFT Ferrous - measures non-magnetic coatings on steel.
- PosiTest DFT Combo - measures both non-magnetic coatings on steel and non-conductive coatings on aluminum, brass, etc. Automatically recognizes the substrate and takes a measurement.

4.3.1 Standards

ASTM B244/B499/B659/D1186/D1400/E376/G12, BS3900-C5, SSPC-PA2, ISO 2178/2360/2808, prEN ISO 19840, and others. Certificate of Calibration traceable to NIST available.

4.3.2 Features

- Fast, repeatable measurements
- No calibration required for most applications
- ZERO feature for rough or curved surfaces
- Handy RESET feature when no zero reference is available
- Strong, wear resistant, ruby-tipped probe
- Audible and visible measurement indication
- V-groove in probe for positioning on cylindrical parts
- Mils/Microns switchable
- Basic instructions on the back of each gauge

4.3.3 Technical Specifications

Measurement Range	0-40 mils (-1000 µm)
Accuracy	±(0.1 mils + 3%) (±(2µm + 3%))
Size	4 x 1.5 x 0.9 in (100 x38 x 23 mm)
Weight	2.5 oz (70 g)



5.0 HYDROPNEUMATIC PRESSURE TANK DESCRIPTION

The hydropneumatic pressure tank inspected and tested is described as follows:

Length: 14'-10" (16'-4" including elliptical heads)
Diameter: 5'-3" outside diameter
Volume: 2,500 gallons with elliptical heads
Tank Age: Approximately 25-30 years
Operating Pressure: 60 psi

6.0 TESTING

6.1 Porosity Testing

The tank surface was not swept with the Compact DC Inspector Porosity Detector during this inspection as no evidence of pin holes was observed throughout the surface of the tank.

6.2 Interior Coating Testing

No dry film thickness readings were taken within the tank interior as the coating had begun to fail along the tank ridge.

6.3 Ultrasonic Metal Thickness Testing

A total of 59 metal thickness readings were taken at various locations on the tank shell and head surface. The average shell reading was 4.77 millimeters in the cylindrical section and 8.11 millimeters in the elliptical heads. Typical industry standard minimum wall thickness for tanks of this size is 1/4" (6.35 mm).

7.0 VISUAL OBSERVATIONS

7.1 Tank Exterior

The exterior of the tank appeared to be in good structural condition. A few lichens were growing on the tank exterior at the time of the inspection.

7.2 Tank Interior

The tank interior appeared to be in fair condition, however, there were areas where the tank coating was beginning to fail on the interior tank surface. There was corrosion noted on the side walls of the tank interior.

8.0 DEFINITIONS

Design Pressure - The maximum design pressure determined from the metal thickness.

Maximum allowable working pressure (MAWP) – Maximum pressure that the pressure tank is capable of safely holding at a design maximum temperature (250ºF).

Operating Pressure - The normal maximum operating pressure of the pressure tank. The normal operating pressure must always be below the MAWP. As a rule of thumb the maximum operating pressure should always be less than the MAWP.

Metal Thickness – The thickness of the pressure tank wall (not including a corrosion allowance) to be used in the pressure calculations.

Design Safety Factor on Metal Tensile Strength – A pressure tank is normally designed with a safety factor of 3 to 4 on the metal tensile strength. All pressure tanks are designed to operate with wall stresses below the yield point of the metal used for fabrication.

9.0 TANK PRESSURE CALCULATIONS

The following formula is found in ASME Section I for determination of MAWP:

For tanks with circumferential stress on (longitudinal joints)

P = SEt/(R+0.6t)
= 60 MPa x 1.0 x 4.77mm / (795 mm+0.6 x 4.77 mm)
= 0.359 MPa
= 52 psi

When:

t < 0.5R = 0.5 x 908 = 453.83 mm (true) or
P < 0.385SE = 0.385 x 60 x 1.0 = 23.1 MPa (true)

Where:

t = metal thickness (mm) where t = 4.77 mm
R = inside radius of shell course under consideration (mm) = 795 mm
E = joint efficiency for cylindrical or spherical shells = 1.0 for welded tanks and corresponds to a safety factor of 3.5 in the parent metal.
P = maximum allowable working pressure (MPa) where 1 MPa = 145 psi
S = maximum allowable stress value at the operating temperature of the metal = 60 MPa (Safety Factor of 4).

10.0 CONCLUSIONS

Inspection and testing of the Emil-Marr subdivision 2,500-gallon hydropneumatic pressure tank was performed on December 11, 2018. In addition to a visual examination, non-destructive examinations were also made. Non-destructive examinations included ultrasonic measurement of the tank wall thickness and visual inspection for pinholes and leaks. No examination of Dry Film Thickness Measurement (DFTM) of the interior coating was performed as the coating had already begun to fail.

Observations of the tank exterior indicated tank is subject to normal exposure. Observations of tank interior revealed light surface corrosion along the upper ridge portions of the tank interior.

11.0 RECOMMENDATIONS

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 60 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 52 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

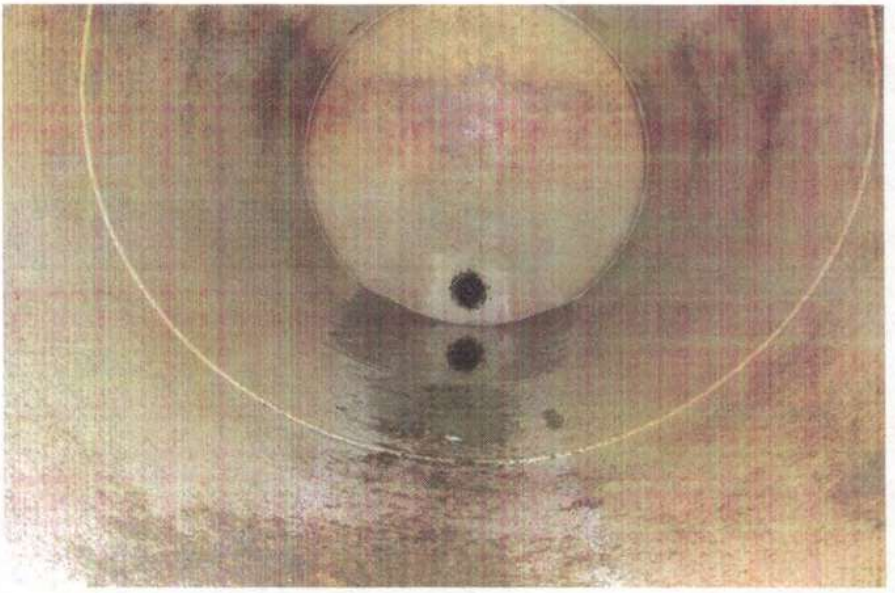
Signed: Robert M. Couch III Date: 1/1/2019

Robert M. Couch III, P.E. Registration No. 55311

Typical exterior and interior views of tank







APPENDIX C: EMERGENCY RESPONSE PLAN

Disaster-Specific Preparedness/Response Plan

for Public Drinking Water Systems

Per Chapter 62-555.350 (15) F.A.C.

Sunshine Utilities

EMIL MAR

Address:	10230 East Hwy. 25 Belleview, FL 34420
Phone:	352-347-8228
Fax:	352-347-6915
Contact:	Dewaine Christmas, Manager
E-mail:	SunshineUtl@AOL.COM
Connections:	76
PWS:	3420340
County:	Marion

May 17, 2013

Department of Environmental Protection
Michael D. LeRoy, P.E.
John R. Sowerby, P.E.

FRWA Security Staff
Sterling L. Carroll, P.E.
Ken Klos, P.E.
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This template and guide has been developed by the Florida Rural Water Association (FRWA) in collaboration with the Washington State Department of Health, Office of Drinking Water, Olympia, Washington; and reviewed by Florida Department of Environmental Protection.

Acknowledgment of federal government support of this project:

This project and the preparation of this booklet was funded in part by a Water Protection Coordination grant from the Environmental Protection Agency through an agreement/contract with the Drinking Water Program of the Department of Environmental Protection. Total cost of the project was $3,000 of which $3,000 or 100 percent, was provided by the U.S. Environmental Protection Agency.

Preface
Chapter 62-555.350 (15) FAC

Disaster-Specific Preparedness/Response Plans

(15) Suppliers of water who own or operate a community water system serving, or designed to serve, 350 or more persons or 150 or more service connections shall develop a written emergency preparedness/response plan in accordance with Emergency Planning for Water Utilities, AWWA Manual M19, as adopted in Rule 62-555.335, F.A.C., by no later than December 31, 2004, and shall update and implement the plan as necessary thereafter. Said suppliers of water shall coordinate with their Local Emergency Planning Committee and their Florida Department of Law Enforcement Regional Security Task Force when developing their emergency plan and shall include in their plan all of the information in paragraphs (a) through (e) below.

(a) A Communication Charts as described in Chapter 5 of AWWA Manual M19.

(b) Written agreements with other agencies, utilities, or response organizations.

(c) A disaster-specific preparedness/response plan as described in Chapter 5 of AWWA Manual M19 for each of the following disasters: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release. Each disaster-specific preparedness/response plan shall incorporate the results of a vulnerability assessment; shall include actions and procedures, and identify equipment, that can obviate or lessen the impact of such a disaster; and shall include plans and procedures that can be implemented, and identify equipment that can be utilized, in the event of such a disaster.

(d) Details about how the water system meets the standby power requirements under subsection 62-555.320(14), F.A.C., and, if applicable, recommendations regarding the amount of fuel to maintain on site, and the amount of fuel to hold in reserve under contracts with fuel suppliers, for operation of auxiliary power sources.

(e) If applicable, recommendations regarding the amount of drinking water treatment chemicals, including chemicals used for regeneration of ion-exchange resins or for onsite generation of disinfectants, to maintain in inventory at treatment plants.

Specific Authority 403.861(9) FS. Law Implemented 403.852(12), 403.853(6), 403.861(17) FS. History-New 11-19-87, Formerly 17-22.650, Amended 1-18-89, 1-1-93, Formerly 17-555.350, Amended 8-28-03.

Time Extension for Submitting/Completing ERP – December 31, 2005

From: Hoofnagle, Van
Sent: Thursday, October 21, 2004 11:25 AM
Subject: Time Extension for Submitting/Completing ERP
Importance: High

I am sending this e-mail because of possible confusion in some FDEP District Offices or ACHDs regarding the deadline for compliance with the emergency preparedness/response plan requirements in FAC subsection 62-555.350(15).

As John Sowerby and other staff mentioned during Focus On Change presentations early this year on FAC Rule 62-555.350 and during training this summer on the recent amendments to FAC Chapter 62-555, the FDEP intends to amend FAC subsection 62-555.350(15) to give all affected community water systems (i.e., all community water systems serving 350 or more persons or 150 or more service connections) **until the end of 2005** instead of the end of this year to complete a comprehensive emergency preparedness / response plan as required by FAC subsection 62-555.350(15). At this point, it will likely be after the end of this year before we officially make this change to FAC subsection 62-555.350(15). In the meantime, please do not take any enforcement action against

community water systems who fail to meet the 12/31/04 deadline in FAC subsection 62-555.350(15). Thanks.

Van Hoofnagle
DEP Drinking Water Administrator

Section 1
Communication Charts

The first response step in any emergency is to inform the person at the top of this list, who is responsible for managing the emergency and making key decisions. List the water system chain of command in order of contact.

Water System Chain of Command – Lines of Authority

Order	Name & Title	Responsibilities During an Emergency	Contact Information
1	Dewaine Christmas Manager	Responsible for overall management and decision making. The manager is the lead for managing the emergency and providing information to regulatory agencies. All communications to external parties are to be approved by the manager.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl@AOL.Com
2	James Hodges Jr. Field Supervisor	Responsible for decision making in the field. In charge of overall maintenance, and repairs to all components of water system.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl @AOL.Com
3	Kelvin Edun Water Treatment Plant Operator	Responsible for running water treatment plant, performing inspections, maintenance, sampling and relaying all critical information to Field Supervisor.	Phone: Cell: 352-875-5141 Email:
4	Pamela Christmas Office	Responsible for assisting the manager in administrative duties and emergencies.	Phone: 352-347-8228 Cell: 352-245-4743 Email:
5			Phone: Cell: Email:
6			Phone: Cell: Email:
7			Phone: Cell: Email:

Emergency Notification

Notification call-up lists - Use these lists to notify important parties of an emergency.

Emergency Notification List

Organization or Department	Name & Position	Telephone	Cell Phone	e-mail
State Warning Point	**Duty Officer**	**800-320-0519**	800-320-0519	N/A
Local Law Enforcement	EOC Commander	352-622-3205		Pstefanski@sheriff.marioncountyfl.org
Fire Department		911		
Emergency Medical Services		911		
Water Operator (if contractor)	Kelvin Edun Operator	352-875-5141		
County Health Department	Tom Moore Director of Environmental Health	352-622-7744	352-266-7486	
DEP District Office	Manny Cardona	407-897-4134	Fax 407-893-4418	
County Emergency Management Dept.	Chip Wildy	352-622-3205		
Local Leader (City Mgr., Mayor, Chair. Co. Comm., etc.)				
Local Hazmat Team (if any)		911		
Hazmat Hotline		911		
National Spill Response Center.	Duty Officer	800-424-8802	800-424-8802	N/A
Interconnected Water System(s)				
Neighboring Water System (not connected)				
FRWA Water Circuit Rider	Tom Gustafson	850-668-2746	352-267-1302	

Priority Customers

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Hospital Or Clinic(s)				
Nursing Home(s)				
Public Schools				
Private Schools				
Wastewater Treatment Plant				
Food Processing Or Other Industry				

Service / Repair Notifications

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Electric Utility Co.	City of Ocala	352-651-6666		
Electrician	Melville Electric	352-245-0600		
Gas / Propane Supplier	Belleview Gas	352-245-6055		
Water Testing Lab.	Aqua Pure Lisa Saupp	352-625-2822		
Sewer Utility Co.				
Telephone Co.	Sprint	800-788-3600	611	
Plumber	ACP	352-427-7036		
Pump Supplier	Coast Pump	352-620-0616	352-266-4277	Coastpumpocal@hotmail.com
"Dig Safe" or "One Call"	Sunshine One Call	800-432-4770		
Rental Equip. Supplier	B&M Rental	352-245-3133	352-245-9800	

Service / Repair Notifications				
Organization Or Department	**Name & Position**	**Telephone**	**Cell Phone**	**email**
Chlorine Supplier	Custom Controls	352-622-9244	352-304-0572	
Other Chemical Suppliers				
Radio/SCADA Repair Co.				
Bottled Water Service				
Bulk Water Supplier				
Well Drilling Co.	Earls Well Drilling David Moffitt	352-245-2324	352-817-0502	
Pipe Supplier	National Water Works Roy Sands	352-351-8144	352-266-4705	

Designated Public Spokesperson and Alternates

Designate a spokesperson (alternates) for delivering messages to the news media & public

Public Spokesperson	Name & Position	Telephone	Cell Phone
Spokesperson	Dewaine Christmas Manager	352-347-8228	352-239-1198
Alternate 1	James Hodges Jr. Supervisor	352-347-8228	352-239-1197
Alternate 2			

Key Messages

Develop possible messages in advance, and update them as the emergency develops
▪ We are aware of the emergency and are working diligently to restore your water service.
▪ If you fall under a boil water notice you must bring water to a rolling boil for a period of at least one minute. You only have to boil water for human cunsumption.

▪

Health Advisories – Boil Water Notices

Use the assistance of your County Health Department and/or District FDEP office, and FDEP's Mandatory Health Effects Language, located on FDEP's website at:

http://www.doh.state.fl.us/environment/water/manual/boil.htm

http://www.DEP.state.fl.us/water/drinkingwater/rules.htm,

and click on "Mandatory Health Effects Language"., PLUS EPA's templates at:

http://epa.gov/safewater/pn.html

Click on "Microsoft Word and Word Perfect files of PN templates" (PN means Public Notifications), then determine which "Tier" of notifications is needed and click on the desired software to receive them in.

Section 2
Written Agreements With Other Agencies, Utilities, or Response Organizations

INSERT BELOW information regarding any written agreements with other agencies, utilities, or response organizations, such as emergency interconnects, mutual aid or FlaWARN.

Emergency Interconnect(s)

Information on the location of interconnection(s) (if any), type and size of interconnecting pipe, pumps and accessory equipment, meters at interconnection(s), normal pressures at both ends of interconnection, volume of water from interconnection(s), type of agreement and approvals needed for use, procedures necessary to use interconnection, etc.

Location (Street)	
Location (GPS)	
Description	

Memoranda of Understanding

Organization	
Summary of Understanding	

Mutual Aid Agreements

Organization	Marion Utilities, 352-622-1171
Summary of Understanding	Will render mutual aide – ie: pumps, generators, and other materials necessary to restore water service.

FlaWARN

Organization	
Summary of Understanding	

Section 3
Disaster-Specific Preparedness/Response Plan

Your disaster-specific preparedness/response plan must include a Vulnerability Assessment and preparedness / response plans for: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release.

In any event there are a series of general steps to take:

1. Confirm and analyze the type and severity of the emergency.
2. Take immediate actions to save lives.
3. Take action to reduce injuries and system damage.
4. Make repairs based on priority demand.
5. Return the system to normal operation.

Vulnerability Assessment

It is essential that water systems identify and assess the vulnerability of each system component for both natural and human-caused emergencies, before preparing their disaster-specific preparedness/response plans. Prepare your Vulnerability Assessment by completing the table below:

Facility Vulnerability Assessment

System component	Description and condition	Vulnerability	Security improvements (indicate existing or proposed)
Raw Water Sources	(1) 6" groundwater wells located several hundred feet from homes. Wells are in good condition. We have wellhead protection in place.	The well is most vulnerable to above ground activities because it is only 79 FT deep.	1.Purchase land surrounding well. 2. Secure well house to foundation and install lighting around well house.
Pump-house and pumping facilities	The pump-house and pumping facility are in good condition.	Pump location is fully fenced with a locked gate.	Install tamper proof padlocks.
Treatment Facilities	There is a hypo-chlorination system inside of pump house. System is in good condition.	Chlorination systems are not subject to power outages.	There is a backup generator on site in compliance with CH. 62-555.320(14)FAC
Storage Facilities	Hydro pneumatic tank is fenced in good condition.	Tank is not in a lighted area.	Install lighting in area of tank.
Computer and telemetry systems	Computers are in utilities main office and are in good condition.	Computers should be better protected against cyber attack or hacking.	Secure computers with firewalls & virus protection.

A. Vandalism or Sabotage Response Procedures

1. Utility staff first aware of incident:
    a) Calls 9-1-1/ Local Law Enforcement.
    b) Calls Manager
2. Manager determines severity of incident.
    a) Field supervisor determines if vandalism or sabotage will effect the water quality.
    b) Manager reports incident to the state warning point.
3. Field supervisor directs repairs as needed.
    a) Complete repairs
    b) Update ERP as needed.

B. Drought Response Procedures

Include water use restrictions per Consumptive Use Permit

1. Manager coordinates with the local Water Management District (WMD) regarding drought conditions.
    a) If drought conditions exist, a water conservation plan will be initiated.
    b) Literature will be distributed to customers regarding the drought.
    c) Conservation material will be distributed to customers on conservation measures.
    d) Customers not abiding by restrictions will be reported to WMD.
    e) Manager updates ERP as needed.

C. Hurricane Preparedness & Response Procedures

Pre- Hurricane **(36 to 48 hrs prior to arrival)**	1. Manager coordinates with local EOC. 2. Field supervisor checks operation of standby power. 3. Field supervisor secures fuel and treatment chemicals for a 10 day period. 4. Manager replenishes inventory of spare parts.
Hurricane Watch **(24 to 36 hrs prior to arrival)**	1. Manager cancels all time off for employees. 2. Manager issues work assignments in advance in case of communication loss. 3. Employees all top off fuel in vehicles & standby generators. 4. Manager authorizes employees to secure their personal property and arrange for the safety of family members.
Hurricane Warning (24hrs or less prior to arrival)	1. Employees report to designated areas and wait for instructions. 2. Employees load truck with supplies. 3. Employees follow evacuation protocol.
Recovery Procedures	1. Manager coordinates with local EOC. 2. Manager issues boil water notices if needed. 3. Field supervisor coordinates repairs. 4. Manager makes contact with the appropriate DEP office. 5. After repairs are completed samples are taken. 6. When samples come back clear – boil water notice is lifted. 7. Manager files all malfunction reports with the DEP. 8. Field supervisor inspects all systems to make sure everything is running smooth.

D. Structure Fire Response Procedures

1. Utility staff discovering fire:
    a) Evacuate structure on fire.
    b) Call 9-1-1
2. Manager determines severity of incident.
    a) Manager contact State Warning Point.
    b) Field supervisor coordinates repairs when fire is extinguished.
3. Field supervisor reports to manager when repairs are complete.
    a) Manager reports completion of all repairs to any Gov. agency.
    b) Manager updates ERP as needed.

E. Flood Preparedness & Response Procedures

(Is any critical part of your system in a flood prone area?)

None of our systems are in a flood prone area.

F. Forest or Brush Fire Response Procedures

(Is any critical part of your system subject to forest or brush fires?)

1. Utility staff discovering fire.
    a) Orders evacuation of any threatened buildings.
    b) Calls 9-1-1 to report fire.
2. Manager determines the severity of fire.
    a) Manager contacts the State Warning Point.
    b) Field supervisor inspects for any damage and coordinates repairs after fire is extinguished.
3. Field supervisor reports to manager that all repairs are complete.
    a) Manager updates the ERP as needed.
    b)

G. Hazardous Material Release Response Procedures

Do you have any hazardous material (chlorine gas) at your water system?

We have no Hazardous materials at any of our water systems.

H. Other Disaster Response Procedures

Are there other disasters that you want to prepare for, such as a Contamination event, SCADA Attack, or Structural Damage from an Intentional Act?

Contamination

1.
   a)
   b)
2.
   a)
   b)

SCADA Attack

1.
   a)
   b)
2.
   a)
   b)

Structural Damage from an Intentional Act

1.
   a)
   b)
2.
   a)
   b)

Section 4
Standby Power Requirements

Include details about how the water system meets the standby power requirements as described in Ch. 62-555.320(14), and 62-555.350(15)(d) FAC for water source, treatment, and pumping facilities necessary to deliver drinking water at a rate at least equal to the Average Daily Water Demand.

Standby Power for Wells or Surface Water Intakes

Standby Power (or by alternate means) to OPERATE WELLS at Average Daily Demand

Average Daily Demand (ADD) in gpd or gpm	2967 gpd
Wells Needed to Supply Average Daily Demand	1
Standby Generator (kW) Needed for ADD &	15 KW
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	We will have reserve fuel in the case of an emergency.

Standby Power for Treatment Facilities

Standby Power (or by alternate means) to TREAT WATER at Average Daily Demand

Treatment Units Needed to Supply ADD	
Standby Generator (kW) Needed to Treat ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Standby Power for Pumps

Standby Power (or by alternate means) to PUMP WATER at Average Daily Demand

Pumps Needed to Supply ADD	
Standby Generator (kW) Needed to Pump ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Section 5
Drinking Water Treatment Chemicals & Disinfectants

Include recommendations regarding the amount of drinking water treatment chemicals, to maintain in inventory at treatment plants. Do not just list chemical storage capacity, but instead recommend the minimum amount of chemicals to maintain in inventory, which depends upon the location and reliability of chemical suppliers, the status of impending disasters, etc.

Disinfection Treatment Information

Disinfection Chemical(s)	Chemical / Location No. 1	Chemical / Location No. 2
Type of Chemical	Chlorine	
Type of Chemical Feed	Hypo-Chlorinator	
Chemical Storage Location	On site in the pump house.	
Recommended Minimum Amount to be Maintained in Storage (gal)	55 gallons	

Other Chemical Information

Chemical(s) Used	Chemical #1	Chemical #2	Chemical #3	Chemical #4
Type of Chemical				
Type of Chemical Feed				
System Location				
Chemical Storage Location				
Recommended Minimum Amount to be Maintained in Storage (gal)				

Appendix A
Basic System information

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Keep this basic information readily available for when you need it for emergency responders, repair people, the news media and potentially, an emergency operator.

Basic System Information

GPS coordinates will help emergency crews find your system following a major catastrophe.

System identification number (PWS ID)	**3420340**	
System name and address	**EMIL MARR**	
GPS Coordinates	Latitude:	Longitude:
Basic description and location of system facilities	**2199 NE 38th ST**	
Population served and service connections.	Population =	Connections = 76
System Owner	**Sunshine Utilities of Central Florida, Inc.**	
Management Authority	**Owner and Manager**	
Name, title, and phone numbers of person responsible for maintaining and implementing the ERP.	**Dewaine Christmas** **Manager**	**352-347-8228 phone** **352-239-1198 cell**

System Demand

Demand based on Monthly Operational Records and system capacity based on Sanitary Survey.

Average Daily Demand (gpd)	2967 GPD
Maximum Daily Demand (gpd)	5100GPD
System Capacity (gpd)	72000 GPD
Peak Hour Demand (gpm)	N/A

Location of Pertinent Information

Item	Location
Distribution System Map	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
O&M Manual(s)	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
Start-Up / Shut-Down Procedures	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.

Well Information

GPS coordinates will help emergency crews find wells following a major catastrophe.

Well Information	Well No. 1	Well No. 2	Well No. 3	Well No. 4
GPS well tag #				
Location (street)	NE 22nd CT			
GPS Coordinates	Lat: Long:		Lat: Long:	Lat: Long:
Well Depth (ft)	79 FT			
Well Yield (gpd)	72000GPD			
Pump Type	Submersible			
Manufacturer	Sta-Rite			
Capacity (gpm)	50 GPM			
Motor Manufacturer	Franklin			
Horsepower	5 HP			
Phase	1			
Volts/Amps	230 volts			

Surface Water Sources

GPS coordinates will help emergency crews find surface water intakes following a major catastrophe.

Surface Water Information	Intake No. 1	Intake No. 2
Location (Street / Description)		
GPS Coordinates	Lat: Long:	Lat: Long:
Critical Water Level		

Finished Water Storage

GPS coordinates will help emergency crews find tanks following a major catastrophe.

Name of Storage Unit	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Location (Street)				
Location (GPS)	Lat: Long:	Lat: Long:	Lat: Long:	Lat: Long:
Type (ground, elevated, etc.)				
Capacity (gal)				
Empty Elevation				
Overflow Elevation				

High Service Pumps

HSP	HSP No. 1	HSP No. 2	HSP No. 3	HSP No. 4
Location (street)				
Pump Type				
Manufacturer				
Capacity (gpm)				
Motor Manufacturer				
Horsepower				
Phase				
Volts/Amps				

Other Applicable Information

Appendix B
Training and Rehearsals

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Event	Description	People & Organizations Involved	Date

Appendix C
Plan Approval

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Plan Approval

This plan is officially in effect when reviewed, approved, and signed by the following people:

Name / Title	Signature	Date
Hodges Family Trust		

APPENDIX D: CONSUMER CONFIDENCE REPORT

Certification of Delivery of Consumer Confidence Report

GENERAL INSTRUCTIONS: This form shall be completed by all community water systems (CWSs) that have prepared a Consumer Confidence Report (CCR) in accordance with Rule 62-550.824, F.A.C., Consumer Confidence Reports. At the end of this form is a certification in which a system's authorized representative shall certify that the reported information is accurate and is in conformance with Rule 62-550.824, F.A.C. **COMPLETE THIS FORM AND SUBMIT IT BY AUGUST 10,** together with a copy of your system's CCR, sample email or water bill (with URL notification of CCR, if applicable), and any newspaper notice(s) and posted notice(s) of your CCR, to the appropriate DEP district office or Approved County Health Department (ACHD). Systems serving 100,000 or more persons posting their CCRs on publicly accessible Internet sites shall provide the information on the appropriate Internet link(s). All information provided on this form must be typed or printed in ink.

I. General Water System Information. (To be completed by all community water systems.)

System name: Emil Mar Contact person: Dewaine Christmas

PWS Identification number (PWS ID): 3420340 Contact phone number: (352)347-8228

Mailing address: 10220 East Hwy 25 City: Belleview

State: FI Zip: 34420-5531 Population served (not the number of "service connections"): _____

II. CCR Distribution Method. (To be completed by all community water systems. Choose A or B as appropriate.)

☐ A. We mailed, emailed, or otherwise directly delivered a copy of our CCR to each customer on _____ (enter date(s) of mailing or delivery) using the method(s) checked below:

- ☐ a. **Mailed** CCR
- ☐ b. **Mailed** notice (e.g. water bill) with **direct URL** to the CCR
- ☐ c. **Emailed** CCR as an **embedded** image or as an **attachment**
- ☐ d. **Emailed** notice with a **direct URL** to the CCR
- ☐ e. **Otherwise directly delivered** CCR to every customer. Explain: _____

☑ B. We were eligible to use a mailing waiver and used a mailing waiver. (Systems are eligible to use a mailing waiver only if they serve fewer than 10,000 persons, have not had any MCL or monitoring and reporting (M/R) violations, nor have been issued any formal Notices of Violations (NOVs), Consent Orders, Administrative Orders, or court-ordered civil actions during the calendar year before the year the CCR is due to the customers).

Answer a, b, **and** c below.)

- ☐ a. Date of newspaper: _____
- ☐ b. Name of newspaper/newsletter that published our CCR: _____
- ☑ c. A copy of our notice to customers, informing them that our CCR will not be mailed to them, is attached.

This notice was: ☑ mailed with bill; ☐ published in newspaper/newsletter; or ☐ other (describe)

_____

III. Posting of CCR on the Internet. (To be completed by all CWSs serving 100,000 or more persons.)

We posted our CCR on this publicly accessible internet site: _____

IV. Report on Your Effort to Distribute Your CCR to Your Water Consumers.

(To be completed by all CWSs. Check all items that apply - at least one item must be checked.)

In addition to the methods selected in Part II,

■ A. We posted our CCR on this publicly accessible internet site: www.sunshineutilities.org

☐ B. We published our CCR in the local newspaper(s). The name(s) and date(s) of the newspaper(s) are:

_____

RECEIVED
JUL 10 2020
DEP Central District

☐ C. We advertised the availability of our CCR as a press release, radio announcement, or TV announcement. The type(s) and date(s) of the advertisement(s) are: _____

☐ D. We delivered multiple copies of our CCR to single bill addresses serving several persons.

☐ E. We delivered multiple copies of our CCR to the following community organizations:

_____

☐ F. Our CCR was posted in the following public locations: _____

_____

■ G. Our CCR was distributed by other methods (e.g., additional copies placed in entrance hall to facility). Describe.
Additional copies available at Sunshine Utilities Office

V. Use of Non-English Language in CCR. (To be completed by all community water systems.)

☐ Information in a non-English language was included in our CCR because 20% or more of our customers do not speak English but speak _____. The method we used to determine the proportion of non-English speaking customers is _____

■ This requirement does not apply to our system, because we have no non-English speaking group among our customers equal to or exceeding 20% of our total number of customers.

VI. Other Delivery Requirements. (To be completed by all community water systems.)

(A) Was a copy of your CCR sent to your county health department, as required by rule?	■ Yes	☐ No
(B) Is your system regulated by the Public Service Commission (PSC)?	☐ Yes	☐ No
If Yes, was a copy of your CCR sent to the PSC, as required by rule?	■ Yes	☐ No

(C) If your system sells water to other systems, have you provided them with either a copy of your CCR or the required consumer confidence information? ■ Yes ☐ No ■ Not Applicable

VII. Certification of Delivery of CCR and Compliance with Regulations. (To be completed by all CWSs.)

This statement certifies that the above named community public water system has distributed its CCR for the time period starting ***January 1, 2019, and ending December 31, 2019,*** to its customers on 6/15/20 (mm/dd/yy) and provided the appropriate notices of availability according to the requirements listed in this form, which are also found in Rule 62-550.824, F.A.C. This statement also certifies that the reported information is correct and consistent with the compliance monitoring data for the same period previously submitted to the Department, and that the report has been delivered to the agencies identified in Rules 62-550.824(3)(e)3., and 4., F.A.C.

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____

NAME (please print): Dewaine Christmas

TITLE: Manager DATE: 6/26/20

■ **A copy of our CCR is attached, and**

☐ **If using electronic delivery, a copy of our sample email or notice (e.g. water bill), with URL leading directly to the CCR and not a general information website, is attached. For example, if you are using the FRWA website to post your CCR, your URL would be:**

www.frwa.net/2012-Your PWSID Number.pdf (www.frwa.net/2012-0000000.pdf).

SUNSHINE UTILITIES
10230 East Highway 25
Belleview, Florida 34420

Drinking Water Quality Report

Annual Drinking Water Quality Report for 2019

Emil Mar Subdivision

Florida Department of Environmental Protection Public Water System ID # 3420340

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

The source of our water is groundwater from one well located in the community. The well draws from the Floridan aquifer, one of the world's most protected sources. Our water is chlorinated for disinfection purposes. In 2019 the Florida Department of Environmental Protection conducted an assessment which identifies potential sources of contamination in the vicinity of our wells. The SWAPP (Source Water Assessment and Protection Program) determined our public water system to have no potential sources of contamination. You may obtain more information at the web site *www.dep.state.fl.us/swapp.*

If you have any questions about this report or concerning your water utility please contact **Dewaine Christmas, Sunshine Utilities, (352) 347-8228,** during normal business hours. We encourage our valued customers to be informed about their water utility.

Sunshine Utilities routinely monitors for constituents in your drinking water according to Federal and State laws, rules and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2019. Data obtained before January 1, 2019, and presented in this report are from the most recent testing performed in accordance with the laws, rules and regulations.

WATER QUALITY TEST RESULTS FOR EMIL MAR

Inorganic Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Barium	(ppm)	APR '18	No	0.0023	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chromium	(ppb)	APR '18	No	1.8	N/A	100	100	Discharge from steel and pulp mills; erosion of natural deposits
Fluoride	(ppm)	APR '18	No	0.043	N/A	4	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum levels between 0.7 and 1.2 ppm
Lead (point of entry)	(ppb)	APR '18	No	0.3	N/A	N/A	15	Residue from man-made pollution such as auto emissions and paint; lead pipe, casing, and solder
Nitrate (as Nitrogen)	(ppm)	FEB - DEC '19	No	6.41	5.77 - 6.41	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium	(ppm)	APR '18	No	19	N/A	N/A	160	Salt water intrusion; leaching from soil

Stage 2 Disinfectants and Disinfection By-Products

Disinfectant or Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL or MRDL Violation Yes / No	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine	(ppm)	2019	No	0.9	0.4 - 1.6	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Total trihalomethane (TTHM)	(ppb)	AUG '18	No	3.08	N/A	N/A	MCL = 80	By-product of drinking water disinfection

Lead and Copper (Tap Water)

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	AL Violation Yes / No	90th Percentile Result	No. of Sampling Sites Exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper	(ppm)	JUN '18	No	0.165	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead	(ppb)	JUN '18	No	4	0	0	15	Corrosion of household plumbing systems; erosion of natural deposits

In the table you may find unfamiliar terms and abbreviations. To help you better understand these terms we have provided the following definitions (please note not all definitions may pertain to your report):

- Action Level (AL) – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial growth.
- Maximum Residual Disinfectant Level Goal (MRDLG) – The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.
- ND – This abbreviation means not detected and indicates that the substance was not found by laboratory analysis.
- Parts per million (ppm) or milligrams per Liter (mg/L) - one part of analyte (by weight) to 1 million parts of water sample (by weight).
- Parts per billion (ppb) or micrograms per Liter (µg/L) - one part of analyte (by weight) to 1 billion parts of water sample (by weight).
- Picocurie per liter (pCi/L) - measure of the radioactivity in water.

What does this mean?

As you can see our system had no violations. We're very proud that your drinking water meets all Federal and State requirements.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Sunshine Utilities is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask advice from your health care provider.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals, and in some cases radioactive material, and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

A.) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

B.) Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

C.) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

D.) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

E.) Radioactive contaminants, which may be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The FDA (Food & Drug Administration) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care providers about their drinking water. EPA/CDC (Center for Disease Control) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are also available from the Safe Drinking Water Hotline (800-426-4791).

We are committed to ensuring the quality of your water. If you have any questions or concerns about the information provided, please feel free to call the numbers listed.

Sunshine Utilities

10230 East Highway 25, Belleview, FL 34420
Office (352)347-8228 – Fax (352)347-6915

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality of water and services we deliver to you everyday. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

Please follow the link to view your 2019 Annual Water Quality Report.

https://www.sunshineutilities.org/ccr19/2019EmilMar.pdf

APPENDIX E: SANITARY SURVEY REPORT

State of Florida
Department of Environmental Protection
Central District

SANITARY SURVEY REPORT

Plant Name **EMIL-MAR SUBDIVISION** County Marion PWS ID # **3420340**
Plant Location NE 22nd & NE 38th Street, Ocala, FL 34471 Phone 352/347-8228
Owner Name Sunshine Utlities of Central Florida, Inc. Phone 352/347-8228
Owner Address 10230 SE Highway 25, Belleview, FL 34420-5531
Contact Person Dewaine Christmas Title Owner Phone 352/347-8228
This Survey Date 1/23/18 Last Survey Date 8/19/15 Last Compliance Inspection Date 8/29/14

PWS TYPE: Community

PLANT CATEGORY & CLASS: 5D

MAX-DAY DESIGN CAPACITY: 72,000 gpd

PWS STATUS: Approved

TREATMENT PROCESSES IN USE
Hypochlorination

SERVICE AREA CHARACTERISTICS
Subdivision
Food Service: ☐ Yes ☐ No ☒ N/A

Number of Service Connections 73
Population Served 255 Basis 12/17 MOR

OPERATION & MAINTENANCE LOG: Yes
Location Water treatment plant
Comments

CERTIFIED OPERATOR: Yes
Operator(s) & Certification Class-Number:
Kelvin Edun C-7459

Hrs/day: *Required* Visit *Actual* Visit
Days/wk: *Required* 3 *Actual* 3
Non-consecutive Days? ☒ Yes ☐ No ☐ N/A
Comments

MONTHLY OPERATION REPORTS (MORs)
MORs submitted regularly? ☒ Yes ☐ No ☐ N/A
Data missing from MORs? ☒ No ☐ Yes ☐ N/A
Average Day (from MORs) 18,491 gpd
Maximum Day (from MORs) 67,000 gpd 6/17
Comments

Flow Measuring Device Flow Meter
Meter Size & Type 2" Sensus
Date Last Calibrated 7/23/15

RAW WATER SOURCE
☒ GROUND; Number of Wells 1
☐ PURCHASED from PWS ID #
☐ Emergency Water Source
Emergency Water Capacity

STANDBY POWER SOURCE: Not Required
Source
Capacity of Standby (kW)
Switchover: ☐ Automatic ☐ Manual
Hrs Operated Under Load
What equipment does it operate?
☐ Well Pumps
☐ High Service Pumps
☐ Treatment Equipment
Satisfy avg. daily demand? ☐ Yes ☐ No ☐ Unknown
Audio-visual alarm? ☐ Yes ☐ No
Comments

PLANS AND MAPS

Coliform Sampling Plan	☒ Yes	☐ No	☐ N/A
D/DBP Monitoring Plan	☒ Yes	☐ No	☐ N/A
Lead and Copper Plan	☒ Yes	☐ No	☐ N/A
Distribution System Map	☒ Yes	☐ No	☒ N/A
Emergency Response Plan	☒ Yes	☐ No	☒ N/A

Comments

PREVENTIVE MAINTENANCE/O&M

Operation & Maintenance Manual	☒ Yes	☐ No	
Preventive Maintenance Program	☒ Yes	☐ No	
Flushing Program	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A
Isolation Valve Exercise	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A

Comments

CROSS CONNECTION CONTROL
BFPAs None observed # Tested Unknown
WWTP RPZ N/A Date Tested N/A
Written Plan Yes Date 11/14/12
Comments

PWS ID # 3420340
Date 1/23/18

GROUND WATER SOURCE

Well Number (Florida Unique Well ID #)		**1 (AAE0259)**			
Year Drilled		1977			
Depth Drilled		79’			
Drilling Method		Cable tool			
Type of Grout		Neat cement			
Static Water Level		Unknown			
Pumping Water Level		Unknown			
Design Well Yield		Unknown			
Test Yield		Unknown			
Actual Yield (if different than rated capacity)		Unknown			
Strainer		Unknown			
Length (outside casing)		52’			
Diameter (outside casing)		6”			
Material (outside casing)		Black steel			
Well Contamination History		None			
Is inundation of well possible?		No			
6’ X 6’ X 4” Concrete Pad		Yes			
SET BACKS	Septic Tank	>200’			
	Reuse Water	N/A			
	WW Plumbing	>100’			
	Other Sanitary Hazard	None observed			
PUMP	Type	Submersible			
	Manufacturer Name	Sta-Rite			
	Model Number	Unknown			
	Rated Capacity (gpm)	62			
	Motor Horsepower	5			
Well casing 12” above grade?		Yes			
Well Casing Sanitary Seal		OK			
Raw Water Sampling Tap		Yes			
Above Ground Check Valve		Yes*			
Security		Yes			
Well Vent Protection		N/A			

COMMENTS *Check valve leaking

PWS ID # 3420340
Date 1/23/18

CHLORINATION (Disinfection)
Type: ☐ Gas ☒ Hypo
Make Chem-Tech Capacity 15 gpd
Chlorine Feed Rate 100% stroke
Avg. Amount of Cl_2 gas used N/A
Chlorine Residuals: Plant >2.2 Remote >2.2
Remote tap location 2319 NE 38th St.
DPD Test Kit: ☐ On-site ☒ With operator
☐ None ☐ Not Used Daily
Injection Points Prior to hydropneumatic tank
Booster Pump Info N/A
Comments

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

Tank Type/Number	**H**
Capacity (gal)	2,500
Material	Steel
Gravity Drain	Yes
By-Pass Piping	Yes
Protected Openings	Yes
Sight Glass or Level Indicator	Yes
PRV/ARV	PRV
Pressure Gauge	Yes
On/Off Pressure	40/60
Access Secured	Yes
Access Manhole	Yes
Tank Sample Tap Location	Discharge piping
Date of Inspection	6/13
Date of Cleaning	6/13

Comments
Tank inspection due 6/18

PWS ID # 3420340
Date 1/23/18

DEFICIENCIES:

Areas of Concern	Rule	Corrective Action	Date Corrected	Significant Deficiency?
Check valve leaking or not functioning properly.	62-555.350(2)	Repair or replace.	2/12/18 - check valve replaced per operator e-mail	No

MONITORING REMINDER:

- Nitrate and nitrite samples are required to be collected from the point of entry (POE) to the distribution system annually. The 2018 results have not been received.
- The consumer confidence report (CCR) must be delivered to consumers and the Department no later than July 1, 2018, and certification of delivery of the CCR must be submitted to the Department no later than August 10, 2018.
- Monitoring schedules are available on the Central District's Drinking Water Website. https://floridadep.gov/central/central/content/resources-drinking-water-facilities-and-operators-central-district

COMMENTS:

- Contact FRWA (Florida Rural Water Association) at 850-668-2746, or frwa@frwa.net, for free technical assistance with your system. FRWA has extended benefits offered to members.
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.

  Checking the calibration of finished-drinking-water meters at treatment plants shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water. [Rule 62-555.350(2), F.A.C.]
- Suppliers of water shall submit written notification to the Department before beginning work or alterations to the public water system. Each notification shall be submitted to the appropriate Department of Environmental Protection District Office or Approved County Health Department and shall include the following: a description of the scope, purpose, and location of the work or alterations; and assurance that the work or alterations will comply with applicable requirements listed in Rule 62-555.330, F.A.C. Suppliers of water may begin such work or alterations 14 days after providing notification to the Department unless they are advised by the Department that the notification is incomplete or that a construction permit is required.
- Suppliers of water shall telephone the SWO at 1-800-320-0519 immediately (i.e., within two hours) after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving a public water system. [Rule 62-555.350(10)(a), F.A.C.]
- Suppliers of water shall telephone, and speak directly to a person at, the appropriate DEP District Office as soon as possible, but never later than noon of the next business day, in the event of any of the following emergency or abnormal operating conditions:
  - The occurrence of any abnormal color, odor, or taste in a public water system's raw or finished water;
  - The failure of a public water system to comply with applicable disinfection requirements; or
  - The breakdown of any water treatment or pumping facilities, or the break of any water main, in a public water system if the breakdown or break is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for

more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(b), F.A.C.]

COMMENTS (continued):

- Suppliers of water shall notify affected water customers in writing or via telephone, newspaper, radio, or television; and telephone, and speak directly to a person at, the appropriate DEP District Office by no later than the previous business day before taking PWS components out of operation for planned maintenance or repair work if the work is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(d), F.A.C.]
- Suppliers of water shall issue precautionary “boil water” notices as required or recommended in the Department of Health’s “Guidelines for the Issuance of Precautionary Boil Water Notices” as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(11), F.A.C.]

Inspector Signature	*Reviewer Signature*
Viviana Penuela Useche	Christine Daniel
Printed Name	*Printed Name*
Environmental Specialist	Environmental Manager
Title	*Title*
2-21-18	3/1/18
Date	*Date*

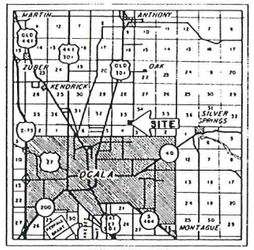
APPENDIX F: DISTRIBUTION MAP

EMIL - MARR

IN

SECTION 33, TOWNSHIP 14 SOUTH, RANGE 22 EAST

MARION COUNTY, FLORIDA



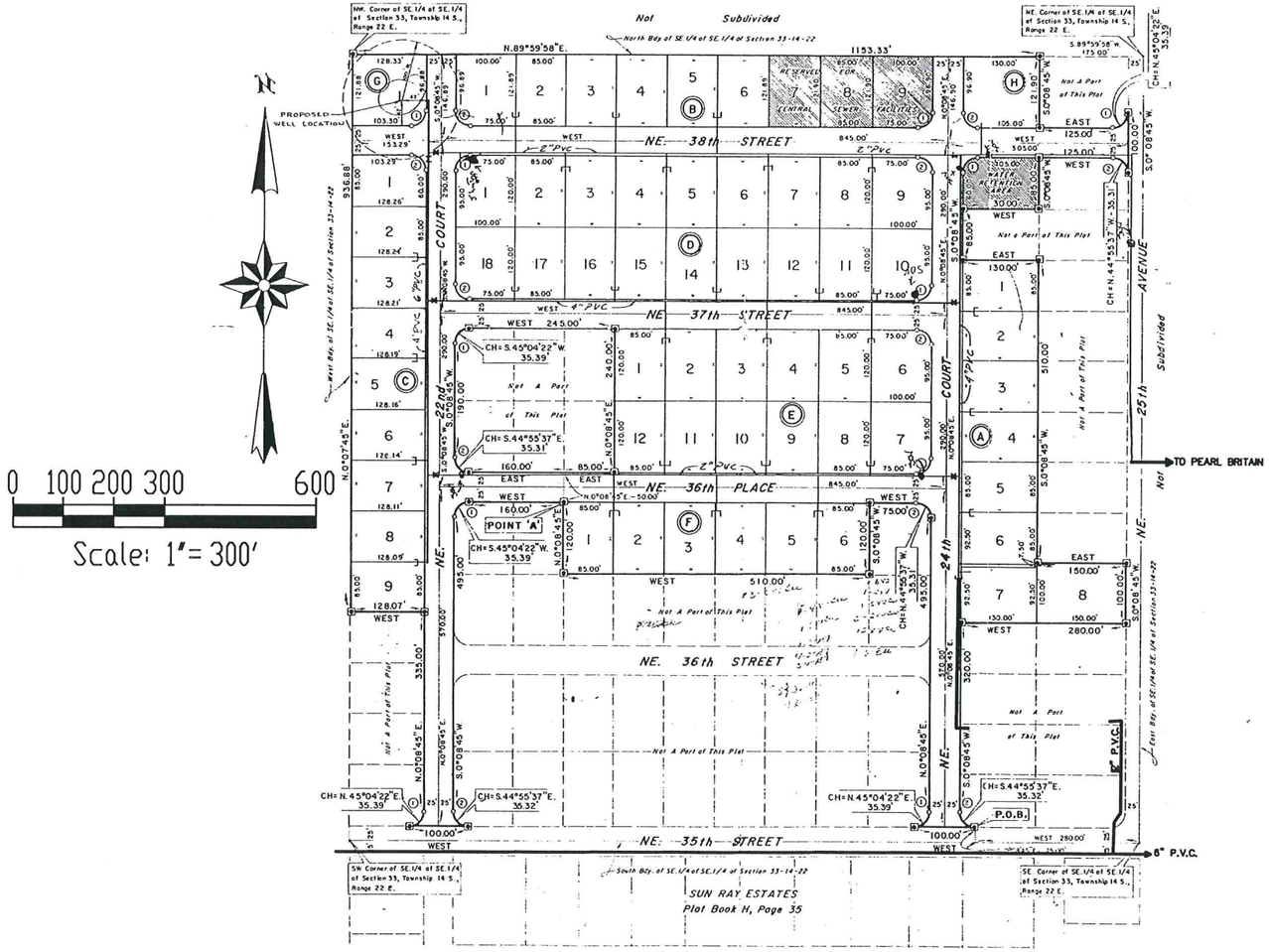
LOCATION MAP

GRAPHIC SCALE
SCALE 1" = 100'
0 75 50 100 200 300 400

THIS DRAWING IS A COPY OF AN ORIGINAL
Prepared By
MOORHEAD ENGINEERING COMPANY
305 SE 1st Avenue Ocala, Florida

CURVE DATA

NO.	Δ	R	ARC	TAN	CH.	CH. BRG.
1	89°51'15"	25.06'	39.30'	25.00'	35.39'	N.45°04'22"E.
2	90°08'45"	24.94'	39.25'	25.00'	35.31'	S.44°55'37"E.



0 100 200 300 600

Scale: 1" = 300'

H. W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17th ST. SUITE 602 OCALA, FLORIDA 34471
TEL (352) 840-8588 (352) 840-8774

EMIL MARR

SUNSHINE UTILITIES INC.

OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PMW	HWB	11 APR 97	ORIGINAL ISSUE

PROJECT NO.9839-02

1

Sheet 1 Of 1



woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Florida Heights Subdivision

210 South Florida Avenue | Suite 220
Lakeland, Florida 33801
800.426.4262

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

0233748.01
CSWR
July 2021

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Appendix B: Emergency Response Plan
Appendix C: Consumer Confidence Report
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» Search By County
» Search by PWS Name or Number
» How to Help?

Definitions

» Aquifers
» Public Water Systems
» Assessment
» Potential Contaminants
» Susceptibility
» Prevention

Contact Us

» Email
» Mailing Address
» Source Water Protection Workshop

EPA Source Water Protection website

Source Water Assessment & Protection Program

Results for: 2019

FLORIDA HEIGHTS S/D
SE 55TH PL & SE 68TH CT
OCALA, FL 34471

Public Water System ID: 3424031
County: MARION
DEP Regulatory Office: DEP Central District
3319 Maguire Blvd, Suite 232
Orlando, FL 32803
407-897-4100
Public Water System Type : COMMUNITY
Public Water System Source : GROUND
Primary Use: SUBDIVISION
Population Served: 346
Size of Assessment Area:
GROUND: For this system, a 1000-foot radius circle around each well was used to define the assessment area.

Number of Wells: 2

Well ID	Owner ID	FLUWID	Status	Well Depth(ft)	Aquifer
24133	NORTH WELL #2	AAC0019	ACTIVE	146	Floridan Aquifer
5796	6"/146/66-74'	AACOO20	ACTIVE	146	Floridan Aquifer

Results:

GROUND WATER:
A search of the data sources indicated no potential sources of contamination.

Last updated: February 19, 2020

Accessibility Information

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Exit Disclaimer
Privacy Statement

3900 Commonwealth Boulevard M.S. 49
Tallahassee, Florida 32399
850-245-2118 (phone) /
850-245-2128 (fax)

APPENDIX B: EMERGENCY RESPONSE PLAN

Disaster-Specific Preparedness/Response Plan

for Public Drinking Water Systems

Per Chapter 62-555.350 (15) F.A.C.

Sunshine Utilities
FLORIDA HEIGHTS

Address:	10230 East Hwy. 25 Belleview, FL 34420
Phone:	352-347-8228
Fax:	352-347-6915
Contact:	Dewaine Christmas, Manager
E-mail:	SunshineUtl@AOL.COM
Connections:	118
PWS:	3424031
County:	Marion

May 17, 2013

Department of Environmental Protection
Michael D. LeRoy, P.E.
John R. Sowerby, P.E.

FRWA Security Staff
Sterling L. Carroll, P.E.
Ken Klos, P.E.
Coy Donaldson

For more information or additional copies of this document contact:

FLORIDA RURAL WATER ASSOCIATION
2970 Wellington Circle ~ Suite 101 ~ Tallahassee
Telephone: 850-668-2746 ~ Fax: 850-893-4581
e-mail: FRWA@frwa.net

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This template and guide has been developed by the Florida Rural Water Association (FRWA) in collaboration with the Washington State Department of Health, Office of Drinking Water, Olympia, Washington; and reviewed by Florida Department of Environmental Protection.

Acknowledgment of federal government support of this project:

This project and the preparation of this booklet was funded in part by a Water Protection Coordination grant from the Environmental Protection Agency through an agreement/contract with the Drinking Water Program of the Department of Environmental Protection. Total cost of the project was $3,000 of which $3,000 or 100 percent, was provided by the U.S. Environmental Protection Agency.

Preface
Chapter 62-555.350 (15) FAC

Disaster-Specific Preparedness/Response Plans

(15) Suppliers of water who own or operate a community water system serving, or designed to serve, 350 or more persons or 150 or more service connections shall develop a written emergency preparedness/response plan in accordance with Emergency Planning for Water Utilities, AWWA Manual M19, as adopted in Rule 62-555.335, F.A.C., by no later than December 31, 2004, and shall update and implement the plan as necessary thereafter. Said suppliers of water shall coordinate with their Local Emergency Planning Committee and their Florida Department of Law Enforcement Regional Security Task Force when developing their emergency plan and shall include in their plan all of the information in paragraphs (a) through (e) below.

(a) A Communication Charts as described in Chapter 5 of AWWA Manual M19.

(b) Written agreements with other agencies, utilities, or response organizations.

(c) A disaster-specific preparedness/response plan as described in Chapter 5 of AWWA Manual M19 for each of the following disasters: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release. Each disaster-specific preparedness/response plan shall incorporate the results of a vulnerability assessment; shall include actions and procedures, and identify equipment, that can obviate or lessen the impact of such a disaster; and shall include plans and procedures that can be implemented, and identify equipment that can be utilized, in the event of such a disaster.

(d) Details about how the water system meets the standby power requirements under subsection 62-555.320(14), F.A.C., and, if applicable, recommendations regarding the amount of fuel to maintain on site, and the amount of fuel to hold in reserve under contracts with fuel suppliers, for operation of auxiliary power sources.

(e) If applicable, recommendations regarding the amount of drinking water treatment chemicals, including chemicals used for regeneration of ion-exchange resins or for onsite generation of disinfectants, to maintain in inventory at treatment plants.

Specific Authority 403.861(9) FS. Law Implemented 403.852(12), 403.853(6), 403.861(17) FS. History-New 11-19-87, Formerly 17-22.650, Amended 1-18-89, 1-1-93, Formerly 17-555.350, Amended 8-28-03.

Time Extension for Submitting/Completing ERP – December 31, 2005

From: Hoofnagle, Van
Sent: Thursday, October 21, 2004 11:25 AM
Subject: Time Extension for Submitting/Completing ERP
Importance: High

I am sending this e-mail because of possible confusion in some FDEP District Offices or ACHDs regarding the deadline for compliance with the emergency preparedness/response plan requirements in FAC subsection 62-555.350(15).

As John Sowerby and other staff mentioned during Focus On Change presentations early this year on FAC Rule 62-555.350 and during training this summer on the recent amendments to FAC Chapter 62-555, the FDEP intends to amend FAC subsection 62-555.350(15) to give all affected community water systems (i.e., all community water systems serving 350 or more persons or 150 or more service connections) **until the end of 2005** instead of the end of this year to complete a comprehensive emergency preparedness / response plan as required by FAC subsection 62-555.350(15). At this point, it will likely be after the end of this year before we officially make this change to FAC subsection 62-555.350(15). In the meantime, please do not take any enforcement action against

community water systems who fail to meet the 12/31/04 deadline in FAC subsection 62-555.350(15). Thanks.

Van Hoofnagle
DEP Drinking Water Administrator

Section 1
Communication Charts

The first response step in any emergency is to inform the person at the top of this list, who is responsible for managing the emergency and making key decisions. List the water system chain of command in order of contact.

Water System Chain of Command – Lines of Authority

Order	Name & Title	Responsibilities During an Emergency	Contact Information
1	Dewaine Christmas Manager	Responsible for overall management and decision making. The manager is the lead for managing the emergency and providing information to regulatory agencies. All communications to external parties are to be approved by the manager.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl@AOL.Com
2	James Hodges Jr. Field Supervisor	Responsible for decision making in the field. In charge of overall maintenance, and repairs to all components of water system.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl @AOL.Com
3	Kelvin Edun Water Treatment Plant Operator	Responsible for running water treatment plant, performing inspections, maintenance, sampling and relaying all critical information to Field Supervisor.	Phone: Cell: 352-875-5141 Email:
4	Pamela Christmas Office	Responsible for assisting the manager in administrative duties and emergencies.	Phone: 352-347-8228 Cell: 352-245-4743 Email:
5			Phone: Cell: Email:
6			Phone: Cell: Email:
7			Phone: Cell: Email:

Emergency Notification

Notification call-up lists - Use these lists to notify important parties of an emergency.

Emergency Notification List

Organization or Department	Name & Position	Telephone	Cell Phone	e-mail
State Warning Point	**Duty Officer**	**800-320-0519**	800-320-0519	N/A
Local Law Enforcement	EOC Commander Chip Wildy	352-622-3205		Pstefanski@sheriff.marioncountyfl.org
Fire Department		911		
Emergency Medical Services		911		
Water Operator (if contractor)	Kelvin Edun Operator	352-875-5141		
County Health Department	Tom Moore Director of Environmental Health	352-622-7744	352-266-7486	
DEP District Office	Manny Cardona	407-897-4134	Fax 407-893-4418	
County Emergency Management Dept.	Chip Wildy	352-622-3205		
Local Leader (City Mgr., Mayor, Chair. Co. Comm., etc.)				
Local Hazmat Team (if any)		911		
Hazmat Hotline		911		
National Spill Response Center.	Duty Officer	800-424-8802	800-424-8802	N/A
Interconnected Water System(s)				
Neighboring Water System (not connected)				
FRWA Water Circuit Rider	David Hannah	850-668-2746	352-267-5108	

Priority Customers

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Hospital Or Clinic(s)				
Nursing Home(s)				
Public Schools				
Private Schools				
Wastewater Treatment Plant				
Food Processing Or Other Industry				

Service / Repair Notifications

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Electric Utility Co.	Duke Energy	800-228-8485		
Electrician				
Gas / Propane Supplier				
Water Testing Lab.	Aqua Pure Lisa Saupp	352-625-2822		
Sewer Utility Co.				
Telephone Co.	Sprint	800-788-3600	611	
Plumber	Allen Curry Plumbing	352-629-7886		
Pump Supplier	Coast Pump Zane	352-620-0616	352-266-4277	Coastpumpocal@hotmail.com
"Dig Safe" or "One Call"	Sunshine One Call	800-432-4770		

Service / Repair Notifications				
Organization Or Department	**Name & Position**	**Telephone**	**Cell Phone**	**email**
Rental Equip. Supplier	B&M Rental	352-245-3133	352-245-9800	
Chlorine Supplier	Custom Controls	352-622-9244	352-304-0572	
Other Chemical Suppliers				
Radio/SCADA Repair Co.				
Bottled Water Service				
Bulk Water Supplier				
Well Drilling Co.	Earls Well Drilling David Moffitt	352-245-2324	352-817-0502	
Pipe Supplier	National Water Works Roy Sands	352-351-8144	352-266-4705	

Designated Public Spokesperson and Alternates

Designate a spokesperson (alternates) for delivering messages to the news media & public

Public Spokesperson	Name & Position	Telephone	Cell Phone
Spokesperson	Dewaine Christmas Manager	352-347-8228	352-239-1198
Alternate 1	James Hodges Jr. Supervisor	352-347-8228	352-239-1197
Alternate 2			

Key Messages

Develop possible messages in advance, and update them as the emergency develops
▪ We are aware of the emergency and are working diligently to restore your water service.

- If you fall under a boil water notice you must bring water to a rolling boil for a period of at least one minute. You only have to boil water for human cunsumption.

-

Health Advisories – Boil Water Notices

Use the assistance of your County Health Department and/or District FDEP office, and FDEP's Mandatory Health Effects Language, located on FDEP's website at:

http://www.doh.state.fl.us/environment/water/manual/boil.htm

http://www.DEP.state.fl.us/water/drinkingwater/rules.htm,

and click on "Mandatory Health Effects Language"., PLUS EPA's templates at:

http://epa.gov/safewater/pn.html

Click on "Microsoft Word and Word Perfect files of PN templates" (PN means Public Notifications), then determine which "Tier" of notifications is needed and click on the desired software to receive them in.

Section 2
Written Agreements With Other Agencies, Utilities, or Response Organizations

INSERT BELOW information regarding any written agreements with other agencies, utilities, or response organizations, such as emergency interconnects, mutual aid or FlaWARN.

Emergency Interconnect(s)

Information on the location of interconnection(s) (if any), type and size of interconnecting pipe, pumps and accessory equipment, meters at interconnection(s), normal pressures at both ends of interconnection, volume of water from interconnection(s), type of agreement and approvals needed for use, procedures necessary to use interconnection, etc.

Location (Street)	
Location (GPS)	
Description	

Memoranda of Understanding

Organization	
Summary of Understanding	

Mutual Aid Agreements

Organization	Marion Utilities, Hal McDonald 352-622-1171
Summary of Understanding	Will render mutual aide – ie: pumps, generators, and other materials necessary to restore water service.

FlaWARN

Organization	
Summary of Understanding	

Section 3
Disaster-Specific Preparedness/Response Plan

Your disaster-specific preparedness/response plan must include a Vulnerability Assessment and preparedness / response plans for: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release.

In any event there are a series of general steps to take:

1. Confirm and analyze the type and severity of the emergency.
2. Take immediate actions to save lives.
3. Take action to reduce injuries and system damage.
4. Make repairs based on priority demand.
5. Return the system to normal operation.

Vulnerability Assessment

It is essential that water systems identify and assess the vulnerability of each system component for both natural and human-caused emergencies, before preparing their disaster-specific preparedness/response plans. Prepare your Vulnerability Assessment by completing the table below:

Facility Vulnerability Assessment

System component	Description and condition	Vulnerability	Security improvements (indicate existing or proposed)
Raw Water Sources	(2) 6" groundwater wells located several hundred feet from homes. Wells are in good condition. We have wellhead protection in place.	The wells are most vulnerable to above ground activities because they are only 146 & 146 FT deep.	1.Purchase land surrounding well. 2. Secure well house to foundation and install lighting around well house.
Pump-house and pumping facilities	The pump-house and pumping facility are in good condition.	Pump location is fully fenced with a locked gate.	Install tamper proof padlocks.
Treatment Facilities	There is a hypo-chlorination system inside of pump house. System is in good condition.	Chlorination systems are not subject to power outages.	There is a backup generator on site in compliance with CH. 62-555.320(14)FAC
Storage Facilities	Hydro pneumatic tank is fenced in good condition.	Tank is not in a lighted area.	Install lighting in area of tank.
Computer and telemetry systems	Computers are in utilities main office and are in good condition.	Computers should be better protected against cyber attack or hacking.	Secure computers with firewalls & virus protection.

A. Vandalism or Sabotage Response Procedures

1. Utility staff first aware of incident:
    a) Calls 9-1-1/ Local Law Enforcement.
    b) Calls Manager
2. Manager determines severity of incident.
    a) Field supervisor determines if vandalism or sabotage will effect the water quality.
    b) Manager reports incident to the state warning point.
3. Field supervisor directs repairs as needed.
    a) Complete repairs
    b) Update ERP as needed.

B. Drought Response Procedures

Include water use restrictions per Consumptive Use Permit

1. Manager coordinates with the local Water Management District (WMD) regarding drought conditions.
    a) If drought conditions exist, a water conservation plan will be initiated.
    b) Literature will be distributed to customers regarding the drought.
    c) Conservation material will be distributed to customers on conservation measures.
    d) Customers not abiding by restrictions will be reported to WMD.
    e) Manager updates ERP as needed.

C. Hurricane Preparedness & Response Procedures

Pre- Hurricane **(36 to 48 hrs prior to arrival)**	1. Manager coordinates with local EOC. 2. Field supervisor checks operation of standby power. 3. Field supervisor secures fuel and treatment chemicals for a 10 day period. 4. Manager replenishes inventory of spare parts.
Hurricane Watch **(24 to 36 hrs prior to arrival)**	1. Manager cancels all time off for employees. 2. Manager issues work assignments in advance in case of communication loss. 3. Employees all top off fuel in vehicles & standby generators. 4. Manager authorizes employees to secure their personal property and arrange for the safety of family members.
Hurricane Warning (24hrs or less prior to arrival)	1. Employees report to designated areas and wait for instructions. 2. Employees load truck with supplies. 3. Employees follow evacuation protocol.
Recovery Procedures	1. Manager coordinates with local EOC. 2. Manager issues boil water notices if needed. 3. Field supervisor coordinates repairs. 4. Manager makes contact with the appropriate DEP office. 5. After repairs are completed samples are taken. 6. When samples come back clear – boil water notice is lifted. 7. Manager files all malfunction reports with the DEP. 8. Field supervisor inspects all systems to make sure everything is running smooth.

D. Structure Fire Response Procedures

1. Utility staff discovering fire:
    a) Evacuate structure on fire.
    b) Call 9-1-1
2. Manager determines severity of incident.
    a) Manager contact State Warning Point.
    b) Field supervisor coordinates repairs when fire is extinguished.
3. Field supervisor reports to manager when repairs are complete.
    a) Manager reports completion of all repairs to any Gov. agency.
    b) Manager updates ERP as needed.

E. Flood Preparedness & Response Procedures

(Is any critical part of your system in a flood prone area?)

None of our systems are in a flood prone area.

F. Forest or Brush Fire Response Procedures

(Is any critical part of your system subject to forest or brush fires?)

1. Utility staff discovering fire.
    a) Orders evacuation of any threatened buildings.
    b) Calls 9-1-1 to report fire.
2. Manager determines the severity of fire.
    a) Manager contacts the State Warning Point.
    b) Field supervisor inspects for any damage and coordinates repairs after fire is extinguished.
3. Field supervisor reports to manager that all repairs are complete.
    a) Manager updates the ERP as needed.
    b)

G. Hazardous Material Release Response Procedures

Do you have any hazardous material (chlorine gas) at your water system?

We have no Hazardous materials at any of our water systems.

H. Other Disaster Response Procedures

Are there other disasters that you want to prepare for, such as a Contamination event, SCADA Attack, or Structural Damage from an Intentional Act?

Contamination

1.
   a)
   b)
2.
   a)
   b)

SCADA Attack

1.
   a)
   b)
2.
   a)
   b)

Structural Damage from an Intentional Act

1.
   a)
   b)
2.
   a)
   b)

Section 4
Standby Power Requirements

Include details about how the water system meets the standby power requirements as described in Ch. 62-555.320(14), and 62-555.350(15)(d) FAC for water source, treatment, and pumping facilities necessary to deliver drinking water at a rate at least equal to the Average Daily Water Demand.

Standby Power for Wells or Surface Water Intakes

Standby Power (or by alternate means) to OPERATE WELLS at Average Daily Demand

Average Daily Demand (ADD) in gpd or gpm	22500gpd
Wells Needed to Supply Average Daily Demand	1
Standby Generator (kW) Needed for ADD &	15 KW
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	We will have reserve fuel in the case of an emergency.

Standby Power for Treatment Facilities

Standby Power (or by alternate means) to TREAT WATER at Average Daily Demand

Treatment Units Needed to Supply ADD	
Standby Generator (kW) Needed to Treat ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Standby Power for Pumps

Standby Power (or by alternate means) to PUMP WATER at Average Daily Demand

Pumps Needed to Supply ADD	
Standby Generator (kW) Needed to Pump ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Section 5
Drinking Water Treatment Chemicals & Disinfectants

Include recommendations regarding the amount of drinking water treatment chemicals, to maintain in inventory at treatment plants. Do not just list chemical storage capacity, but instead recommend the minimum amount of chemicals to maintain in inventory, which depends upon the location and reliability of chemical suppliers, the status of impending disasters, etc.

Disinfection Treatment Information

Disinfection Chemical(s)	Chemical / Location No. 1	Chemical / Location No. 2
Type of Chemical	Chlorine	
Type of Chemical Feed	Hypo-Chlorinator	
Chemical Storage Location	On site in the pump house.	
Recommended Minimum Amount to be Maintained in Storage (gal)	55 gallons	

Other Chemical Information

Chemical(s) Used	Chemical #1	Chemical #2	Chemical #3	Chemical #4
Type of Chemical				
Type of Chemical Feed				
System Location				
Chemical Storage Location				
Recommended Minimum Amount to be Maintained in Storage (gal)				

Appendix A
Basic System information

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Keep this basic information readily available for when you need it for emergency responders, repair people, the news media and potentially, an emergency operator.

Basic System Information

GPS coordinates will help emergency crews find your system following a major catastrophe.

System identification number (PWS ID)	**3424031**	
System name and address	**Florida Heights**	
GPS Coordinates	Latitude:	Longitude:
Basic description and location of system facilities	**6860 SE 53rd PL**	
Population served and service connections.	Population =	Connections = 118
System Owner	**Sunshine Utilities of Central Florida, Inc.**	
Management Authority	**Owner and Manager**	
Name, title, and phone numbers of person responsible for maintaining and implementing the ERP.	**Dewaine Christmas** **Manager**	**352-347-8228 phone** **352-239-1198 cell**

System Demand

Demand based on Monthly Operational Records and system capacity based on Sanitary Survey.

Average Daily Demand (gpd)	22500 GPD
Maximum Daily Demand (gpd)	24300 GPD
System Capacity (gpd)	144000 GPD
Peak Hour Demand (gpm)	N/A

Location of Pertinent Information

Item	Location
Distribution System Map	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
O&M Manual(s)	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
Start-Up / Shut-Down Procedures	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.

Well Information

GPS coordinates will help emergency crews find wells following a major catastrophe.

Well Information	Well No. 1	Well No. 2	Well No. 3	Well No. 4
GPS well tag #				
Location (street)	6860 SE 53rd Pl	6860 SE 53rd Pl		
GPS Coordinates	Lat: Long:		Lat: Long:	Lat: Long:
Well Depth (ft)	146 FT	146 FT		
Well Yield (gpd)	144000 GPD	1728000		
Pump Type	Submersible	Submersible		
Manufacturer	Sta-Rite	Sta-Rite		
Capacity (gpm)	230 GPM	230 GPM		
Motor Manufacturer	Franklin	Franklin		
Horsepower	5 HP	10 HP		
Phase	1	1		
Volts/Amps	230 volts	230 volts		

Surface Water Sources

GPS coordinates will help emergency crews find surface water intakes following a major catastrophe.

Surface Water Information	Intake No. 1	Intake No. 2
Location (Street / Description)		
GPS Coordinates	Lat: Long:	Lat: Long:
Critical Water Level		

Finished Water Storage

GPS coordinates will help emergency crews find tanks following a major catastrophe.

Name of Storage Unit	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Location (Street)				
Location (GPS)	Lat: Long:	Lat: Long:	Lat: Long:	Lat: Long:
Type (ground, elevated, etc.)				
Capacity (gal)				
Empty Elevation				
Overflow Elevation				

High Service Pumps

HSP	HSP No. 1	HSP No. 2	HSP No. 3	HSP No. 4
Location (street)				
Pump Type				
Manufacturer				
Capacity (gpm)				
Motor Manufacturer				
Horsepower				
Phase				
Volts/Amps				

Other Applicable Information

Appendix B
Training and Rehearsals

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Event	Description	People & Organizations Involved	Date

Appendix C
Plan Approval

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Plan Approval

This plan is officially in effect when reviewed, approved, and signed by the following people:

Name / Title	Signature	Date
Hodges Family Trust		

APPENDIX C: CONSUMER CONFIDENCE REPORT

Certification of Delivery of Consumer Confidence Report

GENERAL INSTRUCTIONS: This form shall be completed by all community water systems (CWSs) that have prepared a Consumer Confidence Report (CCR) in accordance with Rule 62-550.824, F.A.C., Consumer Confidence Reports. At the end of this form is a certification in which a system's authorized representative shall certify that the reported information is accurate and is in conformance with Rule 62-550.824, F.A.C. **COMPLETE THIS FORM AND SUBMIT IT BY AUGUST 10,** together with a copy of your system's CCR, sample email or water bill (with URL notification of CCR, if applicable), and any newspaper notice(s) and posted notice(s) of your CCR, to the appropriate DEP district office or Approved County Health Department (ACHD). Systems serving 100,000 or more persons posting their CCRs on publicly accessible Internet sites shall provide the information on the appropriate Internet link(s). All information provided on this form must be typed or printed in ink.

I. General Water System Information. (To be completed by all community water systems.)

System name: Florida Heights Contact person: Dewaine Christmas

PWS Identification number (PWS ID): 3424031 Contact phone number: (352)347-8228

Mailing address: 10220 East Hwy 25 City: Belleview

State: Fl Zip: 34420-5531 Population served (not the number of "service connections"): _____

II. CCR Distribution Method. (To be completed by all community water systems. Choose A or B as appropriate.)

☐ A. We mailed, emailed, or otherwise directly delivered a copy of our CCR to each customer on _____ (enter date(s) of mailing or delivery) using the method(s) checked below:

- ☐ a. **Mailed** CCR
- ☐ b. **Mailed** notice (e.g. water bill) with **direct URL** to the CCR
- ☐ c. **Emailed** CCR as an **embedded** image or as an **attachment**
- ☐ d. **Emailed** notice with a **direct URL** to the CCR
- ☐ e. **Otherwise directly delivered** CCR to every customer. Explain: _____

☑ B. We were eligible to use a mailing waiver and used a mailing waiver. (Systems are eligible to use a mailing waiver only if they serve fewer than 10,000 persons, have not had any MCL or monitoring and reporting (M/R) violations, nor have been issued any formal Notices of Violations (NOVs), Consent Orders, Administrative Orders, or court-ordered civil actions during the calendar year before the year the CCR is due to the customers).

Answer a, b, **and** c below.)

- ☐ a. Date of newspaper: _____
- ☐ b. Name of newspaper/newsletter that published our CCR: _____
- ☑ c. A copy of our notice to customers, informing them that our CCR will not be mailed to them, is attached.

This notice was: ☑ mailed with bill; ☐ published in newspaper/newsletter; or ☐ other (describe)

_____

III. Posting of CCR on the Internet. (To be completed by all CWSs serving 100,000 or more persons.)

We posted our CCR on this publicly accessible internet site: _____

IV. Report on Your Effort to Distribute Your CCR to Your Water Consumers. (To be completed by all CWSs. Check all items that apply - at least one item must be checked.)

In addition to the methods selected in Part II,

■ A. We posted our CCR on this publicly accessible internet site: www.sunshineutilities.org

☐ B. We published our CCR in the local newspaper(s). The name(s) and date(s) of the newspaper(s) are:

_____

RECEIVED
JUL 10 2020
DEP Central District

☐ C. We advertised the availability of our CCR as a press release, radio announcement, or TV announcement. The type(s) and date(s) of the advertisement(s) are: _____

☐ D. We delivered multiple copies of our CCR to single bill addresses serving several persons.

☐ E. We delivered multiple copies of our CCR to the following community organizations:

_____

☐ F. Our CCR was posted in the following public locations: _____

_____

☒ G. Our CCR was distributed by other methods (e.g., additional copies placed in entrance hall to facility). Describe.

Additional copies available at Sunshine Utilities Office

_____

V. Use of Non-English Language in CCR. (To be completed by all community water systems.)

☐ Information in a non-English language was included in our CCR because 20% or more of our customers do not speak English but speak _____. The method we used to determine the proportion of non-English speaking customers is _____

☒ This requirement does not apply to our system, because we have no non-English speaking group among our customers equal to or exceeding 20% of our total number of customers.

VI. Other Delivery Requirements. (To be completed by all community water systems.)

(A) Was a copy of your CCR sent to your county health department, as required by rule? ☒ Yes ☐ No

(B) Is your system regulated by the Public Service Commission (PSC)? ☐ Yes ☐ No

If Yes, was a copy of your CCR sent to the PSC, as required by rule? ☒ Yes ☐ No

(C) If your system sells water to other systems, have you provided them with either a copy of your CCR or the required consumer confidence information? ☒ Yes ☐ No ☒ Not Applicable

VII. Certification of Delivery of CCR and Compliance with Regulations. (To be completed by all CWSs.)

This statement certifies that the above named community public water system has distributed its CCR for the time period starting ***January 1, 2019, and ending December 31, 2019*** to its customers on _____ (mm/dd/yy) and provided the appropriate notices of availability according to the requirements listed in this form, which are also found in Rule 62-550.824, F.A.C. This statement also certifies that the reported information is correct and consistent with the compliance monitoring data for the same period previously submitted to the Department, and that the report has been delivered to the agencies identified in Rules 62-550.824(3)(e)3., and 4., F.A.C.

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____

NAME (please print): Dewaine Christmas

TITLE: Manager DATE: 4/26/20

☒ **A copy of our CCR is attached, and**

☐ **If using electronic delivery, a copy of our sample email or notice (e.g. water bill), with URL leading directly to the CCR and not a general information website, is attached. For example, if you are using the FRWA website to post your CCR, your URL would be:**

www.frwa.net/2012-Your PWSID Number.pdf (www.frwa.net/2012-0000000.pdf).

SUNSHINE UTILITIES
10230 East Highway 25
Belleview, Florida 34420

Drinking Water Quality Report

Annual Drinking Water Quality Report for 2019

Florida Heights

Florida Department of Environmental Protection Public Water System ID # 3424031

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

The source of our water is groundwater from two wells located in the community. The wells draw from the Floridan aquifer, one of the world's most protected sources. Our water is chlorinated for disinfection purposes. In 2019 the Florida Department of Environmental Protection conducted an assessment which identifies potential sources of contamination in the vicinity of our wells. The SWAPP (Source Water Assessment and Protection Program) determined our public water system to have no potential sources of contamination. You may obtain more information at the web site *www.dep.state.fl.us/swapp.*

If you have any questions about this report or concerning your water utility please contact **Dewaine Christmas, at Sunshine Utilities, (352) 347-8228,** during normal business hours. We encourage our valued customers to be informed about their water utility.

Sunshine Utilities routinely monitors for constituents in your drinking water according to Federal and State laws, rules and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2019. Data obtained before January 1, 2019 and presented in this report are from the most recent testing performed in accordance with the laws, rules and regulations.

WATER QUALITY TEST RESULTS FOR FLORIDA HEIGHTS

Inorganic Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Arsenic	(ppb)	NOV '18	No	0.4	N/A	N/A	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	(ppm)	NOV '18	No	0.0042	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride	(ppm)	NOV '18	No	0.11	N/A	4	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum levels between 0.7 and 1.2 ppm
Nitrate (as Nitrogen)	(ppm)	DEC'19	No	1.73	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium	(ppb)	NOV '18	No	0.6	N/A	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium	(ppm)	NOV '18	No	9.3	N/A	N/A	160	Salt water intrusion; leaching from soil

Stage 2 Disinfectants and Disinfection By-Products

Disinfectant or Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL or MRDL Violation Yes / No	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine	(ppm)	2019	No	1.1	0.8 - 1.8	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Total trihalomethane (TTHM)	(ppb)	AUG '18	No	2.64	N/A	N/A	MCL = 80	By-product of drinking water disinfection

Lead and Copper (Tap Water)

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	AL Violation Yes / No	90th Percentile Result	No. of Sampling Sites Exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper	(ppm)	JUL '18	No	0.215	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

In the table you may find unfamiliar terms and abbreviations. To help you better understand these terms we have provided the following definitions (please note not all definitions may pertain to your report):

- Action Level (AL) – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial growth.
- Maximum Residual Disinfectant Level Goal (MRDLG) – The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.
- ND – This abbreviation means not detected and indicates that the substance was not found by laboratory analysis.
- Parts per million (ppm) or milligrams per Liter (mg/L) - one part of analyte (by weight) to 1 million parts of water sample (by weight).
- Parts per billion (ppb) or micrograms per Liter (µg/L) - one part of analyte (by weight) to 1 billion parts of water sample (by weight).
- Picocurie per liter (pCi/L) - measure of the radioactivity in water.

What does this mean?

As you can see our system had no violations. We're very proud that your drinking water meets all Federal and State requirements.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Sunshine Utilities is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals, and in some cases radioactive material, and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

A.) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

B.) Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

C.) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

D.) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

E.) Radioactive contaminants, which may be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The FDA (Food & Drug Administration) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care providers about their drinking water. EPA/CDC (Center for Disease Control) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are also available from the Safe Drinking Water Hotline (800-426-4791).

We are committed to ensuring the quality of your water. If you have any questions or concerns about the information provided, please feel free to call the numbers listed.

Sunshine Utilities

10230 East Highway 25, Belleview, FL 34420
Office (352)347-8228 – Fax (352)347-6915

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality of water and services we deliver to you everyday. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

Please follow the link to view your 2019 Annual Water Quality Report.

https://www.sunshineutilities.org/ccr19/2019FloridaHeights.pdf

APPENDIX D: SANITARY SURVEY REPORT

State of Florida
Department of Environmental Protection
Central District

SANITARY SURVEY REPORT

Plant Name **FLORIDA HEIGHTS SUBDIVISION** County Marion PWS ID # **3424031**
Plant Location SE 55TH Place & SE 68th Court, Ocala, FL 34471 Phone 352-347-8228
Owner Name Sunshine Utilities of Central Florida, Inc. Phone 352-347-8228
Owner Address 10230 SE Highway 25, Belleview, FL 34420-5531
Contact Person Dewaine Christmas Title Owner Phone 352-347-8228
This Survey Date 1/23/18 Last Survey Date 1/23/15 Last Compliance Inspection Date 8/29/14

PWS TYPE: Community

PLANT CATEGORY & CLASS: 5D

MAX-DAY DESIGN CAPACITY: 144,000 gpd

PWS STATUS: Approved

TREATMENT PROCESSES IN USE
Hypochlorination

SERVICE AREA CHARACTERISTICS
Subdivision
Food Service: ☐ Yes ☐ No ☒ N/A

Number of Service Connection 99
Population Served 346 Basis: 12/17 MOR

OPERATION & MAINTENANCE LOG: Yes
Location Water treatment plant
Comments

CERTIFIED OPERATOR: Yes
Operator(s) & Certification Class-Number:
Kelvin Edun C-7459

Hrs/day: *Required* Visit *Actual* Visit
Days/wk: *Required* 3 *Actual* 3
Non-consecutive Days? ☒ Yes ☐ No ☐ N/A
Comments

MONTHLY OPERATION REPORTS (MORs)
MORs submitted regularly? ☒ Yes ☐ No ☐ N/A
Data missing from MORs? ☒ No ☐ Yes ☐ N/A
Average Day (from MORs) 29,714 gpd
Maximum Day (from MORs) 89,800 gpd 5/17
Comments

Flow Measuring Device Flow Meter
Meter Size & Type 3" Kent & 3" Master
Date Last Calibrated 7/23/15

RAW WATER SOURCE
☒ GROUND; Number of Wells 2
☐ PURCHASED from PWS ID #
☐ Emergency Water Source
Emergency Water Capacity

STANDBY POWER SOURCE: Not Required
Source
Capacity of Standby (kW)
Switchover: ☐ Automatic ☐ Manual
Hrs Operated Under Load
What equipment does it operate?
☐ Well Pumps
☐ High Service Pumps
☐ Treatment Equipment
Satisfy avg. daily demand? ☐Yes ☐No ☐Unknown
Audio-visual alarm? ☐Yes ☐No
Comments

PLANS AND MAPS

Coliform Sampling Plan	☒ Yes	☐ No	☐ N/A
D/DBP Monitoring Plan	☒ Yes	☐ No	☐ N/A
Lead and Copper Plan	☒ Yes	☐ No	☐ N/A
Distribution System Map	☐ Yes	☐ No	☒ N/A
Emergency Response Plan	☐ Yes	☐ No	☒ N/A

Comments Stage 2 D/DBP Plan was submitted 8/20/14. Lead and Copper Plan was approved 10/10/12.

PREVENTIVE MAINTENANCE/O&M

Operation & Maintenance Manual	☒ Yes	☐ No	
Preventive Maintenance Program	☒ Yes	☐ No	
Flushing Program	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A
Isolation Valve Exercise	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A

Comments

CROSS CONNECTION CONTROL
BFPAs None reported # Tested N/A
WWTP RPZ N/A Date Tested N/A
Written Plan Yes Date 2/15/10
Comments

PWS ID # 3424031
Date 1/23/18

GROUND WATER SOURCE

Well Number (Florida Unique Well ID #)		**1(AAC0020)**	**2(AAC0019)**
Year Drilled		1980	1980
Depth Drilled		146’	146’
Drilling Method		Combination	Combination
Type of Grout		Neat cement	Neat cement
Static Water Level		31’	31’
Pumping Water Level		Unknown	Unknown
Design Well Yield		Unknown	Unknown
Test Yield		Unknown	Unknown
Actual Yield (if different than rated capacity)		Unknown	Unknown
Strainer		Unknown	Unknown
Length (outside casing)		74’	66’
Diameter (outside casing)		6”	6”
Material (outside casing)		Black steel	Black Steel
Well Contamination History		None	None
Is inundation of well possible?		No	No
6’ X 6’ X 4” Concrete Pad		Yes	Yes
SET BACKS	Septic Tank	>200’	>200’
	Reuse Water	N/A	N/A
	WW Plumbing	>100’	>100’
	Other Sanitary Hazard	None observed	None observed
PUMP	Type	Submersible	Submersible
	Manufacturer Name	Sta-Rite	Sta-Rite
	Model Number	Unknown	Unknown
	Rated Capacity (gpm)	100	100
	Motor Horsepower	5	5
Well casing 12” above grade?		Yes	Yes
Well Casing Sanitary Seal		Yes	Yes
Raw Water Sampling Tap		Yes	Yes
Above Ground Check Valve		Yes	Yes
Security		Yes	Yes
Well Vent Protection		Yes	Yes*No

COMMENTS _____

PWS ID # 3424031
Date 1/23/18

CHLORINATION (Disinfection)
Type: ☐ Gas ☒ Hypo
Make (1)Chem-Tech (1)Uni-Dose Capacity 15/12 gpd
Chlorine Feed Rate 75% and 70% of stroke
Avg. Amount of Cl_2 gas used N/A
Chlorine Residuals: Plant >2.2 Remote >2.2
Remote tap location 6815 SE 55th Place
DPD Test Kit: ☐ On-site ☒ With operator
☐ None ☐ Not Used Daily
Injection Points Prior to the hydropneumatic tank.
Booster Pump Info N/A
Comments

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

Tank Type/Number	**H***
Capacity (gal)	
Material	
Gravity Drain	
By-Pass Piping	
Protected Openings	
Sight Glass or Level Indicator	
PRV/ARV	
Pressure Gauge	
On/Off Pressure	
Access Secured	
Access Manhole	
Tank Sample Tap Location	
Date of Inspection	
Date of Cleaning	

Comments *****Tank ruptured 12/29/17. A community wide boil water noticed was issued on 12/29/17 and rescinded on 1/4/18.Currently there is a temporary tank in place pending the installation of the new tank.

DEFICIENCIES:

No deficiencies were noted during this inspection.

MONITORING REMINDER:

- Nitrate and nitrite samples are required to be collected from the point of entry (POE) to the distribution system annually. The 2018 results have not been received.
- The consumer confidence report (CCR) must be delivered to consumers and the Department no later than July 1, 2018, and certification of delivery of the CCR must be submitted to the Department no later than August 10, 2018.
- Monitoring schedules are available on the Central District's Drinking Water Website. https://floridadep.gov/central/central/content/resources-drinking-water-facilities-and-operators-central-district

COMMENTS:

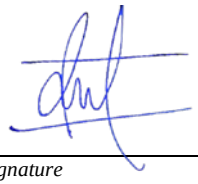
- Contact FRWA (Florida Rural Water Association) at 850-668-2746, or frwa@frwa.net, for free technical assistance with your system. FRWA has extended benefits offered to members.
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.

  Checking the calibration of finished-drinking-water meters at treatment plants shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water. [Rule 62-555.350(2), F.A.C.]
- Suppliers of water shall submit written notification to the Department before beginning work or alterations to the public water system. Each notification shall be submitted to the appropriate Department of Environmental Protection District Office or Approved County Health Department and shall include the following: a description of the scope, purpose, and location of the work or alterations; and assurance that the work or alterations will comply with applicable requirements listed in Rule 62-555.330, F.A.C. Suppliers of water may begin such work or alterations 14 days after providing notification to the Department unless they are advised by the Department that the notification is incomplete or that a construction permit is required.
- Suppliers of water shall telephone the SWO at 1-800-320-0519 immediately (i.e., within two hours) after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving a public water system. [Rule 62-555.350(10)(a), F.A.C.]
- Suppliers of water shall telephone, and speak directly to a person at, the appropriate DEP District Office as soon as possible, but never later than noon of the next business day, in the event of any of the following emergency or abnormal operating conditions:
  - The occurrence of any abnormal color, odor, or taste in a public water system's raw or finished water;
  - The failure of a public water system to comply with applicable disinfection requirements; or
  - The breakdown of any water treatment or pumping facilities, or the break of any water main, in a public water system if the breakdown or break is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(b), F.A.C.]
- Suppliers of water shall notify affected water customers in writing or via telephone, newspaper, radio, or television; and telephone, and speak directly to a person at, the appropriate DEP District Office by no later than the previous business day before taking PWS components out of operation for planned maintenance or repair work if the work is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(d), F.A.C.]

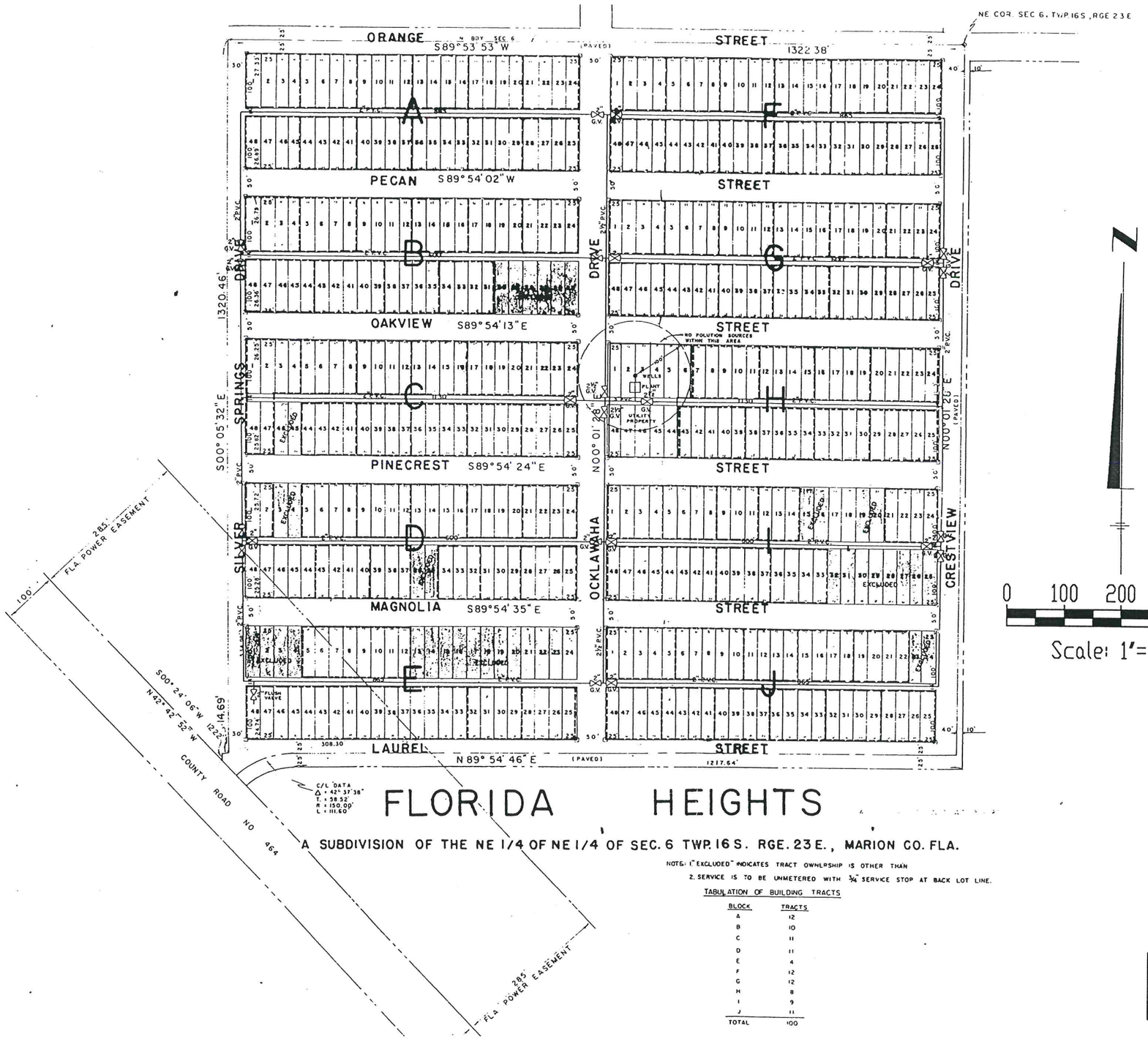
PWS ID # 3424031
Date 1/23/18

COMMENTS (continued):

- Suppliers of water shall issue precautionary "boil water" notices as required or recommended in the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(11), F.A.C.]

	Christine Daniel
Inspector Signature	*Reviewer Signature*
Viviana Penuela Useche	Christine Daniel
Printed Name	*Printed Name*
Environmental Specialist	Environmental Manager
Title	*Title*
2-21-18	3/1/18
Date	*Date*

APPENDIX E: DISTRIBUTION MAP



FLORIDA HEIGHTS

A SUBDIVISION OF THE NE 1/4 OF NE 1/4 OF SEC. 6 TWP. 16 S. RGE. 23 E., MARION CO. FLA.

NOTES: 1. "EXCLUDED" INDICATES TRACT OWNERSHIP IS OTHER THAN
2. SERVICE IS TO BE UNMETERED WITH ¾" SERVICE STOP AT BACK LOT LINE.

TABULATION OF BUILDING TRACTS

BLOCK	TRACTS
A	12
B	10
C	11
D	11
E	4
F	12
G	12
H	8
I	9
J	11
TOTAL	100

THIS DRAWING IS A COPY OF AN ORIGINAL OBTAINED FROM SUNSHINE UTILITIES, INC.

H.W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17th ST. SUITE 502 OCALA, FLORIDA 34471
FAX (352) 840-9688
(352) 840-9774

FLORIDA HEIGHTS
SUNSHINE UTILITIES INC.
OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PMM	HWB	11 APR 97	ORIGINAL ISSUE

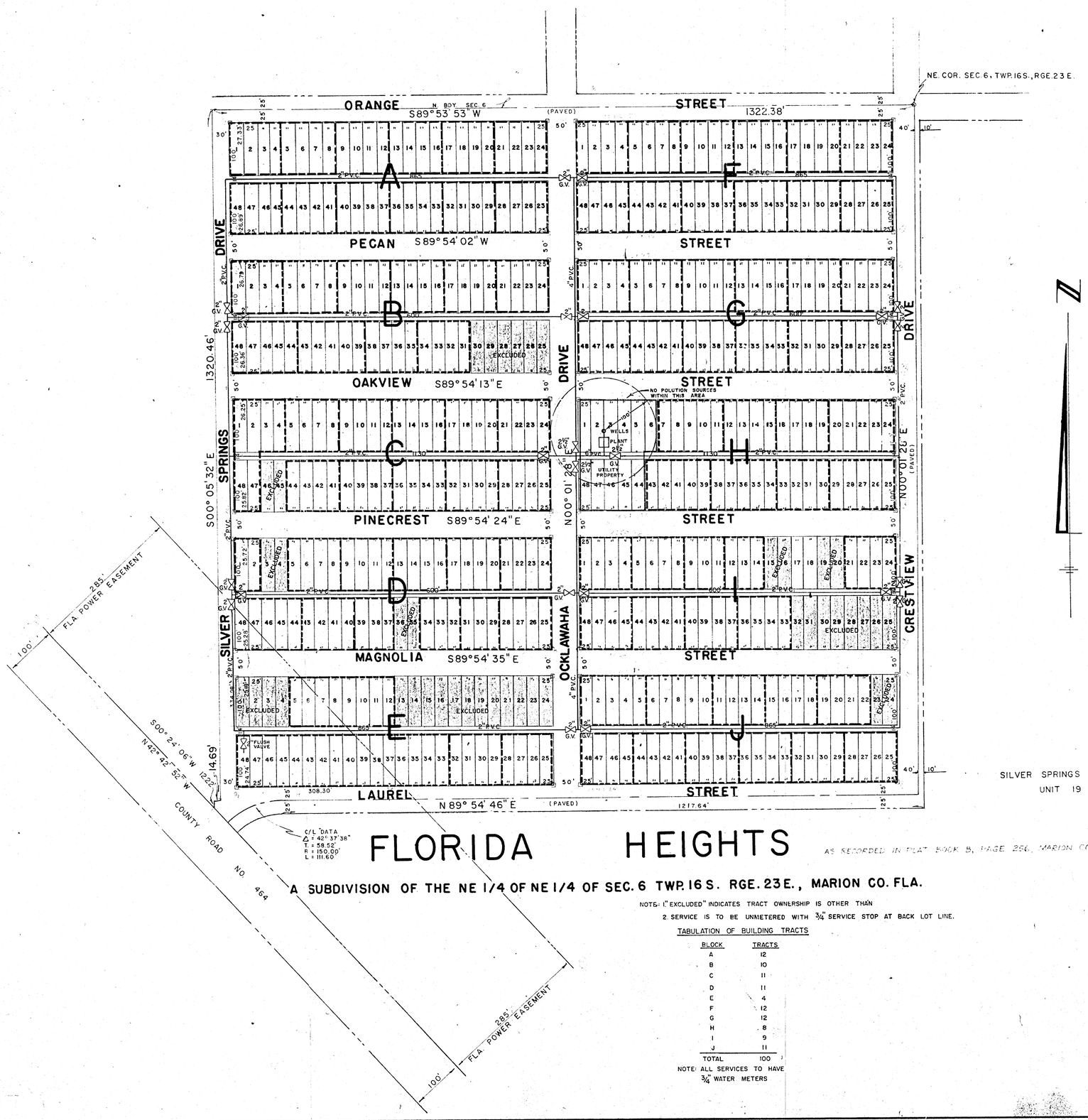
Project No. 9636-02

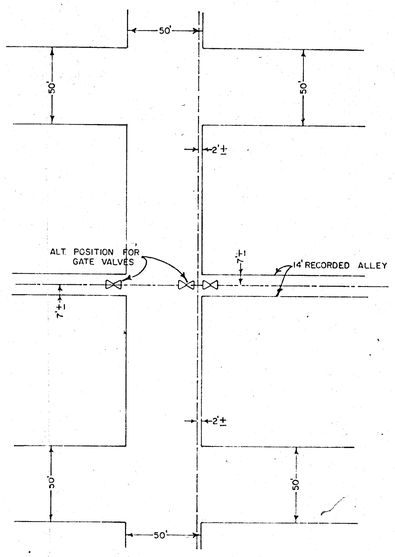
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Sheet 1 Of 1

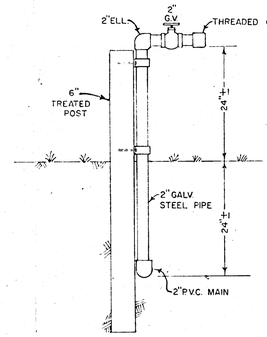
APPENDIX F: AS-BUILT PLANS

SILVER SPRINGS SHORES
UNIT 19





TYPICAL LOCATION DETAIL
(NOT TO SCALE)



TYPICAL FLUSH VALVE DETAIL
(NOT TO SCALE)

FLORIDA HEIGHTS

AS RECORDED IN PLAT BOOK B, PAGE 256, MARION COUNTY, FLORIDA

A SUBDIVISION OF THE NE 1/4 OF NE 1/4 OF SEC. 6 TWP. 16 S. RGE. 23 E., MARION CO. FLA.

NOTE: 1. "EXCLUDED" INDICATES TRACT OWNERSHIP IS OTHER THAN
2. SERVICE IS TO BE UNMETERED WITH ¾" SERVICE STOP AT BACK LOT LINE.

TABULATION OF BUILDING TRACTS

BLOCK	TRACTS
A	12
B	10
C	11
D	11
E	4
F	12
G	12
H	8
I	9
J	11
TOTAL	100

NOTE: ALL SERVICES TO HAVE ¾" WATER METERS

□ = 4X4 CONC. MON.

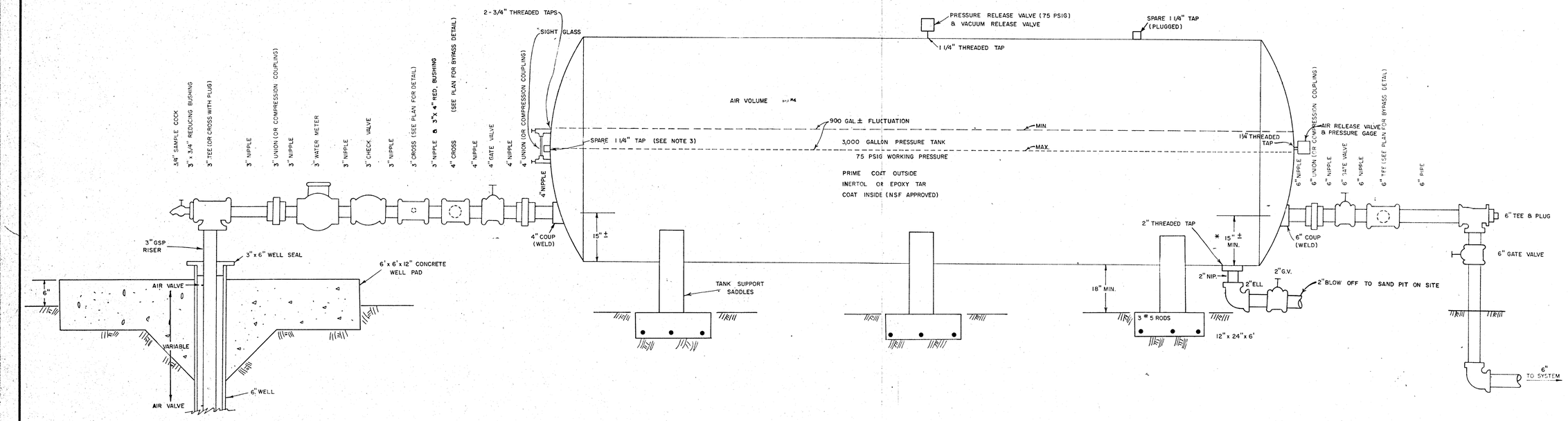
RECEIVED
JUN 1980
Saint Johns River Water Management District

GORDON ENGINEERING ASSOCIATES INC.
1815 N. JAX. ROAD OCALA, FLORIDA

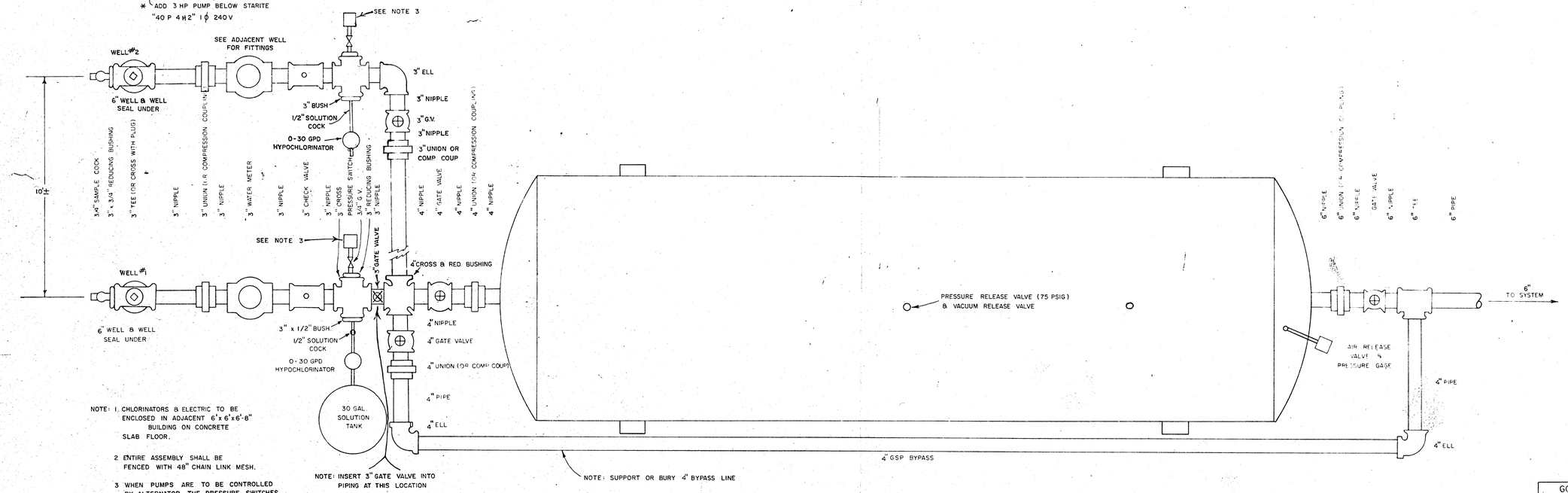
WATER SYSTEM
FOR
FLORIDA HEIGHTS
COUNTY ROAD NO 464 MARION CO. FLORIDA

DATE: APRIL 18, 1980 REVISED: 6/25/80		REF.
SCALE: 1" = 100'		
DRAWN: R.W.L.		
CHECKED: A.W.G.		

TER FORM 1980



* VARY UPWARD TO ACCOMMODATE MANHOLE DIMENSIONS



NOTE: 1. CHLORINATORS & ELECTRIC TO BE ENCLOSED IN ADJACENT 6'x 6'x 6'-8" BUILDING ON CONCRETE SLAB FLOOR.

2 ENTIRE ASSEMBLY SHALL BE FENCED WITH 48" CHAIN LINK MESH.

3 WHEN PUMPS ARE TO BE CONTROLLED BY ALTERNATOR, THE PRESSURE SWITCHES SHALL BE RELOCATED ONTO THE PRESSURE TANK. PREFERRED LOCATION IS THE 1¼" SPARE TAP ADJACENT TO THE SITE GAGE.

ARCHIE W. GORDON PROFESSIONAL ENGINEER
FLORIDA REGISTRATION NO. 3430

GORDON ENGINEERING ASSOCIATES, INC.
1815 N.E. JAX ROAD OCALA, FLORIDA

WATER SYSTEM FOR FLORIDA HEIGHTS

COUNTY ROAD NO. 464 MARION CO. FLORIDA

DATE: MARCH 18, 1980	REVISED: JUNE 25, 1980
SCALE: DIMEMSIONS AS SHOWN	
DRAWN: R.L.C.	
CHECKED: A.W.G.	SHEET OF



woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Floyd Clark Subdivision

210 South Florida Avenue | Suite 220
Lakeland, Florida 33801
800.426.4262

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

0233748.01
CSWR
July 2021

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Figure 2-7: Unscreened Well Vent
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APPENDICES

Appendix A: Source Water Assessment & Protection Program Results
Appendix B: Tank Inspection Report
Appendix C: Emergency Response Plan
Appendix D: Consumer Confidence Report
Appendix E: Sanitary Survey Report
Appendix F: Distribution Map

APPENDIX A: SOURCE WATER ASSESSMENT & PROTECTION PROGRAM RESULTS

» SWAPP Homepage
» Search By County
» Search by PWS Name or Number
» How to Help?

Definitions

» Aquifers
» Public Water Systems
» Assessment
» Potential Contaminants
» Susceptibility
» Prevention

Contact Us

» Email
» Mailing Address
» Source Water Protection Workshop

EPA Source Water Protection website

Source Water Assessment & Protection Program

Results for: 2019

FLOYD CLARK SUBDIVISION
NE 38TH ST.& 14TH AVE.
OCALA, FL 34471

Public Water System ID: 3420411
County: MARION
DEP Regulatory Office: DEP Central District
3319 Maguire Blvd, Suite 232
Orlando, FL 32803
407-897-4100
Public Water System Type : COMMUNITY
Public Water System Source : GROUND
Primary Use: SUBDIVISION
Population Served: 251
Size of Assessment Area:
GROUND: For this system, a 1000-foot radius circle around each well was used to define the assessment area.

Number of Wells: 1

Well ID	Owner ID	FLUWID	Status	Well Depth(ft)	Aquifer
5509	FLOYD CLARK SUBDIV WELL	N/A	ACTIVE	80	Floridan Aquifer

Results:

GROUND WATER:
A search of the data sources indicated no potential sources of contamination.

Last updated: February 19, 2020

Accessibility Information

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Exit Disclaimer
Privacy Statement

3900 Commonwealth Boulevard M.S. 49
Tallahassee, Florida 32399
850-245-2118 (phone) /
850-245-2128 (fax)

APPENDIX B: TANK INSPECTION REPORT

INSPECTION AND TESTING of HYDROPNEUMATIC TANK

Floyd Clark Subdivision Tank

Pursuant to Chapter 62-555.350 (1) & (2) F.A.C

Water System:	Floyd Clark Subdivision
Street Address:	NE 38th Street & NE 14th Avenue
City, State:	Ocala, Florida
Phone:	352-347-8228
Contact:	Dewaine Christmas
E-mail:	sunshineutl@aol.com
PWS ID No.:	3420411
County:	Marion
Classification:	Community
Source:	Ground
Ownership:	Sunshine Utilities of North Central Florida
Date:	December 6, 2018

Inspection and Testing by:

Robert M. Couch III, P.E.
ENVIRO-TECH, Inc.
15290 SE Highway 42, PO Box 152
Weirsdale, FL 32195
Telephone: 352-694-1799
E-mail: envirotech@ymail.com



C.O.A. No. 8692 Registration No. 55311

Robert M. Couch III, P.E.

Digitally signed by Robert M. Couch III, P.E.
DN: cn=Robert M. Couch III, P.E., o=ENVIRO-TECH, Inc., ou=Reg. No. 55311, email=envirotech@ymail.com, c=US
Date: 2019.01.05 23:34:46 -05'00'

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1.0 EXECUTIVE SUMMARY

ENVIRO-TECH, Inc. was contracted to perform the five year tank condition inspection on the above mentioned hydro-pneumatic tank.

This condition inspection was performed on December 6, 2018 by Robert M. Couch III, P.E. on the above referenced water tank. The tank was drained and, an internal and external inspection was performed to assess the tank condition as required by the Florida Department of Environmental Protection (FDEP) Rule 62-555.

The tank shell and heads appeared to be in overall fair structural condition. Ultrasonic Thickness Measurement (UTM) readings indicated that the average thickness of the tank shell at the time of the field inspection was approximately 6.17 millimeters. UTM readings from the tank heads indicated an average thickness of 5.92 millimeters. The exterior coating of the tank appeared to be in overall good condition with no notable surface corrosion. The interior coating of the tank appeared to be in overall fair condition. The coating on the tank interior had begun to fail and corrosion was noted on the tank floor and walls.

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 65 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 59 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

2.0 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS CHAPTER 62-555.350 (1) & (2)

2.1 Operation and Maintenance of Public Water Systems

(1) Suppliers of water shall operate and maintain their public water systems so as to comply with applicable standards in Chapter 62-550, F.A.C., and requirements in this chapter.

(2) Suppliers of water shall keep all necessary public water system components in operation and shall maintain such components in good operating condition so the components function as intended. Preventive maintenance on electrical or mechanical equipment – including exercising of auxiliary power sources, checking the calibration of finished-drinking-water meters at treatment plants, testing of air or pressure relief valves for hydropneumatic tanks, and exercising of isolation valves –shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water; however, in no case shall auxiliary power sources be run under load less frequently than monthly. Accumulated sludge and biogrowths shall be cleaned routinely (i.e., at least annually) from all treatment facilities that are in contact with raw, partially treated, or finished drinking water and that are not specifically designed to collect sludge or support a biogrowth; and blistering, chipped, or cracked coatings and linings on treatment or storage facilities in contact with raw, partially treated, or finished drinking water shall be rehabilitated or repaired. **Finished-drinking-water storage tanks, including conventional hydropneumatic tanks with an access manhole but excluding bladder- or diaphragm-type hydropneumatic tanks without an access manhole, shall be checked at least annually to ensure that hatches are closed and screens are in place; shall be cleaned at least once every five years to remove biogrowths, calcium or iron/manganese deposits, and sludge from inside the tanks; and shall be inspected for structural and coating integrity at least once every five years by personnel under the responsible charge of a professional engineer licensed in Florida.** Dead-end water mains conveying finished drinking water shall be flushed quarterly or in accordance with a written flushing program established by the supplier of water; additionally, dead-end or other water mains conveying finished water shall be flushed as necessary whenever legitimate water quality complaints are received.

2.2 Location of Inspection and Testing Report

Pursuant to Chapter 62-555.350 (2) and 62-555.350 (12) FAC, beginning 28 August 2003, all water systems regardless of size must maintain a copy up-to-date Preventive Maintenance Logs of each water system in the water facility office. The Preventive Maintenance Logs must show the date and type of all maintenance performed and comply with Rule 62-555.350 (2) and 62-555.350 (12), which requires the following:

- Preventive Maintenance Logs on Electrical and Mechanical Equipment
- Cleaning and Inspection Logs of Treatment Facilities and Storage Tanks
- Records of Coatings and Linings Rehabilitation or Repair
- Licensed Engineer Inspection Report (once every 5-years) for Finished-Drinking-Water Storage Tanks and Hydropneumatic Tanks
- Written Flushing Program and Logs showing that Dead-End Water Mains are being flushed at least quarterly
- Isolation Valves Exercise Logs

A copy of this report should be kept with these records.

3.0 HYDROPNEUMATIC PRESSURE TANK INSPECTION AND TEST PROCEDURES

This Inspection and Test Procedures is used as a reference in the overall inspection and testing of this Water System. This procedure is to be updated from time to time to reflect physical and procedural changes to the water system.

Inspection and testing of this tank was conducted by Robert M. Couch III, P.E. with the assistance of Jim Hodges Jr. of Sunshine Utilities of North Central Florida, Inc. The following inspection and testing procedures for hydropneumatic pressure tanks were used:

3.1 Pre-Test Procedures

1. If water service is to be interrupted customers must be notified in advance and if appropriate, boil water notices issued.

2. Turn-off all electrical power to well pumps, air motors, chlorination equipment, etc.

3. Open drain valve to empty tank. This is also a good time to check the valves (exercise them) that isolate the tank to see if they are in fact working as they should. This downtime can also be used to replace a valve if needed.

4. Once depressurized, the site glass is inspected for proper operation.

5. Once the tank is drained, the manway (hatch) will need to be removed for inspection of the interior.

3.2 Visual Inspection

6. Perform visual inspection of the tank exterior and accessories for presence of leaks, shell distortion, signs of settling, deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, accessories, etc.

7. Tank layout and physical measurements

8. Color photographs of the tank exterior and all of the essential appurtenances

9. Perform visual inspection of the tank interior for presence of deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, bio-growths, calcium or iron/manganese deposits, sludge, etc.

3.3 Nondestructive Examination

10. The tank interior coating is then examined for dry film thickness (See PosiTest® DFT Coating Thickness Gauge measurement) or equivalent.

11. The tank exterior is then examined for thickness measurements (See Smart Sensor AR 850+ Ultrasonic Thickness Gauge measurement).

12. If deemed necessary, the tank exterior (or interior) is then examined for porosity, pinholes and leaks (See PCWI porosity detection test, also known as holiday detector test).

3.4 Post-Test Procedures

13. Any coating problems detected should be corrected while the tank is out of service in order to avoid further extensive downtime.

14. Once the tank is inspected and all maintenance items are taken care of, the tank will need to be disinfected prior to placing back in use.

15. Once the tank has been disinfected, bacteriological tests must be performed on water samples (2 per FDEP) taken from the tank discharge. FDEP to clear for service prior to placing back in service.

3.5 Safety of Test Area

The test area should be restricted and barricaded. The porosity testing instrument output can be up to 20,000 volts. Testing should be carried out well clear of personnel not involved in the testing procedure. Should accidental contact be made with the test electrode, the recipient will receive a mild shock. This equipment should never be used by a person with a pacemaker.

4.0 TEST EQUIPMENT DESCRIPTIONS

4.1 AR 850+ Ultrasonic Thickness Gauge



The Smart Sensor AR 850+ Digital Ultrasonic Thickness Gauge is an economical, user-friendly, menu driven, and multi-functional unit offering extensive features from basic measurements to extended memory. This dynamic series of UT gauges is designed to measure the thickness of metallic and non-metallic materials such as steel, aluminum, titanium, plastics, ceramics, glass and any other good ultrasonic wave conductor as long as it has parallel top and bottom surfaces. The AR 850+ gauges will accurately display readings in millimeters after a simple calibration to a known Thickness or sound velocity.

4.1.1 Features

- Main Unit
- Transducer 5 MHz / 2.5 MHz
- Integrated steel calibration plate 4.0mm
- Batteries (2 x AAA)
- Ultrasonic Couplant
- Operation Manual
- Certificate
- Carrying Case
- One Year Warranty

4.1.2 Technical Specification

Display Type	4-digit LCD
Display Resolution	(<100 mm) 0.1 mm
Units	Metric
Measuring Range (steel)	1.2 to 220.0 mm
Sound Velocity Range	1000 to 9999 m/s
Operating Temperature	0 ° C +45° C
Frequency	5 MHz
Power Source	3 X 1.5V AAA batteries
Dimensions	70x145.5x28 mm

4.2 Compact DC Inspector Porosity Detector



Porosity detection of Tanks, Valves, Pumps, Pipeline field joints, and general inspection and maintenance. Suitable for a broad range of testing and inspection requirements. It is recommended that the integral probe be limited to a 125mm flat brush or fan brush.

4.2.1 Standards

ASTM G62-87(1998), ASTM D4787-93(1999), NACE RP0274-98, NACE RP0490-2001, NACE RPO188- 99, JIS G-3491, JIS G-3492, ANSI/AWWA C214-89, ANSI/AWWA C213-94 and ISO 2746:1998

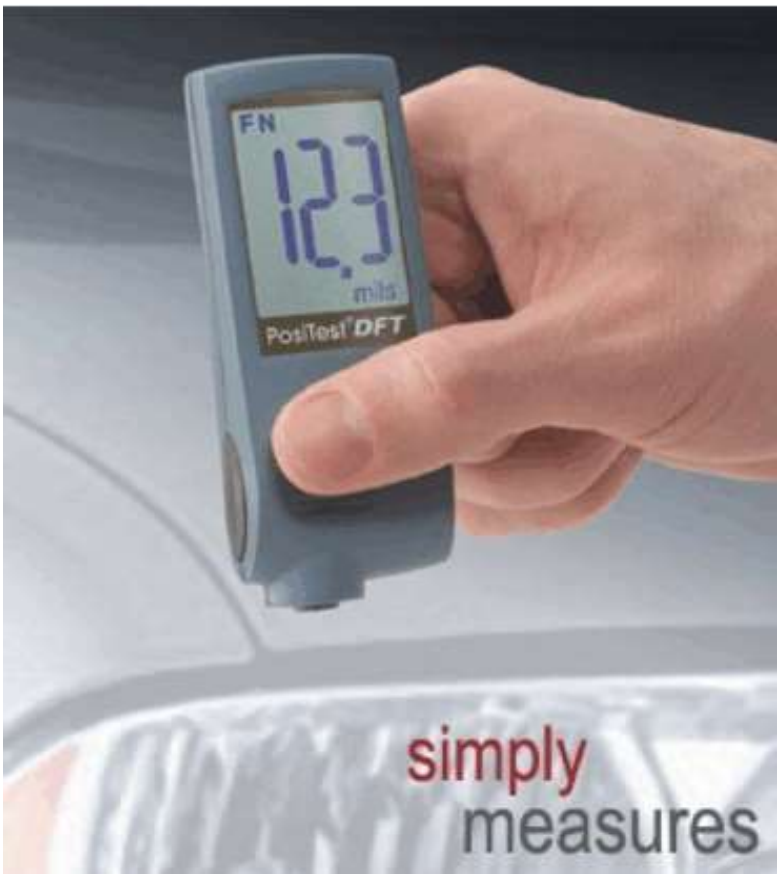
4.2.2 Features

- LED bar graph display of voltage
- "Single" hand-held, lightweight unit for simplicity and ease of operation
- Audible and visual alarms
- LED battery condition indicator
- Integral probe
- Detector
- 7m Earth lead and clamp
- Flat 125mm wide brass wire brush (or optional fan brush)
- Carry Case
- Operating instructions with conformance certificate
- Variable output up to 10kV or Variable output up to 20kV

4.2.3 Technical Specifications

Test Voltage	to 10kV (using 9V Battery)
Output Test Current	up to 100µA
Operating Temperature	-20 to +50ºC
Power Supply	Battery (9V internal)
Unit Dimensions	210 x 75 x 35mm (excl brush) 8.25" x 3.1" x 1.5"
Unit Weight	460g (incl probe)
Shipping Weight	1.5Kg

4.3 PosiTest DFT Coating Thickness Gauge



The new PosiTest DFT Coating Thickness Gauge measures coatings on ALL metals. It is the economical choice that retains the uncompromising quality of Qualitest inspection instruments.

Available in two models:

- PosiTest DFT Ferrous - measures non-magnetic coatings on steel.
- PosiTest DFT Combo - measures both non-magnetic coatings on steel and non-conductive coatings on aluminum, brass, etc. Automatically recognizes the substrate and takes a measurement.

4.3.1 Standards

ASTM B244/B499/B659/D1186/D1400/E376/G12, BS3900-C5, SSPC-PA2, ISO 2178/2360/2808, prEN ISO 19840, and others. Certificate of Calibration traceable to NIST available.

4.3.2 Features

- Fast, repeatable measurements
- No calibration required for most applications
- ZERO feature for rough or curved surfaces
- Handy RESET feature when no zero reference is available
- Strong, wear resistant, ruby-tipped probe
- Audible and visible measurement indication
- V-groove in probe for positioning on cylindrical parts
- Mils/Microns switchable
- Basic instructions on the back of each gauge

4.3.3 Technical Specifications

Measurement Range	0-40 mils (-1000 µm)
Accuracy	±(0.1 mils + 3%) (±(2µm + 3%))
Size	4 x 1.5 x 0.9 in (100 x38 x 23 mm)
Weight	2.5 oz (70 g)



5.0 HYDROPNEUMATIC PRESSURE TANK DESCRIPTION

The hydropneumatic pressure tank inspected and tested is described as follows:

Length: 23'-9" (27'-3" including elliptical heads)
Diameter: 6'-0" outside diameter
Volume: 5,500 gallons with elliptical heads
Tank Age: Approximately 30-35 years
Operating Pressure: 60 psi

6.0 TESTING

6.1 Porosity Testing

The tank surface was not swept with the Compact DC Inspector Porosity Detector during this inspection as no evidence of pin holes was observed throughout the surface of the tank.

6.2 Interior Coating Testing

No dry film thickness readings were taken within the tank interior as the coating had failed.

6.3 Ultrasonic Metal Thickness Testing

A total of 69 metal thickness readings were taken at various locations on the tank shell and head surface. The average shell reading was 6.17 millimeters in the cylindrical section and 5.92 millimeters in the elliptical heads. Typical industry standard minimum wall thickness for tanks of this size is 1/4" (6.35 mm).

7.0 VISUAL OBSERVATIONS

7.1 Tank Exterior

The exterior of the tank appeared to be in good structural condition. No lichens were growing on the tank exterior at the time of the inspection.

7.2 Tank Interior

The tank interior appeared to be in fair condition. There were significant areas where the coating had begun to fail on the interior tank surface. There was surface corrosion noted in various areas throughout the tank interior.

8.0 DEFINITIONS

Design Pressure - The maximum design pressure determined from the metal thickness.

Maximum allowable working pressure (MAWP) – Maximum pressure that the pressure tank is capable of safely holding at a design maximum temperature (250ºF).

Operating Pressure - The normal maximum operating pressure of the pressure tank. The normal operating pressure must always be below the MAWP. As a rule of thumb the maximum operating pressure should always be less than the MAWP.

Metal Thickness – The thickness of the pressure tank wall (not including a corrosion allowance) to be used in the pressure calculations.

Design Safety Factor on Metal Tensile Strength – A pressure tank is normally designed with a safety factor of 3 to 4 on the metal tensile strength. All pressure tanks are designed to operate with wall stresses below the yield point of the metal used for fabrication.

9.0 TANK PRESSURE CALCULATIONS

The following formula is found in ASME Section I for determination of MAWP:

For tanks with circumferential stress on (longitudinal joints)

P = SEt/(R+0.6t)
= 60 MPa x 1.0 x 6.17 mm / (908 mm+0.6 x 6.17 mm)
= 0.406 MPa
= 59 psi

When:

t < 0.5R = 0.5 x 908 = 454 mm (true) or
P < 0.385SE = 0.385 x 60 x 1.0 = 23.1 MPa (true)

Where:

t = metal thickness (mm) where t = 6.17 mm
R = inside radius of shell course under consideration (mm) = 908 mm
E = joint efficiency for cylindrical or spherical shells = 1.0 for welded tanks and corresponds to a safety factor of 3.5 in the parent metal.
P = maximum allowable working pressure (MPa) where 1 MPa = 145 psi
S = maximum allowable stress value at the operating temperature of the metal = 60 MPa (Safety Factor of 4).

10.0 CONCLUSIONS

Inspection and testing of the Floyd Clark subdivision 5,500-gallon hydropneumatic pressure tank was performed on December 6, 2018. In addition to a visual examination, non-destructive examinations were also made. Non-destructive examinations included ultrasonic measurement of the tank wall thickness and visual inspection for pinholes and leaks. No examination of Dry Film Thickness Measurement (DFTM) of the interior coating was performed as the coating had failed on various parts of the interior.

Observations of the tank exterior indicated tank is subject to normal exposure. Observations of tank interior revealed surface corrosion throughout various portions of the tank interior.

11.0 RECOMMENDATIONS

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 65 PSI or lower.
- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.
- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 59 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

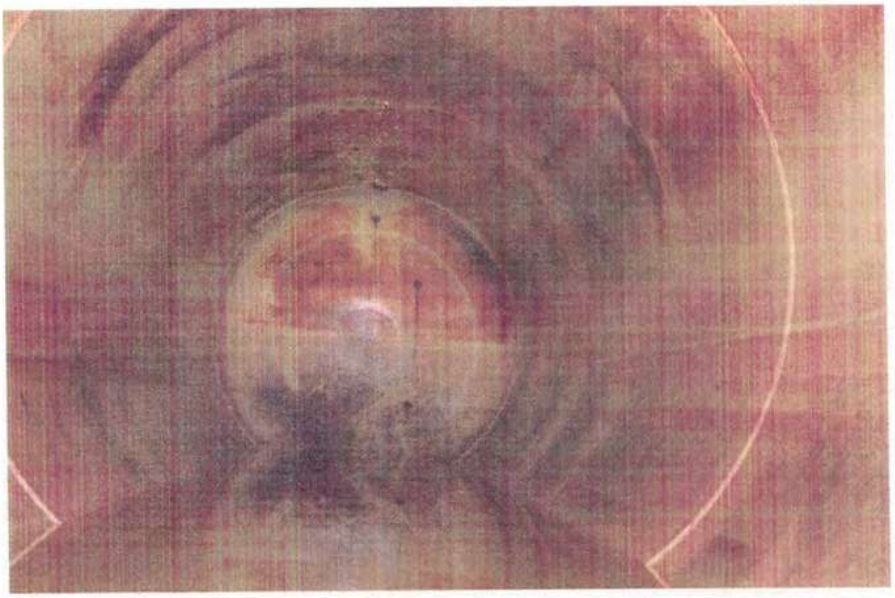
Signed: Robert M. Couch III Date: 1/5/2018

Robert M. Couch III, P.E. Registration No. 55311

Exterior and interior views of tank







APPENDIX C: EMERGENCY RESPONSE PLAN

Disaster-Specific Preparedness/Response Plan

for Public Drinking Water Systems

Per Chapter 62-555.350 (15) F.A.C.

Sunshine Utilities

FLOYD CLARK

Address:	10230 East Hwy. 25 Belleview, FL 34420
Phone:	352-347-8228
Fax:	352-347-6915
Contact:	Dewaine Christmas, Manager
E-mail:	SunshineUtl@AOL.COM
Connections:	77
PWS:	3420411
County:	Marion

May 17, 2013

Department of Environmental Protection
Michael D. LeRoy, P.E.
John R. Sowerby, P.E.

FRWA Security Staff
Sterling L. Carroll, P.E.
Ken Klos, P.E.
Coy Donaldson

For more information or additional copies of this document contact:

FLORIDA RURAL WATER ASSOCIATION
2970 Wellington Circle ~ Suite 101 ~ Tallahassee
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e-mail: FRWA@frwa.net

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This template and guide has been developed by the Florida Rural Water Association (FRWA) in collaboration with the Washington State Department of Health, Office of Drinking Water, Olympia, Washington; and reviewed by Florida Department of Environmental Protection.

Acknowledgment of federal government support of this project:

This project and the preparation of this booklet was funded in part by a Water Protection Coordination grant from the Environmental Protection Agency through an agreement/contract with the Drinking Water Program of the Department of Environmental Protection. Total cost of the project was $3,000 of which $3,000 or 100 percent, was provided by the U.S. Environmental Protection Agency.

Preface
Chapter 62-555.350 (15) FAC

Disaster-Specific Preparedness/Response Plans

(15) Suppliers of water who own or operate a community water system serving, or designed to serve, 350 or more persons or 150 or more service connections shall develop a written emergency preparedness/response plan in accordance with Emergency Planning for Water Utilities, AWWA Manual M19, as adopted in Rule 62-555.335, F.A.C., by no later than December 31, 2004, and shall update and implement the plan as necessary thereafter. Said suppliers of water shall coordinate with their Local Emergency Planning Committee and their Florida Department of Law Enforcement Regional Security Task Force when developing their emergency plan and shall include in their plan all of the information in paragraphs (a) through (e) below.

(a) A Communication Charts as described in Chapter 5 of AWWA Manual M19.

(b) Written agreements with other agencies, utilities, or response organizations.

(c) A disaster-specific preparedness/response plan as described in Chapter 5 of AWWA Manual M19 for each of the following disasters: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release. Each disaster-specific preparedness/response plan shall incorporate the results of a vulnerability assessment; shall include actions and procedures, and identify equipment, that can obviate or lessen the impact of such a disaster; and shall include plans and procedures that can be implemented, and identify equipment that can be utilized, in the event of such a disaster.

(d) Details about how the water system meets the standby power requirements under subsection 62-555.320(14), F.A.C., and, if applicable, recommendations regarding the amount of fuel to maintain on site, and the amount of fuel to hold in reserve under contracts with fuel suppliers, for operation of auxiliary power sources.

(e) If applicable, recommendations regarding the amount of drinking water treatment chemicals, including chemicals used for regeneration of ion-exchange resins or for onsite generation of disinfectants, to maintain in inventory at treatment plants.

Specific Authority 403.861(9) FS. Law Implemented 403.852(12), 403.853(6), 403.861(17) FS. History-New 11-19-87, Formerly 17-22.650, Amended 1-18-89, 1-1-93, Formerly 17-555.350, Amended 8-28-03.

Time Extension for Submitting/Completing ERP – December 31, 2005

From: Hoofnagle, Van
Sent: Thursday, October 21, 2004 11:25 AM
Subject: Time Extension for Submitting/Completing ERP
Importance: High

I am sending this e-mail because of possible confusion in some FDEP District Offices or ACHDs regarding the deadline for compliance with the emergency preparedness/response plan requirements in FAC subsection 62-555.350(15).

As John Sowerby and other staff mentioned during Focus On Change presentations early this year on FAC Rule 62-555.350 and during training this summer on the recent amendments to FAC Chapter 62-555, the FDEP intends to amend FAC subsection 62-555.350(15) to give all affected community water systems (i.e., all community water systems serving 350 or more persons or 150 or more service connections) **until the end of 2005** instead of the end of this year to complete a comprehensive emergency preparedness / response plan as required by FAC subsection 62-555.350(15). At this point, it will likely be after the end of this year before we officially make this change to FAC subsection 62-555.350(15). In the meantime, please do not take any enforcement action against

community water systems who fail to meet the 12/31/04 deadline in FAC subsection 62-555.350(15). Thanks.

Van Hoofnagle
DEP Drinking Water Administrator

Section 1
Communication Charts

The first response step in any emergency is to inform the person at the top of this list, who is responsible for managing the emergency and making key decisions. List the water system chain of command in order of contact.

Water System Chain of Command – Lines of Authority

Order	Name & Title	Responsibilities During an Emergency	Contact Information
1	Dewaine Christmas Manager	Responsible for overall management and decision making. The manager is the lead for managing the emergency and providing information to regulatory agencies. All communications to external parties are to be approved by the manager.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl@AOL.Com
2	James Hodges Jr. Field Supervisor	Responsible for decision making in the field. In charge of overall maintenance, and repairs to all components of water system.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl @AOL.Com
3	Kelvin Edun Water Treatment Plant Operator	Responsible for running water treatment plant, performing inspections, maintenance, sampling and relaying all critical information to Field Supervisor.	Phone: Cell: 352-875-5141 Email:
4	Pamela Christmas Office	Responsible for assisting the manager in administrative duties and emergencies.	Phone: 352-347-8228 Cell: 352-245-4743 Email:
5			Phone: Cell: Email:
6			Phone: Cell: Email:
7			Phone: Cell: Email:

Emergency Notification

Notification call-up lists - Use these lists to notify important parties of an emergency.

Emergency Notification List

Organization or Department	Name & Position	Telephone	Cell Phone	e-mail
State Warning Point	**Duty Officer**	**800-320-0519**	800-320-0519	N/A
Local Law Enforcement	EOC Commander	352-622-3205		Pstefanski@sheriff.marioncountyfl.org
Fire Department		911		
Emergency Medical Services		911		
Water Operator (if contractor)	Kelvin Edun Operator	352-875-5141		
County Health Department	Tom Moore Director of Environmental Health	352-622-7744	352-266-7486	
DEP District Office	Manny Cardona	407-897-4134	Fax 407-893-4418	
County Emergency Management Dept.	Chip Wildy	352-622-3205		
Local Leader (City Mgr., Mayor, Chair. Co. Comm., etc.)				
Local Hazmat Team (if any)		911		
Hazmat Hotline		911		
National Spill Response Center.	Duty Officer	800-424-8802	800-424-8802	N/A
Interconnected Water System(s)				
Neighboring Water System (not connected)				
FRWA Water Circuit Rider	TomGustafson	850-668-2746	352-267-1302	

Priority Customers

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Hospital Or Clinic(s)				
Nursing Home(s)				
Public Schools				
Private Schools				
Wastewater Treatment Plant				
Food Processing Or Other Industry				

Service / Repair Notifications

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Electric Utility Co.	City of Ocala	352-651-6666		
Electrician	Melville Electric	352-245-0600		
Gas / Propane Supplier	Belleview Gas	352-245-6055		
Water Testing Lab.	Aqua Pure Lisa Saupp	352-625-2822		
Sewer Utility Co.				
Telephone Co.	Sprint	800-788-3600	611	
Plumber	ACP	352-427-7036		
Pump Supplier	Coast Pump	352-620-0616	352-266-4277	Coastpumpocal@hotmail.com
"Dig Safe" or "One Call"	Sunshine One Call	800-432-4770		

Service / Repair Notifications				
Organization Or Department	**Name & Position**	**Telephone**	**Cell Phone**	**email**
Rental Equip. Supplier	B&M Rental	352-245-3133	352-245-9800	
Chlorine Supplier	Custom Controls	352-622-9244	352-304-0572	
Other Chemical Suppliers				
Radio/SCADA Repair Co.				
Bottled Water Service				
Bulk Water Supplier				
Well Drilling Co.	Earls Well Drilling David Moffitt	352-245-2324	352-817-0502	
Pipe Supplier	National Water Works Roy Sands	352-351-8144	352-266-4705	

Designated Public Spokesperson and Alternates

Designate a spokesperson (alternates) for delivering messages to the news media & public

Public Spokesperson	Name & Position	Telephone	Cell Phone
Spokesperson	Dewaine Christmas Manager	352-347-8228	352-239-1198
Alternate 1	James Hodges Jr. Supervisor	352-347-8228	352-239-1197
Alternate 2			

Key Messages

Develop possible messages in advance, and update them as the emergency develops
▪ We are aware of the emergency and are working diligently to restore your water service.

- If you fall under a boil water notice you must bring water to a rolling boil for a period of at least one minute. You only have to boil water for human cunsumption.

-

Health Advisories – Boil Water Notices

Use the assistance of your County Health Department and/or District FDEP office, and FDEP's Mandatory Health Effects Language, located on FDEP's website at:

http://www.doh.state.fl.us/environment/water/manual/boil.htm

http://www.DEP.state.fl.us/water/drinkingwater/rules.htm,

and click on "Mandatory Health Effects Language"., PLUS EPA's templates at:

http://epa.gov/safewater/pn.html

Click on "Microsoft Word and Word Perfect files of PN templates" (PN means Public Notifications), then determine which "Tier" of notifications is needed and click on the desired software to receive them in.

Section 2
Written Agreements With Other Agencies, Utilities, or Response Organizations

INSERT BELOW information regarding any written agreements with other agencies, utilities, or response organizations, such as emergency interconnects, mutual aid or FlaWARN.

Emergency Interconnect(s)

Information on the location of interconnection(s) (if any), type and size of interconnecting pipe, pumps and accessory equipment, meters at interconnection(s), normal pressures at both ends of interconnection, volume of water from interconnection(s), type of agreement and approvals needed for use, procedures necessary to use interconnection, etc.

Location (Street)	
Location (GPS)	
Description	

Memoranda of Understanding

Organization	
Summary of Understanding	

Mutual Aid Agreements

Organization	Marion Utilities, 352-622-1171
Summary of Understanding	Will render mutual aide – ie: pumps, generators, and other materials necessary to restore water service.

FlaWARN

Organization	
Summary of Understanding	

Section 3
Disaster-Specific Preparedness/Response Plan

Your disaster-specific preparedness/response plan must include a Vulnerability Assessment and preparedness / response plans for: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release.

In any event there are a series of general steps to take:

1. Confirm and analyze the type and severity of the emergency.
2. Take immediate actions to save lives.
3. Take action to reduce injuries and system damage.
4. Make repairs based on priority demand.
5. Return the system to normal operation.

Vulnerability Assessment

It is essential that water systems identify and assess the vulnerability of each system component for both natural and human-caused emergencies, before preparing their disaster-specific preparedness/response plans. Prepare your Vulnerability Assessment by completing the table below:

Facility Vulnerability Assessment

System component	Description and condition	Vulnerability	Security improvements (indicate existing or proposed)
Raw Water Sources	(1) 4" groundwater wells located several hundred feet from homes. Wells are in good condition. We have wellhead protection in place.	The well is most vulnerable to above ground activities because it is only 80 FT deep.	1.Purchase land surrounding well. 2. Secure well house to foundation and install lighting around well house.
Pump-house and pumping facilities	The pump-house and pumping facility are in good condition.	Pump location is fully fenced with a locked gate.	Install tamper proof padlocks.
Treatment Facilities	There is a hypo-chlorination system inside of pump house. System is in good condition.	Chlorination systems are not subject to power outages.	There is a backup generator on site in compliance with CH. 62-555.320(14)FAC
Storage Facilities	Hydro pneumatic tank is fenced in good condition.	Tank is not in a lighted area.	Install lighting in area of tank.
Computer and telemetry systems	Computers are in utilities main office and are in good condition.	Computers should be better protected against cyber attack or hacking.	Secure computers with firewalls & virus protection.

A. Vandalism or Sabotage Response Procedures

1. Utility staff first aware of incident:
    a) Calls 9-1-1/ Local Law Enforcement.
    b) Calls Manager
2. Manager determines severity of incident.
    a) Field supervisor determines if vandalism or sabotage will effect the water quality.
    b) Manager reports incident to the state warning point.
3. Field supervisor directs repairs as needed.
    a) Complete repairs
    b) Update ERP as needed.

B. Drought Response Procedures

Include water use restrictions per Consumptive Use Permit

1. Manager coordinates with the local Water Management District (WMD) regarding drought conditions.
    a) If drought conditions exist, a water conservation plan will be initiated.
    b) Literature will be distributed to customers regarding the drought.
    c) Conservation material will be distributed to customers on conservation measures.
    d) Customers not abiding by restrictions will be reported to WMD.
    e) Manager updates ERP as needed.

C. Hurricane Preparedness & Response Procedures

Pre- Hurricane **(36 to 48 hrs prior to arrival)**	1. Manager coordinates with local EOC. 2. Field supervisor checks operation of standby power. 3. Field supervisor secures fuel and treatment chemicals for a 10 day period. 4. Manager replenishes inventory of spare parts.
Hurricane Watch **(24 to 36 hrs prior to arrival)**	1. Manager cancels all time off for employees. 2. Manager issues work assignments in advance in case of communication loss. 3. Employees all top off fuel in vehicles & standby generators. 4. Manager authorizes employees to secure their personal property and arrange for the safety of family members.
Hurricane Warning (24hrs or less prior to arrival)	1. Employees report to designated areas and wait for instructions. 2. Employees load truck with supplies. 3. Employees follow evacuation protocol.
Recovery Procedures	1. Manager coordinates with local EOC. 2. Manager issues boil water notices if needed. 3. Field supervisor coordinates repairs. 4. Manager makes contact with the appropriate DEP office. 5. After repairs are completed samples are taken. 6. When samples come back clear – boil water notice is lifted. 7. Manager files all malfunction reports with the DEP. 8. Field supervisor inspects all systems to make sure everything is running smooth.

D. Structure Fire Response Procedures

1. Utility staff discovering fire:
    a) Evacuate structure on fire.
    b) Call 9-1-1
2. Manager determines severity of incident.
    a) Manager contact State Warning Point.
    b) Field supervisor coordinates repairs when fire is extinguished.
3. Field supervisor reports to manager when repairs are complete.
    a) Manager reports completion of all repairs to any Gov. agency.
    b) Manager updates ERP as needed.

E. Flood Preparedness & Response Procedures

(Is any critical part of your system in a flood prone area?)

None of our systems are in a flood prone area.

F. Forest or Brush Fire Response Procedures

(Is any critical part of your system subject to forest or brush fires?)

1. Utility staff discovering fire.
    a) Orders evacuation of any threatened buildings.
    b) Calls 9-1-1 to report fire.
2. Manager determines the severity of fire.
    a) Manager contacts the State Warning Point.
    b) Field supervisor inspects for any damage and coordinates repairs after fire is extinguished.
3. Field supervisor reports to manager that all repairs are complete.
    a) Manager updates the ERP as needed.
    b)

G. Hazardous Material Release Response Procedures

Do you have any hazardous material (chlorine gas) at your water system?

We have no Hazardous materials at any of our water systems.

H. Other Disaster Response Procedures

Are there other disasters that you want to prepare for, such as a Contamination event, SCADA Attack, or Structural Damage from an Intentional Act?

Contamination

1.
   a)
   b)
2.
   a)
   b)

SCADA Attack

1.
   a)
   b)
2.
   a)
   b)

Structural Damage from an Intentional Act

1.
   a)
   b)
2.
   a)
   b)

Section 4
Standby Power Requirements

Include details about how the water system meets the standby power requirements as described in Ch. 62-555.320(14), and 62-555.350(15)(d) FAC for water source, treatment, and pumping facilities necessary to deliver drinking water at a rate at least equal to the Average Daily Water Demand.

Standby Power for Wells or Surface Water Intakes

Standby Power (or by alternate means) to OPERATE WELLS at Average Daily Demand

Average Daily Demand (ADD) in gpd or gpm	13,174 gpd
Wells Needed to Supply Average Daily Demand	1
Standby Generator (kW) Needed for ADD &	15 KW
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	We will have reserve fuel in the case of an emergency.

Standby Power for Treatment Facilities

Standby Power (or by alternate means) to TREAT WATER at Average Daily Demand

Treatment Units Needed to Supply ADD	
Standby Generator (kW) Needed to Treat ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Standby Power for Pumps

Standby Power (or by alternate means) to PUMP WATER at Average Daily Demand

Pumps Needed to Supply ADD	
Standby Generator (kW) Needed to Pump ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Section 5
Drinking Water Treatment Chemicals & Disinfectants

Include recommendations regarding the amount of drinking water treatment chemicals, to maintain in inventory at treatment plants. Do not just list chemical storage capacity, but instead recommend the minimum amount of chemicals to maintain in inventory, which depends upon the location and reliability of chemical suppliers, the status of impending disasters, etc.

Disinfection Treatment Information

Disinfection Chemical(s)	Chemical / Location No. 1	Chemical / Location No. 2
Type of Chemical	Chlorine	
Type of Chemical Feed	Hypo-Chlorinator	
Chemical Storage Location	On site in the pump house.	
Recommended Minimum Amount to be Maintained in Storage (gal)	55 gallons	

Other Chemical Information

Chemical(s) Used	Chemical #1	Chemical #2	Chemical #3	Chemical #4
Type of Chemical				
Type of Chemical Feed				
System Location				
Chemical Storage Location				
Recommended Minimum Amount to be Maintained in Storage (gal)				

Appendix A
Basic System information

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Keep this basic information readily available for when you need it for emergency responders, repair people, the news media and potentially, an emergency operator.

Basic System Information

GPS coordinates will help emergency crews find your system following a major catastrophe.

System identification number (PWS ID)	**3420411**	
System name and address	**Floyd Clark**	
GPS Coordinates	Latitude:	Longitude:
Basic description and location of system facilities	**1441 NE 38th St**	
Population served and service connections.	Population =	Connections = 77
System Owner	**Sunshine Utilities of Central Florida, Inc.**	
Management Authority	**Owner and Manager**	
Name, title, and phone numbers of person responsible for maintaining and implementing the ERP.	**Dewaine Christmas** **Manager**	**352-347-8228 phone** **352-239-1198 cell**

System Demand

Demand based on Monthly Operational Records and system capacity based on Sanitary Survey.

Average Daily Demand (gpd)	13174 GPD
Maximum Daily Demand (gpd)	15900 GPD
System Capacity (gpd)	68000 GPD
Peak Hour Demand (gpm)	N/A

Location of Pertinent Information

Item	Location
Distribution System Map	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
O&M Manual(s)	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
Start-Up / Shut-Down Procedures	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.

Well Information

GPS coordinates will help emergency crews find wells following a major catastrophe.

Well Information	Well No. 1	Well No. 2	Well No. 3	Well No. 4
GPS well tag #				
Location (street)	1441 NE 38th St			
GPS Coordinates	Lat: Long:		Lat: Long:	Lat: Long:
Well Depth (ft)	80 FT			
Well Yield (gpd)	13,800 GPD			
Pump Type	Submersible			
Manufacturer	Sta-Rite			
Capacity (gpm)	230 GPM			
Motor Manufacturer	Franklin			
Horsepower	5 HP			
Phase	1			
Volts/Amps	230 volts			

Surface Water Sources

GPS coordinates will help emergency crews find surface water intakes following a major catastrophe.

Surface Water Information	Intake No. 1	Intake No. 2
Location (Street / Description)		
GPS Coordinates	Lat: Long:	Lat: Long:
Critical Water Level		

Finished Water Storage

GPS coordinates will help emergency crews find tanks following a major catastrophe.

Name of Storage Unit	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Location (Street)				
Location (GPS)	Lat: Long:	Lat: Long:	Lat: Long:	Lat: Long:
Type (ground, elevated, etc.)				
Capacity (gal)				
Empty Elevation				
Overflow Elevation				

High Service Pumps

HSP	HSP No. 1	HSP No. 2	HSP No. 3	HSP No. 4
Location (street)				
Pump Type				
Manufacturer				
Capacity (gpm)				
Motor Manufacturer				
Horsepower				
Phase				
Volts/Amps				

Other Applicable Information

Appendix B
Training and Rehearsals

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Event	Description	People & Organizations Involved	Date

Appendix C
Plan Approval

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Plan Approval

This plan is officially in effect when reviewed, approved, and signed by the following people:

Name / Title	Signature	Date
Hodges Family Trust		

APPENDIX D: CONSUMER CONFIDENCE REPORT

Certification of Delivery of Consumer Confidence Report

GENERAL INSTRUCTIONS: This form shall be completed by all community water systems (CWSs) that have prepared a Consumer Confidence Report (CCR) in accordance with Rule 62-550.824, F.A.C., Consumer Confidence Reports. At the end of this form is a certification in which a system's authorized representative shall certify that the reported information is accurate and is in conformance with Rule 62-550.824, F.A.C. **COMPLETE THIS FORM AND SUBMIT IT BY AUGUST 10,** together with a copy of your system's CCR, sample email or water bill (with URL notification of CCR, if applicable), and any newspaper notice(s) and posted notice(s) of your CCR, to the appropriate DEP district office or Approved County Health Department (ACHD). Systems serving 100,000 or more persons posting their CCRs on publicly accessible Internet sites shall provide the information on the appropriate Internet link(s). All information provided on this form must be typed or printed in ink.

I. General Water System Information. (To be completed by all community water systems.)

System name: Floyd Clark Contact person: Dewaine Christmas

PWS Identification number (PWS ID): 3420411 Contact phone number: (352)347-8228

Mailing address: 10220 East Hwy 25 City: Belleview

State: Fl Zip: 34420-5531 Population served (not the number of "service connections"): _____

II. CCR Distribution Method. (To be completed by all community water systems. Choose A or B as appropriate.)

☐ A. We mailed, emailed, or otherwise directly delivered a copy of our CCR to each customer on _____ (enter date(s) of mailing or delivery) using the method(s) checked below:

- ☐ a. **Mailed** CCR
- ☐ b. **Mailed** notice (e.g. water bill) with **direct URL** to the CCR
- ☐ c. **Emailed** CCR as an **embedded** image or as an **attachment**
- ☐ d. **Emailed** notice with a **direct URL** to the CCR
- ☐ e. **Otherwise directly delivered** CCR to every customer. Explain: _____

☑ B. We were eligible to use a mailing waiver and used a mailing waiver. (Systems are eligible to use a mailing waiver only if they serve fewer than 10,000 persons, have not had any MCL or monitoring and reporting (M/R) violations, nor have been issued any formal Notices of Violations (NOVs), Consent Orders, Administrative Orders, or court-ordered civil actions during the calendar year before the year the CCR is due to the customers).

Answer a, b, **and** c below.)

- ☐ a. Date of newspaper: _____
- ☐ b. Name of newspaper/newsletter that published our CCR: _____
- ☑ c. A copy of our notice to customers, informing them that our CCR will not be mailed to them, is attached.

This notice was: ☑ mailed with bill; ☐ published in newspaper/newsletter; or ☐ other (describe)

_____

III. Posting of CCR on the Internet. (To be completed by all CWSs serving 100,000 or more persons.)

We posted our CCR on this publicly accessible internet site: _____

IV. Report on Your Effort to Distribute Your CCR to Your Water Consumers.
(To be completed by all CWSs. Check all items that apply - at least one item must be checked.)

In addition to the methods selected in Part II,

■ A. We posted our CCR on this publicly accessible internet site: www.sunshineutilities.org

☐ B. We published our CCR in the local newspaper(s). The name(s) and date(s) of the newspaper(s) are:

_____

RECEIVED
JUL 10 2020
DEP Central District

☐ C. We advertised the availability of our CCR as a press release, radio announcement, or TV announcement. The type(s) and date(s) of the advertisement(s) are: _____

☐ D. We delivered multiple copies of our CCR to single bill addresses serving several persons.

☐ E. We delivered multiple copies of our CCR to the following community organizations:

_____

☐ F. Our CCR was posted in the following public locations: _____

_____

■ G. Our CCR was distributed by other methods (e.g., additional copies placed in entrance hall to facility). Describe.
Additional copies available at Sunshine Utilities Office

V. Use of Non-English Language in CCR. (To be completed by all community water systems.)

☐ Information in a non-English language was included in our CCR because 20% or more of our customers do not speak English but speak _____. The method we used to determine the proportion of non-English speaking customers is _____

■ This requirement does not apply to our system, because we have no non-English speaking group among our customers equal to or exceeding 20% of our total number of customers.

VI. Other Delivery Requirements. (To be completed by all community water systems.)

(A) Was a copy of your CCR sent to your county health department, as required by rule? ■ Yes ☐ No

(B) Is your system regulated by the Public Service Commission (PSC)? ☐ Yes ☐ No

If Yes, was a copy of your CCR sent to the PSC, as required by rule? ■ Yes ☐ No

(C) If your system sells water to other systems, have you provided them with either a copy of your CCR or the required consumer confidence information? ■ Yes ☐ No ■ Not Applicable

VII. Certification of Delivery of CCR and Compliance with Regulations. (To be completed by all CWSs.)

This statement certifies that the above named community public water system has distributed its CCR for the time period starting ***January 1, 2019, and ending December 31, 2019*** to its customers on 6/15/20 (mm/dd/yy) and provided the appropriate notices of availability according to the requirements listed in this form, which are also found in Rule 62-550.824, F.A.C. This statement also certifies that the reported information is correct and consistent with the compliance monitoring data for the same period previously submitted to the Department, and that the report has been delivered to the agencies identified in Rules 62-550.824(3)(e)3., and 4., F.A.C.

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____

NAME (please print): Dewaine Christmas

TITLE: Manager DATE: 6/26/20

■ **A copy of our CCR is attached, and**

☐ **If using electronic delivery, a copy of our sample email or notice (e.g. water bill), with URL leading directly to the CCR and not a general information website, is attached. For example, if you are using the FRWA website to post your CCR, your URL would be:**

www.frwa.net/2012-Your PWSID Number.pdf (www.frwa.net/2012-0000000.pdf).

SUNSHINE UTILITIES
10230 East Highway 25
Belleview, Florida 34420

Drinking Water Quality Report

Annual Drinking Water Quality Report for 2019

Floyd Clark / Hodges

Florida Department of Environmental Protection Public Water System ID # 3420411

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

The source of our water is groundwater from one well located in the community. The well draws from the Floridan aquifer, one of the world's most protected sources. Our water is chlorinated for disinfection purposes. In 2019 the Florida Department of Environmental Protection conducted an assessment which identifies potential sources of contamination in the vicinity of our well(s). The SWAPP (Source Water Assessment and Protection Program) determined our public water system to have no potential sources of contamination. You may obtain more information at the web site *www.dep.state.fl.us/swapp.*

Floyd Clark / Hodges water system also serves the Northwoods Community. If you have any questions about this report or concerning your water utility please contact **Dewaine Christmas, at Sunshine Utilities, (352) 347-8228**, during normal business hours. We encourage our valued customers to be informed about their water utility.

Sunshine Utilities routinely monitors for constituents in your drinking water according to Federal and State laws, rules and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2019. Data obtained before January 1, 2019, and presented in this report are from the most recent testing performed in accordance with the laws, rules and regulations.

WATER QUALITY TEST RESULTS FOR FLOYD CLARK

Radioactive Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Radium 226 + 228	(pCi/L)	MAR'15	No	1.5	N/A	0	5	Erosion of natural deposits

Inorganic Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Arsenic	(ppb)	APR'18	No	0.4	N/A	N/A	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	(ppm)	APR'18	No	0.0037	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chromium	(ppb)	APR'18	No	1.5	N/A	100	100	Discharge from steel and pulp mills; erosion of natural deposits
Fluoride	(ppm)	APR'18	No	0.14	N/A	4	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong
Lead (point of entry)	(ppb)	APR'18	No	0.3	N/A	N/A	15	Residue from man-made pollution such as auto emissions and paint; lead pipe, casing, and solder
Nitrate (as Nitrogen)	(ppm)	DEC'19	No	3.14	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium	(ppb)	APR'18	No	0.7	N/A	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium	(ppm)	APR'18	No	13	N/A	N/A	160	Salt water intrusion; leaching from soil

Stage 2 Disinfectants and Disinfection By-Products

Disinfectant or Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL or MRDL Violation Yes / No	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine	(ppm)	2019	No	1	0.4 - 1.8	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Total trihalomethane (TTHM)	(ppb)	AUG'18	No	3.65	N/A	N/A	MCL = 80	By-product of drinking water disinfection

Lead and Copper (Tap Water)

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	AL Violation Yes / No	90th Percentile Result	No. of Sampling Sites Exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper	(ppm)	JUN'18	No	0.285	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead	(ppb)	JUN'18	No	4.7	0	0	15	Corrosion of household plumbing systems; erosion of natural deposits

In the table you may find unfamiliar terms and abbreviations. To help you better understand these terms we have provided the following definitions (please note not all definitions may pertain to your report):

- Action Level (AL) – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial growth.
- Maximum Residual Disinfectant Level Goal (MRDLG) – The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.
- ND – This abbreviation means not detected and indicates that the substance was not found by laboratory analysis.
- Parts per million (ppm) or milligrams per Liter (mg/L) - one part of analyte (by weight) to 1 million parts of water sample (by weight).
- Parts per billion (ppb) or micrograms per Liter (µg/L) - one part of analyte (by weight) to 1 billion parts of water sample (by weight).
- Picocurie per liter (pCi/L) - measure of the radioactivity in water.

What does this mean?

As you can see our system had no violations. We're very proud that your drinking water meets all Federal and State requirements.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Sunshine Utilities is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals, and in some cases radioactive material, and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

A.) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

B.) Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

C.) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

D.) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

E.) Radioactive contaminants, which may be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The FDA (Food & Drug Administration) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care providers about their drinking water. EPA/CDC (Center for Disease Control) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are also available from the Safe Drinking Water Hotline (800-426-4791).

We are committed to ensuring the quality of your water. If you have any questions or concerns about the information provided, please feel free to call the numbers listed.

Sunshine Utilities

10230 East Highway 25, Belleview, FL 34420
Office (352)347-8228 – Fax (352)347-6915

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality of water and services we deliver to you everyday. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

Please follow the link to view your 2019 Annual Water Quality Report.

https://www.sunshineutilities.org/ccr19/2019FloydClarkHodge.pdf

APPENDIX E: SANITARY SURVEY REPORT

State of Florida
Department of Environmental Protection
Central District

SANITARY SURVEY REPORT

Plant Name **FLOYD CLARK SUBDIVISION** County Marion PWS ID # **3420411**
Plant Location NE 38th Street & 14th Avenue, Ocala, FL 34471 Phone 352/347-8228
Owner Name Sunshine Utilities of Central Florida, Inc. Phone 352/347-8228
Owner Address 10230 SE Highway 25, Belleview, FL 34420-5531
Contact Person Dewaine Christmas Title Owner Phone 352/347-8228
This Survey Date 1/23/18 Last Survey Date 8/19/15 Last Compliance Inspection Date 8/29/14

PWS TYPE: Community

PLANT CATEGORY & CLASS: 5D

MAX-DAY DESIGN CAPACITY: 68,000 gpd

PWS STATUS: Approved

TREATMENT PROCESSES IN USE
Hypochlorination

SERVICE AREA CHARACTERISTICS
Subdivision
Food Service: ☐ Yes ☐ No ☒ N/A

Number of Service Connections 72
Population Served 251 Basis 12/17 MOR

OPERATION & MAINTENANCE LOG: Yes
Location Water treatment plant
Comments

CERTIFIED OPERATOR: Yes
Operator(s) & Certification Class-Number:
Kelvin Edun C-7459

Hrs/day: *Required* Visit *Actual* Visit
Days/wk: *Required* 3 *Actual* 3
Non-consecutive Days? ☒ Yes ☐ No ☐ N/A
Comments

MONTHLY OPERATION REPORTS (MORs)
MORs submitted regularly? ☒ Yes ☐ No ☐ N/A
Data missing from MORs? ☒ No ☐ Yes ☐ N/A
Average Day (from MORs) 16,442 gpd
Maximum Day (from MORs) 24,600 gpd 5/17
Comments

Flow Measuring Device Flow Meter
Meter Size & Type 2" Sensus
Date Last Calibrated 7/23/15

RAW WATER SOURCE
☒ GROUND; Number of Wells 1
☐ PURCHASED from PWS ID #
☐ Emergency Water Source
Emergency Water Capacity

STANDBY POWER SOURCE: Not Required
Source
Capacity of Standby (kW)
Switchover: ☐ Automatic ☐ Manual
Hrs Operated Under Load
What equipment does it operate?
☐ Well Pumps
☐ High Service Pumps
☐ Treatment Equipment
Satisfy avg. daily demand? ☐ Yes ☐ No ☐ Unknown
Audio-visual alarm? ☐ Yes ☐ No
Comments

PLANS AND MAPS

Coliform Sampling Plan	☒ Yes	☐ No	☐ N/A
D/DBP Monitoring Plan	☒ Yes	☐ No	☐ N/A
Lead and Copper Plan	☒ Yes	☐ No	☐ N/A
Distribution System Map	☒ Yes	☐ No	☒ N/A
Emergency Response Plan	☒ Yes	☐ No	☒ N/A

Comments

PREVENTIVE MAINTENANCE/O&M

Operation & Maintenance Manual	☒ Yes	☐ No	
Preventive Maintenance Program	☒ Yes	☐ No	
Flushing Program	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A
Isolation Valve Exercise	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A

Comments

CROSS CONNECTION CONTROL
BFPAs None observed # Tested Unknown
WWTP RPZ N/A Date Tested N/A
Written Plan Yes Date 11/14/12
Comments

PWS ID # 3420411
Date 1/23/18

GROUND WATER SOURCE

Well Number (Florida Unique Well ID #)		**1**			
Year Drilled		1974			
Depth Drilled		80’			
Drilling Method		Unknown			
Type of Grout		Unknown			
Static Water Level		Unknown			
Pumping Water Level		Unknown			
Design Well Yield		Unknown			
Test Yield		Unknown			
Actual Yield (if different than rated capacity)		Unknown			
Strainer		Unknown			
Length (outside casing)		65’			
Diameter (outside casing)		4”			
Material (outside casing)		Black steel			
Well Contamination History		None			
Is inundation of well possible?		No			
6’ X 6’ X 4” Concrete Pad		Yes			
SET BACKS	Septic Tank	>200’			
	Reuse Water	N/A			
	WW Plumbing	>100’			
	Other Sanitary Hazard	None observed			
PUMP	Type	Submersible			
	Manufacturer Name	Sta-Rite			
	Model Number	Unknown			
	Rated Capacity (gpm)	62			
	Motor Horsepower	5			
Well casing 12” above grade?		No*			
Well Casing Sanitary Seal		OK			
Raw Water Sampling Tap		Yes			
Above Ground Check Valve		Yes			
Security		Yes			
Well Vent Protection		Yes**			

COMMENTS *The Department will continue to accept the well casing at the current height unless it is shown to contain chemical or microbial contamination. **Well vent screen missing.

PWS ID # 3420411
Date 1/23/18

CHLORINATION (Disinfection)
Type: ☐ Gas ☒ Hypo
Make Chem-Tech Capacity 30 gpd
Chlorine Feed Rate 65% stroke
Avg. Amount of Cl_2 gas used N/A
Chlorine Residuals: Plant >2.2 Remote 1.66
Remote tap location 3721 NE 14th Ave
DPD Test Kit: ☐ On-site ☒ With operator
☐ None ☐ Not Used Daily
Injection Points Prior to hydropneumatic tank
Booster Pump Info N/A
Comments

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

Tank Type/Number	**H**
Capacity (gal)	5,000
Material	Steel
Gravity Drain	Yes
By-Pass Piping	Yes
Protected Openings	Yes
Sight Glass or Level Indicator	Yes
PRV/ARV	PRV
Pressure Gauge	Yes
On/Off Pressure	40/60
Access Secured	Yes
Access Manhole	Yes
Tank Sample Tap Location	Discharge piping
Date of Inspection	6/13
Date of Cleaning	6/13

Comments Next tank inspection due 6/18

PWS ID # 3420411
Date 1/23/18

DEFICIENCIES:

Areas of Concern	Rule	Corrective Action	Date Corrected	Significant Deficiency?
Well casing vent was not properly screened (missing or damaged screens).	62-555.320(8)(c)	Provide a well vent that is at least 12 inches above well pad in a down turned position above the top of the casing and covered by a 24 mesh, corrosion resistant screen.	2/12/18 - vent screen replaced per operator e-mail	No

MONITORING REMINDER:

- Nitrate and nitrite samples are required to be collected from the point of entry (POE) to the distribution system annually. The 2018 results have not been received.
- The consumer confidence report (CCR) must be delivered to consumers and the Department no later than July 1, 2018, and certification of delivery of the CCR must be submitted to the Department no later than August 10, 2018.
- Monitoring schedules are available on the Central District's Drinking Water Website. https://floridadep.gov/central/central/content/resources-drinking-water-facilities-and-operators-central-district

COMMENTS:

- Contact FRWA (Florida Rural Water Association) at 850-668-2746, or frwa@frwa.net, for free technical assistance with your system. FRWA has extended benefits offered to members.
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.

  Checking the calibration of finished-drinking-water meters at treatment plants shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water. [Rule 62-555.350(2), F.A.C.]
- Suppliers of water shall submit written notification to the Department before beginning work or alterations to the public water system. Each notification shall be submitted to the appropriate Department of Environmental Protection District Office or Approved County Health Department and shall include the following: a description of the scope, purpose, and location of the work or alterations; and assurance that the work or alterations will comply with applicable requirements listed in Rule 62-555.330, F.A.C. Suppliers of water may begin such work or alterations 14 days after providing notification to the Department unless they are advised by the Department that the notification is incomplete or that a construction permit is required.
- Suppliers of water shall telephone the SWO at 1-800-320-0519 immediately (i.e., within two hours) after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving a public water system. [Rule 62-555.350(10)(a), F.A.C.]
- Suppliers of water shall telephone, and speak directly to a person at, the appropriate DEP District Office as soon as possible, but never later than noon of the next business day, in the event of any of the following emergency or abnormal operating conditions:
  - The occurrence of any abnormal color, odor, or taste in a public water system's raw or finished water;
  - The failure of a public water system to comply with applicable disinfection requirements; or
  - The breakdown of any water treatment or pumping facilities, or the break of any water main, in a public water system if the breakdown or break is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for

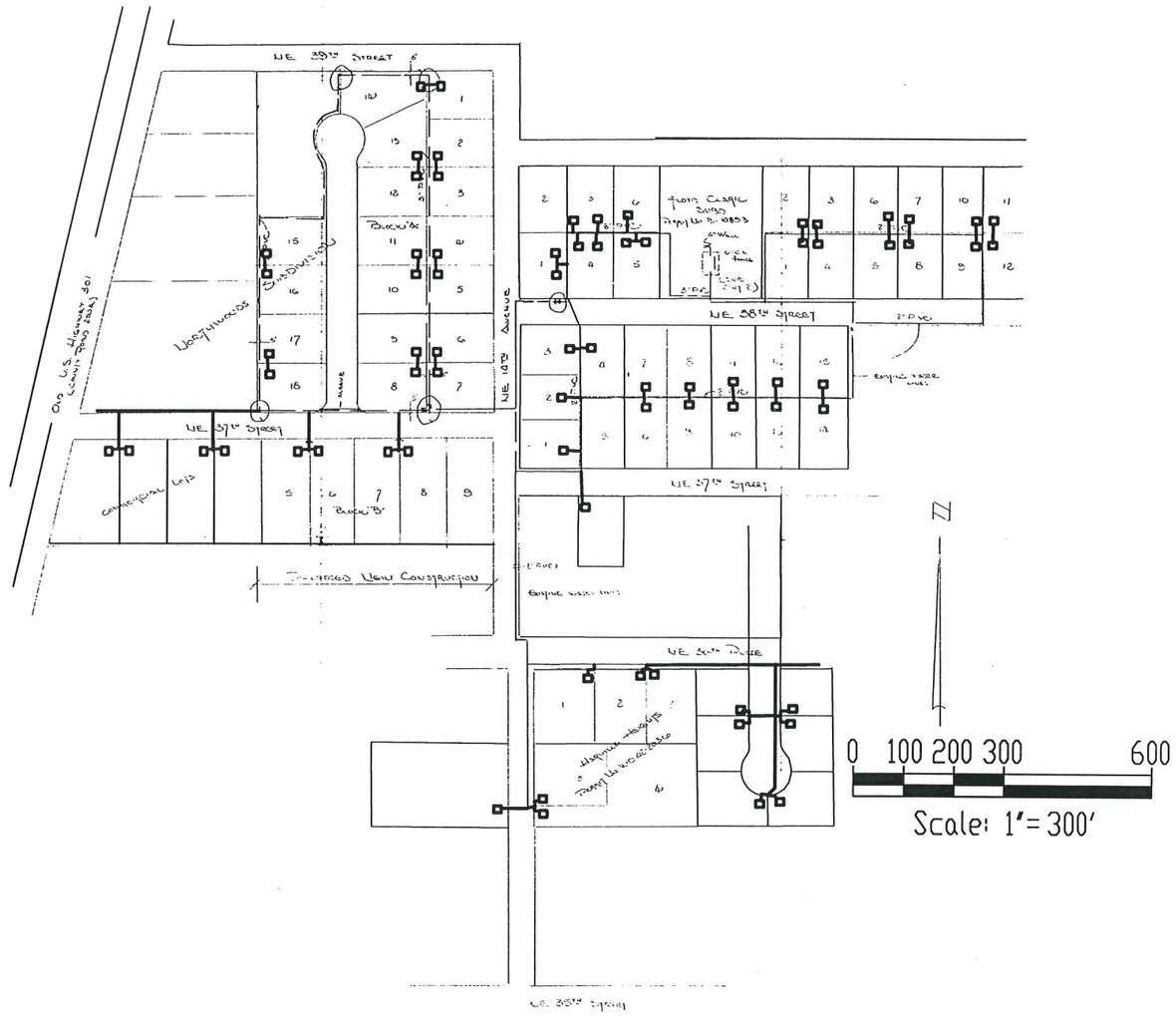
more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(b), F.A.C.]

COMMENTS (continued):

- Suppliers of water shall notify affected water customers in writing or via telephone, newspaper, radio, or television; and telephone, and speak directly to a person at, the appropriate DEP District Office by no later than the previous business day before taking PWS components out of operation for planned maintenance or repair work if the work is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(d), F.A.C.]
- Suppliers of water shall issue precautionary “boil water” notices as required or recommended in the Department of Health’s “Guidelines for the Issuance of Precautionary Boil Water Notices” as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(11), F.A.C.]

Inspector Signature	*Reviewer Signature*
Viviana Penuela Useche *Printed Name*	Christine Daniel *Printed Name*
Environmental Specialist *Title*	Environmental Manager *Title*
2-21-18 *Date*	3/1/18 *Date*

APPENDIX F: DISTRIBUTION MAP



THIS DRAWING IS A COPY OF AN ORIGINAL OBTAINED FROM SUNSHINE UTILITIES, INC.

Floyd Clark

H. W. BARRINEAU & ASSOCIATES, INC.
3100 SOUTHEAST 17TH ST. SUITE 602 OCALA, FLORIDA 34471
TEL (352) 840-9580
FAX (352) 840-9774

HODGES ~~NORTH~~

SUNSHINE UTILITIES INC.
OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PWM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9636-02

1

Sheet 1 Of 1



woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Fore Oaks Estates

210 South Florida Avenue | Suite 220
Lakeland, Florida 33801
800.426.4262

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

0233748.01
CSWR
July 2021

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Appendix C: Emergency Response Plan
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» SWAPP Homepage
» Search By County
» Search by PWS Name or Number
» How to Help?

Definitions

» Aquifers
» Public Water Systems
» Assessment
» Potential Contaminants
» Susceptibility
» Prevention

Contact Us

» Email
» Mailing Address
» Source Water Protection Workshop

EPA Source Water Protection website

Source Water Assessment & Protection Program

Results for: 2019

FORE OAKS ESTATES
NE 49TH/2ND AVE/LFT ON NE 51ST
OCALA, FL 34470

Public Water System ID: 3424644
County: MARION
DEP Regulatory Office: DEP Central District
3319 Maguire Blvd, Suite 232
Orlando, FL 32803
407-897-4100
Public Water System Type : COMMUNITY
Public Water System Source : GROUND
Primary Use: SUBDIVISION
Population Served: 793
Size of Assessment Area:
GROUND: For this system, a 1000-foot radius circle around each well was used to define the assessment area.

Number of Wells: 2

Well ID	Owner ID	FLUWID	Status	Well Depth(ft)	Aquifer
5973	WELL#3 6"/84'/165'	AAE0271	ACTIVE	165	Floridan Aquifer
5972	WELL#2 6"/85'/165	AAE0270	ACTIVE	165	Floridan Aquifer

Results:

GROUND WATER:
A search of the data sources indicated no potential sources of contamination.

Last updated: February 19, 2020

Accessibility Information

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3900 Commonwealth Boulevard M.S. 49
Tallahassee, Florida 32399
850-245-2118 (phone) /
850-245-2128 (fax)

APPENDIX B: TANK INSPECTION REPORT

INSPECTION AND TESTING of HYDROPNEUMATIC TANK

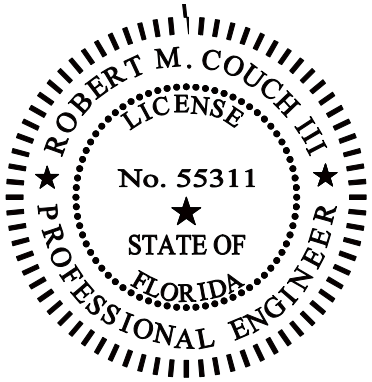
Fore Oaks Estates Tank

Pursuant to Chapter 62-555.350 (1) & (2) F.A.C

Water System:	Fore Oaks Estates
Street Address:	NE 49th/2nd Ave/Left on NE 51st St
City, State:	Ocala, Florida
Phone:	352-347-8228
Contact:	Dewaine Christmas
E-mail:	sunshineutl@aol.com
PWS ID No.:	3424644
County:	Marion
Classification:	Community
Source:	Ground
Ownership:	Sunshine Utilities of North Central Florida
Date:	December 6, 2018

Inspection and Testing by:

Robert M. Couch III, P.E.
ENVIRO-TECH, Inc.
15290 SE Highway 42, PO Box 152
Weirsdale, FL 32195
Telephone: 352-694-1799
E-mail: envirotech@ymail.com



C.O.A. No. 8692 Registration No. 55311

Robert M. Couch III, P.E.

Digitally signed by Robert M. Couch III, P.E.
DN: cn=Robert M. Couch III, P.E., o=ENVIRO-TECH, Inc., ou=Reg. No. 55311, email=envirotech@ymail.com, c=US
Date: 2019.01.05 23:42:59 -05'00'

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1.0 EXECUTIVE SUMMARY

ENVIRO-TECH, Inc. was contracted to perform the five year tank condition inspection on the above mentioned hydro-pneumatic tank.

This condition inspection was performed on December 6, 2018 by Robert M. Couch III, P.E. on the above referenced water tank. The tank was drained and, an internal and external inspection was performed to assess the tank condition as required by the Florida Department of Environmental Protection (FDEP) Rule 62-555.

The tank shell and heads appeared to be in overall good structural condition. Ultrasonic Thickness Measurement (UTM) readings indicated that the average thickness of the tank shell at the time of the field inspection was approximately 6.25 millimeters. UTM readings from the tank heads indicated an average thickness of 9.69 millimeters. The exterior coating of the tank appeared to be in overall fair condition with no notable surface corrosion. The interior coating of the tank appeared to be in overall fair condition. The coating on the tank interior had begun to fail and corrosion was noted on the tank floor and walls.

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 55 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 48 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

2.0 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS CHAPTER 62-555.350 (1) & (2)

2.1 Operation and Maintenance of Public Water Systems

(1) Suppliers of water shall operate and maintain their public water systems so as to comply with applicable standards in Chapter 62-550, F.A.C., and requirements in this chapter.

(2) Suppliers of water shall keep all necessary public water system components in operation and shall maintain such components in good operating condition so the components function as intended. Preventive maintenance on electrical or mechanical equipment – including exercising of auxiliary power sources, checking the calibration of finished-drinking-water meters at treatment plants, testing of air or pressure relief valves for hydropneumatic tanks, and exercising of isolation valves –shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water; however, in no case shall auxiliary power sources be run under load less frequently than monthly. Accumulated sludge and biogrowths shall be cleaned routinely (i.e., at least annually) from all treatment facilities that are in contact with raw, partially treated, or finished drinking water and that are not specifically designed to collect sludge or support a biogrowth; and blistering, chipped, or cracked coatings and linings on treatment or storage facilities in contact with raw, partially treated, or finished drinking water shall be rehabilitated or repaired. **Finished-drinking-water storage tanks, including conventional hydropneumatic tanks with an access manhole but excluding bladder- or diaphragm-type hydropneumatic tanks without an access manhole, shall be checked at least annually to ensure that hatches are closed and screens are in place; shall be cleaned at least once every five years to remove biogrowths, calcium or iron/manganese deposits, and sludge from inside the tanks; and shall be inspected for structural and coating integrity at least once every five years by personnel under the responsible charge of a professional engineer licensed in Florida.** Dead-end water mains conveying finished drinking water shall be flushed quarterly or in accordance with a written flushing program established by the supplier of water; additionally, dead-end or other water mains conveying finished water shall be flushed as necessary whenever legitimate water quality complaints are received.

2.2 Location of Inspection and Testing Report

Pursuant to Chapter 62-555.350 (2) and 62-555.350 (12) FAC, beginning 28 August 2003, all water systems regardless of size must maintain a copy up-to-date Preventive Maintenance Logs of each water system in the water facility office. The Preventive Maintenance Logs must show the date and type of all maintenance performed and comply with Rule 62-555.350 (2) and 62-555.350 (12), which requires the following:

- Preventive Maintenance Logs on Electrical and Mechanical Equipment
- Cleaning and Inspection Logs of Treatment Facilities and Storage Tanks
- Records of Coatings and Linings Rehabilitation or Repair
- Licensed Engineer Inspection Report (once every 5-years) for Finished-Drinking-Water Storage Tanks and Hydropneumatic Tanks
- Written Flushing Program and Logs showing that Dead-End Water Mains are being flushed at least quarterly
- Isolation Valves Exercise Logs

A copy of this report should be kept with these records.

3.0 HYDROPNEUMATIC PRESSURE TANK INSPECTION AND TEST PROCEDURES

This Inspection and Test Procedures is used as a reference in the overall inspection and testing of this Water System. This procedure is to be updated from time to time to reflect physical and procedural changes to the water system.

Inspection and testing of this tank was conducted by Robert M. Couch III, P.E. with the assistance of Jim Hodges Jr. of Sunshine Utilities of North Central Florida, Inc. The following inspection and testing procedures for hydropneumatic pressure tanks were used:

3.1 Pre-Test Procedures

1. If water service is to be interrupted customers must be notified in advance and if appropriate, boil water notices issued.

2. Turn-off all electrical power to well pumps, air motors, chlorination equipment, etc.

3. Open drain valve to empty tank. This is also a good time to check the valves (exercise them) that isolate the tank to see if they are in fact working as they should. This downtime can also be used to replace a valve if needed.

4. Once depressurized, the site glass is inspected for proper operation.

5. Once the tank is drained, the manway (hatch) will need to be removed for inspection of the interior.

3.2 Visual Inspection

6. Perform visual inspection of the tank exterior and accessories for presence of leaks, shell distortion, signs of settling, deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, accessories, etc.

7. Tank layout and physical measurements

8. Color photographs of the tank exterior and all of the essential appurtenances

9. Perform visual inspection of the tank interior for presence of deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, bio-growths, calcium or iron/manganese deposits, sludge, etc.

3.3 Nondestructive Examination

10. The tank interior coating is then examined for dry film thickness (See PosiTest® DFT Coating Thickness Gauge measurement) or equivalent.

11. The tank exterior is then examined for thickness measurements (See Smart Sensor AR 850+ Ultrasonic Thickness Gauge measurement).

12. If deemed necessary, the tank exterior (or interior) is then examined for porosity, pinholes and leaks (See PCWI porosity detection test, also known as holiday detector test).

3.4 Post-Test Procedures

13. Any coating problems detected should be corrected while the tank is out of service in order to avoid further extensive downtime.

14. Once the tank is inspected and all maintenance items are taken care of, the tank will need to be disinfected prior to placing back in use.

15. Once the tank has been disinfected, bacteriological tests must be performed on water samples (2 per FDEP) taken from the tank discharge. FDEP to clear for service prior to placing back in service.

3.5 Safety of Test Area

The test area should be restricted and barricaded. The porosity testing instrument output can be up to 20,000 volts. Testing should be carried out well clear of personnel not involved in the testing procedure. Should accidental contact be made with the test electrode, the recipient will receive a mild shock. This equipment should never be used by a person with a pacemaker.

4.0 TEST EQUIPMENT DESCRIPTIONS

4.1 AR 850+ Ultrasonic Thickness Gauge



The Smart Sensor AR 850+ Digital Ultrasonic Thickness Gauge is an economical, user-friendly, menu driven, and multi-functional unit offering extensive features from basic measurements to extended memory. This dynamic series of UT gauges is designed to measure the thickness of metallic and non-metallic materials such as steel, aluminum, titanium, plastics, ceramics, glass and any other good ultrasonic wave conductor as long as it has parallel top and bottom surfaces. The AR 850+ gauges will accurately display readings in millimeters after a simple calibration to a known Thickness or sound velocity.

4.1.1 Features

- Main Unit
- Transducer 5 MHz / 2.5 MHz
- Integrated steel calibration plate 4.0mm
- Batteries (2 x AAA)
- Ultrasonic Couplant
- Operation Manual
- Certificate
- Carrying Case
- One Year Warranty

4.1.2 Technical Specification

Display Type	4-digit LCD
Display Resolution	(<100 mm) 0.1 mm
Units	Metric
Measuring Range (steel)	1.2 to 220.0 mm
Sound Velocity Range	1000 to 9999 m/s
Operating Temperature	0 ° C +45° C
Frequency	5 MHz
Power Source	3 X 1.5V AAA batteries
Dimensions	70x145.5x28 mm

4.2 Compact DC Inspector Porosity Detector



Porosity detection of Tanks, Valves, Pumps, Pipeline field joints, and general inspection and maintenance. Suitable for a broad range of testing and inspection requirements. It is recommended that the integral probe be limited to a 125mm flat brush or fan brush.

4.2.1 Standards

ASTM G62-87(1998), ASTM D4787-93(1999), NACE RP0274-98, NACE RP0490-2001, NACE RPO188- 99, JIS G-3491, JIS G-3492, ANSI/AWWA C214-89, ANSI/AWWA C213-94 and ISO 2746:1998

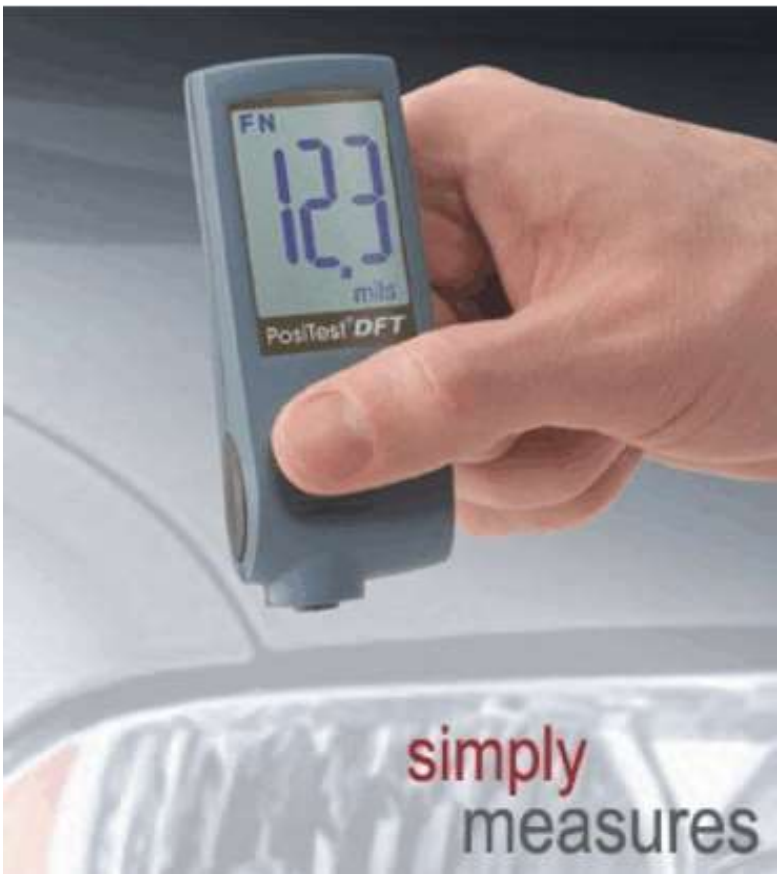
4.2.2 Features

- LED bar graph display of voltage
- "Single" hand-held, lightweight unit for simplicity and ease of operation
- Audible and visual alarms
- LED battery condition indicator
- Integral probe
- Detector
- 7m Earth lead and clamp
- Flat 125mm wide brass wire brush (or optional fan brush)
- Carry Case
- Operating instructions with conformance certificate
- Variable output up to 10kV or Variable output up to 20kV

4.2.3 Technical Specifications

Test Voltage	to 10kV (using 9V Battery)
Output Test Current	up to 100µA
Operating Temperature	-20 to +50ºC
Power Supply	Battery (9V internal)
Unit Dimensions	210 x 75 x 35mm (excl brush) 8.25" x 3.1" x 1.5"
Unit Weight	460g (incl probe)
Shipping Weight	1.5Kg

4.3 PosiTest DFT Coating Thickness Gauge



The new PosiTest DFT Coating Thickness Gauge measures coatings on ALL metals. It is the economical choice that retains the uncompromising quality of Qualitest inspection instruments.

Available in two models:

- PosiTest DFT Ferrous - measures non-magnetic coatings on steel.
- PosiTest DFT Combo - measures both non-magnetic coatings on steel and non-conductive coatings on aluminum, brass, etc. Automatically recognizes the substrate and takes a measurement.

4.3.1 Standards

ASTM B244/B499/B659/D1186/D1400/E376/G12, BS3900-C5, SSPC-PA2, ISO 2178/2360/2808, prEN ISO 19840, and others. Certificate of Calibration traceable to NIST available.

4.3.2 Features

- Fast, repeatable measurements
- No calibration required for most applications
- ZERO feature for rough or curved surfaces
- Handy RESET feature when no zero reference is available
- Strong, wear resistant, ruby-tipped probe
- Audible and visible measurement indication
- V-groove in probe for positioning on cylindrical parts
- Mils/Microns switchable
- Basic instructions on the back of each gauge

4.3.3 Technical Specifications

Measurement Range	0-40 mils (-1000 µm)
Accuracy	±(0.1 mils + 3%) (±(2µm + 3%))
Size	4 x 1.5 x 0.9 in (100 x38 x 23 mm)
Weight	2.5 oz (70 g)



5.0 HYDROPNEUMATIC PRESSURE TANK DESCRIPTION

The hydropneumatic pressure tank inspected and tested is described as follows:

Length: 29'-0" (31'-8" including elliptical heads)
Diameter: 7'-7" outside diameter
Volume: 10,000 gallons with elliptical heads
Tank Age: Approximately 29 years
Operating Pressure: 60 psi

6.0 TESTING

6.1 Porosity Testing

The tank surface was not swept with the Compact DC Inspector Porosity Detector during this inspection as no evidence of pin holes was observed throughout the surface of the tank.

6.2 Interior Coating Testing

No dry film thickness readings were taken within the tank interior as the coating had failed.

6.3 Ultrasonic Metal Thickness Testing

A total of 86 metal thickness readings were taken at various locations on the tank shell and head surface. The average shell reading was 6.25 millimeters in the cylindrical section and 9.69 millimeters in the elliptical heads. Typical industry standard minimum wall thickness for tanks of this size is 1/2" (12.45 mm).

7.0 VISUAL OBSERVATIONS

7.1 Tank Exterior

The exterior of the tank appeared to be in good structural condition. No lichens were growing on the tank exterior at the time of the inspection.

7.2 Tank Interior

The tank interior appeared to be in fair condition. There were significant areas where the coating had begun to fail on the interior tank surface. There was surface corrosion noted in various areas throughout the tank interior.

8.0 DEFINITIONS

Design Pressure - The maximum design pressure determined from the metal thickness.

Maximum allowable working pressure (MAWP) – Maximum pressure that the pressure tank is capable of safely holding at a design maximum temperature (250ºF).

Operating Pressure - The normal maximum operating pressure of the pressure tank. The normal operating pressure must always be below the MAWP. As a rule of thumb the maximum operating pressure should always be less than the MAWP.

Metal Thickness – The thickness of the pressure tank wall (not including a corrosion allowance) to be used in the pressure calculations.

Design Safety Factor on Metal Tensile Strength – A pressure tank is normally designed with a safety factor of 3 to 4 on the metal tensile strength. All pressure tanks are designed to operate with wall stresses below the yield point of the metal used for fabrication.

9.0 TANK PRESSURE CALCULATIONS

The following formula is found in ASME Section I for determination of MAWP:

For tanks with circumferential stress on (longitudinal joints)

P = SEt/(R+0.6t)
= 60 MPa x 1.0 x 6.25 mm / (1137 mm+0.6 x 6.25 mm)
= 0.329 MPa
= 48 psi

When:

t < 0.5R = 0.5 x = 568 mm (true) or
P < 0.385SE = 0.385 x 60 x 1.0 = 23.1 MPa (true)

Where:

t = metal thickness (mm) where t = 6.25 mm
R = inside radius of shell course under consideration (mm) = 1,137 mm
E = joint efficiency for cylindrical or spherical shells = 1.0 for welded tanks and corresponds to a safety factor of 3.5 in the parent metal.
P = maximum allowable working pressure (MPa) where 1 MPa = 145 psi
S = maximum allowable stress value at the operating temperature of the metal = 60 MPa (Safety Factor of 4).

10.0 CONCLUSIONS

Inspection and testing of the Fore Oaks Estates 10,000-gallon hydropneumatic pressure tank was performed on December 6, 2018. In addition to a visual examination, non-destructive examinations were also made. Non-destructive examinations included ultrasonic measurement of the tank wall thickness and visual inspection for pinholes and leaks. No examination of Dry Film Thickness Measurement (DFTM) of the interior coating was performed as the coating had failed on various parts of the interior.

Observations of the tank exterior indicated tank is subject to normal exposure. Observations of tank interior revealed surface corrosion throughout various portions of the tank interior.

11.0 RECOMMENDATIONS

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 55 PSI or lower.
- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.
- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

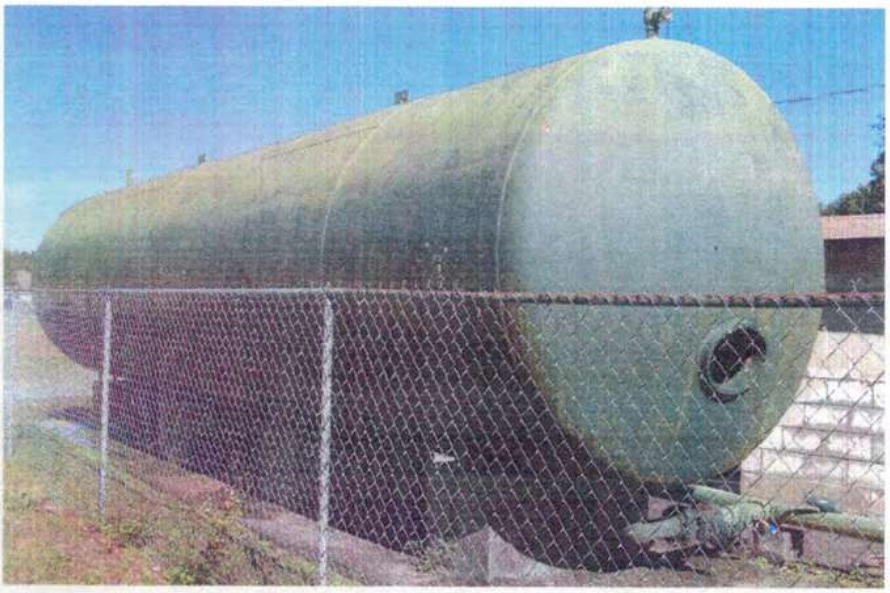
Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 48 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

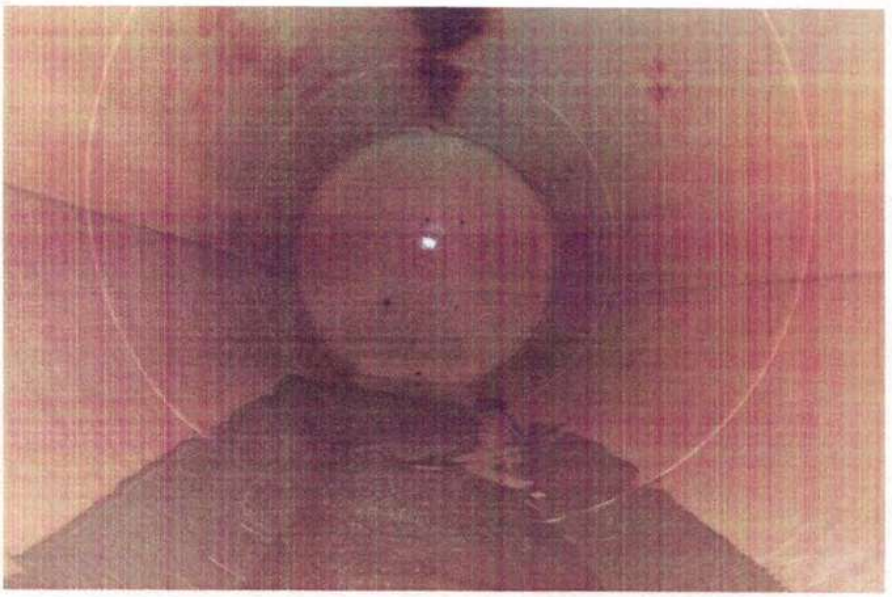
Signed: Robert M. Couch III Date: 1/5/2019

Robert M. Couch III, P.E. Registration No. 55311

Exterior and interior views of tank







APPENDIX C: EMERGENCY RESPONSE PLAN

Disaster-Specific Preparedness/Response Plan

for Public Drinking Water Systems

Per Chapter 62-555.350 (15) F.A.C.

Sunshine Utilities
FORE OAKS

Address:	10230 East Hwy. 25 Belleview, FL 34420
Phone:	352-347-8228
Fax:	352-347-6915
Contact:	Dewaine Christmas, Manager
E-mail:	SunshineUtl@AOL.COM
Connections:	245
PWS:	3424644
County:	Marion

May 17, 2013

Department of Environmental Protection
Michael D. LeRoy, P.E.
John R. Sowerby, P.E.

FRWA Security Staff
Sterling L. Carroll, P.E.
Ken Klos, P.E.
Coy Donaldson

For more information or additional copies of this document contact:

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2970 Wellington Circle ~ Suite 101 ~ Tallahassee
Telephone: 850-668-2746 ~ Fax: 850-893-4581
e-mail: FRWA@frwa.net

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This template and guide has been developed by the Florida Rural Water Association (FRWA) in collaboration with the Washington State Department of Health, Office of Drinking Water, Olympia, Washington; and reviewed by Florida Department of Environmental Protection.

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Preface
Chapter 62-555.350 (15) FAC

Disaster-Specific Preparedness/Response Plans

(15) Suppliers of water who own or operate a community water system serving, or designed to serve, 350 or more persons or 150 or more service connections shall develop a written emergency preparedness/response plan in accordance with Emergency Planning for Water Utilities, AWWA Manual M19, as adopted in Rule 62-555.335, F.A.C., by no later than December 31, 2004, and shall update and implement the plan as necessary thereafter. Said suppliers of water shall coordinate with their Local Emergency Planning Committee and their Florida Department of Law Enforcement Regional Security Task Force when developing their emergency plan and shall include in their plan all of the information in paragraphs (a) through (e) below.

(a) A Communication Charts as described in Chapter 5 of AWWA Manual M19.

(b) Written agreements with other agencies, utilities, or response organizations.

(c) A disaster-specific preparedness/response plan as described in Chapter 5 of AWWA Manual M19 for each of the following disasters: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release. Each disaster-specific preparedness/response plan shall incorporate the results of a vulnerability assessment; shall include actions and procedures, and identify equipment, that can obviate or lessen the impact of such a disaster; and shall include plans and procedures that can be implemented, and identify equipment that can be utilized, in the event of such a disaster.

(d) Details about how the water system meets the standby power requirements under subsection 62-555.320(14), F.A.C., and, if applicable, recommendations regarding the amount of fuel to maintain on site, and the amount of fuel to hold in reserve under contracts with fuel suppliers, for operation of auxiliary power sources.

(e) If applicable, recommendations regarding the amount of drinking water treatment chemicals, including chemicals used for regeneration of ion-exchange resins or for onsite generation of disinfectants, to maintain in inventory at treatment plants.

Specific Authority 403.861(9) FS. Law Implemented 403.852(12), 403.853(6), 403.861(17) FS. History-New 11-19-87, Formerly 17-22.650, Amended 1-18-89, 1-1-93, Formerly 17-555.350, Amended 8-28-03.

Time Extension for Submitting/Completing ERP – December 31, 2005

From: Hoofnagle, Van
Sent: Thursday, October 21, 2004 11:25 AM
Subject: Time Extension for Submitting/Completing ERP
Importance: High

I am sending this e-mail because of possible confusion in some FDEP District Offices or ACHDs regarding the deadline for compliance with the emergency preparedness/response plan requirements in FAC subsection 62-555.350(15).

As John Sowerby and other staff mentioned during Focus On Change presentations early this year on FAC Rule 62-555.350 and during training this summer on the recent amendments to FAC Chapter 62-555, the FDEP intends to amend FAC subsection 62-555.350(15) to give all affected community water systems (i.e., all community water systems serving 350 or more persons or 150 or more service connections) **until the end of 2005** instead of the end of this year to complete a comprehensive emergency preparedness / response plan as required by FAC subsection 62-555.350(15). At this point, it will likely be after the end of this year before we officially make this change to FAC subsection 62-555.350(15). In the meantime, please do not take any enforcement action against

community water systems who fail to meet the 12/31/04 deadline in FAC subsection 62-555.350(15). Thanks.

Van Hoofnagle
DEP Drinking Water Administrator

Section 1
Communication Charts

The first response step in any emergency is to inform the person at the top of this list, who is responsible for managing the emergency and making key decisions. List the water system chain of command in order of contact.

Water System Chain of Command – Lines of Authority

Order	Name & Title	Responsibilities During an Emergency	Contact Information
1	Dewaine Christmas Manager	Responsible for overall management and decision making. The manager is the lead for managing the emergency and providing information to regulatory agencies. All communications to external parties are to be approved by the manager.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl@AOL.Com
2	James Hodges Jr. Field Supervisor	Responsible for decision making in the field. In charge of overall maintenance, and repairs to all components of water system.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl @AOL.Com
3	Kelvin Edun Water Treatment Plant Operator	Responsible for running water treatment plant, performing inspections, maintenance, sampling and relaying all critical information to Field Supervisor.	Phone: Cell: 352-875-5141 Email:
4	Pamela Christmas Office	Responsible for assisting the manager in administrative duties and emergencies.	Phone: 352-347-8228 Cell: 352-245-4743 Email:
5			Phone: Cell: Email:
6			Phone: Cell: Email:
7			Phone: Cell: Email:

Emergency Notification

Notification call-up lists - Use these lists to notify important parties of an emergency.

Emergency Notification List

Organization or Department	Name & Position	Telephone	Cell Phone	e-mail
State Warning Point	**Duty Officer**	**800-320-0519**	800-320-0519	N/A
Local Law Enforcement	EOC Commander	352-622-3205		Pstefanski@sheriff.marioncountyfl.org
Fire Department		911		
Emergency Medical Services		911		
Water Operator (if contractor)	Kelvin Edun Operator	352-875-5141		
County Health Department	Tom Moore Director of Environmental Health	352-622-7744	352-266-7486	
DEP District Office	Manny Cardona	407-897-4134	Fax 407-893-4418	
County Emergency Management Dept.	Chip Wildy	352-622-3205		
Local Leader (City Mgr., Mayor, Chair. Co. Comm., etc.)				
Local Hazmat Team (if any)		911		
Hazmat Hotline		911		
National Spill Response Center.	Duty Officer	800-424-8802	800-424-8802	N/A
Interconnected Water System(s)				
Neighboring Water System (not connected)				
FRWA Water Circuit Rider	Tom Gustafson	850-668-2746	352-267-1302	

Priority Customers

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Hospital Or Clinic(s)				
Nursing Home(s)				
Public Schools				
Private Schools				
Wastewater Treatment Plant				
Food Processing Or Other Industry				

Service / Repair Notifications

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Electric Utility Co.	City of Ocala	352-651-6666		
Electrician	Melville Electric	352-245-0600		
Gas / Propane Supplier	Belleview Gas	352-245-6055		
Water Testing Lab.	Aqua Pure Lisa Saupp	352-625-2822		
Sewer Utility Co.				
Telephone Co.	Sprint	800-788-3600	611	
Plumber	ACP	352-427-7036		
Pump Supplier	Coast Pump	352-620-0616	352-266-4277	Coastpumpocal@hotmail.com
"Dig Safe" or "One Call"	Sunshine One Call	800-432-4770		
Rental Equip. Supplier	B&M Rental	352-245-3133	352-245-9800	

Service / Repair Notifications				
Organization Or Department	**Name & Position**	**Telephone**	**Cell Phone**	**email**
Chlorine Supplier	Custom Controls	352-622-9244	352-304-0572	
Other Chemical Suppliers				
Radio/SCADA Repair Co.				
Bottled Water Service				
Bulk Water Supplier				
Well Drilling Co.	Earls Well Drilling David Moffitt	352-245-2324	352-817-0502	
Pipe Supplier	National Water Works Roy Sands	352-351-8144	352-266-4705	

Designated Public Spokesperson and Alternates

Designate a spokesperson (alternates) for delivering messages to the news media & public

Public Spokesperson	Name & Position	Telephone	Cell Phone
Spokesperson	Dewaine Christmas Manager	352-347-8228	352-239-1198
Alternate 1	James Hodges Jr. Supervisor	352-347-8228	352-239-1197
Alternate 2			

Key Messages

Develop possible messages in advance, and update them as the emergency develops
▪ We are aware of the emergency and are working diligently to restore your water service.
▪ If you fall under a boil water notice you must bring water to a rolling boil for a period of at least one minute. You only have to boil water for human cunsumption.

▪

Health Advisories – Boil Water Notices

Use the assistance of your County Health Department and/or District FDEP office, and FDEP's Mandatory Health Effects Language, located on FDEP's website at:

http://www.doh.state.fl.us/environment/water/manual/boil.htm

http://www.DEP.state.fl.us/water/drinkingwater/rules.htm,

and click on "Mandatory Health Effects Language"., PLUS EPA's templates at:

http://epa.gov/safewater/pn.html

Click on "Microsoft Word and Word Perfect files of PN templates" (PN means Public Notifications), then determine which "Tier" of notifications is needed and click on the desired software to receive them in.

Section 2
Written Agreements With Other Agencies, Utilities, or Response Organizations

INSERT BELOW information regarding any written agreements with other agencies, utilities, or response organizations, such as emergency interconnects, mutual aid or FlaWARN.

Emergency Interconnect(s)

Information on the location of interconnection(s) (if any), type and size of interconnecting pipe, pumps and accessory equipment, meters at interconnection(s), normal pressures at both ends of interconnection, volume of water from interconnection(s), type of agreement and approvals needed for use, procedures necessary to use interconnection, etc.

Location (Street)	
Location (GPS)	
Description	

Memoranda of Understanding

Organization	
Summary of Understanding	

Mutual Aid Agreements

Organization	Marion Utilities, 352-622-1171
Summary of Understanding	Will render mutual aide – ie: pumps, generators, and other materials necessary to restore water service.

FlaWARN

Organization	
Summary of Understanding	

Section 3
Disaster-Specific Preparedness/Response Plan

Your disaster-specific preparedness/response plan must include a Vulnerability Assessment and preparedness / response plans for: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release.

In any event there are a series of general steps to take:

1. Confirm and analyze the type and severity of the emergency.
2. Take immediate actions to save lives.
3. Take action to reduce injuries and system damage.
4. Make repairs based on priority demand.
5. Return the system to normal operation.

Vulnerability Assessment

It is essential that water systems identify and assess the vulnerability of each system component for both natural and human-caused emergencies, before preparing their disaster-specific preparedness/response plans. Prepare your Vulnerability Assessment by completing the table below:

Facility Vulnerability Assessment

System component	Description and condition	Vulnerability	Security improvements (indicate existing or proposed)
Raw Water Sources	(1) 6" and (1) 8" groundwater wells located several hundred feet from homes. Wells are in good condition. We have wellhead protection in place.	The wells are most vulnerable to above ground activities because it is only 165 FT deep.	1.Purchase land surrounding well. 2. Secure well house to foundation and install lighting around well house.
Pump-house and pumping facilities	The pump-house and pumping facility are in good condition.	Pump location is fully fenced with a locked gate.	Install tamper proof padlocks.
Treatment Facilities	There is a hypo-chlorination system inside of pump house. System is in good condition.	Chlorination systems are not subject to power outages.	There is a backup generator on site in compliance with CH. 62-555.320(14)FAC
Storage Facilities	Hydro pneumatic tank is fenced in good condition.	Tank is not in a lighted area.	Install lighting in area of tank.
Computer and telemetry systems	Computers are in utilities main office and are in good condition.	Computers should be better protected against cyber attack or hacking.	Secure computers with firewalls & virus protection.

A. Vandalism or Sabotage Response Procedures

1. Utility staff first aware of incident:
    a) Calls 9-1-1/ Local Law Enforcement.
    b) Calls Manager
2. Manager determines severity of incident.
    a) Field supervisor determines if vandalism or sabotage will effect the water quality.
    b) Manager reports incident to the state warning point.
3. Field supervisor directs repairs as needed.
    a) Complete repairs
    b) Update ERP as needed.

B. Drought Response Procedures

Include water use restrictions per Consumptive Use Permit

1. Manager coordinates with the local Water Management District (WMD) regarding drought conditions.
    a) If drought conditions exist, a water conservation plan will be initiated.
    b) Literature will be distributed to customers regarding the drought.
    c) Conservation material will be distributed to customers on conservation measures.
    d) Customers not abiding by restrictions will be reported to WMD.
    e) Manager updates ERP as needed.

C. Hurricane Preparedness & Response Procedures

Pre- Hurricane **(36 to 48 hrs prior to arrival)**	1. Manager coordinates with local EOC. 2. Field supervisor checks operation of standby power. 3. Field supervisor secures fuel and treatment chemicals for a 10 day period. 4. Manager replenishes inventory of spare parts.
Hurricane Watch **(24 to 36 hrs prior to arrival)**	1. Manager cancels all time off for employees. 2. Manager issues work assignments in advance in case of communication loss. 3. Employees all top off fuel in vehicles & standby generators. 4. Manager authorizes employees to secure their personal property and arrange for the safety of family members.
Hurricane Warning (24hrs or less prior to arrival)	1. Employees report to designated areas and wait for instructions. 2. Employees load truck with supplies. 3. Employees follow evacuation protocol.
Recovery Procedures	1. Manager coordinates with local EOC. 2. Manager issues boil water notices if needed. 3. Field supervisor coordinates repairs. 4. Manager makes contact with the appropriate DEP office. 5. After repairs are completed samples are taken. 6. When samples come back clear – boil water notice is lifted. 7. Manager files all malfunction reports with the DEP. 8. Field supervisor inspects all systems to make sure everything is running smooth.

D. Structure Fire Response Procedures

1. Utility staff discovering fire:
    a) Evacuate structure on fire.
    b) Call 9-1-1
2. Manager determines severity of incident.
    a) Manager contact State Warning Point.
    b) Field supervisor coordinates repairs when fire is extinguished.
3. Field supervisor reports to manager when repairs are complete.
    a) Manager reports completion of all repairs to any Gov. agency.
    b) Manager updates ERP as needed.

E. Flood Preparedness & Response Procedures

(Is any critical part of your system in a flood prone area?)

None of our systems are in a flood prone area.

F. Forest or Brush Fire Response Procedures

(Is any critical part of your system subject to forest or brush fires?)

1. Utility staff discovering fire.
    a) Orders evacuation of any threatened buildings.
    b) Calls 9-1-1 to report fire.
2. Manager determines the severity of fire.
    a) Manager contacts the State Warning Point.
    b) Field supervisor inspects for any damage and coordinates repairs after fire is extinguished.
3. Field supervisor reports to manager that all repairs are complete.
    a) Manager updates the ERP as needed.
    b)

G. Hazardous Material Release Response Procedures

Do you have any hazardous material (chlorine gas) at your water system?

We have no Hazardous materials at any of our water systems.

H. Other Disaster Response Procedures

Are there other disasters that you want to prepare for, such as a Contamination event, SCADA Attack, or Structural Damage from an Intentional Act?

Contamination

1.
   a)
   b)
2.
   a)
   b)

SCADA Attack

1.
   a)
   b)
2.
   a)
   b)

Structural Damage from an Intentional Act

1.
   a)
   b)
2.
   a)
   b)

Section 4
Standby Power Requirements

Include details about how the water system meets the standby power requirements as described in Ch. 62-555.320(14), and 62-555.350(15)(d) FAC for water source, treatment, and pumping facilities necessary to deliver drinking water at a rate at least equal to the Average Daily Water Demand.

Standby Power for Wells or Surface Water Intakes

Standby Power (or by alternate means) to OPERATE WELLS at Average Daily Demand

Average Daily Demand (ADD) in gpd or gpm	47354 gpd
Wells Needed to Supply Average Daily Demand	1
Standby Generator (kW) Needed for ADD &	15 KW
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	We will have reserve fuel in the case of an emergency.

Standby Power for Treatment Facilities

Standby Power (or by alternate means) to TREAT WATER at Average Daily Demand

Treatment Units Needed to Supply ADD	
Standby Generator (kW) Needed to Treat ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Standby Power for Pumps

Standby Power (or by alternate means) to PUMP WATER at Average Daily Demand

Pumps Needed to Supply ADD	
Standby Generator (kW) Needed to Pump ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Section 5
Drinking Water Treatment Chemicals & Disinfectants

Include recommendations regarding the amount of drinking water treatment chemicals, to maintain in inventory at treatment plants. Do not just list chemical storage capacity, but instead recommend the minimum amount of chemicals to maintain in inventory, which depends upon the location and reliability of chemical suppliers, the status of impending disasters, etc.

Disinfection Treatment Information

Disinfection Chemical(s)	Chemical / Location No. 1	Chemical / Location No. 2
Type of Chemical	Chlorine	
Type of Chemical Feed	Hypo-Chlorinator	
Chemical Storage Location	On site in the pump house.	
Recommended Minimum Amount to be Maintained in Storage (gal)	55 gallons	

Other Chemical Information

Chemical(s) Used	Chemical #1	Chemical #2	Chemical #3	Chemical #4
Type of Chemical				
Type of Chemical Feed				
System Location				
Chemical Storage Location				
Recommended Minimum Amount to be Maintained in Storage (gal)				

Appendix A
Basic System information

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Keep this basic information readily available for when you need it for emergency responders, repair people, the news media and potentially, an emergency operator.

Basic System Information

GPS coordinates will help emergency crews find your system following a major catastrophe.

System identification number (PWS ID)	**3424644**	
System name and address	**FORE OAKS**	
GPS Coordinates	Latitude:	Longitude:
Basic description and location of system facilities	**5148 NE 1st Ave**	
Population served and service connections.	Population =	Connections = 245
System Owner	**Sunshine Utilities of Central Florida, Inc.**	
Management Authority	**Owner and Manager**	
Name, title, and phone numbers of person responsible for maintaining and implementing the ERP.	**Dewaine Christmas** **Manager**	**352-347-8228 phone** **352-239-1198 cell**

System Demand

Demand based on Monthly Operational Records and system capacity based on Sanitary Survey.

Average Daily Demand (gpd)	47354 GPD
Maximum Daily Demand (gpd)	62000GPD
System Capacity (gpd)	421200 GPD
Peak Hour Demand (gpm)	N/A

Location of Pertinent Information

Item	Location
Distribution System Map	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
O&M Manual(s)	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
Start-Up / Shut-Down Procedures	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.

Well Information

GPS coordinates will help emergency crews find wells following a major catastrophe.

Well Information	Well No. 1	Well No. 2	Well No. 3	Well No. 4
GPS well tag #				
Location (street)	NE 1st AVE	NE 1st AVE		
GPS Coordinates	Lat: Long:		Lat: Long:	Lat: Long:
Well Depth (ft)	165 FT	165 FT		
Well Yield (gpd)	367200GPD	421920GPD		
Pump Type	Submersible	Submersible		
Manufacturer	Sta-Rite	Sta-Rite		
Capacity (gpm)	255 GPM	293GPM		
Motor Manufacturer	Franklin	Franklin		
Horsepower	5 HP	20HP		
Phase	3	3		
Volts/Amps	230 volts			

Surface Water Sources

GPS coordinates will help emergency crews find surface water intakes following a major catastrophe.

Surface Water Information	Intake No. 1	Intake No. 2
Location (Street / Description)		
GPS Coordinates	Lat: Long:	Lat: Long:
Critical Water Level		

Finished Water Storage

GPS coordinates will help emergency crews find tanks following a major catastrophe.

Name of Storage Unit	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Location (Street)				
Location (GPS)	Lat: Long:	Lat: Long:	Lat: Long:	Lat: Long:
Type (ground, elevated, etc.)				
Capacity (gal)				
Empty Elevation				
Overflow Elevation				

High Service Pumps

HSP	HSP No. 1	HSP No. 2	HSP No. 3	HSP No. 4
Location (street)				
Pump Type				
Manufacturer				
Capacity (gpm)				
Motor Manufacturer				
Horsepower				
Phase				
Volts/Amps				

Other Applicable Information

Appendix B
Training and Rehearsals

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Event	Description	People & Organizations Involved	Date

Appendix C
Plan Approval

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Plan Approval

This plan is officially in effect when reviewed, approved, and signed by the following people:

Name / Title	Signature	Date
Hodges Family Trust		

APPENDIX D: CONSUMER CONFIDENCE REPORT

Certification of Delivery of Consumer Confidence Report

GENERAL INSTRUCTIONS: This form shall be completed by all community water systems (CWSs) that have prepared a Consumer Confidence Report (CCR) in accordance with Rule 62-550.824, F.A.C., Consumer Confidence Reports. At the end of this form is a certification in which a system's authorized representative shall certify that the reported information is accurate and is in conformance with Rule 62-550.824, F.A.C. **COMPLETE THIS FORM AND SUBMIT IT BY AUGUST 10,** together with a copy of your system's CCR, sample email or water bill (with URL notification of CCR, if applicable), and any newspaper notice(s) and posted notice(s) of your CCR, to the appropriate DEP district office or Approved County Health Department (ACHD). Systems serving 100,000 or more persons posting their CCRs on publicly accessible Internet sites shall provide the information on the appropriate Internet link(s). All information provided on this form must be typed or printed in ink.

I. General Water System Information. (To be completed by all community water systems.)

System name: Fore Oaks Contact person: Dewaine Christmas

PWS Identification number (PWS ID): 3424644 Contact phone number: (352)347-8228

Mailing address: 10220 East Hwy 25 City: Belleview

State: Fl Zip: 34420-5531 Population served (not the number of "service connections"): _____

II. CCR Distribution Method. (To be completed by all community water systems. Choose A or B as appropriate.)

☐ A. We mailed, emailed, or otherwise directly delivered a copy of our CCR to each customer on _____ (enter date(s) of mailing or delivery) using the method(s) checked below:

- ☐ a. **Mailed** CCR
- ☐ b. **Mailed** notice (e.g. water bill) with **direct URL** to the CCR
- ☐ c. **Emailed** CCR as an **embedded** image or as an **attachment**
- ☐ d. **Emailed** notice with a **direct URL** to the CCR
- ☐ e. **Otherwise directly delivered** CCR to every customer. Explain: _____

☑ B. We were eligible to use a mailing waiver and used a mailing waiver. (Systems are eligible to use a mailing waiver only if they serve fewer than 10,000 persons, have not had any MCL or monitoring and reporting (M/R) violations, nor have been issued any formal Notices of Violations (NOVs), Consent Orders, Administrative Orders, or court-ordered civil actions during the calendar year before the year the CCR is due to the customers).

Answer a, b, **and** c below.)

- ☐ a. Date of newspaper: _____
- ☐ b. Name of newspaper/newsletter that published our CCR: _____
- ☑ c. A copy of our notice to customers, informing them that our CCR will not be mailed to them, is attached.

This notice was: ☑ mailed with bill; ☐ published in newspaper/newsletter; or ☐ other (describe)

_____

III. Posting of CCR on the Internet. (To be completed by all CWSs serving 100,000 or more persons.)

We posted our CCR on this publicly accessible internet site: _____

IV. Report on Your Effort to Distribute Your CCR to Your Water Consumers. (To be completed by all CWSs. Check all items that apply - at least one item must be checked.)

In addition to the methods selected in Part II,

■ A. We posted our CCR on this publicly accessible internet site: www.sunshineutilities.org

☐ B. We published our CCR in the local newspaper(s). The name(s) and date(s) of the newspaper(s) are:

_____

RECEIVED
JUL 10 2020
DEP Central District

☐ C. We advertised the availability of our CCR as a press release, radio announcement, or TV announcement.
The type(s) and date(s) of the advertisement(s) are: _____

☐ D. We delivered multiple copies of our CCR to single bill addresses serving several persons.

☐ E. We delivered multiple copies of our CCR to the following community organizations:

_____

☐ F. Our CCR was posted in the following public locations: _____

_____

■ G. Our CCR was distributed by other methods (e.g., additional copies placed in entrance hall to facility). Describe.
Additional copies available at Sunshine Utilities Office

V. Use of Non-English Language in CCR. (To be completed by all community water systems.)

☐ Information in a non-English language was included in our CCR because 20% or more of our customers do not speak English but speak _____. The method we used to determine the proportion of non-English speaking customers is _____

■ This requirement does not apply to our system, because we have no non-English speaking group among our customers equal to or exceeding 20% of our total number of customers.

VI. Other Delivery Requirements. (To be completed by all community water systems.)

(A) Was a copy of your CCR sent to your county health department, as required by rule? ■ Yes ☐ No

(B) Is your system regulated by the Public Service Commission (PSC)? ☐ Yes ☐ No

If Yes, was a copy of your CCR sent to the PSC, as required by rule? ■ Yes ☐ No

(C) If your system sells water to other systems, have you provided them with either a copy of your CCR or the required consumer confidence information? ■ Yes ☐ No ■ Not Applicable

VII. Certification of Delivery of CCR and Compliance with Regulations. (To be completed by all CWSs.)

This statement certifies that the above named community public water system has distributed its CCR for the time period starting ***January 1,*** 2019 ***, and ending December 31,*** 2019, to its customers on 6/15/20 (mm/dd/yy) and provided the appropriate notices of availability according to the requirements listed in this form, which are also found in Rule 62-550.824, F.A.C. This statement also certifies that the reported information is correct and consistent with the compliance monitoring data for the same period previously submitted to the Department, and that the report has been delivered to the agencies identified in Rules 62-550.824(3)(e)3., and 4., F.A.C.

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____

NAME (please print): Dewaine Christmas

TITLE: Manager DATE: 6/26/20

■ **A copy of our CCR is attached, and**

☐ **If using electronic delivery, a copy of our sample email or notice (e.g. water bill), with URL leading directly to the CCR and not a general information website, is attached. For example, if you are using the FRWA website to post your CCR, your URL would be:**

www.frwa.net/2012-Your PWSID Number.pdf (www.frwa.net/2012-0000000.pdf).

SUNSHINE UTILITIES
10230 East Highway 25
Belleview, Florida 34420

Drinking Water Quality Report

Annual Drinking Water Quality Report for 2019

Fore Oaks Estates

Florida Department of Environmental Protection Public Water System ID # 3424644

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

The source of our water is groundwater from two wells located in the community. The wells draw from the Floridan aquifer, one of the world's most protected sources. Our water is chlorinated for disinfection purposes. In 2019 the Florida Department of Environmental Protection conducted an assessment which identifies potential sources of contamination in the vicinity of our wells. The SWAPP (Source Water Assessment and Protection Program) determined our public water system to have no potential sources of contamination. You may obtain more information at the web site *www.dep.state.fl.us/swapp.*

Fore Oaks Estates water system also serves the following communities and businesses; Coventry Subdivision and Ballard Acres. If you have any questions about this report or concerning your water utility please contact **Dewaine Christmas, at Sunshine Utilities, (352) 347-8228,** during normal business hours. We encourage our valued customers to be informed about their water utility.

Sunshine Utilities routinely monitors for constituents in your drinking water according to Federal and State laws, rules and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2019. Data obtained before January 1, 2019, and presented in this report are from the most recent testing performed in accordance with the laws, rules and regulations.

WATER QUALITY TEST RESULTS FOR FORE OAKS

Radioactive Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Alpha Emitters	(pCi/L)	MAR'15	No	3.3	N/A	0	15	Erosion of natural deposits
Radium 226 + 228	(pCi/L)	MAR'15	No	3.3	N/A	0	5	Erosion of natural deposits

Inorganic Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Arsenic	(ppb)	JUN'18	No	0.8	N/A	N/A	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	(ppm)	JUN'18	No	0.003	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chromium	(ppb)	JUN'18	No	1.4	N/A	100	100	Discharge from steel and pulp mills; erosion of natural deposits
Fluoride	(ppm)	JUN'18	No	0.19	N/A	4	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum levels between 0.7 and 1.2 ppm
Nitrate (as Nitrogen)	(ppm)	DEC'19	No	1.38	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium	(ppb)	JUN'18	No	0.6	N/A	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium	(ppm)	JUN'18	No	7.3	N/A	N/A	160	Salt water intrusion; leaching from soil

Stage 2 Disinfectants and Disinfection By-Products

Disinfectant or Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL or MRDL Violation Yes / No	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine	(ppm)	2019	No	0.8	0.4 - 1.2	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Haloacetic Acid(HAA5)	(ppb)	AUG '19	No	0.63	N/A	N/A	MCL = 60	Byproduct of drinking water disinfection

Lead and Copper (Tap Water)

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	AL Violation Yes / No	90th Percentile Result	No. of Sampling Sites Exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper	(ppm)	JUL'18	No	0.23	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead	(ppb)	JUL'18	No	2.2	0	0	15	Corrosion of household plumbing systems; erosion of natural deposits

In the table you may find unfamiliar terms and abbreviations. To help you better understand these terms we have provided the following definitions (please note not all definitions may pertain to your report):

- Action Level (AL) – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial growth.
- Maximum Residual Disinfectant Level Goal (MRDLG) – The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.
- ND – This abbreviation means not detected and indicates that the substance was not found by laboratory analysis.
- Parts per million (ppm) or milligrams per Liter (mg/L) - one part of analyte (by weight) to 1 million parts of water sample (by weight).
- Parts per billion (ppb) or micrograms per Liter (µg/L) - one part of analyte (by weight) to 1 billion parts of water sample (by weight).
- Picocurie per liter (pCi/L) - measure of the radioactivity in water.

What does this mean?

As you can see our system had no violations. We're very proud that your drinking water meets all Federal and State requirements.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Sunshine Utilities is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals, and in some cases radioactive material, and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

A.) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

B.) Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

C.) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

D.) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

E.) Radioactive contaminants, which may be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The FDA (Food & Drug Administration) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care providers about their drinking water. EPA/CDC (Center for Disease Control) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are also available from the Safe Drinking Water Hotline (800-426-4791).

We are committed to ensuring the quality of your water. If you have any questions or concerns about the information provided, please feel free to call the numbers listed.

Sunshine Utilities

10230 East Highway 25, Belleview, FL 34420
Office (352)347-8228 – Fax (352)347-6915

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality of water and services we deliver to you everyday. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

Please follow the link to view your 2019 Annual Water Quality Report.

https://www.sunshineutilities.org/ccr19/2019ForeOaksSD.pdf

APPENDIX E: SANITARY SURVEY REPORT

State of Florida
Department of Environmental Protection
Central District

SANITARY SURVEY REPORT

Plant Name **FORE OAKS ESTATES** County Marion PWS ID # **3424644**
Plant Location NE 49th/2nd Avenue/Left of NE 51st, Ocala, FL 34470 Phone 352/347-8228
Owner Name Sunshine Utilities of Central Florida, Inc. Phone 352/347-8228
Owner Address 10230 SE Highway 25, Belleview, FL 34420-5531
Contact Person Dewaine Christmas Title Owner Phone 352/347-8228
This Survey Date 1/23/18 Last Survey Date 8/19/15 Last Compliance Inspection Date 8/29/14

PWS TYPE: Community

PLANT CATEGORY & CLASS: 5C

MAX-DAY DESIGN CAPACITY: 421,200 gpd

PWS STATUS: Approved

TREATMENT PROCESSES IN USE
Hypochlorination

SERVICE AREA CHARACTERISTICS
Subdivision
Food Service: ☐ Yes ☐ No ☒ N/A

Number of Service Connections 227
Population Served 793 Basis 11/17 MOR

OPERATION & MAINTENANCE LOG: Yes
Location Water treatment plant
Comments

CERTIFIED OPERATOR: Yes
Operator(s) & Certification Class-Number:
Kelvin Edun C-7459

Hrs/day: *Required* Visit *Actual* Visit
Days/wk: *Required* 5+1 *Actual* 5+1
Non-consecutive Days? ☐ Yes ☐ No ☒ N/A
Comments

MONTHLY OPERATION REPORTS (MORs)
MORs submitted regularly? ☒ Yes ☐ No ☐ N/A
Data missing from MORs? ☒ No ☐ Yes ☐ N/A
Average Day (from MORs) 46,423 gpd
Maximum Day (from MORs) 94,00 gpd 5/17
Comments

Flow Measuring Device Flow Meter
Meter Size & Type 4" Sensus
Date Last Calibrated 8/18/16

RAW WATER SOURCE
☒ GROUND; Number of Wells 2
☐ PURCHASED from PWS ID #
☐ Emergency Water Source
Emergency Water Capacity

STANDBY POWER SOURCE: Yes
Source Generac Protector QS
Capacity of Standby (kW) 38
Switchover: ☒ Automatic ☐ Manual
Hrs Operated Under Load 1 hr/wk.
What equipment does it operate?
☒ Well Pumps
☐ High Service Pumps
☒ Treatment Equipment
Satisfy avg. daily demand? ☒Yes ☐No ☐Unknown
Audio-visual alarm? ☒Yes ☐No
Comments

PLANS AND MAPS

Coliform Sampling Plan	☒ Yes	☐ No	☐ N/A
D/DBP Monitoring Plan	☒ Yes	☐ No	☐ N/A
Lead and Copper Plan	☒ Yes	☐ No	☐ N/A
Distribution System Map	☒ Yes	☐ No	☐ N/A
Emergency Response Plan	☒ Yes	☐ No	☐ N/A

Comments

PREVENTIVE MAINTENANCE/O&M

Operation & Maintenance Manual	☒ Yes	☐ No	
Preventive Maintenance Program	☒ Yes	☐ No	
Flushing Program	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A
Isolation Valve Exercise	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A

Comments

CROSS CONNECTION CONTROL
BFPAs None observed # Tested Unknown
WWTP RPZ N/A Date Tested N/A
Written Plan Yes Date 11/14/12
Comments

PWS ID # 3424644
Date 1/23/19

GROUND WATER SOURCE

Well Number (Florida Unique Well ID #)		**2 (AAE0270)**	**3(AAE0271)**		
Year Drilled		1985	1992		
Depth Drilled		165’	165’		
Drilling Method		Combination	Combination		
Type of Grout		Neat cement	Neat cement		
Static Water Level		30’	58’		
Pumping Water Level		Unknown	Unknown		
Design Well Yield		Unknown	Unknown		
Test Yield		Unknown	Unknown		
Actual Yield (if different than rated capacity)		Unknown	Unknown		
Strainer		Unknown	Unknown		
Length (outside casing)		85’	84’		
Diameter (outside casing)		6”	6”		
Material (outside casing)		Black steel	Black steel		
Well Contamination History		None	None		
Is inundation of well possible?		No	No		
6’ X 6’ X 4” Concrete Pad		Yes	Yes		
SET BACKS	Septic Tank	>200’	>200’		
	Reuse Water	N/A	N/A		
	WW Plumbing	>100’	>100’		
	Other Sanitary Hazard	None observed	None observed		
PUMP	Type	Submersible	Submersible		
	Manufacturer Name	Sta-Rite	Sta-Rite		
	Model Number	Unknown	Unknown		
	Rated Capacity (gpm)	225	330		
	Motor Horsepower	10	20		
Well casing 12” above grade?		No*	Yes		
Well Casing Sanitary Seal		OK	OK		
Raw Water Sampling Tap		Yes	Yes		
Above Ground Check Valve		Yes	Yes		
Security		Yes	Yes		
Well Vent Protection		N/A	Yes		

COMMENTS * The Department will continue to accept the well casing height as it currently exists unless there are signs of microbial or chemical contamination.

PWS ID # 3424644
Date 1/23/19

CHLORINATION (Disinfection)
Type: ☐ Gas ☒ Hypo
Make Chem-Tech/Uni-Dose Capacity 15/30 gpd
Chlorine Feed Rate 100% /60% strole
Avg. Amount of Cl_2 gas used N/A
Chlorine Residuals: Plant >2.2 Remote 1.91
Remote tap location 5263 3rd Ave
DPD Test Kit: ☐ On-site ☒ With operator
☐ None ☐ Not Used Daily
Injection Points Prior to hydropneumatic tank
Booster Pump Info N/A
Comments

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

Tank Type/Number	**H**
Capacity (gal)	10,000
Material	Steel
Gravity Drain	Yes
By-Pass Piping	Yes
Protected Openings	Yes
Sight Glass or Level Indicator	Yes
PRV/ARV	Both
Pressure Gauge	Yes
On/Off Pressure	40/60
Access Secured	Yes
Access Manhole	Yes
Tank Sample Tap Location	Discharge piping
Date of Inspection	6/13
Date of Cleaning	6/13

Comments Next tank inspection due 6/18.

DEFICIENCIES:

No deficiencies were noted during this inspection.

MONITORING REMINDER:

- Nitrate and nitrite samples are required to be collected from the point of entry (POE) to the distribution system annually. The 2018 results have not been received.
- The consumer confidence report (CCR) must be delivered to consumers and the Department no later than July 1, 2018, and certification of delivery of the CCR must be submitted to the Department no later than August 10, 2018.
- Monitoring schedules are available on the Central District's Drinking Water Website. https://floridadep.gov/central/central/content/resources-drinking-water-facilities-and-operators-central-district

COMMENTS:

- Contact FRWA (Florida Rural Water Association) at 850-668-2746, or frwa@frwa.net, for free technical assistance with your system. FRWA has extended benefits offered to members.
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.

  Checking the calibration of finished-drinking-water meters at treatment plants shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water. [Rule 62-555.350(2), F.A.C.]
- Suppliers of water shall submit written notification to the Department before beginning work or alterations to the public water system. Each notification shall be submitted to the appropriate Department of Environmental Protection District Office or Approved County Health Department and shall include the following: a description of the scope, purpose, and location of the work or alterations; and assurance that the work or alterations will comply with applicable requirements listed in Rule 62-555.330, F.A.C. Suppliers of water may begin such work or alterations 14 days after providing notification to the Department unless they are advised by the Department that the notification is incomplete or that a construction permit is required.
- Suppliers of water shall telephone the SWO at 1-800-320-0519 immediately (i.e., within two hours) after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving a public water system. [Rule 62-555.350(10)(a), F.A.C.]
- Suppliers of water shall telephone, and speak directly to a person at, the appropriate DEP District Office as soon as possible, but never later than noon of the next business day, in the event of any of the following emergency or abnormal operating conditions:
  - The occurrence of any abnormal color, odor, or taste in a public water system's raw or finished water;
  - The failure of a public water system to comply with applicable disinfection requirements; or
  - The breakdown of any water treatment or pumping facilities, or the break of any water main, in a public water system if the breakdown or break is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(b), F.A.C.]
- Suppliers of water shall notify affected water customers in writing or via telephone, newspaper, radio, or television; and telephone, and speak directly to a person at, the appropriate DEP District Office by no later than the previous business day before taking PWS components out of operation for planned maintenance or repair work if the work is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(d), F.A.C.]

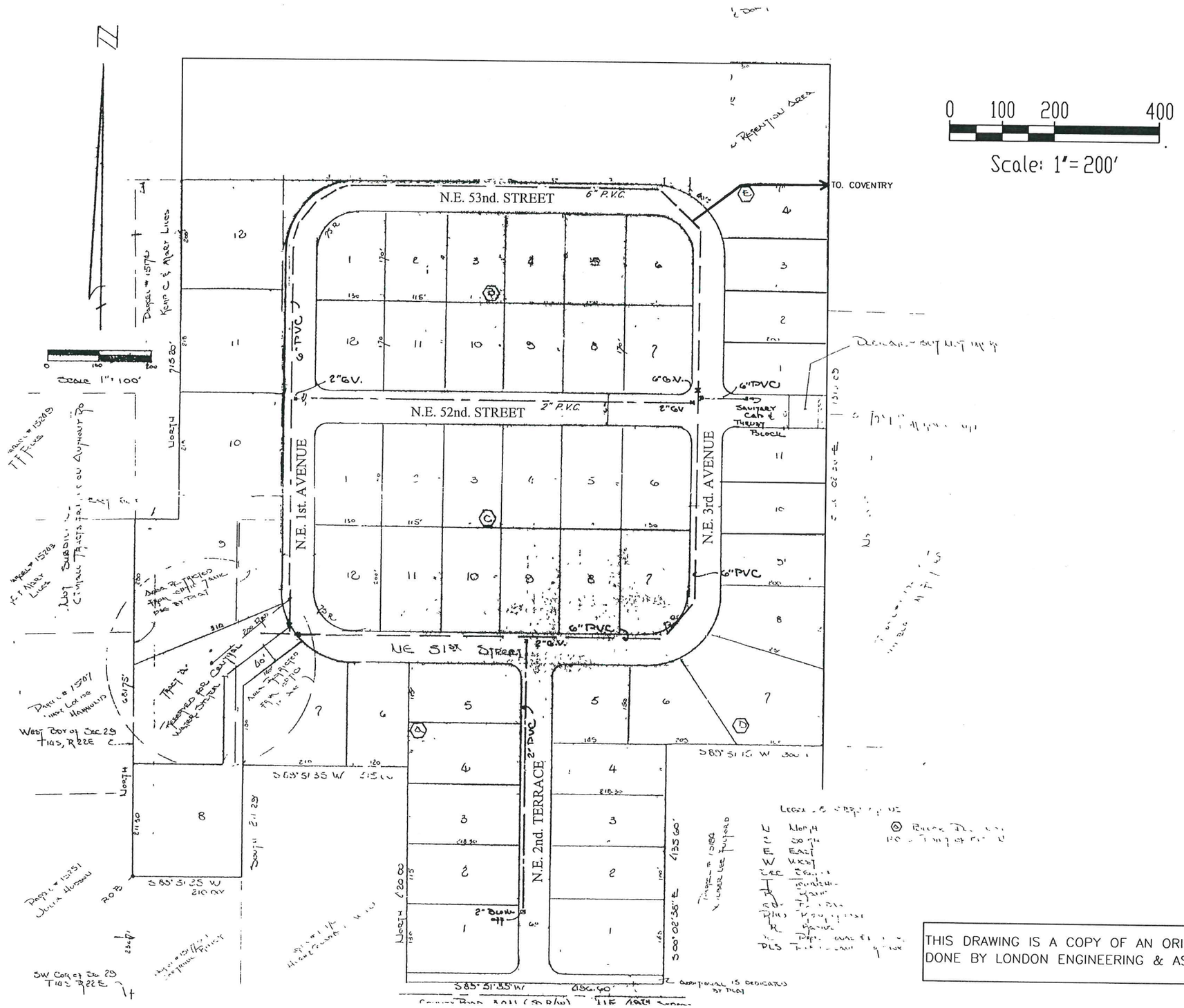
PWS ID # 3424644
Date 1/23/19

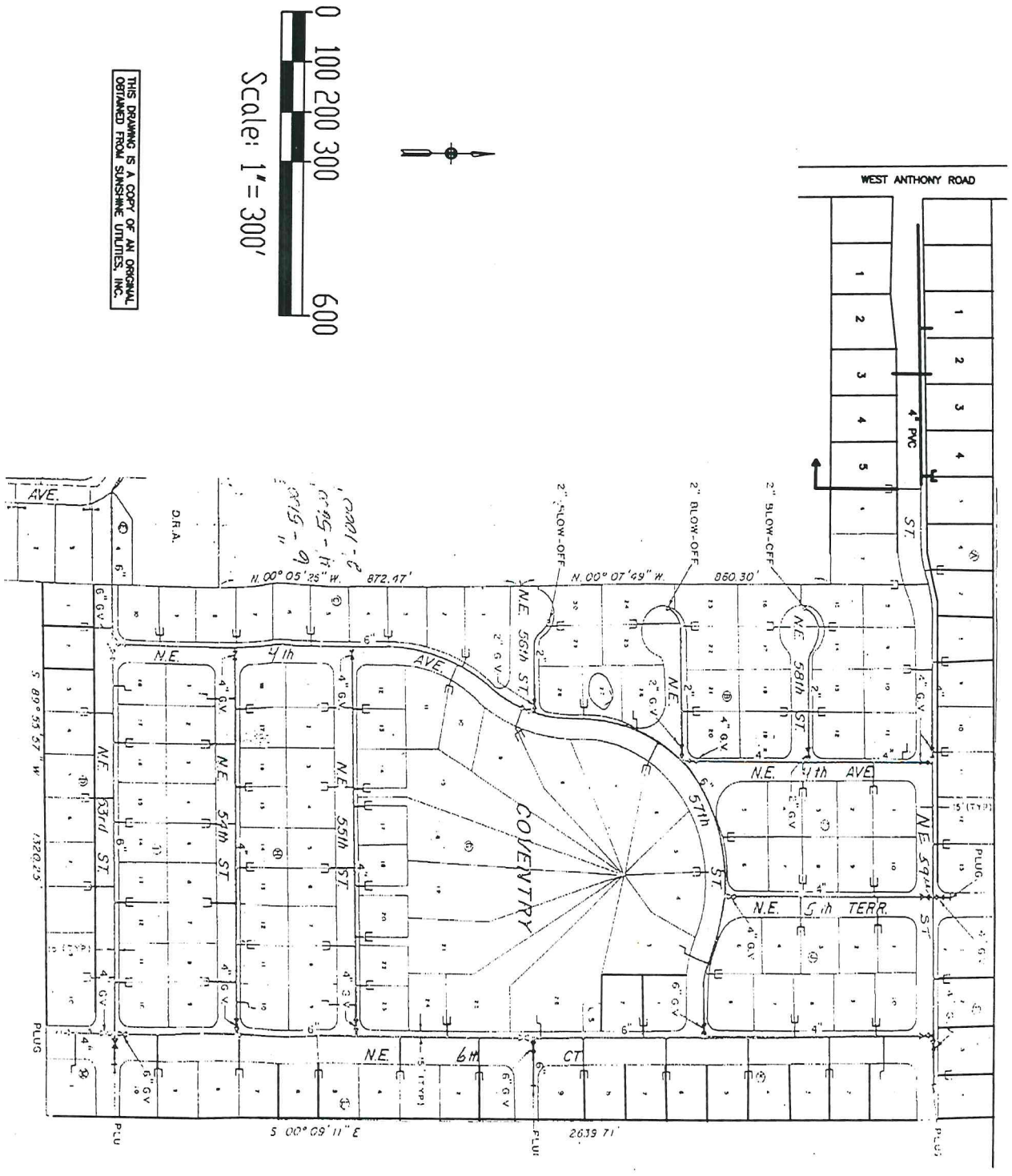
COMMENTS (continued):

- Suppliers of water shall issue precautionary "boil water" notices as required or recommended in the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(11), F.A.C.]

Inspector Signature	*Reviewer Signature*
Viviana Penuela Useche	Christine Daniel
Printed Name	*Printed Name*
Environmental Specialist	Environmental Manager
Title	*Title*
2-21-18	3/1/18

APPENDIX F: DISTRIBUTION MAP


N
0 100 200 400
Scale: 1"= 200'
N.E. 53nd. STREET
N.E. 52nd. STREET
N.E. 1st. AVENUE
N.E. 3rd. AVENUE
N.E. 2nd. TERRACE
NE 51st Street
TO. COVENTRY
RETENTION AREA
6" P.V.C.
6" PVC
2" G.V.
6" G.V.
2" DRAIN
SANITARY CAP & THRUST BLOCK
Scale 1" = 100'
Deed # 15749
Kent C & Mary Lucas
Deed # 15203
F.T. Allen Lucas
Lot Subdivision of Small Tracts
Area Retained for Septic Tank and Drainfield by This Plat
Tract "A" Reserved for Central Water System
Area Retained for Septic Tank and Drainfield by This Plat
Deed # 15201
Mary Louise Hammonds
West Boy of Sec 29 T16S, R22E
Deed # 15751
Julia Hudson
SW Cor of Sec 29 T16S R22E
S 89° 51' 35" W 210.00'
S 89° 51' 35 W 315.00'
S 89° 51' 35" W 630.00'
S 89° 51' 35" W 420.00'
S 00° 02' 36" E 1335.00'
NORTH 1320.00'
SOUTH 210.00'
715.00'
Deed # 15749
Kent C & Mary Lucas
Deed # 15203
F.T. Allen Lucas
Lot Subdivision of Small Tracts
Deed # 15751
Julia Hudson
Deed # 15201
Mary Louise Hammonds



DRN	CHK	DATE	DESCRIPTION
PMM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9636-02

1

Sheet 1 OF 1

COVENTRY

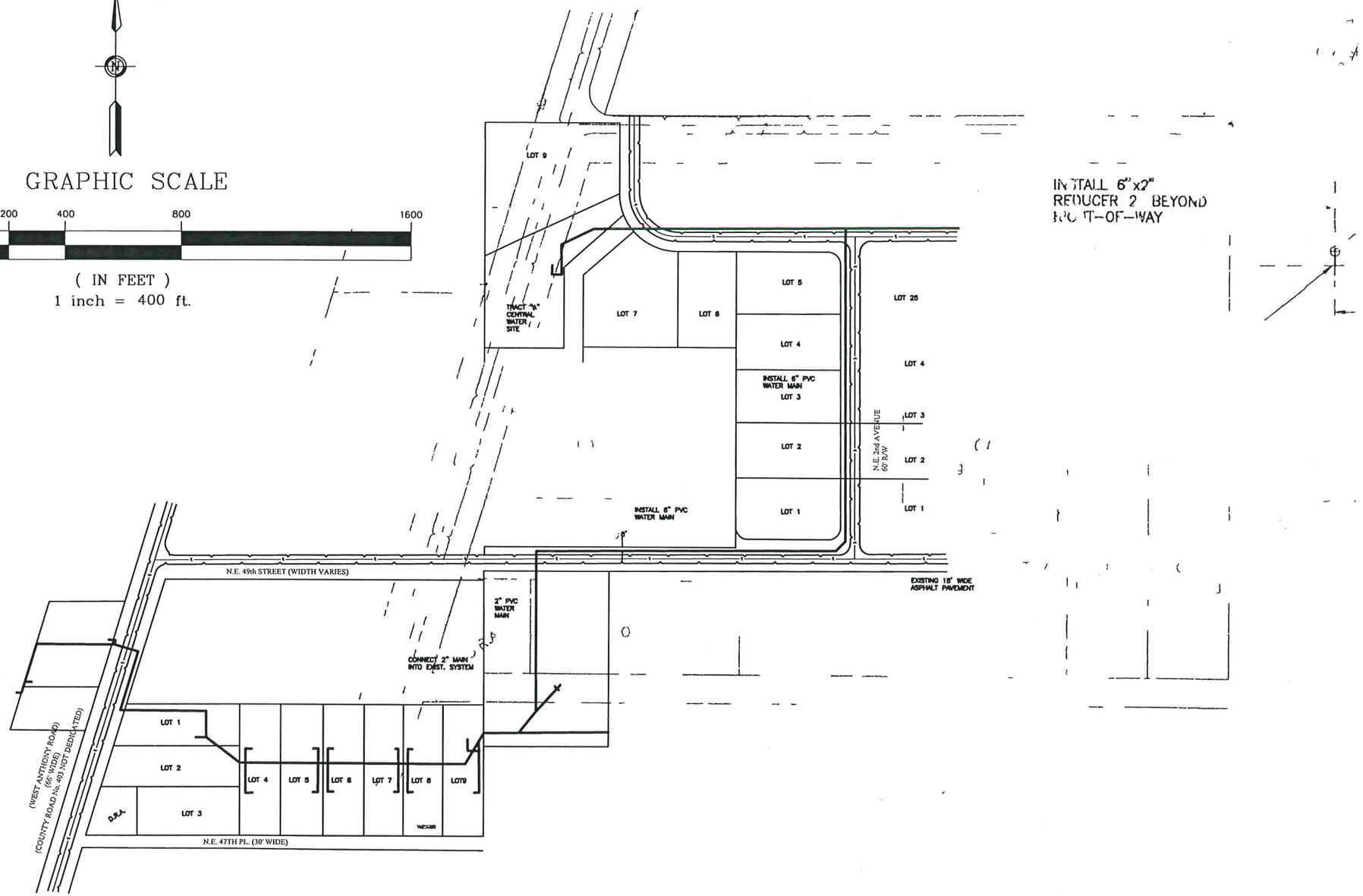
SUNSHINE UTILITIES INC.
OCALA, FLORIDA

H. W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17th ST. SUITE 802
OCALA, FLORIDA 34471
FAX (352) 840-9526
(352) 840-9774

GRAPHIC SCALE

400 0 200 400 800 1600

(IN FEET)
1 inch = 400 ft.



THIS DRAWING IS A COPY OF AN ORIGINAL
DONE BY LONDON ENGINEERING & ASSOCIATES, INC.

H. W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17TH ST. SUITE 602 OCALA, FLORIDA 34471
PH (352) 840-8536
FAX (352) 840-8774

BALLARD ACRES
SUNSHINE UTILITIES INC.
OCALA, FLORIDA

DESCRIPTION	DATE	CHK	DRN
ORIGINAL ISSUE	11 APR 97	HWB	PWH

Project No. 9636-02



woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Hilltop at Lake Weir Subdivision

210 South Florida Avenue | Suite 220
Lakeland, Florida 33801
800.426.4262

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

0233748.01
CSWR
July 2021

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» Search By County
» Search by PWS Name or Number
» How to Help?

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» Public Water Systems
» Assessment
» Potential Contaminants
» Susceptibility
» Prevention

Contact Us

» Email
» Mailing Address
» Source Water Protection Workshop

EPA Source Water Protection website

Source Water Assessment & Protection Program

Results for: 2019

HILLTOP AT LAKE WEIR
SE 125TH PL CR 25
BELLEVIEW, FL 34420

Public Water System ID: 3424662
County: MARION
DEP Regulatory Office: DEP Central District
3319 Maguire Blvd, Suite 232
Orlando, FL 32803
407-897-4100
Public Water System Type : COMMUNITY
Public Water System Source : GROUND
Primary Use: SUBDIVISION
Population Served: 448
Size of Assessment Area:
GROUND: For this system, a 1000-foot radius circle around each well was used to define the assessment area.

Number of Wells: 2

Well ID	Owner ID	FLUWID	Status	Well Depth(ft)	Aquifer
5996	6"WELL 101'/225' 190GPM	AAE0264	ACTIVE	224	Floridan Aquifer
37577	WELL #2	AAI5708	ACTIVE	210	Floridan Aquifer

Results:

GROUND WATER:
A search of the data sources indicated no potential sources of contamination.

Last updated: February 19, 2020

Accessibility Information

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3900 Commonwealth Boulevard M.S. 49
Tallahassee, Florida 32399
850-245-2118 (phone) /
850-245-2128 (fax)

APPENDIX B: TANK INSPECTION REPORT

INSPECTION AND TESTING of HYDROPNEUMATIC TANK

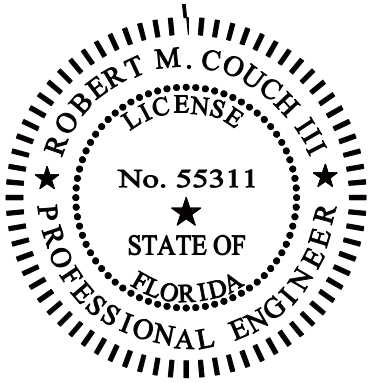
Hilltop at Lake Weir Tank

Pursuant to Chapter 62-555.350 (1) & (2) F.A.C

Water System:	Hilltop at Lake Weir
Street Address:	SE 125th Place CR 25
City, State:	Belleview, Florida
Phone:	352-347-8228
Contact:	Dewaine Christmas
E-mail:	sunshineutl@aol.com
PWS ID No.:	3424662
County:	Marion
Classification:	Community
Source:	Ground
Ownership:	Sunshine Utilities of North Central Florida
Date:	January 10, 2019

Inspection and Testing by:

Robert M. Couch III, P.E.
ENVIRO-TECH, Inc.
PO Box 152
Weirsdale, FL 32195
Telephone: 352-694-1799
E-mail: envirotech@ymail.com



C.O.A. No. 8692 Registration No. 55311

Robert M. Couch III, P.E.

Digitally signed by Robert M. Couch III, P.E.
DN: cn=Robert M. Couch III, P.E., o=ENVIRO-TECH, Inc., ou=Reg. No. 55311, email=envirotech@ymail.com, c=US
Date: 2019.02.07 21:44:04 -05'00'

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1.0 EXECUTIVE SUMMARY

ENVIRO-TECH, Inc. was contracted to perform the five year tank condition inspection on the above mentioned hydro-pneumatic tank.

This condition inspection was performed on January 10, 2019 by Robert M. Couch III, P.E. on the above referenced water tank. The tank was drained and, an internal and external inspection was performed to assess the tank condition as required by the Florida Department of Environmental Protection (FDEP) Rule 62-555.

The tank shell and heads appeared to be in overall fair structural condition. Ultrasonic Thickness Measurement (UTM) readings indicated that the average thickness of the tank shell at the time of the field inspection was approximately 6.75 millimeters. UTM readings from the tank heads indicated an average thickness of 9.56 millimeters. The exterior coating of the tank appeared to be in overall fair condition with no notable surface corrosion. The interior coating of the tank appeared to be in fair condition with minor surface corrosion beginning to form along the tank ridge and walls.

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 55 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 50 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

2.0 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS CHAPTER 62-555.350 (1) & (2)

2.1 Operation and Maintenance of Public Water Systems

(1) Suppliers of water shall operate and maintain their public water systems so as to comply with applicable standards in Chapter 62-550, F.A.C., and requirements in this chapter.

(2) Suppliers of water shall keep all necessary public water system components in operation and shall maintain such components in good operating condition so the components function as intended. Preventive maintenance on electrical or mechanical equipment – including exercising of auxiliary power sources, checking the calibration of finished-drinking-water meters at treatment plants, testing of air or pressure relief valves for hydropneumatic tanks, and exercising of isolation valves –shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water; however, in no case shall auxiliary power sources be run under load less frequently than monthly. Accumulated sludge and biogrowths shall be cleaned routinely (i.e., at least annually) from all treatment facilities that are in contact with raw, partially treated, or finished drinking water and that are not specifically designed to collect sludge or support a biogrowth; and blistering, chipped, or cracked coatings and linings on treatment or storage facilities in contact with raw, partially treated, or finished drinking water shall be rehabilitated or repaired. **Finished-drinking-water storage tanks, including conventional hydropneumatic tanks with an access manhole but excluding bladder- or diaphragm-type hydropneumatic tanks without an access manhole, shall be checked at least annually to ensure that hatches are closed and screens are in place; shall be cleaned at least once every five years to remove biogrowths, calcium or iron/manganese deposits, and sludge from inside the tanks; and shall be inspected for structural and coating integrity at least once every five years by personnel under the responsible charge of a professional engineer licensed in Florida.** Dead-end water mains conveying finished drinking water shall be flushed quarterly or in accordance with a written flushing program established by the supplier of water; additionally, dead-end or other water mains conveying finished water shall be flushed as necessary whenever legitimate water quality complaints are received.

2.2 Location of Inspection and Testing Report

Pursuant to Chapter 62-555.350 (2) and 62-555.350 (12) FAC, beginning 28 August 2003, all water systems regardless of size must maintain a copy up-to-date Preventive Maintenance Logs of each water system in the water facility office. The Preventive Maintenance Logs must show the date and type of all maintenance performed and comply with Rule 62-555.350 (2) and 62-555.350 (12), which requires the following:

- Preventive Maintenance Logs on Electrical and Mechanical Equipment
- Cleaning and Inspection Logs of Treatment Facilities and Storage Tanks
- Records of Coatings and Linings Rehabilitation or Repair
- Licensed Engineer Inspection Report (once every 5-years) for Finished-Drinking-Water Storage Tanks and Hydropneumatic Tanks
- Written Flushing Program and Logs showing that Dead-End Water Mains are being flushed at least quarterly
- Isolation Valves Exercise Logs

A copy of this report should be kept with these records.

3.0 HYDROPNEUMATIC PRESSURE TANK INSPECTION AND TEST PROCEDURES

This Inspection and Test Procedures is used as a reference in the overall inspection and testing of this Water System. This procedure is to be updated from time to time to reflect physical and procedural changes to the water system.

Inspection and testing of this tank was conducted by Robert M. Couch III, P.E. with the assistance of Jim Hodges Jr. of Sunshine Utilities of North Central Florida, Inc. The following inspection and testing procedures for hydropneumatic pressure tanks were used:

3.1 Pre-Test Procedures

1. If water service is to be interrupted customers must be notified in advance and if appropriate, boil water notices issued.

2. Turn-off all electrical power to well pumps, air motors, chlorination equipment, etc.

3. Open drain valve to empty tank. This is also a good time to check the valves (exercise them) that isolate the tank to see if they are in fact working as they should. This downtime can also be used to replace a valve if needed.

4. Once depressurized, the site glass is inspected for proper operation.

5. Once the tank is drained, the manway (hatch) will need to be removed for inspection of the interior.

3.2 Visual Inspection

6. Perform visual inspection of the tank exterior and accessories for presence of leaks, shell distortion, signs of settling, deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, accessories, etc.

7. Tank layout and physical measurements

8. Color photographs of the tank exterior and all of the essential appurtenances

9. Perform visual inspection of the tank interior for presence of deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, bio-growths, calcium or iron/manganese deposits, sludge, etc.

3.3 Nondestructive Examination

10. The tank interior coating is then examined for dry film thickness (See PosiTest® DFT Coating Thickness Gauge measurement) or equivalent.

11. The tank exterior is then examined for thickness measurements (See Smart Sensor AR 850+ Ultrasonic Thickness Gauge measurement).

12. If deemed necessary, the tank exterior (or interior) is then examined for porosity, pinholes and leaks (See PCWI porosity detection test, also known as holiday detector test).

3.4 Post-Test Procedures

13. Any coating problems detected should be corrected while the tank is out of service in order to avoid further extensive downtime.

14. Once the tank is inspected and all maintenance items are taken care of, the tank will need to be disinfected prior to placing back in use.

15. Once the tank has been disinfected, bacteriological tests must be performed on water samples (2 per FDEP) taken from the tank discharge. FDEP to clear for service prior to placing back in service.

3.5 Safety of Test Area

The test area should be restricted and barricaded. The porosity testing instrument output can be up to 20,000 volts. Testing should be carried out well clear of personnel not involved in the testing procedure. Should accidental contact be made with the test electrode, the recipient will receive a mild shock. This equipment should never be used by a person with a pacemaker.

4.0 TEST EQUIPMENT DESCRIPTIONS

4.1 AR 850+ Ultrasonic Thickness Gauge



The Smart Sensor AR 850+ Digital Ultrasonic Thickness Gauge is an economical, user-friendly, menu driven, and multi-functional unit offering extensive features from basic measurements to extended memory. This dynamic series of UT gauges is designed to measure the thickness of metallic and non-metallic materials such as steel, aluminum, titanium, plastics, ceramics, glass and any other good ultrasonic wave conductor as long as it has parallel top and bottom surfaces. The AR 850+ gauges will accurately display readings in millimeters after a simple calibration to a known Thickness or sound velocity.

4.1.1 Features

- Main Unit
- Transducer 5 MHz / 2.5 MHz
- Integrated steel calibration plate 4.0mm
- Batteries (2 x AAA)
- Ultrasonic Couplant
- Operation Manual
- Certificate
- Carrying Case
- One Year Warranty

4.1.2 Technical Specification

Display Type	4-digit LCD
Display Resolution	(<100 mm) 0.1 mm
Units	Metric
Measuring Range (steel)	1.2 to 220.0 mm
Sound Velocity Range	1000 to 9999 m/s
Operating Temperature	0 ° C +45° C
Frequency	5 MHz
Power Source	3 X 1.5V AAA batteries
Dimensions	70x145.5x28 mm

4.2 Compact DC Inspector Porosity Detector



Porosity detection of Tanks, Valves, Pumps, Pipeline field joints, and general inspection and maintenance. Suitable for a broad range of testing and inspection requirements. It is recommended that the integral probe be limited to a 125mm flat brush or fan brush.

4.2.1 Standards

ASTM G62-87(1998), ASTM D4787-93(1999), NACE RP0274-98, NACE RP0490-2001, NACE RPO188- 99, JIS G-3491, JIS G-3492, ANSI/AWWA C214-89, ANSI/AWWA C213-94 and ISO 2746:1998

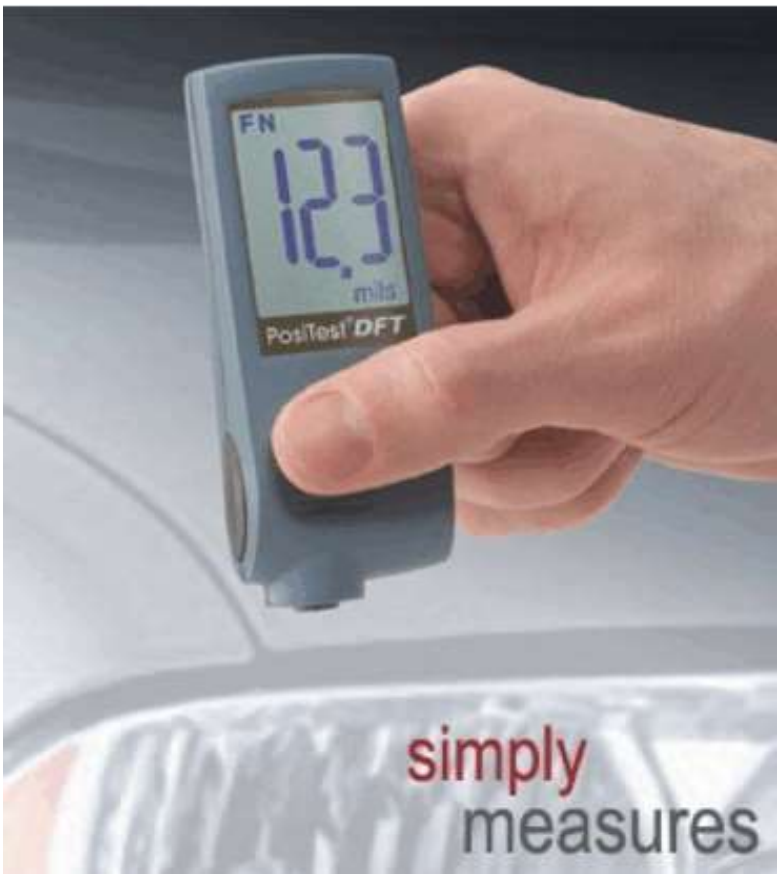
4.2.2 Features

- LED bar graph display of voltage
- "Single" hand-held, lightweight unit for simplicity and ease of operation
- Audible and visual alarms
- LED battery condition indicator
- Integral probe
- Detector
- 7m Earth lead and clamp
- Flat 125mm wide brass wire brush (or optional fan brush)
- Carry Case
- Operating instructions with conformance certificate
- Variable output up to 10kV or Variable output up to 20kV

4.2.3 Technical Specifications

Test Voltage	to 10kV (using 9V Battery)
Output Test Current	up to 100µA
Operating Temperature	-20 to +50ºC
Power Supply	Battery (9V internal)
Unit Dimensions	210 x 75 x 35mm (excl brush) 8.25" x 3.1" x 1.5"
Unit Weight	460g (incl probe)
Shipping Weight	1.5Kg

4.3 PosiTest DFT Coating Thickness Gauge



The new PosiTest DFT Coating Thickness Gauge measures coatings on ALL metals. It is the economical choice that retains the uncompromising quality of Qualitest inspection instruments.

Available in two models:

- PosiTest DFT Ferrous - measures non-magnetic coatings on steel.
- PosiTest DFT Combo - measures both non-magnetic coatings on steel and non-conductive coatings on aluminum, brass, etc. Automatically recognizes the substrate and takes a measurement.

4.3.1 Standards

ASTM B244/B499/B659/D1186/D1400/E376/G12, BS3900-C5, SSPC-PA2, ISO 2178/2360/2808, prEN ISO 19840, and others. Certificate of Calibration traceable to NIST available.

4.3.2 Features

- Fast, repeatable measurements
- No calibration required for most applications
- ZERO feature for rough or curved surfaces
- Handy RESET feature when no zero reference is available
- Strong, wear resistant, ruby-tipped probe
- Audible and visible measurement indication
- V-groove in probe for positioning on cylindrical parts
- Mils/Microns switchable
- Basic instructions on the back of each gauge

4.3.3 Technical Specifications

Measurement Range	0-40 mils (-1000 µm)
Accuracy	±(0.1 mils + 3%) (±(2µm + 3%))
Size	4 x 1.5 x 0.9 in (100 x38 x 23 mm)
Weight	2.5 oz (70 g)



5.0 HYDROPNEUMATIC PRESSURE TANK DESCRIPTION

The hydropneumatic pressure tank inspected and tested is described as follows:

Length: 29'-0" (32.'-0" including elliptical heads)
Diameter: 7'-6" outside diameter
Volume: 10,000 gallons with elliptical heads
Tank Age: Unknown
Operating Pressure: 60 psi

6.0 TESTING

6.1 Porosity Testing

The tank surface was not swept with the Compact DC Inspector Porosity Detector during this inspection as no evidence of pin holes was observed throughout the surface of the tank.

6.2 Interior Coating Testing

No dry film thickness readings were taken within the tank interior as the coating had begun to fail along portions of the tank ridge and walls..

6.3 Ultrasonic Metal Thickness Testing

A total of 80 metal thickness readings were taken at various locations on the tank shell and head surface. The average shell reading was 6.75 millimeters in the cylindrical section and 9.56 millimeters in the elliptical heads. Typical industry standard minimum wall thickness for tanks of this size is 3/8" (9.53 mm).

7.0 VISUAL OBSERVATIONS

7.1 Tank Exterior

The exterior of the tank appeared to be in fair structural condition.

7.2 Tank Interior

The tank interior appeared to be in fair condition. there were minor areas where the coating had begun to fail and corrosion had formed on the interior tank surface.

8.0 DEFINITIONS

Design Pressure - The maximum design pressure determined from the metal thickness.

Maximum allowable working pressure (MAWP) – Maximum pressure that the pressure tank is capable of safely holding at a design maximum temperature (250ºF).

Operating Pressure - The normal maximum operating pressure of the pressure tank. The normal operating pressure must always be below the MAWP. As a rule of thumb the maximum operating pressure should always be less than the MAWP.

Metal Thickness – The thickness of the pressure tank wall (not including a corrosion allowance) to be used in the pressure calculations.

Design Safety Factor on Metal Tensile Strength – A pressure tank is normally designed with a safety factor of 3 to 4 on the metal tensile strength. All pressure tanks are designed to operate with wall stresses below the yield point of the metal used for fabrication.

9.0 TANK PRESSURE CALCULATIONS

The following formula is found in ASME Section I for determination of MAWP:

For tanks with circumferential stress on (longitudinal joints)

P = SEt/(R+0.6t)
= 60 MPa x 1.0 x 6.75 mm / (1136 mm+0.6 x 6.75 mm)
= 0.355 MPa
= 51 psi

When:

t < 0.5R = 0.5 x 1136 = 568.13 mm (true) or
P < 0.385SE = 0.385 x 60 x 1.0 = 23.1 MPa (true)

Where:

t = metal thickness (mm) where t = 6.75 mm
R = inside radius of shell course under consideration (mm) = 1,136 mm
E = joint efficiency for cylindrical or spherical shells = 1.0 for welded tanks and corresponds to a safety factor of 3.5 in the parent metal.
P = maximum allowable working pressure (MPa) where 1 MPa = 145 psi
S = maximum allowable stress value at the operating temperature of the metal = 60 MPa (Safety Factor of 4).

10.0 CONCLUSIONS

Inspection and testing of the Hilltop at Lake Weir 10,000-gallon hydropneumatic pressure tank was performed on January 10, 2019. In addition to a visual examination, non-destructive examinations were also made. Non-destructive examinations included ultrasonic measurement of the tank wall thickness and visual inspection for pinholes and leaks. No examination of Dry Film Thickness Measurement (DFTM) of the interior coating was performed as the coating had already begun to fail.

Observations of the tank exterior indicated tank is subject to normal exposure. Observations of tank interior revealed light surface corrosion along the upper ridge portions of the tank interior.

11.0 RECOMMENDATIONS

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 55 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

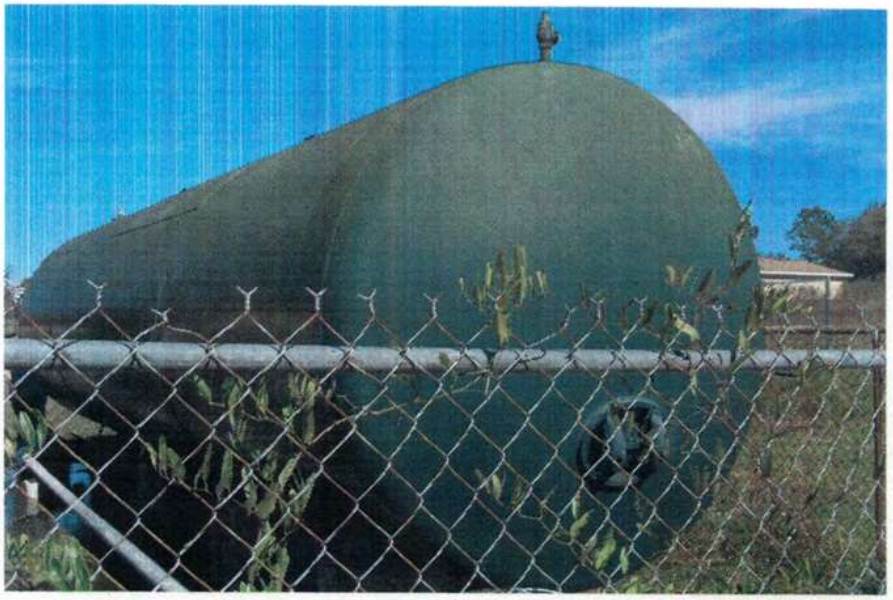
- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 50 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

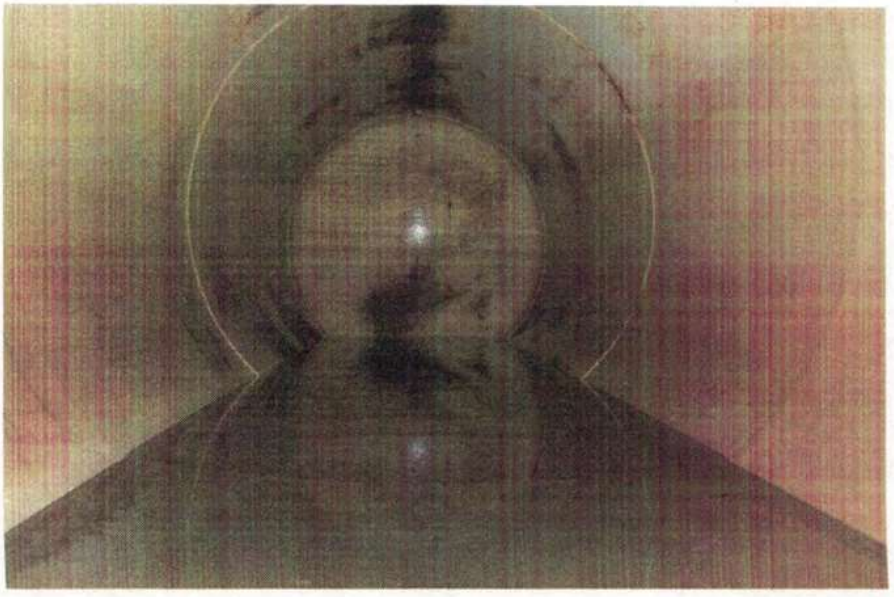
Signed: Robert M. Couch III Date: 2/7/2019

Robert M. Couch III, P.E. Registration No. 55311

Exterior and interior views of tank







APPENDIX C: EMERGENCY RESPONSE PLAN

Disaster-Specific Preparedness/Response Plan

for Public Drinking Water Systems

Per Chapter 62-555.350 (15) F.A.C.

Sunshine Utilities

HILL TOP

Address:	10230 East Hwy. 25 Belleview, FL 34420
Phone:	352-347-8228
Fax:	352-347-6915
Contact:	Dewaine Christmas, Manager
E-mail:	SunshineUtl@AOL.COM
Connections:	220
PWS:	3424662
County:	Marion

May 17, 2013

Department of Environmental Protection
Michael D. LeRoy, P.E.
John R. Sowerby, P.E.

FRWA Security Staff
Sterling L. Carroll, P.E.
Ken Klos, P.E.
Coy Donaldson

For more information or additional copies of this document contact:

FLORIDA RURAL WATER ASSOCIATION
2970 Wellington Circle ~ Suite 101 ~ Tallahassee
Telephone: 850-668-2746 ~ Fax: 850-893-4581
e-mail: FRWA@frwa.net

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This template and guide has been developed by the Florida Rural Water Association (FRWA) in collaboration with the Washington State Department of Health, Office of Drinking Water, Olympia, Washington; and reviewed by Florida Department of Environmental Protection.

Acknowledgment of federal government support of this project:

This project and the preparation of this booklet was funded in part by a Water Protection Coordination grant from the Environmental Protection Agency through an agreement/contract with the Drinking Water Program of the Department of Environmental Protection. Total cost of the project was $3,000 of which $3,000 or 100 percent, was provided by the U.S. Environmental Protection Agency.

Preface
Chapter 62-555.350 (15) FAC

Disaster-Specific Preparedness/Response Plans

(15) Suppliers of water who own or operate a community water system serving, or designed to serve, 350 or more persons or 150 or more service connections shall develop a written emergency preparedness/response plan in accordance with Emergency Planning for Water Utilities, AWWA Manual M19, as adopted in Rule 62-555.335, F.A.C., by no later than December 31, 2004, and shall update and implement the plan as necessary thereafter. Said suppliers of water shall coordinate with their Local Emergency Planning Committee and their Florida Department of Law Enforcement Regional Security Task Force when developing their emergency plan and shall include in their plan all of the information in paragraphs (a) through (e) below.

(a) A Communication Charts as described in Chapter 5 of AWWA Manual M19.

(b) Written agreements with other agencies, utilities, or response organizations.

(c) A disaster-specific preparedness/response plan as described in Chapter 5 of AWWA Manual M19 for each of the following disasters: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release. Each disaster-specific preparedness/response plan shall incorporate the results of a vulnerability assessment; shall include actions and procedures, and identify equipment, that can obviate or lessen the impact of such a disaster; and shall include plans and procedures that can be implemented, and identify equipment that can be utilized, in the event of such a disaster.

(d) Details about how the water system meets the standby power requirements under subsection 62-555.320(14), F.A.C., and, if applicable, recommendations regarding the amount of fuel to maintain on site, and the amount of fuel to hold in reserve under contracts with fuel suppliers, for operation of auxiliary power sources.

(e) If applicable, recommendations regarding the amount of drinking water treatment chemicals, including chemicals used for regeneration of ion-exchange resins or for onsite generation of disinfectants, to maintain in inventory at treatment plants.

Specific Authority 403.861(9) FS. Law Implemented 403.852(12), 403.853(6), 403.861(17) FS. History-New 11-19-87, Formerly 17-22.650, Amended 1-18-89, 1-1-93, Formerly 17-555.350, Amended 8-28-03.

Time Extension for Submitting/Completing ERP – December 31, 2005

From: Hoofnagle, Van
Sent: Thursday, October 21, 2004 11:25 AM
Subject: Time Extension for Submitting/Completing ERP
Importance: High

I am sending this e-mail because of possible confusion in some FDEP District Offices or ACHDs regarding the deadline for compliance with the emergency preparedness/response plan requirements in FAC subsection 62-555.350(15).

As John Sowerby and other staff mentioned during Focus On Change presentations early this year on FAC Rule 62-555.350 and during training this summer on the recent amendments to FAC Chapter 62-555, the FDEP intends to amend FAC subsection 62-555.350(15) to give all affected community water systems (i.e., all community water systems serving 350 or more persons or 150 or more service connections) **until the end of 2005** instead of the end of this year to complete a comprehensive emergency preparedness / response plan as required by FAC subsection 62-555.350(15). At this point, it will likely be after the end of this year before we officially make this change to FAC subsection 62-555.350(15). In the meantime, please do not take any enforcement action against

community water systems who fail to meet the 12/31/04 deadline in FAC subsection 62-555.350(15). Thanks.

Van Hoofnagle
DEP Drinking Water Administrator

Section 1
Communication Charts

The first response step in any emergency is to inform the person at the top of this list, who is responsible for managing the emergency and making key decisions. List the water system chain of command in order of contact.

Water System Chain of Command – Lines of Authority

Order	Name & Title	Responsibilities During an Emergency	Contact Information
1	Dewaine Christmas Manager	Responsible for overall management and decision making. The manager is the lead for managing the emergency and providing information to regulatory agencies. All communications to external parties are to be approved by the manager.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl@AOL.Com
2	James Hodges Jr. Field Supervisor	Responsible for decision making in the field. In charge of overall maintenance, and repairs to all components of water system.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl @AOL.Com
3	Kelvin Edun Water Treatment Plant Operator	Responsible for running water treatment plant, performing inspections, maintenance, sampling and relaying all critical information to Field Supervisor.	Phone: Cell: 352-875-5141 Email:
4	Pamela Christmas Office	Responsible for assisting the manager in administrative duties and emergencies.	Phone: 352-347-8228 Cell: 352-245-4743 Email:
5			Phone: Cell: Email:
6			Phone: Cell: Email:
7			Phone: Cell: Email:

Emergency Notification

Notification call-up lists - Use these lists to notify important parties of an emergency.

Emergency Notification List

Organization or Department	Name & Position	Telephone	Cell Phone	e-mail
State Warning Point	**Duty Officer**	**800-320-0519**	800-320-0519	N/A
Local Law Enforcement	EOC Commander	352-622-3205		Pstefanski@sheriff.marioncountyfl.org
Fire Department		911		
Emergency Medical Services		911		
Water Operator (if contractor)	Kelvin Edun Operator	352-875-5141		
County Health Department	Tom Moore Director of Environmental Health	352-622-7744	352-266-7486	
DEP District Office	Manny Cardona	407-897-4134	Fax 407-893-4418	
County Emergency Management Dept.	Chip Wildy	352-622-3205		
Local Leader (City Mgr., Mayor, Chair. Co. Comm., etc.)				
Local Hazmat Team (if any)		911		
Hazmat Hotline		911		
National Spill Response Center.	Duty Officer	800-424-8802	800-424-8802	N/A
Interconnected Water System(s)				
Neighboring Water System (not connected)				
FRWA Water Circuit Rider	Tom Gustafson	850-668-2746	352-267-1302	

Priority Customers

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Hospital Or Clinic(s)				
Nursing Home(s)				
Public Schools				
Private Schools				
Wastewater Treatment Plant				
Food Processing Or Other Industry				

Service / Repair Notifications

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Electric Utility Co.	City of Ocala	352-651-6666		
Electrician	Melville Electric	352-245-0600		
Gas / Propane Supplier	Belleview Gas	352-245-6055		
Water Testing Lab.	Aqua Pure Lisa Saupp	352-625-2822		
Sewer Utility Co.				
Telephone Co.	Sprint	800-788-3600	611	
Plumber	ACP	352-427-7036		
Pump Supplier	Coast Pump	352-620-0616	352-266-4277	Coastpumpocal@hotmail.com
"Dig Safe" or "One Call"	Sunshine One Call	800-432-4770		
Rental Equip. Supplier	B&M Rental	352-245-3133	352-245-9800	

Service / Repair Notifications				
Organization Or Department	**Name & Position**	**Telephone**	**Cell Phone**	**email**
Chlorine Supplier	Custom Controls	352-622-9244	352-304-0572	
Other Chemical Suppliers				
Radio/SCADA Repair Co.				
Bottled Water Service				
Bulk Water Supplier				
Well Drilling Co.	Earls Well Drilling David Moffitt	352-245-2324	352-817-0502	
Pipe Supplier	National Water Works Roy Sands	352-351-8144	352-266-4705	

Designated Public Spokesperson and Alternates

Designate a spokesperson (alternates) for delivering messages to the news media & public

Public Spokesperson	Name & Position	Telephone	Cell Phone
Spokesperson	Dewaine Christmas Manager	352-347-8228	352-239-1198
Alternate 1	James Hodges Jr. Supervisor	352-347-8228	352-239-1197
Alternate 2			

Key Messages

Develop possible messages in advance, and update them as the emergency develops
▪ We are aware of the emergency and are working diligently to restore your water service.
▪ If you fall under a boil water notice you must bring water to a rolling boil for a period of at least one minute. You only have to boil water for human cunsumption.

▪

Health Advisories – Boil Water Notices

Use the assistance of your County Health Department and/or District FDEP office, and FDEP's Mandatory Health Effects Language, located on FDEP's website at:

http://www.doh.state.fl.us/environment/water/manual/boil.htm

http://www.DEP.state.fl.us/water/drinkingwater/rules.htm,

and click on "Mandatory Health Effects Language"., PLUS EPA's templates at:

http://epa.gov/safewater/pn.html

Click on "Microsoft Word and Word Perfect files of PN templates" (PN means Public Notifications), then determine which "Tier" of notifications is needed and click on the desired software to receive them in.

Section 2
Written Agreements With Other Agencies, Utilities, or Response Organizations

INSERT BELOW information regarding any written agreements with other agencies, utilities, or response organizations, such as emergency interconnects, mutual aid or FlaWARN.

Emergency Interconnect(s)

Information on the location of interconnection(s) (if any), type and size of interconnecting pipe, pumps and accessory equipment, meters at interconnection(s), normal pressures at both ends of interconnection, volume of water from interconnection(s), type of agreement and approvals needed for use, procedures necessary to use interconnection, etc.

Location (Street)	
Location (GPS)	
Description	

Memoranda of Understanding

Organization	
Summary of Understanding	

Mutual Aid Agreements

Organization	Marion Utilities, 352-622-1171
Summary of Understanding	Will render mutual aide – ie: pumps, generators, and other materials necessary to restore water service.

FlaWARN

Organization	
Summary of Understanding	

Section 3
Disaster-Specific Preparedness/Response Plan

Your disaster-specific preparedness/response plan must include a Vulnerability Assessment and preparedness / response plans for: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release.

In any event there are a series of general steps to take:

1. Confirm and analyze the type and severity of the emergency.
2. Take immediate actions to save lives.
3. Take action to reduce injuries and system damage.
4. Make repairs based on priority demand.
5. Return the system to normal operation.

Vulnerability Assessment

It is essential that water systems identify and assess the vulnerability of each system component for both natural and human-caused emergencies, before preparing their disaster-specific preparedness/response plans. Prepare your Vulnerability Assessment by completing the table below:

Facility Vulnerability Assessment

System component	Description and condition	Vulnerability	Security improvements (indicate existing or proposed)
Raw Water Sources	(1) 6" groundwater wells located several hundred feet from homes. Wells are in good condition. We have wellhead protection in place.	The well is most vulnerable to above ground activities because it is only 220 FT deep.	1.Purchase land surrounding well. 2. Secure well house to foundation and install lighting around well house.
Pump-house and pumping facilities	The pump-house and pumping facility are in good condition.	Pump location is fully fenced with a locked gate.	Install tamper proof padlocks.
Treatment Facilities	There is a hypo-chlorination system inside of pump house. System is in good condition.	Chlorination systems are not subject to power outages.	There is a backup generator on site in compliance with CH. 62-555.320(14)FAC
Storage Facilities	Hydro pneumatic tank is fenced in good condition.	Tank is not in a lighted area.	Install lighting in area of tank.
Computer and telemetry systems	Computers are in utilities main office and are in good condition.	Computers should be better protected against cyber attack or hacking.	Secure computers with firewalls & virus protection.

A. Vandalism or Sabotage Response Procedures

1. Utility staff first aware of incident:
    a) Calls 9-1-1/ Local Law Enforcement.
    b) Calls Manager
2. Manager determines severity of incident.
    a) Field supervisor determines if vandalism or sabotage will effect the water quality.
    b) Manager reports incident to the state warning point.
3. Field supervisor directs repairs as needed.
    a) Complete repairs
    b) Update ERP as needed.

B. Drought Response Procedures

Include water use restrictions per Consumptive Use Permit

1. Manager coordinates with the local Water Management District (WMD) regarding drought conditions.
    a) If drought conditions exist, a water conservation plan will be initiated.
    b) Literature will be distributed to customers regarding the drought.
    c) Conservation material will be distributed to customers on conservation measures.
    d) Customers not abiding by restrictions will be reported to WMD.
    e) Manager updates ERP as needed.

C. Hurricane Preparedness & Response Procedures

Pre- Hurricane **(36 to 48 hrs prior to arrival)**	1. Manager coordinates with local EOC. 2. Field supervisor checks operation of standby power. 3. Field supervisor secures fuel and treatment chemicals for a 10 day period. 4. Manager replenishes inventory of spare parts.
Hurricane Watch **(24 to 36 hrs prior to arrival)**	1. Manager cancels all time off for employees. 2. Manager issues work assignments in advance in case of communication loss. 3. Employees all top off fuel in vehicles & standby generators. 4. Manager authorizes employees to secure their personal property and arrange for the safety of family members.
Hurricane Warning (24hrs or less prior to arrival)	1. Employees report to designated areas and wait for instructions. 2. Employees load truck with supplies. 3. Employees follow evacuation protocol.
Recovery Procedures	1. Manager coordinates with local EOC. 2. Manager issues boil water notices if needed. 3. Field supervisor coordinates repairs. 4. Manager makes contact with the appropriate DEP office. 5. After repairs are completed samples are taken. 6. When samples come back clear – boil water notice is lifted. 7. Manager files all malfunction reports with the DEP. 8. Field supervisor inspects all systems to make sure everything is running smooth.

D. Structure Fire Response Procedures

1. Utility staff discovering fire:
    a) Evacuate structure on fire.
    b) Call 9-1-1
2. Manager determines severity of incident.
    a) Manager contact State Warning Point.
    b) Field supervisor coordinates repairs when fire is extinguished.
3. Field supervisor reports to manager when repairs are complete.
    a) Manager reports completion of all repairs to any Gov. agency.
    b) Manager updates ERP as needed.

E. Flood Preparedness & Response Procedures

(Is any critical part of your system in a flood prone area?)

None of our systems are in a flood prone area.

F. Forest or Brush Fire Response Procedures

(Is any critical part of your system subject to forest or brush fires?)

1. Utility staff discovering fire.
    a) Orders evacuation of any threatened buildings.
    b) Calls 9-1-1 to report fire.
2. Manager determines the severity of fire.
    a) Manager contacts the State Warning Point.
    b) Field supervisor inspects for any damage and coordinates repairs after fire is extinguished.
3. Field supervisor reports to manager that all repairs are complete.
    a) Manager updates the ERP as needed.
    b)

G. Hazardous Material Release Response Procedures

Do you have any hazardous material (chlorine gas) at your water system?

We have no Hazardous materials at any of our water systems.

H. Other Disaster Response Procedures

Are there other disasters that you want to prepare for, such as a Contamination event, SCADA Attack, or Structural Damage from an Intentional Act?

Contamination

1.
   a)
   b)
2.
   a)
   b)

SCADA Attack

1.
   a)
   b)
2.
   a)
   b)

Structural Damage from an Intentional Act

1.
   a)
   b)
2.
   a)
   b)

Section 4
Standby Power Requirements

Include details about how the water system meets the standby power requirements as described in Ch. 62-555.320(14), and 62-555.350(15)(d) FAC for water source, treatment, and pumping facilities necessary to deliver drinking water at a rate at least equal to the Average Daily Water Demand.

Standby Power for Wells or Surface Water Intakes

Standby Power (or by alternate means) to OPERATE WELLS at Average Daily Demand

Average Daily Demand (ADD) in gpd or gpm	68506 gpd
Wells Needed to Supply Average Daily Demand	1
Standby Generator (kW) Needed for ADD &	45 KW
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	We will have reserve fuel in the case of an emergency.

Standby Power for Treatment Facilities

Standby Power (or by alternate means) to TREAT WATER at Average Daily Demand

Treatment Units Needed to Supply ADD	
Standby Generator (kW) Needed to Treat ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Standby Power for Pumps

Standby Power (or by alternate means) to PUMP WATER at Average Daily Demand

Pumps Needed to Supply ADD	
Standby Generator (kW) Needed to Pump ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Section 5
Drinking Water Treatment Chemicals & Disinfectants

Include recommendations regarding the amount of drinking water treatment chemicals, to maintain in inventory at treatment plants. Do not just list chemical storage capacity, but instead recommend the minimum amount of chemicals to maintain in inventory, which depends upon the location and reliability of chemical suppliers, the status of impending disasters, etc.

Disinfection Treatment Information

Disinfection Chemical(s)	Chemical / Location No. 1	Chemical / Location No. 2
Type of Chemical	Chlorine	
Type of Chemical Feed	Hypo-Chlorinator	
Chemical Storage Location	On site in the pump house.	
Recommended Minimum Amount to be Maintained in Storage (gal)	55 gallons	

Other Chemical Information

Chemical(s) Used	Chemical #1	Chemical #2	Chemical #3	Chemical #4
Type of Chemical				
Type of Chemical Feed				
System Location				
Chemical Storage Location				
Recommended Minimum Amount to be Maintained in Storage (gal)				

Appendix A
Basic System information

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Keep this basic information readily available for when you need it for emergency responders, repair people, the news media and potentially, an emergency operator.

Basic System Information

GPS coordinates will help emergency crews find your system following a major catastrophe.

System identification number (PWS ID)	**3424662**	
System name and address	**HILL TOP**	
GPS Coordinates	Latitude:	Longitude:
Basic description and location of system facilities	**12500 SE 102nd Ave**	
Population served and service connections.	Population =	Connections = 220
System Owner	**Sunshine Utilities of Central Florida, Inc.**	
Management Authority	**Owner and Manager**	
Name, title, and phone numbers of person responsible for maintaining and implementing the ERP.	**Dewaine Christmas** **Manager**	**352-347-8228 phone** **352-239-1198 cell**

System Demand

Demand based on Monthly Operational Records and system capacity based on Sanitary Survey.

Average Daily Demand (gpd)	68506 GPD
Maximum Daily Demand (gpd)	75600 GPD
System Capacity (gpd)	313000 GPD
Peak Hour Demand (gpm)	N/A

Location of Pertinent Information

Item	Location
Distribution System Map	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
O&M Manual(s)	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
Start-Up / Shut-Down Procedures	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.

Well Information

GPS coordinates will help emergency crews find wells following a major catastrophe.

Well Information	Well No. 1	Well No. 2	Well No. 3	Well No. 4
GPS well tag #				
Location (street)	SE 102nd Ave			
GPS Coordinates	Lat: Long:		Lat: Long:	Lat: Long:
Well Depth (ft)	220 FT			
Well Yield (gpd)	2736000 GPD			
Pump Type	Submersible			
Manufacturer	Sta-Rite			
Capacity (gpm)	190 GPM			
Motor Manufacturer	Franklin			
Horsepower	15 HP			
Phase	1			
Volts/Amps	230 volts			

Surface Water Sources

GPS coordinates will help emergency crews find surface water intakes following a major catastrophe.

Surface Water Information	Intake No. 1	Intake No. 2
Location (Street / Description)		
GPS Coordinates	Lat: Long:	Lat: Long:
Critical Water Level		

Finished Water Storage

GPS coordinates will help emergency crews find tanks following a major catastrophe.

Name of Storage Unit	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Location (Street)				
Location (GPS)	Lat: Long:	Lat: Long:	Lat: Long:	Lat: Long:
Type (ground, elevated, etc.)				
Capacity (gal)				
Empty Elevation				
Overflow Elevation				

High Service Pumps

HSP	HSP No. 1	HSP No. 2	HSP No. 3	HSP No. 4
Location (street)				
Pump Type				
Manufacturer				
Capacity (gpm)				
Motor Manufacturer				
Horsepower				
Phase				
Volts/Amps				

Other Applicable Information

Appendix B
Training and Rehearsals

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Event	Description	People & Organizations Involved	Date

Appendix C
Plan Approval

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Plan Approval

This plan is officially in effect when reviewed, approved, and signed by the following people:

Name / Title	Signature	Date
Hodges Family Trust		

APPENDIX D: CONSUMER CONFIDENCE REPORT

Certification of Delivery of Consumer Confidence Report

GENERAL INSTRUCTIONS: This form shall be completed by all community water systems (CWSs) that have prepared a Consumer Confidence Report (CCR) in accordance with Rule 62-550.824, F.A.C., Consumer Confidence Reports. At the end of this form is a certification in which a system's authorized representative shall certify that the reported information is accurate and is in conformance with Rule 62-550.824, F.A.C. **COMPLETE THIS FORM AND SUBMIT IT BY AUGUST 10,** together with a copy of your system's CCR, sample email or water bill (with URL notification of CCR, if applicable), and any newspaper notice(s) and posted notice(s) of your CCR, to the appropriate DEP district office or Approved County Health Department (ACHD). Systems serving 100,000 or more persons posting their CCRs on publicly accessible Internet sites shall provide the information on the appropriate Internet link(s). All information provided on this form must be typed or printed in ink.

I. General Water System Information. (To be completed by all community water systems.)

System name: Hill Top at Lake Weir Contact person: Dewaine Christmas

PWS Identification number (PWS ID): 3424662 Contact phone number: (352)347-8228

Mailing address: 10220 East Hwy 25 City: Belleview

State: Fl Zip: 34420-5531 Population served (not the number of "service connections"): _____

II. CCR Distribution Method. (To be completed by all community water systems. Choose A or B as appropriate.)

☐ A. We mailed, emailed, or otherwise directly delivered a copy of our CCR to each customer on _____ (enter date(s) of mailing or delivery) using the method(s) checked below:

- ☐ a. **Mailed** CCR
- ☐ b. **Mailed** notice (e.g. water bill) with **direct URL** to the CCR
- ☐ c. **Emailed** CCR as an **embedded** image or as an **attachment**
- ☐ d. **Emailed** notice with a **direct URL** to the CCR
- ☐ e. **Otherwise directly delivered** CCR to every customer. Explain: _____

☑ B. We were eligible to use a mailing waiver and used a mailing waiver. (Systems are eligible to use a mailing waiver only if they serve fewer than 10,000 persons, have not had any MCL or monitoring and reporting (M/R) violations, nor have been issued any formal Notices of Violations (NOVs), Consent Orders, Administrative Orders, or court-ordered civil actions during the calendar year before the year the CCR is due to the customers).

Answer a, b, **and** c below.)

- ☐ a. Date of newspaper: _____
- ☐ b. Name of newspaper/newsletter that published our CCR: _____
- ☑ c. A copy of our notice to customers, informing them that our CCR will not be mailed to them, is attached.

This notice was: ☑ mailed with bill; ☐ published in newspaper/newsletter; or ☐ other (describe)

_____

III. Posting of CCR on the Internet. (To be completed by all CWSs serving 100,000 or more persons.)

We posted our CCR on this publicly accessible internet site: _____

IV. Report on Your Effort to Distribute Your CCR to Your Water Consumers.

(To be completed by all CWSs. Check all items that apply - at least one item must be checked.)

In addition to the methods selected in Part II,

- ■ A. We posted our CCR on this publicly accessible internet site: www.sunshineutilities.org
- ☐ B. We published our CCR in the local newspaper(s). The name(s) and date(s) of the newspaper(s) are:

_____

RECEIVED
JUL 10 2020
DEP Central District

☐ C. We advertised the availability of our CCR as a press release, radio announcement, or TV announcement. The type(s) and date(s) of the advertisement(s) are: _____

☐ D. We delivered multiple copies of our CCR to single bill addresses serving several persons.

☐ E. We delivered multiple copies of our CCR to the following community organizations:

_____

☐ F. Our CCR was posted in the following public locations: _____

_____

■ G. Our CCR was distributed by other methods (e.g., additional copies placed in entrance hall to facility). Describe.

Additional copies available at Sunshine Utilities Office

_____

V. Use of Non-English Language in CCR. (To be completed by all community water systems.)

☐ Information in a non-English language was included in our CCR because 20% or more of our customers do not speak English but speak _____. The method we used to determine the proportion of non-English speaking customers is _____

■ This requirement does not apply to our system, because we have no non-English speaking group among our customers equal to or exceeding 20% of our total number of customers.

VI. Other Delivery Requirements. (To be completed by all community water systems.)

(A) Was a copy of your CCR sent to your county health department, as required by rule? ■ Yes ☐ No

(B) Is your system regulated by the Public Service Commission (PSC)? ☐ Yes ☐ No

If Yes, was a copy of your CCR sent to the PSC, as required by rule? ■ Yes ☐ No

(C) If your system sells water to other systems, have you provided them with either a copy of your CCR or the required consumer confidence information? ■ Yes ☐ No ■ Not Applicable

VII. Certification of Delivery of CCR and Compliance with Regulations. (To be completed by all CWSs.)

This statement certifies that the above named community public water system has distributed its CCR for the time period starting ***January 1, 2019, and ending December 31, 2019*** to its customers on 4/15/20 (mm/dd/yy) and provided the appropriate notices of availability according to the requirements listed in this form, which are also found in Rule 62-550.824, F.A.C. This statement also certifies that the reported information is correct and consistent with the compliance monitoring data for the same period previously submitted to the Department, and that the report has been delivered to the agencies identified in Rules 62-550.824(3)(e)3., and 4., F.A.C.

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____

NAME (please print): Dewaine Christmas

TITLE: Manager DATE: 6/26/20

■ **A copy of our CCR is attached, and**

☐ **If using electronic delivery, a copy of our sample email or notice (e.g. water bill), with URL leading directly to the CCR and not a general information website, is attached. For example, if you are using the FRWA website to post your CCR, your URL would be:**

www.frwa.net/2012-Your PWSID Number.pdf (www.frwa.net/2012-0000000.pdf).

SUNSHINE UTILITIES
10230 East Highway 25
Belleview, Florida 34420

Drinking Water Quality Report

Annual Drinking Water Quality Report for 2019

Hilltop at Lake Weir

Florida Department of Environmental Protection Public Water System ID # 3424662

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

The source of our water is groundwater from two wells located in the community. The wells draw from the Floridan aquifer, one of the world's most protected sources. Our water is chlorinated for disinfection purposes. In 2019 the Florida Department of Environmental Protection conducted an assessment identifying potential sources of contamination in the vicinity of our wells. The SWAPP (Source Water Assessment and Protection Program) determined our public water system to have no potential sources of contamination. You may obtain more information at the web site *www.dep.state.fl.us/swapp.*

If you have any questions about this report or concerning your water utility please contact **Dewaine Christmas, at Sunshine Utilities, (352) 347-8228,** during normal business hours. We encourage our valued customers to be informed about their water utility.

Sunshine Utilities routinely monitors for constituents in your drinking water according to Federal and State laws, rules and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2019. Data obtained before January 1, 2019, and presented in this report are from the most recent testing performed in accordance with the laws, rules and regulations.

WATER QUALITY TEST RESULTS FOR HILLTOP AT LAKE WEIR

Inorganic Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Arsenic	(ppb)	JUN' 18	No	0.4	N/A	N/A	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	(ppm)	JUN' 18	No	0.0058	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chromium	(ppb)	JUN' 18	No	1.1	N/A	100	100	Discharge from steel and pulp mills; erosion of natural deposits
Fluoride	(ppm)	JUN' 18	No	0.1	N/A	4	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum levels between 0.7 and 1.2 ppm
Nitrate (as Nitrogen)	(ppm)	DEC'19	No	2.77	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium	(ppm)	JUN' 18	No	7.3	N/A	N/A	160	Salt water intrusion; leaching from soil

Stage 2 Disinfectants and Disinfection By-Products

Disinfectant or Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL or MRDL Violation Yes / No	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine	(ppm)	2019	No	1.2	0.5 - 2.6	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Haloacetic Acids (five) (HAA_5)	(ppb)	SEP' 18	No	1.86	N/A	N/A	MCL = 60	By-product of drinking water disinfection

Lead and Copper (Tap Water)

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	AL Violation Yes / No	90th Percentile Result	No. of Sampling Sites Exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper	(ppm)	JUL '18	No	0.0118	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

In the table you may find unfamiliar terms and abbreviations. To help you better understand these terms we have provided the following definitions (please note not all definitions may pertain to your report):

- Action Level (AL) – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial growth.
- Maximum Residual Disinfectant Level Goal (MRDLG) – The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.
- ND – This abbreviation means not detected and indicates that the substance was not found by laboratory analysis.
- Parts per million (ppm) or milligrams per Liter (mg/L) - one part of analyte (by weight) to 1 million parts of water sample (by weight).
- Parts per billion (ppb) or micrograms per Liter (µg/L) - one part of analyte (by weight) to 1 billion parts of water sample (by weight).
- Picocurie per liter (pCi/L) - measure of the radioactivity in water.

What does this mean?

As you can see our system had no violations. We're very proud that your drinking water meets all Federal and State requirements.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Sunshine Utilities is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals, and in some cases radioactive material, and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

A.) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

B.) Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

C.) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

D.) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

E.) Radioactive contaminants, which may be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The FDA (Food & Drug Administration) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care providers about their drinking water. EPA/CDC (Center for Disease Control) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are also available from the Safe Drinking Water Hotline (800-426-4791).

We are committed to ensuring the quality of your water. If you have any questions or concerns about the information provided, please feel free to call the numbers listed.

Sunshine Utilities

10230 East Highway 25, Belleview, FL 34420
Office (352)347-8228 – Fax (352)347-6915

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality of water and services we deliver to you everyday. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

Please follow the link to view your 2019 Annual Water Quality Report.

https://www.sunshineutilities.org/ccr19/2019HilltopatLakeWei.pdf

APPENDIX E: SANITARY SURVEY REPORT

FLORIDA DEPARTMENT OF
Environmental Protection

CENTRAL DISTRICT OFFICE
3319 MAGUIRE BLVD., SUITE 232
ORLANDO, FLORIDA 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

April 17, 2020

Dewaine Christmas, Owner/Office manager
Sunshine Utilities of Central FL, Inc.
SE 125th Place CR 25
Belleview, FL 34420
sunshineutl@aol.com

Re: Hilltop at Lake Weir
PW Facility ID #3424662
Marion County

Dear Mr. Christmas:

Department personnel conducted an inspection of the above-referenced facility on March 30, 2020. Based on the information provided during the inspection, the facility was determined to be in compliance with the Department's rules and regulations. A copy of the inspection report is attached for your records, and any non-compliance items which may have been identified at the time of the inspection have been corrected.

The Department appreciates your efforts to maintain this facility in compliance with state and federal rules. Should you have any questions or comments, please contact Amada Fernandez at 407-897-4159 or via e-mail at Amada.M.Fernandez@FloridaDEP.gov.

Sincerely,

Jill Farris, Manager
Central District
Florida Department of Environmental Protection

Enclosure: Inspection Report

cc: Amada Fernandez and Jill Farris, FDEP
Universal Waters, universalwaters94@yahoo.com

State of Florida
Department of Environmental Protection
Central District

SANITARY SURVEY REPORT

Plant Name **HILLTOP AT LAKE WEIR** County Marion PWS ID # **3424662**
Plant Location SE 125th Place and CR 25, Belleview, FL 34420 Phone 352-347-8228
Owner Name Sunshine Utilities of Central FL, Inc.; Attn: Dewaine Christmas Phone 352-347-8228
Owner Address 10230 East Highway 25, Belleview, FL 34420-5531
Contact Person Dewaine Christmas Title Onwer/Office Manager Phone 352-347-8228
This Survey Date 3/30/20 Last Survey Date 3/16/17 Last Compliance Inspection Date 10/15/01

PWS TYPE: Community

PLANT CATEGORY & CLASS: 5C

MAX-DAY DESIGN CAPACITY: 313,000 gpd

PWS STATUS: Approved

TREATMENT PROCESSES IN USE
Hypochlorination

SERVICE AREA CHARACTERISTICS
Subdivision/Mobile home park
Food Service: ☐ Yes ☐ No ☒ N/A

Number of Service Connections 179
Population Served 448 Basis Operator

OPERATION & MAINTENANCE LOG: Yes
Location Water treatment plant
Comments

CERTIFIED OPERATOR: Yes
Operator(s) & Certification Class-Number:
Kelvin Edun C-7459

Hrs/day: *Required* Visit* *Actual* Visit*
Days/wk: *Required* 5+1 *Actual* 5+1
Non-consecutive Days? ☐ Yes ☐ No ☒ N/A
Comments *Visit must total 0.6 hour/week.

MONTHLY OPERATION REPORTS (MORs)
MORs submitted regularly? ☒ Yes ☐ No ☐ N/A
Data missing from MORs? ☒ No ☐ Yes ☐ N/A
Average Day (from MORs) 57,478 gpd
Maximum Day (from MORs) 109,900 gpd 04/2019
Comments

Flow Measuring Device Flow Meter
Meter Size & Type 3" ABB / 4" Sensus
Date Last Calibrated 9/26/17

RAW WATER SOURCE
☒ GROUND; Number of Wells 2
☐ PURCHASED from PWS ID #
☐ Emergency Water Source
Emergency Water Capacity

STANDBY POWER SOURCE: Yes
Source Generac Generator
Capacity of Standby (kW) 45
Switchover: ☒ Automatic ☐ Manual
Hrs Operated Under Load 1 hr/wk.
What equipment does it operate?
☒ Well Pumps Both
☐ High Service Pumps
☒ Treatment Equipment All
Satisfy avg. daily demand? ☒Yes ☐No ☐Unknown
Audio-visual alarm? ☒Yes ☐No
Comments

PLANS AND MAPS

Coliform Sampling Plan	☒ Yes	☐ No	☐ N/A
D/DBP Monitoring Plan	☒ Yes	☐ No	☐ N/A
Lead and Copper Plan	☒ Yes	☐ No	☐ N/A
Distribution System Map	☒ Yes	☐ No	☐ N/A
Emergency Response Plan	☒ Yes	☐ No	☐ N/A

Comments

PREVENTIVE MAINTENANCE/O&M

Operation & Maintenance Manual	☒ Yes	☐ No	
Preventive Maintenance Program	☒ Yes	☐ No	☐ N/A
Flushing Program	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A
Isolation Valve Exercise	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A

Comments

CROSS CONNECTION CONTROL
BFPAs None # Tested N/A
WWTP RPZ N/A Date Tested N/A
Written Plan Yes Date Unknown
Comments

PWS ID # 3424662
Date 3/30/20

GROUND WATER SOURCE

Well Number (Florida Unique Well ID #)		1 (AAE0264)	2 (AAI5708)		
Year Drilled		1984	2005		
Depth Drilled		224’	210’		
Drilling Method		Combination	Combination		
Type of Grout		Neat cement	Neat cement		
Static Water Level		Unknown	80’		
Pumping Water Level		Unknown	Unknown		
Design Well Yield		Unknown	Unknown		
Test Yield		Unknown	Unknown		
Actual Yield (if different than rated capacity)		Unknown	Unknown		
Strainer		Unknown	Unknown		
Length (outside casing)		101’	113’		
Diameter (outside casing)		4’’	6’’		
Material (outside casing)		Black steel	Black steel		
Well Contamination History		None	None		
Is inundation of well possible?		No	No		
6’ X 6’ X 4” Concrete Pad		Yes	Yes		
SET BACKS	Septic Tank	N/A	N/A		
	Reuse Water	>200’	>200’		
	WW Plumbing	>200’	>200’		
	Other Sanitary Hazard	None	None		
PUMP	Type	Submersible	Submersible		
	Manufacturer Name	Sta-Rite	Grunfos		
	Model Number	Unknown	230S150-4		
	Rated Capacity (gpm)	190	245		
	Motor Horsepower	15	15		
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		
Security		Yes	Yes		
Well Vent Protection		N/A	Yes		

COMMENTS _____

PWS ID # 3424662
Date 3/30/20

CHLORINATION (Disinfection)
Type: ☐ Gas ☒ Hypo
Make (2) Chem-Tech Capacity 30 gpd
Chlorine Feed Rate 80% stroke / 100% stroke
Avg. Amount of Cl_2 gas used N/A
Chlorine Residuals: Plant 1.57 Remote 1.40
Remote tap location 12345 SE 100th Ct.
DPD Test Kit: ☐ On-site ☒ With operator
☐ None ☐ Not Used Daily
Injection Points Prior to hydropneumatic tank
Booster Pump Info N/A
Comments

Chlorine Gas Use Requirements	YES	NO	Comments
Dual System	☐	☐	
Auto-switchover	☐	☐	
Alarms:			
Loss of Cl_2 capability	☐	☐	
Loss of Cl_2 residual	☐	☐	
Cl_2 leak detection	☐	☐	
Scale	☐	☐	
Chained Cylinders	☐	☐	
Reserve Supply	☐	☐	
Adequate Air-pak	☐	☐	
Sign of Leaks	☐	☐	
Fresh Ammonia	☐	☐	
Ventilation	☐	☐	
Room Lighting	☐	☐	
Warning Signs	☐	☐	
Repair Kits	☐	☐	
Fitted Wrench	☐	☐	
Housing/Protection	☐	☐	

AERATION (Gases, Fe, & Mn Removal)
Type Capacity
Aerator Condition
Visible Algae Growth
Protective Screen Condition
Frequency of Cleaning
Date Last Inspected/Cleaned
Comments

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

Tank Type/Number	H	
Capacity (gal)	10,000	
Material	Steel	
Gravity Drain	Yes	
By-Pass Piping	Yes	
Protected Openings	Yes	
Sight Glass or Level Indicator	Yes	
PRV/ARV	PRV	
Pressure Gauge	Yes	
On/Off Pressure	45/65	
Access Secured	Yes	
Access Manhole	Yes	
Tank Sample Tap Location	Discharge piping	
Date of Inspection	1/19	
Date of Cleaning	1/19	

Comments

HIGH SERVICE PUMPS

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

Comments

DEFICIENCIES:

No deficiencies were noted at the time of the inspection.

MONITORING REMINDER:

- Nitrate and nitrite samples are required to be collected from the point of entry (POE) to the distribution system annually. The 2020 results have not been received. Early sampling is recommended.
- The consumer confidence report (CCR) must be delivered to consumers and the Department no later than July 1, 2020, and certification of delivery of the CCR must be submitted to the Department no later than August 10, 2020.
- Monitoring schedules are available on the Central District's Drinking Water site:

https://floridadep.gov/central/central/content/resources-drinking-water-facilities-and-operators-central-district

COMMENTS:

- Contact FRWA (Florida Rural Water Association) at 850-668-2746, or frwa@frwa.net, for free technical assistance with your system. FRWA has extended benefits offered to members.
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.

  Checking the calibration of finished-drinking-water meters at treatment plants shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water. [Rule 62-555.350(2), F.A.C.]
- Suppliers of water shall submit written notification to the Department before beginning work or alterations to the public water system. Each notification shall be submitted to the appropriate Department of Environmental Protection District Office or Approved County Health Department and shall include the following: a description of the scope, purpose, and location of the work or alterations; and assurance that the work or alterations will comply with applicable requirements listed in Rule 62-555.330, F.A.C. Suppliers of water may begin such work or alterations 14 days after providing notification to the Department unless they are advised by the Department that the notification is incomplete or that a construction permit is required.
- Suppliers of water shall telephone the SWO at 1-800-320-0519 immediately (i.e., within two hours) after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving a public water system. [Rule 62-555.350(10)(a), F.A.C.]
- Suppliers of water shall telephone, and speak directly to a person at, the appropriate DEP District Office as soon as possible, but never later than noon of the next business day, in the event of any of the following emergency or abnormal operating conditions:
  - The occurrence of any abnormal color, odor, or taste in a public water system's raw or finished water;
  - The failure of a public water system to comply with applicable disinfection requirements; or
  - The breakdown of any water treatment or pumping facilities, or the break of any water main, in a public water system if the breakdown or break is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(b), F.A.C.]
- Suppliers of water shall notify affected water customers in writing or via telephone, newspaper, radio, or television; and telephone, and speak directly to a person at, the appropriate DEP District Office by no later than the previous business day before taking PWS components out of operation for planned maintenance or repair work if the work is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(d), F.A.C.]

- Suppliers of water shall issue precautionary "boil water" notices as required or recommended in the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(11), F.A.C.]

amada fernandez
Inspector Signature

Amada Fernandez
Printed Name

Environmental Specialist II
Title

4/13/20
Date

Reviewer Signature

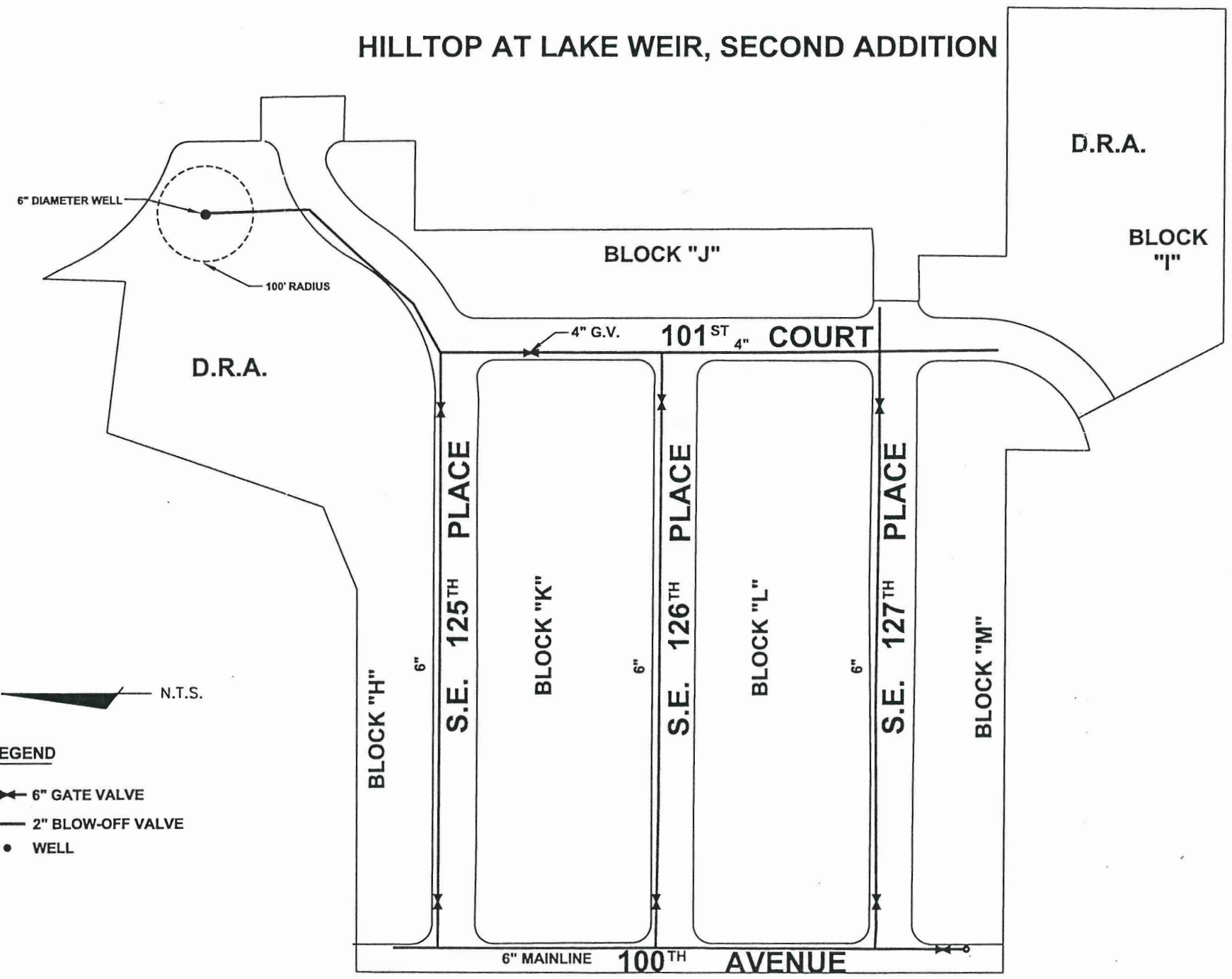
Jill Farris
Printed Name

Environmental Manager
Title

4/16/20
Date

APPENDIX F: DISTRIBUTION MAP

HILLTOP AT LAKE WEIR, SECOND ADDITION



N

N.T.S.

LEGEND

- 6" GATE VALVE
- 2" BLOW-OFF VALVE
- WELL

H. W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17TH ST. SUITE 802 OCALA, FLORIDA 34471
FAX (352) 840-9588
(352) 840-9774

FACILITY WATER SYSTEM

HILLTOP AT LAKE WEIR
SUNSHINE UTILITIES
BELLEVIEW, FLORIDA

DRN	CHK	DATE	DESCRIPTION
SAO	RJW	14 JUL 99	ORIGINAL ISSUE

Project No. 9636-02



woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Little Lake Weir Subdivision

210 South Florida Avenue | Suite 220
Lakeland, Florida 33801
800.426.4262

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

0233748.01
CSWR
July 2021

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APPENDIX A: SOURCE WATER ASSESSMENT & PROTECTION PROGRAM RESULTS

» SWAPP Homepage
» Search By County
» Search by PWS Name or Number
» How to Help?

Definitions

» Aquifers
» Public Water Systems
» Assessment
» Potential Contaminants
» Susceptibility
» Prevention

Contact Us

» Email
» Mailing Address
» Source Water Protection Workshop

EPA Source Water Protection website

Source Water Assessment & Protection Program

Results for: 2019

LITTLE LAKE WEIR SUBDIVISION
9049 SE 144TH LN
SUMMERFIELD, FL 34420

Public Water System ID: 3420761
County: MARION
DEP Regulatory Office: DEP Central District
3319 Maguire Blvd, Suite 232
Orlando, FL 32803
407-897-4100
Public Water System Type : COMMUNITY
Public Water System Source : GROUND
Primary Use: SUBDIVISION
Population Served: 963
Size of Assessment Area:
GROUND: For this system, a 1000-foot radius circle around each well was used to define the assessment area.

Number of Wells: 2

Well ID	Owner ID	FLUWID	Status	Well Depth(ft)	Aquifer
24132	WELL #2(NORTH)	AAE0262	ACTIVE	170	Floridan Aquifer
5581	LITTLE LAKE WEIR S WELL	AAE0263	ACTIVE	250	Floridan Aquifer

Results:

GROUND WATER:
A search of the data sources indicated no potential sources of contamination.

Last updated: February 19, 2020

Accessibility Information

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Disclaimer
Exit Disclaimer
Privacy Statement

3900 Commonwealth Boulevard M.S. 49
Tallahassee, Florida 32399
850-245-2118 (phone) /
850-245-2128 (fax)

APPENDIX B: TANK INSPECTION REPORT

INSPECTION AND TESTING of HYDROPNEUMATIC TANK

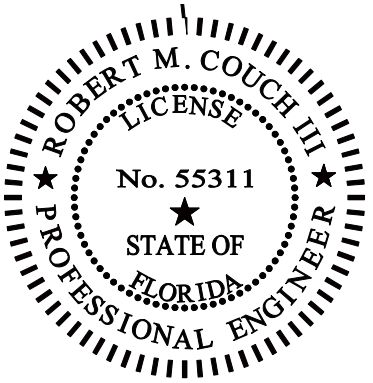
Little Lake Weir Subdivision Tank

Pursuant to Chapter 62-555.350 (1) & (2) F.A.C

Water System:	Little Lake Weir Subdivision
Street Address:	SE 144th Lane & SE 90th Court
City, State:	Belleview, Florida
Phone:	352-347-8228
Contact:	Dewaine Christmas
E-mail:	sunshineutl@aol.com
PWS ID No.:	3420761
County:	Marion
Classification:	Community
Source:	Ground
Ownership:	Sunshine Utilities of North Central Florida
Date:	November 28, 2018

Inspection and Testing by:

Robert M. Couch III, P.E.
ENVIRO-TECH, Inc.
15290 SE Highway 42, PO Box 152
Weirsdale, FL 32195
Telephone: 352-694-1799
E-mail: envirotech@ymail.com



C.O.A. No. 8692 Registration No. 55311

Robert M. Couch III, P.E.

Digitally signed by Robert M. Couch III, P.E.
DN: cn=Robert M. Couch III, P.E., o=ENVIRO-TECH, Inc., ou=Reg. No. 55311, email=envirotech@ymail.com, c=US
Date: 2019.01.05 23:13:38 -05'00'

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1.0 EXECUTIVE SUMMARY

ENVIRO-TECH, Inc. was contracted to perform the five year tank condition inspection on the above mentioned hydro-pneumatic tank.

This condition inspection was performed on November 28, 2018 by Robert M. Couch III, P.E. on the above referenced water tank. The tank was drained and, an internal and external inspection was performed to assess the tank condition as required by the Florida Department of Environmental Protection (FDEP) Rule 62-555.

The tank shell and heads appeared to be in overall good structural condition. Ultrasonic Thickness Measurement (UTM) readings indicated that the average thickness of the tank shell at the time of the field inspection was approximately 6.08 millimeters. UTM readings from the tank heads indicated an average thickness of 6.73 millimeters. The exterior coating of the tank appeared to be in overall good condition with no notable surface corrosion. The interior coating of the tank appeared to be in fair condition with only slight surface corrosion beginning to form along portions of the tank ridge where the coating was beginning to fail.

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 65 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 58 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

2.0 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS CHAPTER 62-555.350 (1) & (2)

2.1 Operation and Maintenance of Public Water Systems

(1) Suppliers of water shall operate and maintain their public water systems so as to comply with applicable standards in Chapter 62-550, F.A.C., and requirements in this chapter.

(2) Suppliers of water shall keep all necessary public water system components in operation and shall maintain such components in good operating condition so the components function as intended. Preventive maintenance on electrical or mechanical equipment – including exercising of auxiliary power sources, checking the calibration of finished-drinking-water meters at treatment plants, testing of air or pressure relief valves for hydropneumatic tanks, and exercising of isolation valves –shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water; however, in no case shall auxiliary power sources be run under load less frequently than monthly. Accumulated sludge and biogrowths shall be cleaned routinely (i.e., at least annually) from all treatment facilities that are in contact with raw, partially treated, or finished drinking water and that are not specifically designed to collect sludge or support a biogrowth; and blistering, chipped, or cracked coatings and linings on treatment or storage facilities in contact with raw, partially treated, or finished drinking water shall be rehabilitated or repaired. **Finished-drinking-water storage tanks, including conventional hydropneumatic tanks with an access manhole but excluding bladder- or diaphragm-type hydropneumatic tanks without an access manhole, shall be checked at least annually to ensure that hatches are closed and screens are in place; shall be cleaned at least once every five years to remove biogrowths, calcium or iron/manganese deposits, and sludge from inside the tanks; and shall be inspected for structural and coating integrity at least once every five years by personnel under the responsible charge of a professional engineer licensed in Florida.** Dead-end water mains conveying finished drinking water shall be flushed quarterly or in accordance with a written flushing program established by the supplier of water; additionally, dead-end or other water mains conveying finished water shall be flushed as necessary whenever legitimate water quality complaints are received.

2.2 Location of Inspection and Testing Report

Pursuant to Chapter 62-555.350 (2) and 62-555.350 (12) FAC, beginning 28 August 2003, all water systems regardless of size must maintain a copy up-to-date Preventive Maintenance Logs of each water system in the water facility office. The Preventive Maintenance Logs must show the date and type of all maintenance performed and comply with Rule 62-555.350 (2) and 62-555.350 (12), which requires the following:

- Preventive Maintenance Logs on Electrical and Mechanical Equipment
- Cleaning and Inspection Logs of Treatment Facilities and Storage Tanks
- Records of Coatings and Linings Rehabilitation or Repair
- Licensed Engineer Inspection Report (once every 5-years) for Finished-Drinking-Water Storage Tanks and Hydropneumatic Tanks
- Written Flushing Program and Logs showing that Dead-End Water Mains are being flushed at least quarterly
- Isolation Valves Exercise Logs

A copy of this report should be kept with these records.

3.0 HYDROPNEUMATIC PRESSURE TANK INSPECTION AND TEST PROCEDURES

This Inspection and Test Procedures is used as a reference in the overall inspection and testing of this Water System. This procedure is to be updated from time to time to reflect physical and procedural changes to the water system.

Inspection and testing of this tank was conducted by Robert M. Couch III, P.E. with the assistance of Jim Hodges Jr. of Sunshine Utilities of North Central Florida, Inc. The following inspection and testing procedures for hydropneumatic pressure tanks were used:

3.1 Pre-Test Procedures

1. If water service is to be interrupted customers must be notified in advance and if appropriate, boil water notices issued.

2. Turn-off all electrical power to well pumps, air motors, chlorination equipment, etc.

3. Open drain valve to empty tank. This is also a good time to check the valves (exercise them) that isolate the tank to see if they are in fact working as they should. This downtime can also be used to replace a valve if needed.

4. Once depressurized, the site glass is inspected for proper operation.

5. Once the tank is drained, the manway (hatch) will need to be removed for inspection of the interior.

3.2 Visual Inspection

6. Perform visual inspection of the tank exterior and accessories for presence of leaks, shell distortion, signs of settling, deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, accessories, etc.

7. Tank layout and physical measurements

8. Color photographs of the tank exterior and all of the essential appurtenances

9. Perform visual inspection of the tank interior for presence of deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, bio-growths, calcium or iron/manganese deposits, sludge, etc.

3.3 Nondestructive Examination

10. The tank interior coating is then examined for dry film thickness (See PosiTest® DFT Coating Thickness Gauge measurement) or equivalent.

11. The tank exterior is then examined for thickness measurements (See Smart Sensor AR 850+ Ultrasonic Thickness Gauge measurement).

12. If deemed necessary, the tank exterior (or interior) is then examined for porosity, pinholes and leaks (See PCWI porosity detection test, also known as holiday detector test).

3.4 Post-Test Procedures

13. Any coating problems detected should be corrected while the tank is out of service in order to avoid further extensive downtime.

14. Once the tank is inspected and all maintenance items are taken care of, the tank will need to be disinfected prior to placing back in use.

15. Once the tank has been disinfected, bacteriological tests must be performed on water samples (2 per FDEP) taken from the tank discharge. FDEP to clear for service prior to placing back in service.

3.5 Safety of Test Area

The test area should be restricted and barricaded. The porosity testing instrument output can be up to 20,000 volts. Testing should be carried out well clear of personnel not involved in the testing procedure. Should accidental contact be made with the test electrode, the recipient will receive a mild shock. This equipment should never be used by a person with a pacemaker.

4.0 TEST EQUIPMENT DESCRIPTIONS

4.1 AR 850+ Ultrasonic Thickness Gauge



The Smart Sensor AR 850+ Digital Ultrasonic Thickness Gauge is an economical, user-friendly, menu driven, and multi-functional unit offering extensive features from basic measurements to extended memory. This dynamic series of UT gauges is designed to measure the thickness of metallic and non-metallic materials such as steel, aluminum, titanium, plastics, ceramics, glass and any other good ultrasonic wave conductor as long as it has parallel top and bottom surfaces. The AR 850+ gauges will accurately display readings in millimeters after a simple calibration to a known Thickness or sound velocity.

4.1.1 Features

- Main Unit
- Transducer 5 MHz / 2.5 MHz
- Integrated steel calibration plate 4.0mm
- Batteries (2 x AAA)
- Ultrasonic Couplant
- Operation Manual
- Certificate
- Carrying Case
- One Year Warranty

4.1.2 Technical Specification

Display Type	4-digit LCD
Display Resolution	(<100 mm) 0.1 mm
Units	Metric
Measuring Range (steel)	1.2 to 220.0 mm
Sound Velocity Range	1000 to 9999 m/s
Operating Temperature	0 ° C +45° C
Frequency	5 MHz
Power Source	3 X 1.5V AAA batteries
Dimensions	70x145.5x28 mm

4.2 Compact DC Inspector Porosity Detector



Porosity detection of Tanks, Valves, Pumps, Pipeline field joints, and general inspection and maintenance. Suitable for a broad range of testing and inspection requirements. It is recommended that the integral probe be limited to a 125mm flat brush or fan brush.

4.2.1 Standards

ASTM G62-87(1998), ASTM D4787-93(1999), NACE RP0274-98, NACE RP0490-2001, NACE RPO188- 99, JIS G-3491, JIS G-3492, ANSI/AWWA C214-89, ANSI/AWWA C213-94 and ISO 2746:1998

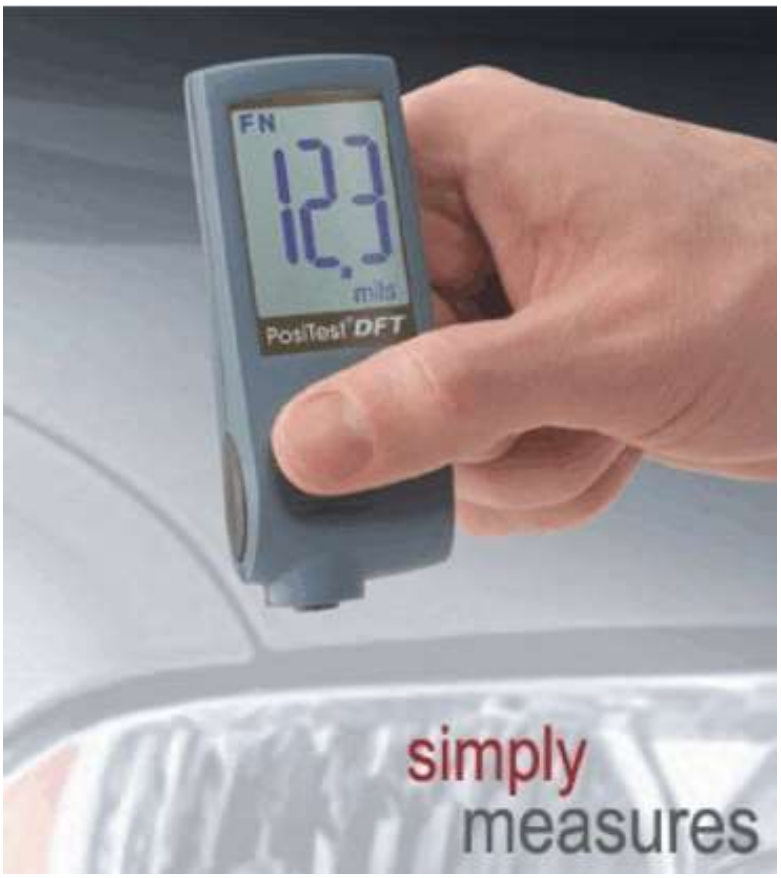
4.2.2 Features

- LED bar graph display of voltage
- "Single" hand-held, lightweight unit for simplicity and ease of operation
- Audible and visual alarms
- LED battery condition indicator
- Integral probe
- Detector
- 7m Earth lead and clamp
- Flat 125mm wide brass wire brush (or optional fan brush)
- Carry Case
- Operating instructions with conformance certificate
- Variable output up to 10kV or Variable output up to 20kV

4.2.3 Technical Specifications

Test Voltage	to 10kV (using 9V Battery)
Output Test Current	up to 100µA
Operating Temperature	-20 to +50ºC
Power Supply	Battery (9V internal)
Unit Dimensions	210 x 75 x 35mm (excl brush) 8.25" x 3.1" x 1.5"
Unit Weight	460g (incl probe)
Shipping Weight	1.5Kg

4.3 PosiTest DFT Coating Thickness Gauge



The new PosiTest DFT Coating Thickness Gauge measures coatings on ALL metals. It is the economical choice that retains the uncompromising quality of Qualitest inspection instruments.

Available in two models:

- PosiTest DFT Ferrous - measures non-magnetic coatings on steel.
- PosiTest DFT Combo - measures both non-magnetic coatings on steel and non-conductive coatings on aluminum, brass, etc. Automatically recognizes the substrate and takes a measurement.

4.3.1 Standards

ASTM B244/B499/B659/D1186/D1400/E376/G12, BS3900-C5, SSPC-PA2, ISO 2178/2360/2808, prEN ISO 19840, and others. Certificate of Calibration traceable to NIST available.

4.3.2 Features

- Fast, repeatable measurements
- No calibration required for most applications
- ZERO feature for rough or curved surfaces
- Handy RESET feature when no zero reference is available
- Strong, wear resistant, ruby-tipped probe
- Audible and visible measurement indication
- V-groove in probe for positioning on cylindrical parts
- Mils/Microns switchable
- Basic instructions on the back of each gauge

4.3.3 Technical Specifications

Measurement Range	0-40 mils (-1000 µm)
Accuracy	±(0.1 mils + 3%) (±(2µm + 3%))
Size	4 x 1.5 x 0.9 in (100 x38 x 23 mm)
Weight	2.5 oz (70 g)



5.0 HYDROPNEUMATIC PRESSURE TANK DESCRIPTION

The hydropneumatic pressure tank inspected and tested is described as follows:

Length: 23'-7" (26'-5" including elliptical heads)
Diameter: 6'-0" outside diameter
Volume: 5,000 gallons with elliptical heads
Tank Age: Approximately 26 years
Operating Pressure: 60 psi

6.0 TESTING

6.1 Porosity Testing

The tank surface was not swept with the Compact DC Inspector Porosity Detector during this inspection as no evidence of pin holes was observed throughout the surface of the tank.

6.2 Interior Coating Testing

No dry film thickness readings were taken within the tank interior as the coating had begun to fail along the tank ridge.

6.3 Ultrasonic Metal Thickness Testing

A total of 64 metal thickness readings were taken at various locations on the tank shell and head surface. The average shell reading was 6.08 millimeters in the cylindrical section and 6.73 millimeters in the elliptical heads. Typical industry standard minimum wall thickness for tanks of this size is 1/4" (6.35 mm).

7.0 VISUAL OBSERVATIONS

7.1 Tank Exterior

The exterior of the tank appeared to be in good structural condition. No lichens were growing on the tank exterior at the time of the inspection.

7.2 Tank Interior

The tank interior appeared to be in fair condition. There was only slight surface corrosion noted along the tank ridge.

8.0 DEFINITIONS

Design Pressure - The maximum design pressure determined from the metal thickness.

Maximum allowable working pressure (MAWP) – Maximum pressure that the pressure tank is capable of safely holding at a design maximum temperature (250ºF).

Operating Pressure - The normal maximum operating pressure of the pressure tank. The normal operating pressure must always be below the MAWP. As a rule of thumb the maximum operating pressure should always be less than the MAWP.

Metal Thickness – The thickness of the pressure tank wall (not including a corrosion allowance) to be used in the pressure calculations.

Design Safety Factor on Metal Tensile Strength – A pressure tank is normally designed with a safety factor of 3 to 4 on the metal tensile strength. All pressure tanks are designed to operate with wall stresses below the yield point of the metal used for fabrication.

9.0 TANK PRESSURE CALCULATIONS

The following formula is found in ASME Section I for determination of MAWP:

For tanks with circumferential stress on (longitudinal joints)

P = SEt/(R+0.6t)
= 60 MPa x 1.0 x 6.08 mm / (908 mm+0.6 x 6.08 mm)
= 0.400 MPa
= 58 psi

When:

t < 0.5R = 0.5 x 908 = 453.83 mm (true) or
P < 0.385SE = 0.385 x 60 x 1.0 = 23.1 MPa (true)

Where:

t = metal thickness (mm) where t = 6.08 mm
R = inside radius of shell course under consideration (mm) = 908 mm
E = joint efficiency for cylindrical or spherical shells = 1.0 for welded tanks and corresponds to a safety factor of 3.5 in the parent metal.
P = maximum allowable working pressure (MPa) where 1 MPa = 58 psi
S = maximum allowable stress value at the operating temperature of the metal = 60 MPa (Safety Factor of 4).

10.0 CONCLUSIONS

Inspection and testing of the Little Lake Weir subdivision 5,000-gallon hydropneumatic pressure tank was performed on November 28, 2018. In addition to a visual examination, non-destructive examinations were also made. Non-destructive examinations included ultrasonic measurement of the tank wall thickness and visual inspection for pinholes and leaks. No examination of Dry Film Thickness Measurement (DFTM) of the interior coating was performed as the coating had already begun to fail.

Observations of the tank exterior indicated tank is subject to normal exposure. Observations of tank interior revealed light surface corrosion along the upper ridge portions of the tank interior.

11.0 RECOMMENDATIONS

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 65 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 58 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

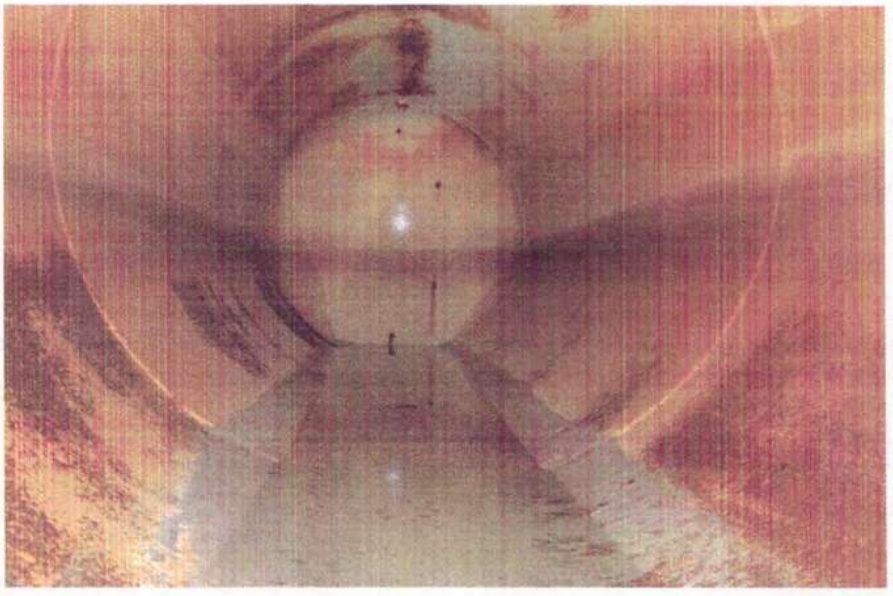
Signed: Robert M. Couch III Date: 1/5/2019

Robert M. Couch III, P.E. Registration No. 55311

Exterior and interior views of tank







APPENDIX C: EMERGENCY RESPONSE PLAN

Disaster-Specific Preparedness/Response Plan

for Public Drinking Water Systems

Per Chapter 62-555.350 (15) F.A.C.

Sunshine Utilities

LITTLE LAKE WEIR

Address:	10230 East Hwy. 25 Belleview, FL 34420
Phone:	352-347-8228
Fax:	352-347-6915
Contact:	Dewaine Christmas, Manager
E-mail:	SunshineUtl@AOL.COM
Connections:	422
PWS:	3420761
County:	Marion

May 17, 2013

Department of Environmental Protection
Michael D. LeRoy, P.E.
John R. Sowerby, P.E.

FRWA Security Staff
Sterling L. Carroll, P.E.
Ken Klos, P.E.
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This template and guide has been developed by the Florida Rural Water Association (FRWA) in collaboration with the Washington State Department of Health, Office of Drinking Water, Olympia, Washington; and reviewed by Florida Department of Environmental Protection.

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Preface
Chapter 62-555.350 (15) FAC

Disaster-Specific Preparedness/Response Plans

(15) Suppliers of water who own or operate a community water system serving, or designed to serve, 350 or more persons or 150 or more service connections shall develop a written emergency preparedness/response plan in accordance with Emergency Planning for Water Utilities, AWWA Manual M19, as adopted in Rule 62-555.335, F.A.C., by no later than December 31, 2004, and shall update and implement the plan as necessary thereafter. Said suppliers of water shall coordinate with their Local Emergency Planning Committee and their Florida Department of Law Enforcement Regional Security Task Force when developing their emergency plan and shall include in their plan all of the information in paragraphs (a) through (e) below.

(a) A Communication Charts as described in Chapter 5 of AWWA Manual M19.

(b) Written agreements with other agencies, utilities, or response organizations.

(c) A disaster-specific preparedness/response plan as described in Chapter 5 of AWWA Manual M19 for each of the following disasters: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release. Each disaster-specific preparedness/response plan shall incorporate the results of a vulnerability assessment; shall include actions and procedures, and identify equipment, that can obviate or lessen the impact of such a disaster; and shall include plans and procedures that can be implemented, and identify equipment that can be utilized, in the event of such a disaster.

(d) Details about how the water system meets the standby power requirements under subsection 62-555.320(14), F.A.C., and, if applicable, recommendations regarding the amount of fuel to maintain on site, and the amount of fuel to hold in reserve under contracts with fuel suppliers, for operation of auxiliary power sources.

(e) If applicable, recommendations regarding the amount of drinking water treatment chemicals, including chemicals used for regeneration of ion-exchange resins or for onsite generation of disinfectants, to maintain in inventory at treatment plants.

Specific Authority 403.861(9) FS. Law Implemented 403.852(12), 403.853(6), 403.861(17) FS. History-New 11-19-87, Formerly 17-22.650, Amended 1-18-89, 1-1-93, Formerly 17-555.350, Amended 8-28-03.

Time Extension for Submitting/Completing ERP – December 31, 2005

From: Hoofnagle, Van
Sent: Thursday, October 21, 2004 11:25 AM
Subject: Time Extension for Submitting/Completing ERP
Importance: High

I am sending this e-mail because of possible confusion in some FDEP District Offices or ACHDs regarding the deadline for compliance with the emergency preparedness/response plan requirements in FAC subsection 62-555.350(15).

As John Sowerby and other staff mentioned during Focus On Change presentations early this year on FAC Rule 62-555.350 and during training this summer on the recent amendments to FAC Chapter 62-555, the FDEP intends to amend FAC subsection 62-555.350(15) to give all affected community water systems (i.e., all community water systems serving 350 or more persons or 150 or more service connections) **until the end of 2005** instead of the end of this year to complete a comprehensive emergency preparedness / response plan as required by FAC subsection 62-555.350(15). At this point, it will likely be after the end of this year before we officially make this change to FAC subsection 62-555.350(15). In the meantime, please do not take any enforcement action against

community water systems who fail to meet the 12/31/04 deadline in FAC subsection 62-555.350(15). Thanks.

Van Hoofnagle
DEP Drinking Water Administrator

Section 1
Communication Charts

The first response step in any emergency is to inform the person at the top of this list, who is responsible for managing the emergency and making key decisions. List the water system chain of command in order of contact.

Water System Chain of Command – Lines of Authority

Order	Name & Title	Responsibilities During an Emergency	Contact Information
1	Dewaine Christmas Manager	Responsible for overall management and decision making. The manager is the lead for managing the emergency and providing information to regulatory agencies. All communications to external parties are to be approved by the manager.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl@AOL.Com
2	James Hodges Jr. Field Supervisor	Responsible for decision making in the field. In charge of overall maintenance, and repairs to all components of water system.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl @AOL.Com
3	Kelvin Edun Water Treatment Plant Operator	Responsible for running water treatment plant, performing inspections, maintenance, sampling and relaying all critical information to Field Supervisor.	Phone: Cell: 352-875-5141 Email:
4	Pamela Christmas Office	Responsible for assisting the manager in administrative duties and emergencies.	Phone: 352-347-8228 Cell: 352-245-4743 Email:
5			Phone: Cell: Email:
6			Phone: Cell: Email:
7			Phone: Cell: Email:

Emergency Notification

Notification call-up lists - Use these lists to notify important parties of an emergency.

Emergency Notification List

Organization or Department	Name & Position	Telephone	Cell Phone	e-mail
State Warning Point	**Duty Officer**	**800-320-0519**	800-320-0519	N/A
Local Law Enforcement	EOC Commander	352-622-3205		Pstefanski@sheriff.marioncountyfl.org
Fire Department		911		
Emergency Medical Services		911		
Water Operator (if contractor)	Kelvin Edun Operator	352-875-5141		
County Health Department	Tom Moore Director of Environmental Health	352-622-7744	352-266-7486	
DEP District Office	Manny Cardona	407-897-4134	Fax 407-893-4418	
County Emergency Management Dept.	Chip Wildy	352-622-3205		
Local Leader (City Mgr., Mayor, Chair. Co. Comm., etc.)				
Local Hazmat Team (if any)		911		
Hazmat Hotline		911		
National Spill Response Center.	Duty Officer	800-424-8802	800-424-8802	N/A
Interconnected Water System(s)				
Neighboring Water System (not connected)				
FRWA Water Circuit Rider	Tom Gustafson	850-668-2746	352-267-1302	

Priority Customers

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Hospital Or Clinic(s)				
Nursing Home(s)				
Public Schools				
Private Schools				
Wastewater Treatment Plant				
Food Processing Or Other Industry				

Service / Repair Notifications

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Electric Utility Co.	City of Ocala	352-651-6666		
Electrician	Melville Electric	352-245-0600		
Gas / Propane Supplier	Belleview Gas	352-245-6055		
Water Testing Lab.	Aqua Pure Lisa Saupp	352-625-2822		
Sewer Utility Co.				
Telephone Co.	Sprint	800-788-3600	611	
Plumber	ACP	352-427-7036		
Pump Supplier	Coast Pump	352-620-0616	352-266-4277	Coastpumpocal@hotmail.com
"Dig Safe" or "One Call"	Sunshine One Call	800-432-4770		
Rental Equip. Supplier	B&M Rental	352-245-3133	352-245-9800	

Service / Repair Notifications				
Organization Or Department	**Name & Position**	**Telephone**	**Cell Phone**	**email**
Chlorine Supplier	Custom Controls	352-622-9244	352-304-0572	
Other Chemical Suppliers				
Radio/SCADA Repair Co.				
Bottled Water Service				
Bulk Water Supplier				
Well Drilling Co.	Earls Well Drilling David Moffitt	352-245-2324	352-817-0502	
Pipe Supplier	National Water Works Roy Sands	352-351-8144	352-266-4705	

Designated Public Spokesperson and Alternates

Designate a spokesperson (alternates) for delivering messages to the news media & public

Public Spokesperson	Name & Position	Telephone	Cell Phone
Spokesperson	Dewaine Christmas Manager	352-347-8228	352-239-1198
Alternate 1	James Hodges Jr. Supervisor	352-347-8228	352-239-1197
Alternate 2			

Key Messages

Develop possible messages in advance, and update them as the emergency develops
▪ We are aware of the emergency and are working diligently to restore your water service.
▪ If you fall under a boil water notice you must bring water to a rolling boil for a period of at least one minute. You only have to boil water for human cunsumption.

▪

Health Advisories – Boil Water Notices

Use the assistance of your County Health Department and/or District FDEP office, and FDEP's Mandatory Health Effects Language, located on FDEP's website at:

http://www.doh.state.fl.us/environment/water/manual/boil.htm

http://www.DEP.state.fl.us/water/drinkingwater/rules.htm,

and click on "Mandatory Health Effects Language"., PLUS EPA's templates at:

http://epa.gov/safewater/pn.html

Click on "Microsoft Word and Word Perfect files of PN templates" (PN means Public Notifications), then determine which "Tier" of notifications is needed and click on the desired software to receive them in.

Section 2
Written Agreements With Other Agencies, Utilities, or Response Organizations

INSERT BELOW information regarding any written agreements with other agencies, utilities, or response organizations, such as emergency interconnects, mutual aid or FlaWARN.

Emergency Interconnect(s)

Information on the location of interconnection(s) (if any), type and size of interconnecting pipe, pumps and accessory equipment, meters at interconnection(s), normal pressures at both ends of interconnection, volume of water from interconnection(s), type of agreement and approvals needed for use, procedures necessary to use interconnection, etc.

Location (Street)	
Location (GPS)	
Description	

Memoranda of Understanding

Organization	
Summary of Understanding	

Mutual Aid Agreements

Organization	Marion Utilities, 352-622-1171
Summary of Understanding	Will render mutual aide – ie: pumps, generators, and other materials necessary to restore water service.

FlaWARN

Organization	
Summary of Understanding	

Section 3
Disaster-Specific Preparedness/Response Plan

Your disaster-specific preparedness/response plan must include a Vulnerability Assessment and preparedness / response plans for: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release.

In any event there are a series of general steps to take:

1. Confirm and analyze the type and severity of the emergency.
2. Take immediate actions to save lives.
3. Take action to reduce injuries and system damage.
4. Make repairs based on priority demand.
5. Return the system to normal operation.

Vulnerability Assessment

It is essential that water systems identify and assess the vulnerability of each system component for both natural and human-caused emergencies, before preparing their disaster-specific preparedness/response plans. Prepare your Vulnerability Assessment by completing the table below:

Facility Vulnerability Assessment

System component	Description and condition	Vulnerability	Security improvements (indicate existing or proposed)
Raw Water Sources	(2) 4" groundwater wells located several hundred feet from homes. Wells are in good condition. We have wellhead protection in place.	The wells are most vulnerable to above ground activities because it is only 250 FT deep.	1.Purchase land surrounding well. 2. Secure well house to foundation and install lighting around well house.
Pump-house and pumping facilities	The pump-house and pumping facility are in good condition.	Pump location is fully fenced with a locked gate.	Install tamper proof padlocks.
Treatment Facilities	There is a hypo-chlorination system inside of pump house. System is in good condition.	Chlorination systems are not subject to power outages.	There is a backup generator on site in compliance with CH. 62-555.320(14)FAC
Storage Facilities	Hydro pneumatic tank is fenced in good condition.	Tank is not in a lighted area.	Install lighting in area of tank.
Computer and telemetry systems	Computers are in utilities main office and are in good condition.	Computers should be better protected against cyber attack or hacking.	Secure computers with firewalls & virus protection.

A. Vandalism or Sabotage Response Procedures

1. Utility staff first aware of incident:
    a) Calls 9-1-1/ Local Law Enforcement.
    b) Calls Manager
2. Manager determines severity of incident.
    a) Field supervisor determines if vandalism or sabotage will effect the water quality.
    b) Manager reports incident to the state warning point.
3. Field supervisor directs repairs as needed.
    a) Complete repairs
    b) Update ERP as needed.

B. Drought Response Procedures

Include water use restrictions per Consumptive Use Permit

1. Manager coordinates with the local Water Management District (WMD) regarding drought conditions.
    a) If drought conditions exist, a water conservation plan will be initiated.
    b) Literature will be distributed to customers regarding the drought.
    c) Conservation material will be distributed to customers on conservation measures.
    d) Customers not abiding by restrictions will be reported to WMD.
    e) Manager updates ERP as needed.

C. Hurricane Preparedness & Response Procedures

Pre- Hurricane **(36 to 48 hrs prior to arrival)**	1. Manager coordinates with local EOC. 2. Field supervisor checks operation of standby power. 3. Field supervisor secures fuel and treatment chemicals for a 10 day period. 4. Manager replenishes inventory of spare parts.
Hurricane Watch **(24 to 36 hrs prior to arrival)**	1. Manager cancels all time off for employees. 2. Manager issues work assignments in advance in case of communication loss. 3. Employees all top off fuel in vehicles & standby generators. 4. Manager authorizes employees to secure their personal property and arrange for the safety of family members.
Hurricane Warning (24hrs or less prior to arrival)	1. Employees report to designated areas and wait for instructions. 2. Employees load truck with supplies. 3. Employees follow evacuation protocol.
Recovery Procedures	1. Manager coordinates with local EOC. 2. Manager issues boil water notices if needed. 3. Field supervisor coordinates repairs. 4. Manager makes contact with the appropriate DEP office. 5. After repairs are completed samples are taken. 6. When samples come back clear – boil water notice is lifted. 7. Manager files all malfunction reports with the DEP. 8. Field supervisor inspects all systems to make sure everything is running smooth.

D. Structure Fire Response Procedures

1. Utility staff discovering fire:
    a) Evacuate structure on fire.
    b) Call 9-1-1
2. Manager determines severity of incident.
    a) Manager contact State Warning Point.
    b) Field supervisor coordinates repairs when fire is extinguished.
3. Field supervisor reports to manager when repairs are complete.
    a) Manager reports completion of all repairs to any Gov. agency.
    b) Manager updates ERP as needed.

E. Flood Preparedness & Response Procedures

(Is any critical part of your system in a flood prone area?)

None of our systems are in a flood prone area.

F. Forest or Brush Fire Response Procedures

(Is any critical part of your system subject to forest or brush fires?)

1. Utility staff discovering fire.
    a) Orders evacuation of any threatened buildings.
    b) Calls 9-1-1 to report fire.
2. Manager determines the severity of fire.
    a) Manager contacts the State Warning Point.
    b) Field supervisor inspects for any damage and coordinates repairs after fire is extinguished.
3. Field supervisor reports to manager that all repairs are complete.
    a) Manager updates the ERP as needed.
    b)

G. Hazardous Material Release Response Procedures

Do you have any hazardous material (chlorine gas) at your water system?

We have no Hazardous materials at any of our water systems.

H. Other Disaster Response Procedures

Are there other disasters that you want to prepare for, such as a Contamination event, SCADA Attack, or Structural Damage from an Intentional Act?

Contamination

1.
   a)
   b)
2.
   a)
   b)

SCADA Attack

1.
   a)
   b)
2.
   a)
   b)

Structural Damage from an Intentional Act

1.
   a)
   b)
2.
   a)
   b)

Section 4
Standby Power Requirements

Include details about how the water system meets the standby power requirements as described in Ch. 62-555.320(14), and 62-555.350(15)(d) FAC for water source, treatment, and pumping facilities necessary to deliver drinking water at a rate at least equal to the Average Daily Water Demand.

Standby Power for Wells or Surface Water Intakes

Standby Power (or by alternate means) to OPERATE WELLS at Average Daily Demand

Average Daily Demand (ADD) in gpd or gpm	82780 gpd
Wells Needed to Supply Average Daily Demand	1
Standby Generator (kW) Needed for ADD &	15 KW
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	We will have reserve fuel in the case of an emergency.

Standby Power for Treatment Facilities

Standby Power (or by alternate means) to TREAT WATER at Average Daily Demand

Treatment Units Needed to Supply ADD	
Standby Generator (kW) Needed to Treat ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Standby Power for Pumps

Standby Power (or by alternate means) to PUMP WATER at Average Daily Demand

Pumps Needed to Supply ADD	
Standby Generator (kW) Needed to Pump ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Section 5
Drinking Water Treatment Chemicals & Disinfectants

Include recommendations regarding the amount of drinking water treatment chemicals, to maintain in inventory at treatment plants. Do not just list chemical storage capacity, but instead recommend the minimum amount of chemicals to maintain in inventory, which depends upon the location and reliability of chemical suppliers, the status of impending disasters, etc.

Disinfection Treatment Information

Disinfection Chemical(s)	Chemical / Location No. 1	Chemical / Location No. 2
Type of Chemical	Chlorine	
Type of Chemical Feed	Hypo-Chlorinator	
Chemical Storage Location	On site in the pump house.	
Recommended Minimum Amount to be Maintained in Storage (gal)	55 gallons	

Other Chemical Information

Chemical(s) Used	Chemical #1	Chemical #2	Chemical #3	Chemical #4
Type of Chemical				
Type of Chemical Feed				
System Location				
Chemical Storage Location				
Recommended Minimum Amount to be Maintained in Storage (gal)				

Appendix A
Basic System information

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Keep this basic information readily available for when you need it for emergency responders, repair people, the news media and potentially, an emergency operator.

Basic System Information

GPS coordinates will help emergency crews find your system following a major catastrophe.

System identification number (PWS ID)	**3420761**	
System name and address	**LITTLE LAKE WEIR**	
GPS Coordinates	Latitude:	Longitude:
Basic description and location of system facilities	**9003 SE 144th LN**	
Population served and service connections.	Population =	Connections = 422
System Owner	**Sunshine Utilities of Central Florida, Inc.**	
Management Authority	**Owner and Manager**	
Name, title, and phone numbers of person responsible for maintaining and implementing the ERP.	**Dewaine Christmas** **Manager**	**352-347-8228 phone** **352-239-1198 cell**

System Demand

Demand based on Monthly Operational Records and system capacity based on Sanitary Survey.

Average Daily Demand (gpd)	82780 GPD
Maximum Daily Demand (gpd)	94900 GPD
System Capacity (gpd)	106560 GPD
Peak Hour Demand (gpm)	N/A

Location of Pertinent Information

Item	Location
Distribution System Map	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
O&M Manual(s)	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
Start-Up / Shut-Down Procedures	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.

Well Information

GPS coordinates will help emergency crews find wells following a major catastrophe.

Well Information	Well No. 1	Well No. 2	Well No. 3	Well No. 4
GPS well tag #				
Location (street)	SE 144th Ave	Se 144th Ave		
GPS Coordinates	Lat: Long:		Lat: Long:	Lat: Long:
Well Depth (ft)	250 FT	170		
Well Yield (gpd)	47520 GPD	122400 GPD		
Pump Type	Submersible	Submersible		
Manufacturer	Sta-Rite	Sta- Rite		
Capacity (gpm)	33 GPM	85 GPM		
Motor Manufacturer	Franklin	Franklin		
Horsepower	3 HP	5HP		
Phase	1	1		
Volts/Amps	230 volts	230 Volts		

Surface Water Sources

GPS coordinates will help emergency crews find surface water intakes following a major catastrophe.

Surface Water Information	Intake No. 1	Intake No. 2
Location (Street / Description)		
GPS Coordinates	Lat: Long:	Lat: Long:
Critical Water Level		

Finished Water Storage

GPS coordinates will help emergency crews find tanks following a major catastrophe.

Name of Storage Unit	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Location (Street)				
Location (GPS)	Lat: Long:	Lat: Long:	Lat: Long:	Lat: Long:
Type (ground, elevated, etc.)				
Capacity (gal)				
Empty Elevation				
Overflow Elevation				

High Service Pumps

HSP	HSP No. 1	HSP No. 2	HSP No. 3	HSP No. 4
Location (street)				
Pump Type				
Manufacturer				
Capacity (gpm)				
Motor Manufacturer				
Horsepower				
Phase				
Volts/Amps				

Other Applicable Information

Appendix B
Training and Rehearsals

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Event	Description	People & Organizations Involved	Date

Appendix C
Plan Approval

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Plan Approval

This plan is officially in effect when reviewed, approved, and signed by the following people:

Name / Title	Signature	Date
Hodges Family Trust		

APPENDIX D: CONSUMER CONFIDENCE REPORT

Certification of Delivery of Consumer Confidence Report

GENERAL INSTRUCTIONS: This form shall be completed by all community water systems (CWSs) that have prepared a Consumer Confidence Report (CCR) in accordance with Rule 62-550.824, F.A.C., Consumer Confidence Reports. At the end of this form is a certification in which a system's authorized representative shall certify that the reported information is accurate and is in conformance with Rule 62-550.824, F.A.C. **COMPLETE THIS FORM AND SUBMIT IT BY AUGUST 10,** together with a copy of your system's CCR, sample email or water bill (with URL notification of CCR, if applicable), and any newspaper notice(s) and posted notice(s) of your CCR, to the appropriate DEP district office or Approved County Health Department (ACHD). Systems serving 100,000 or more persons posting their CCRs on publicly accessible Internet sites shall provide the information on the appropriate Internet link(s). All information provided on this form must be typed or printed in ink.

I. General Water System Information. (To be completed by all community water systems.)

System name: Little Lake Weir Contact person: Dewaine Christmas

PWS Identification number (PWS ID): 3420761 Contact phone number: (352)347-8228

Mailing address: 10220 East Hwy 25 City: Belleview

State: Fl Zip: 34420-5531 Population served (not the number of "service connections"): _____

II. CCR Distribution Method. (To be completed by all community water systems. Choose A or B as appropriate.)

☐ A. We mailed, emailed, or otherwise directly delivered a copy of our CCR to each customer on _____ (enter date(s) of mailing or delivery) using the method(s) checked below:

- ☐ a. **Mailed** CCR
- ☐ b. **Mailed** notice (e.g. water bill) with **direct URL** to the CCR
- ☐ c. **Emailed** CCR as an **embedded** image or as an **attachment**
- ☐ d. **Emailed** notice with a **direct URL** to the CCR
- ☐ e. **Otherwise directly delivered** CCR to every customer. Explain: _____

☑ B. We were eligible to use a mailing waiver and used a mailing waiver. (Systems are eligible to use a mailing waiver only if they serve fewer than 10,000 persons, have not had any MCL or monitoring and reporting (M/R) violations, nor have been issued any formal Notices of Violations (NOVs), Consent Orders, Administrative Orders, or court-ordered civil actions during the calendar year before the year the CCR is due to the customers).

Answer a, b, **and** c below.)

- ☐ a. Date of newspaper: _____
- ☐ b. Name of newspaper/newsletter that published our CCR: _____
- ☑ c. A copy of our notice to customers, informing them that our CCR will not be mailed to them, is attached.

This notice was: ☑ mailed with bill; ☐ published in newspaper/newsletter; or ☐ other (describe)

_____

III. Posting of CCR on the Internet. (To be completed by all CWSs serving 100,000 or more persons.)

We posted our CCR on this publicly accessible internet site: _____

IV. Report on Your Effort to Distribute Your CCR to Your Water Consumers.

(To be completed by all CWSs. Check all items that apply - at least one item must be checked.)

In addition to the methods selected in Part II,

☐ A. We posted our CCR on this publicly accessible internet site: www.sunshineutilities.org

☐ B. We published our CCR in the local newspaper(s). The name(s) and date(s) of the newspaper(s) are:

_____

RECEIVED
JUL 10 2020
DEP Central District

☐ C. We advertised the availability of our CCR as a press release, radio announcement, or TV announcement. The type(s) and date(s) of the advertisement(s) are: _____

☐ D. We delivered multiple copies of our CCR to single bill addresses serving several persons.

☐ E. We delivered multiple copies of our CCR to the following community organizations:

_____

☐ F. Our CCR was posted in the following public locations: _____

_____

☒ G. Our CCR was distributed by other methods (e.g., additional copies placed in entrance hall to facility). Describe.
Additional copies available at Sunshine Utilities Office

V. Use of Non-English Language in CCR. (To be completed by all community water systems.)

☐ Information in a non-English language was included in our CCR because 20% or more of our customers do not speak English but speak _____. The method we used to determine the proportion of non-English speaking customers is _____

☒ This requirement does not apply to our system, because we have no non-English speaking group among our customers equal to or exceeding 20% of our total number of customers.

VI. Other Delivery Requirements. (To be completed by all community water systems.)

(A) Was a copy of your CCR sent to your county health department, as required by rule? ☒ Yes ☐ No

(B) Is your system regulated by the Public Service Commission (PSC)? ☐ Yes ☐ No

If Yes, was a copy of your CCR sent to the PSC, as required by rule? ☒ Yes ☐ No

(C) If your system sells water to other systems, have you provided them with either a copy of your CCR or the required consumer confidence information? ☒ Yes ☐ No ☒ Not Applicable

VII. Certification of Delivery of CCR and Compliance with Regulations. (To be completed by all CWSs.)

This statement certifies that the above named community public water system has distributed its CCR for the time period starting ***January 1,*** 2019 ***, and ending December 31,*** 2019, to its customers on 6/15/20 (mm/dd/yy) and provided the appropriate notices of availability according to the requirements listed in this form, which are also found in Rule 62-550.824, F.A.C. This statement also certifies that the reported information is correct and consistent with the compliance monitoring data for the same period previously submitted to the Department, and that the report has been delivered to the agencies identified in Rules 62-550.824(3)(e)3., and 4., F.A.C.

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____

NAME (please print): Dewaine Christmas

TITLE: Manager DATE: _____

☒ **A copy of our CCR is attached, and**

☐ **If using electronic delivery, a copy of our sample email or notice (e.g. water bill), with URL leading directly to the CCR and not a general information website, is attached. For example, if you are using the FRWA website to post your CCR, your URL would be:**

www.frwa.net/2012-Your PWSID Number.pdf (www.frwa.net/2012-0000000.pdf).

SUNSHINE UTILITIES
10230 East Highway 25
Belleview, Florida 34420

Drinking Water Quality Report

Annual Drinking Water Quality Report for 2019

Little Lake Weir

Florida Department of Environmental Protection Public Water System ID # 3420761

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water.

The source of our water is groundwater from two wells located in the community. The wells draw from the Floridan aquifer, one of the world's most protected sources. Our water is chlorinated for disinfection purposes. In 2019 the Florida Department of Environmental Protection conducted an assessment which identifies potential sources of contamination in the vicinity of our wells. The SWAPP (Source Water Assessment and Protection Program) determined our public water system to have no potential sources of contamination. You may obtain more information at the web site *www.dep.state.fl.us/swapp*.

If you have any questions about this report or concerning your water utility please contact **Dewaine Christmas, at Sunshine Utilities, (352) 347-8228**, during normal business hours. We encourage our valued customers to be informed about their water utility.

Sunshine Utilities routinely monitors for constituents in your drinking water according to Federal and State laws, rules and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2019. Data obtained before January 1, 2019, and presented in this report are from the most recent testing performed in accordance with the laws, rules and regulations.

WATER QUALITY TEST RESULTS FOR LITTLE LAKE WEIR

Inorganic Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Arsenic	(ppb)	MAR'18	No	0.4	N/A	N/A	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	(ppm)	MAR'18	No	0.0072	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chromium	(ppb)	MAR'18	No	1.5	N/A	100	100	Discharge from steel and pulp mills; erosion of natural deposits
Fluoride	(ppm)	MAR'18	No	0.061	N/A	4	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum levels between 0.7 and 1.2 ppm
Nitrate (as Nitrogen)	(ppm)	DEC'19	No	3.66	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium	(ppb)	MaR'18	No	0.6	N/A	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium	(ppm)	MAR'18	No	6.0	N/A	N/A	160	Salt water intrusion; leaching from soil

Stage 2 Disinfectants and Disinfection By-Products

Disinfectant or Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL or MRDL Violation Yes / No	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine	(ppm)	2019	No	0.7	0.3 - 1.2	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Haloacetic Acids (five) (HAA_5)	(ppb)	AUG'19	No	3.43	N/A	N/A	MCL = 60	By-product of drinking water disinfection
Total trihalomethane (TTHM)	(ppb)	AUG'19	No	0.39	N/A	N/A	MCL = 80	By-product of drinking water disinfection

Lead and Copper (Tap Water)

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	AL Violation Yes / No	90th Percentile Result	No. of Sampling Sites Exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper	(ppm)	AUG'18	No	0.04	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead	(ppb)	AUG'18	No	2.9	0	0	15	Corrosion of household plumbing systems; erosion of natural deposits

In the table you may find unfamiliar terms and abbreviations. To help you better understand these terms we have provided the following definitions (please note not all definitions may pertain to your report):

- Action Level (AL) – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial growth.
- Maximum Residual Disinfectant Level Goal (MRDLG) – The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.
- ND – This abbreviation means not detected and indicates that the substance was not found by laboratory analysis.
- Parts per million (ppm) or milligrams per Liter (mg/L) - one part of analyte (by weight) to 1 million parts of water sample (by weight).
- Parts per billion (ppb) or micrograms per Liter (µg/L) - one part of analyte (by weight) to 1 billion parts of water sample (by weight).
- Picocurie per liter (pCi/L) - measure of the radioactivity in water.

What does this mean?

As you can see our system had no violations. We're very proud that your drinking water meets all Federal and State requirements.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Sunshine Utilities is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals, and in some cases radioactive material, and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

A.) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

B.) Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

C.) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

D.) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

E.) Radioactive contaminants, which may be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The FDA (Food & Drug Administration) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care providers about their drinking water. EPA/CDC (Center for Disease Control) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are also available from the Safe Drinking Water Hotline (800-426-4791).

We are committed to ensuring the quality of your water. If you have any questions or concerns about the information provided, please feel free to call the numbers listed.

Sunshine Utilities

10230 East Highway 25, Belleview, FL 34420
Office (352)347-8228 – Fax (352)347-6915

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality of water and services we deliver to you everyday. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

Please follow the link to view your 2019 Annual Water Quality Report.

https://www.sunshineutilities.org/ccr19/2019LittleLakeWeir.pdf

APPENDIX E: SANITARY SURVEY REPORT

FLORIDA DEPARTMENT OF
Environmental Protection

CENTRAL DISTRICT OFFICE
3319 MAGUIRE BLVD., SUITE 232
ORLANDO, FLORIDA 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

January 31, 2020

Dewaine Christmas, Owner
Sunshine Utilities
9049 SE 144th Ln
Summerfield, FL 34420
sunshineutl@aol.com

Re: Little Lake Weir Subdivision
PW Facility ID #3420761
Marion County

Dear Mr. Christmas:

Department personnel conducted an inspection of the above-referenced facility on January 9, 2020. Based on the information provided during and following the inspection, the facility was determined to be in compliance with the Department's rules and regulations. A copy of the inspection report is attached for your records, and any non-compliance items which may have been identified at the time of the inspection have been corrected.

The Department appreciates your efforts to maintain this facility in compliance with state and federal rules. Should you have any questions or comments, please contact Miranda Rothenberger at 407-897-4301 or via e-mail at Miranda.Rothenberger@FloridaDEP.gov.

Sincerely,

Daniel K. Hall, Manager
Central District
Florida Department of Environmental Protection

Enclosure: January 9, 2020 Inspection Report

cc: Miranda Rothenberger, FDEP

State of Florida
Department of Environmental Protection
Central District

SANITARY SURVEY REPORT

Plant Name **LITTLE LAKE WEIR SUBDIVISION** County Marion PWS ID # **3420761**
Plant Location 9049 SE 144th Ln, Summerfield, FL 34420 Phone 352-347-8228
Owner Name Sunshine Utilities of Central FL, Inc. Phone 352-347-8228
Owner Address 10230 E Hwy 25, Belleview, FL 34420
Contact Person Dewaine Christmas Title Manager Phone 342-347-8228
This Survey Date 01/09/2020 Last Survey Date 03/16/2017 Last Compliance Inspection Date 10/15/2001

PWS TYPE: Community

PLANT CATEGORY & CLASS: 5D

MAX-DAY DESIGN CAPACITY: 106,560 gpd

PWS STATUS: Approved

TREATMENT PROCESSES IN USE
Hypochlorination

SERVICE AREA CHARACTERISTICS
Subdivision
Food Service: ☐ Yes ☐ No ☒ N/A

Number of Service Connections 385
Population Served 963 Basis MOR

OPERATION & MAINTENANCE LOG: Yes
Location Water treatment plant
Comments

CERTIFIED OPERATOR: Yes
Operator(s) & Certification Class-Number:
Kelvin Edun C-7459

Hrs/day: *Required* Visit *Actual* Visit
Days/wk: *Required* 3 *Actual* 3
Non-consecutive Days? ☒ Yes ☐ No ☐ N/A
Comments 3 visits/week on nonconsecutive days for a total of 0.3 hour/week.

MONTHLY OPERATION REPORTS (MORs)
MORs submitted regularly? ☐ Yes ☒ No ☐ N/A
Data missing from MORs? ☒ No ☐ Yes ☐ N/A
Average Day (from MORs) *46,788 gpd
Maximum Day (from MORs) 124,300 gpd 11/2019
Comments MOR missing from 02/2019 and 08/2019.
*not accurate, missing two months from 2019.

Flow Measuring Device Flow Meter
Meter Size & Type 2" Sensus / 2" Master
Date Last Calibrated 01/24/2020 / 10/16/2018

RAW WATER SOURCE
☒ GROUND; Number of Wells 2
☐ PURCHASED from PWS ID #
☐ Emergency Water Source
Emergency Water Capacity

STANDBY POWER SOURCE: Yes
Source Onan Diesel
Capacity of Standby (kW) 80
Switchover: ☒ Automatic ☐ Manual
Hrs Operated Under Load 2 hrs/mo.
What equipment does it operate?
☒ Well Pumps
☐ High Service Pumps
☒ Treatment Equipment
Satisfy avg. daily demand? ☒Yes ☐No ☐Unknown
Audio-visual alarm? ☒Yes ☐No
Comments Auto-Dialer

PLANS AND MAPS

Coliform Sampling Plan	☒ Yes	☐ No	☐ N/A
D/DBP Monitoring Plan	☒ Yes	☐ No	☐ N/A
Lead and Copper Plan	☒ Yes	☐ No	☐ N/A
Distribution System Map	☒ Yes	☐ No	☐ N/A
Emergency Response Plan	☒ Yes	☐ No	☐ N/A

Comments

PREVENTIVE MAINTENANCE/O&M

Operation & Maintenance Manual	☒ Yes	☐ No	
Preventive Maintenance Program	☒ Yes	☐ No	☐ N/A
Flushing Program	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A
Isolation Valve Exercise	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A

Comments

CROSS CONNECTION CONTROL
BFPAs # Tested
WWTP RPZ Date Tested
Written Plan Date
Comments

PWS ID # 3420761
Date 01/09/2020

GROUND WATER SOURCE

Well Number (Florida Unique Well ID #)		1 (AAE0263)	2 (AAE0262)		
Year Drilled		Unknown	1980		
Depth Drilled		250’	170’		
Drilling Method		Cable tool	Rotary drill		
Type of Grout		Neat cement	Neat cement		
Static Water Level		Unknown	Unknown		
Pumping Water Level		Unknown	Unknown		
Design Well Yield		Unknown	Unknown		
Test Yield		Unknown	Unknown		
Actual Yield (if different than rated capacity)		Unknown	Unknown		
Strainer		Unknown	Black steel		
Length (outside casing)		Unknown	142’		
Diameter (outside casing)		4”	4”		
Material (outside casing)		Unknown	Black iron		
Well Contamination History		None	None		
Is inundation of well possible?		No	No		
6’ X 6’ X 4” Concrete Pad		Yes	Yes		
SET BACKS	Septic Tank	N/A	N/A		
	Reuse Water	>200’	>200’		
	WW Plumbing	>200’	>200’		
	Other Sanitary Hazard	None observed	None observed		
PUMP	Type	Submersible	Submersible		
	Manufacturer Name	Unknown	Unknown		
	Model Number	Unknown	Unknown		
	Rated Capacity (gpm)	75	73		
	Motor Horsepower	5	5		
Well casing 12” above grade?		Yes	No*		
Well Casing Sanitary Seal		OK	OK		
Raw Water Sampling Tap		Yes	Yes		
Above Ground Check Valve		Yes	Yes		
Security		Yes	Yes		
Well Vent Protection		N/A	N/A		

COMMENTS *The Department will continue to accept the well casing as it currently exists unless it is shown to contain chemical or microbial contamination.

PWS ID # 3420761
Date 01/09/2020

CHLORINATION (Disinfection)
Type: ☐ Gas ☒ Hypo
Make Chem Tech/Unidose Capacity 15/12 gpd
Chlorine Feed Rate 50%/30% Stroke
Avg. Amount of Cl_2 gas used N/A
Chlorine Residuals: Plant 0.32 Remote N/A
Remote tap location Remote not collected
DPD Test Kit: ☐ On-site ☒ With operator
☐ None ☐ Not Used Daily
Injection Points Prior to hydropneumatic tank
Booster Pump Info
Comments Two chlorine pumps in use.

Chlorine Gas Use Requirements	YES	NO	Comments
Dual System	☐	☐	
Auto-switchover	☐	☐	
Alarms: Loss of Cl_2 capability Loss of Cl_2 residual Cl_2 leak detection	 ☐ ☐ ☐	 ☐ ☐ ☐	
Scale	☐	☐	
Chained Cylinders	☐	☐	
Reserve Supply	☐	☐	
Adequate Air-pak	☐	☐	
Sign of Leaks	☐	☐	
Fresh Ammonia	☐	☐	
Ventilation	☐	☐	
Room Lighting	☐	☐	
Warning Signs	☐	☐	
Repair Kits	☐	☐	
Fitted Wrench	☐	☐	
Housing/Protection	☐	☐	

AERATION (Gases, Fe, & Mn Removal)
Type Capacity
Aerator Condition
Visible Algae Growth
Protective Screen Condition
Frequency of Cleaning
Date Last Inspected/Cleaned
Comments

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

Tank Type/Number	H
Capacity (gal)	5,000
Material	Steel
Gravity Drain	Yes*
By-Pass Piping	Yes
Protected Openings	Yes
Sight Glass or Level Indicator	Yes
PRV/ARV	PRV
Pressure Gauge	Yes
On/Off Pressure	40/60
Access Secured	Yes
Access Manhole	Yes
Tank Sample Tap Location	on tank
Date of Inspection	11/2018
Date of Cleaning	11/2018

Comments *Bio-growth found on the gravity drain.

HIGH SERVICE PUMPS

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

Comments

DEFICIENCIES:

Areas of Concern	Rule	Corrective Action	Date Corrected	Significant Deficiency?
Biogrowth on drain pipe of the tank(s)	62-555.350(2)	Remove the biogrowth.	01/09/2020	No
Monthly Operation Reports(MORs) are missing for 02/2019 and 08/2019	62-555.350(12)(b)	Submit a copy of the 02/2019 and 08/2019 MORs to the Department.	01/14/2020	No

MONITORING REMINDER:

- Nitrate and nitrite samples are required to be collected from the point of entry (POE) to the distribution system annually. The 2020 samples have not been received, early sampling is recommended.
- The consumer confidence report (CCR) must be delivered to consumers and the Department no later than July 1, 2020, and certification of delivery of the CCR must be submitted to the Department no later than August 10, 2020.
- Monitoring schedules are available on the Central District's Drinking Water site:

https://floridadep.gov/central/central/content/resources-drinking-water-facilities-and-operators-central-district

COMMENTS:

- **Contact FRWA (Florida Rural Water Association) at 850-668-2746, or** frwa@frwa.net, for free technical assistance with your system. FRWA has extended benefits offered to members.
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.

  Checking the calibration of finished-drinking-water meters at treatment plants shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water. [Rule 62-555.350(2), F.A.C.]
- Suppliers of water shall submit written notification to the Department before beginning work or alterations to the public water system. Each notification shall be submitted to the appropriate Department of Environmental Protection District Office or Approved County Health Department and shall include the following: a description of the scope, purpose, and location of the work or alterations; and assurance that the work or alterations will comply with applicable requirements listed in Rule 62-555.330, F.A.C. Suppliers of water may begin such work or alterations 14 days after providing notification to the Department unless they are advised by the Department that the notification is incomplete or that a construction permit is required.
- Suppliers of water shall telephone the SWO at 1-800-320-0519 immediately (i.e., within two hours) after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving a public water system. [Rule 62-555.350(10)(a), F.A.C.]
- Suppliers of water shall telephone, and speak directly to a person at, the appropriate DEP District Office as soon as possible, but never later than noon of the next business day, in the event of any of the following emergency or abnormal operating conditions:
  - The occurrence of any abnormal color, odor, or taste in a public water system's raw or finished water;
  - The failure of a public water system to comply with applicable disinfection requirements; or
  - The breakdown of any water treatment or pumping facilities, or the break of any water main, in a public water system if the breakdown or break is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the

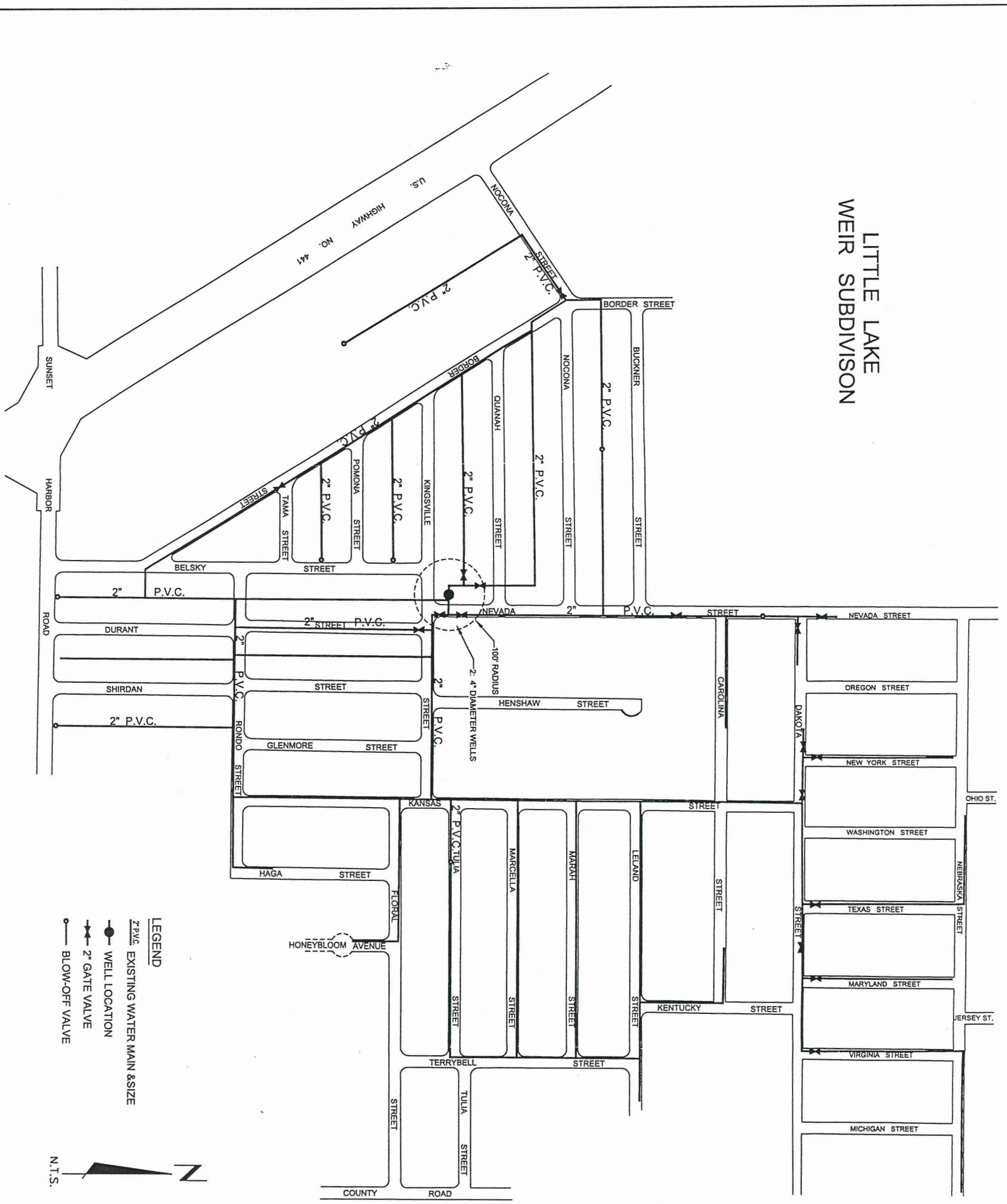
Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(b), F.A.C.]

- Suppliers of water shall notify affected water customers in writing or via telephone, newspaper, radio, or television; and telephone, and speak directly to a person at, the appropriate DEP District Office by no later than the previous business day before taking PWS components out of operation for planned maintenance or repair work if the work is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(d), F.A.C.]
- Suppliers of water shall issue precautionary “boil water” notices as required or recommended in the Department of Health’s “Guidelines for the Issuance of Precautionary Boil Water Notices” as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(11), F.A.C.]

M E Rothenberger	Daniel K Hall
Inspector Signature	*Reviewer Signature*
Miranda Rothenberger	Daniel K. Hall
Printed Name	*Printed Name*
Environmental Specialist	Environmental Manager
Title	*Title*
01/30/2020	January 31, 2020
Date	*Date*

APPENDIX F: DISTRIBUTION MAP

LITTLE LAKE
WEIR SUBDIVISON



LEGEND

2" P.V.C. EXISTING WATER MAIN &SIZE

WELL LOCATION

2" GATE VALVE

BLOW-OFF VALVE

N.T.S.

DRN	CHK	DATE	DESCRIPTION
SAO	RJW	14 JUL 99	ORIGINAL ISSUE

Project No. 9636-02

Sheet 1 of 1

FACILITY WATER SYSTEM

LITTLE LAKE WEIR SUBDIVISION
SUNSHINE UTILITIES
BELLEVIEW, FLORIDA

H.W. BARRINEAU & ASSOCIATES, INC.

2100 SOUTHEAST 17th ST, SUITE 802
OCALA, FLORIDA 34471

FAX (352) 840-9588
(352) 840-9774



woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Oak Haven
Quadruplexes

210 South Florida Avenue | Suite 220
Lakeland, Florida 33801
800.426.4262

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

0233748.01
CSWR
July 2021

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Appendix B: Tank Inspection Report
Appendix C: Emergency Response Plan
Appendix D: Consumer Confidence Report
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Appendix F: Distribution Map

APPENDIX A: SOURCE WATER ASSESSMENT & PROTECTION PROGRAM RESULTS

» SWAPP Homepage
» Search By County
» Search by PWS Name or Number
» How to Help?

Definitions

» Aquifers
» Public Water Systems
» Assessment
» Potential Contaminants
» Susceptibility
» Prevention

Contact Us

» Email
» Mailing Address
» Source Water Protection Workshop

EPA Source Water Protection website

Source Water Assessment & Protection Program

Results for: 2019

OAK HAVEN QUADRUPLEXES
4224 NW 21ST AVE
OCALA, FL 34475

Public Water System ID: 3424106
County: MARION
DEP Regulatory Office: DEP Central District
3319 Maguire Blvd, Suite 232
Orlando, FL 32803
407-897-4100
Public Water System Type : COMMUNITY
Public Water System Source : GROUND
Primary Use: SUBDIVISION
Population Served: 103
Size of Assessment Area:
GROUND: For this system, a 1000-foot radius circle around each well was used to define the assessment area.

Number of Wells: 1

Well ID	Owner ID	FLUWID	Status	Well Depth(ft)	Aquifer
5816	6"/285'/147'	AAE0269	ACTIVE	285	Floridan Aquifer

Results:

GROUND WATER:
A search of the data sources indicated no potential sources of contamination.

Last updated: February 19, 2020

Accessibility Information

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Privacy Statement

3900 Commonwealth Boulevard M.S. 49
Tallahassee, Florida 32399
850-245-2118 (phone) /
850-245-2128 (fax)

APPENDIX B: TANK INSPECTION REPORT

INSPECTION AND TESTING of HYDROPNEUMATIC TANK

Oak Haven Subdivision Tank

Pursuant to Chapter 62-555.350 (1) & (2) F.A.C

Water System:	Oak Haven Subdivision
Street Address:	Corner NW 42nd Street & NW 22nd Avenue
City, State:	Belleview, Florida
Phone:	352-347-8228
Contact:	Dewaine Christmas
E-mail:	sunshineutl@aol.com
PWS ID No.:	3424106
County:	Marion
Classification:	Community
Source:	Ground
Ownership:	Sunshine Utilities of North Central Florida
Date:	December 6, 2018

Inspection and Testing by:

Robert M. Couch III, P.E.
ENVIRO-TECH, Inc.
PO Box 152
Weirsdale, FL 32195
Telephone: 352-694-1799
E-mail: envirotech@ymail.com

ROBERT M. COUCH III
LICENSE
No. 55311
STATE OF FLORIDA
PROFESSIONAL ENGINEER

C.O.A. No. 8692 Registration No. 55311

Robert M. Couch III, P.E.

Digitally signed by Robert M. Couch III, P.E.
DN: cn=Robert M. Couch III, P.E., o=ENVIRO-TECH, Inc., ou=Reg. No. 55311, email=envirotech@ymail.com, c=US
Date: 2019.01.05 23:21:16 -05'00'

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1.0 EXECUTIVE SUMMARY

ENVIRO-TECH, Inc. was contracted to perform the five year tank condition inspection on the above mentioned hydro-pneumatic tank.

This condition inspection was performed on December 6, 2018 by Robert M. Couch III, P.E. on the above referenced water tank. The tank was drained and, an internal and external inspection was performed to assess the tank condition as required by the Florida Department of Environmental Protection (FDEP) Rule 62-555.

The tank shell and heads appeared to be in overall good structural condition. Ultrasonic Thickness Measurement (UTM) readings indicated that the average thickness of the tank shell at the time of the field inspection was approximately 6.35 millimeters. UTM readings from the tank heads indicated an average thickness of 7.76 millimeters. The exterior coating of the tank appeared to be in overall good condition with no notable surface corrosion. The interior coating of the tank appeared to be in fair condition with only slight surface corrosion beginning to form along portions of the tank ridge where the coating was beginning to fail.

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 65 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 61 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

2.0 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS CHAPTER 62-555.350 (1) & (2)

2.1 Operation and Maintenance of Public Water Systems

(1) Suppliers of water shall operate and maintain their public water systems so as to comply with applicable standards in Chapter 62-550, F.A.C., and requirements in this chapter.

(2) Suppliers of water shall keep all necessary public water system components in operation and shall maintain such components in good operating condition so the components function as intended. Preventive maintenance on electrical or mechanical equipment – including exercising of auxiliary power sources, checking the calibration of finished-drinking-water meters at treatment plants, testing of air or pressure relief valves for hydropneumatic tanks, and exercising of isolation valves –shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water; however, in no case shall auxiliary power sources be run under load less frequently than monthly. Accumulated sludge and biogrowths shall be cleaned routinely (i.e., at least annually) from all treatment facilities that are in contact with raw, partially treated, or finished drinking water and that are not specifically designed to collect sludge or support a biogrowth; and blistering, chipped, or cracked coatings and linings on treatment or storage facilities in contact with raw, partially treated, or finished drinking water shall be rehabilitated or repaired. **Finished-drinking-water storage tanks, including conventional hydropneumatic tanks with an access manhole but excluding bladder- or diaphragm-type hydropneumatic tanks without an access manhole, shall be checked at least annually to ensure that hatches are closed and screens are in place; shall be cleaned at least once every five years to remove biogrowths, calcium or iron/manganese deposits, and sludge from inside the tanks; and shall be inspected for structural and coating integrity at least once every five years by personnel under the responsible charge of a professional engineer licensed in Florida.** Dead-end water mains conveying finished drinking water shall be flushed quarterly or in accordance with a written flushing program established by the supplier of water; additionally, dead-end or other water mains conveying finished water shall be flushed as necessary whenever legitimate water quality complaints are received.

2.2 Location of Inspection and Testing Report

Pursuant to Chapter 62-555.350 (2) and 62-555.350 (12) FAC, beginning 28 August 2003, all water systems regardless of size must maintain a copy up-to-date Preventive Maintenance Logs of each water system in the water facility office. The Preventive Maintenance Logs must show the date and type of all maintenance performed and comply with Rule 62-555.350 (2) and 62-555.350 (12), which requires the following:

- Preventive Maintenance Logs on Electrical and Mechanical Equipment
- Cleaning and Inspection Logs of Treatment Facilities and Storage Tanks
- Records of Coatings and Linings Rehabilitation or Repair
- Licensed Engineer Inspection Report (once every 5-years) for Finished-Drinking-Water Storage Tanks and Hydropneumatic Tanks
- Written Flushing Program and Logs showing that Dead-End Water Mains are being flushed at least quarterly
- Isolation Valves Exercise Logs

A copy of this report should be kept with these records.

3.0 HYDROPNEUMATIC PRESSURE TANK INSPECTION AND TEST PROCEDURES

This Inspection and Test Procedures is used as a reference in the overall inspection and testing of this Water System. This procedure is to be updated from time to time to reflect physical and procedural changes to the water system.

Inspection and testing of this tank was conducted by Robert M. Couch III, P.E. with the assistance of Jim Hodges Jr. of Sunshine Utilities of North Central Florida, Inc. The following inspection and testing procedures for hydropneumatic pressure tanks were used:

3.1 Pre-Test Procedures

1. If water service is to be interrupted customers must be notified in advance and if appropriate, boil water notices issued.

2. Turn-off all electrical power to well pumps, air motors, chlorination equipment, etc.

3. Open drain valve to empty tank. This is also a good time to check the valves (exercise them) that isolate the tank to see if they are in fact working as they should. This downtime can also be used to replace a valve if needed.

4. Once depressurized, the site glass is inspected for proper operation.

5. Once the tank is drained, the manway (hatch) will need to be removed for inspection of the interior.

3.2 Visual Inspection

6. Perform visual inspection of the tank exterior and accessories for presence of leaks, shell distortion, signs of settling, deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, accessories, etc.

7. Tank layout and physical measurements

8. Color photographs of the tank exterior and all of the essential appurtenances

9. Perform visual inspection of the tank interior for presence of deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, bio-growths, calcium or iron/manganese deposits, sludge, etc.

3.3 Nondestructive Examination

10. The tank interior coating is then examined for dry film thickness (See PosiTest® DFT Coating Thickness Gauge measurement) or equivalent.

11. The tank exterior is then examined for thickness measurements (See Smart Sensor AR 850+ Ultrasonic Thickness Gauge measurement).

12. If deemed necessary, the tank exterior (or interior) is then examined for porosity, pinholes and leaks (See PCWI porosity detection test, also known as holiday detector test).

3.4 Post-Test Procedures

13. Any coating problems detected should be corrected while the tank is out of service in order to avoid further extensive downtime.

14. Once the tank is inspected and all maintenance items are taken care of, the tank will need to be disinfected prior to placing back in use.

15. Once the tank has been disinfected, bacteriological tests must be performed on water samples (2 per FDEP) taken from the tank discharge. FDEP to clear for service prior to placing back in service.

3.5 Safety of Test Area

The test area should be restricted and barricaded. The porosity testing instrument output can be up to 20,000 volts. Testing should be carried out well clear of personnel not involved in the testing procedure. Should accidental contact be made with the test electrode, the recipient will receive a mild shock. This equipment should never be used by a person with a pacemaker.

4.0 TEST EQUIPMENT DESCRIPTIONS

4.1 AR 850+ Ultrasonic Thickness Gauge



The Smart Sensor AR 850+ Digital Ultrasonic Thickness Gauge is an economical, user-friendly, menu driven, and multi-functional unit offering extensive features from basic measurements to extended memory. This dynamic series of UT gauges is designed to measure the thickness of metallic and non-metallic materials such as steel, aluminum, titanium, plastics, ceramics, glass and any other good ultrasonic wave conductor as long as it has parallel top and bottom surfaces. The AR 850+ gauges will accurately display readings in millimeters after a simple calibration to a known Thickness or sound velocity.

4.1.1 Features

- Main Unit
- Transducer 5 MHz / 2.5 MHz
- Integrated steel calibration plate 4.0mm
- Batteries (2 x AAA)
- Ultrasonic Couplant
- Operation Manual
- Certificate
- Carrying Case
- One Year Warranty

4.1.2 Technical Specification

Display Type	4-digit LCD
Display Resolution	(<100 mm) 0.1 mm
Units	Metric
Measuring Range (steel)	1.2 to 220.0 mm
Sound Velocity Range	1000 to 9999 m/s
Operating Temperature	0 ° C +45° C
Frequency	5 MHz
Power Source	3 X 1.5V AAA batteries
Dimensions	70x145.5x28 mm

4.2 Compact DC Inspector Porosity Detector



Porosity detection of Tanks, Valves, Pumps, Pipeline field joints, and general inspection and maintenance. Suitable for a broad range of testing and inspection requirements. It is recommended that the integral probe be limited to a 125mm flat brush or fan brush.

4.2.1 Standards

ASTM G62-87(1998), ASTM D4787-93(1999), NACE RP0274-98, NACE RP0490-2001, NACE RPO188- 99, JIS G-3491, JIS G-3492, ANSI/AWWA C214-89, ANSI/AWWA C213-94 and ISO 2746:1998

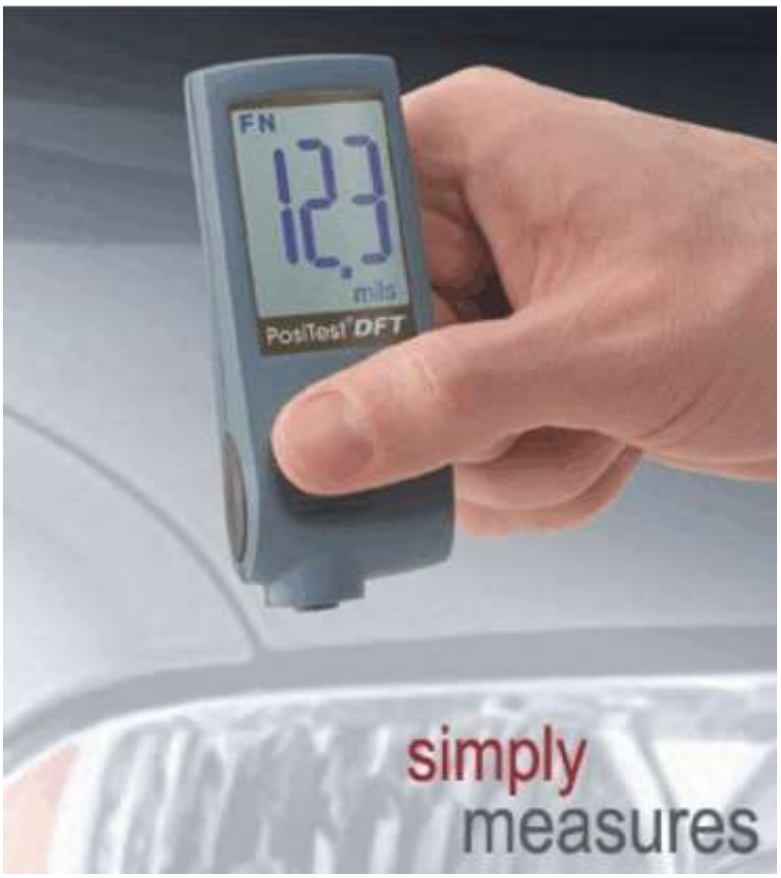
4.2.2 Features

- LED bar graph display of voltage
- "Single" hand-held, lightweight unit for simplicity and ease of operation
- Audible and visual alarms
- LED battery condition indicator
- Integral probe
- Detector
- 7m Earth lead and clamp
- Flat 125mm wide brass wire brush (or optional fan brush)
- Carry Case
- Operating instructions with conformance certificate
- Variable output up to 10kV or Variable output up to 20kV

4.2.3 Technical Specifications

Test Voltage	to 10kV (using 9V Battery)
Output Test Current	up to 100µA
Operating Temperature	-20 to +50ºC
Power Supply	Battery (9V internal)
Unit Dimensions	210 x 75 x 35mm (excl brush) 8.25" x 3.1" x 1.5"
Unit Weight	460g (incl probe)
Shipping Weight	1.5Kg

4.3 PosiTest DFT Coating Thickness Gauge



The new PosiTest DFT Coating Thickness Gauge measures coatings on ALL metals. It is the economical choice that retains the uncompromising quality of Qualitest inspection instruments.

Available in two models:

- PosiTest DFT Ferrous - measures non-magnetic coatings on steel.
- PosiTest DFT Combo - measures both non-magnetic coatings on steel and non-conductive coatings on aluminum, brass, etc. Automatically recognizes the substrate and takes a measurement.

4.3.1 Standards

ASTM B244/B499/B659/D1186/D1400/E376/G12, BS3900-C5, SSPC-PA2, ISO 2178/2360/2808, prEN ISO 19840, and others. Certificate of Calibration traceable to NIST available.

4.3.2 Features

- Fast, repeatable measurements
- No calibration required for most applications
- ZERO feature for rough or curved surfaces
- Handy RESET feature when no zero reference is available
- Strong, wear resistant, ruby-tipped probe
- Audible and visible measurement indication
- V-groove in probe for positioning on cylindrical parts
- Mils/Microns switchable
- Basic instructions on the back of each gauge

4.3.3 Technical Specifications

Measurement Range	0-40 mils (-1000 µm)
Accuracy	±(0.1 mils + 3%) (±(2µm + 3%))
Size	4 x 1.5 x 0.9 in (100 x38 x 23 mm)
Weight	2.5 oz (70 g)



5.0 HYDROPNEUMATIC PRESSURE TANK DESCRIPTION

The hydropneumatic pressure tank inspected and tested is described as follows:

Length: 23'-2" (25'-2" including elliptical heads)
Diameter: 6'-0" outside diameter
Volume: 5,000 gallons with elliptical heads
Tank Age: Approximately 10 years
Operating Pressure: 60 psi

6.0 TESTING

6.1 Porosity Testing

The tank surface was not swept with the Compact DC Inspector Porosity Detector during this inspection as no evidence of pin holes was observed throughout the surface of the tank.

6.2 Interior Coating Testing

No dry film thickness readings were taken within the tank interior as the coating had begun to fail along the tank ridge.

6.3 Ultrasonic Metal Thickness Testing

A total of 69 metal thickness readings were taken at various locations on the tank shell and head surface. The average shell reading was 6.35 millimeters in the cylindrical section and 7.76 millimeters in the elliptical heads. Typical industry standard minimum wall thickness for tanks of this size is 1/4" (6.35 mm).

7.0 VISUAL OBSERVATIONS

7.1 Tank Exterior

The exterior of the tank appeared to be in good structural condition. No lichens were growing on the tank exterior at the time of the inspection.

7.2 Tank Interior

The tank interior appeared to be in fair condition. There was only slight surface corrosion noted along the tank ridge.

8.0 DEFINITIONS

Design Pressure - The maximum design pressure determined from the metal thickness.

Maximum allowable working pressure (MAWP) – Maximum pressure that the pressure tank is capable of safely holding at a design maximum temperature (250ºF).

Operating Pressure - The normal maximum operating pressure of the pressure tank. The normal operating pressure must always be below the MAWP. As a rule of thumb the maximum operating pressure should always be less than the MAWP.

Metal Thickness – The thickness of the pressure tank wall (not including a corrosion allowance) to be used in the pressure calculations.

Design Safety Factor on Metal Tensile Strength – A pressure tank is normally designed with a safety factor of 3 to 4 on the metal tensile strength. All pressure tanks are designed to operate with wall stresses below the yield point of the metal used for fabrication.

9.0 TANK PRESSURE CALCULATIONS

The following formula is found in ASME Section I for determination of MAWP:

For tanks with circumferential stress on (longitudinal joints)

P = SEt/(R+0.6t)
= 60 MPa x 1.0 x 6.35 mm / (908 mm+0.6 x 6.35 mm)
= 0.400 MPa
= 61 psi

When:

t < 0.5R = 0.5 x 908 = 453.83 mm (true) or
P < 0.385SE = 0.385 x 60 x 1.0 = 23.1 MPa (true)

Where:

t = metal thickness (mm) where t = 6.35 mm
R = inside radius of shell course under consideration (mm) = 908 mm
E = joint efficiency for cylindrical or spherical shells = 1.0 for welded tanks and corresponds to a safety factor of 3.5 in the parent metal.
P = maximum allowable working pressure (MPa) where 0.400 MPa = 61 psi
S = maximum allowable stress value at the operating temperature of the metal = 60 MPa (Safety Factor of 4).

10.0 CONCLUSIONS

Inspection and testing of the Oak Haven subdivision 5,000-gallon hydropneumatic pressure tank was performed on December 6, 2018. In addition to a visual examination, non-destructive examinations were also made. Non-destructive examinations included ultrasonic measurement of the tank wall thickness and visual inspection for pinholes and leaks. No examination of Dry Film Thickness Measurement (DFTM) of the interior coating was performed as the coating had already begun to fail.

Observations of the tank exterior indicated tank is subject to normal exposure. Observations of tank interior revealed light surface corrosion along the upper ridge portions of the tank interior.

11.0 RECOMMENDATIONS

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

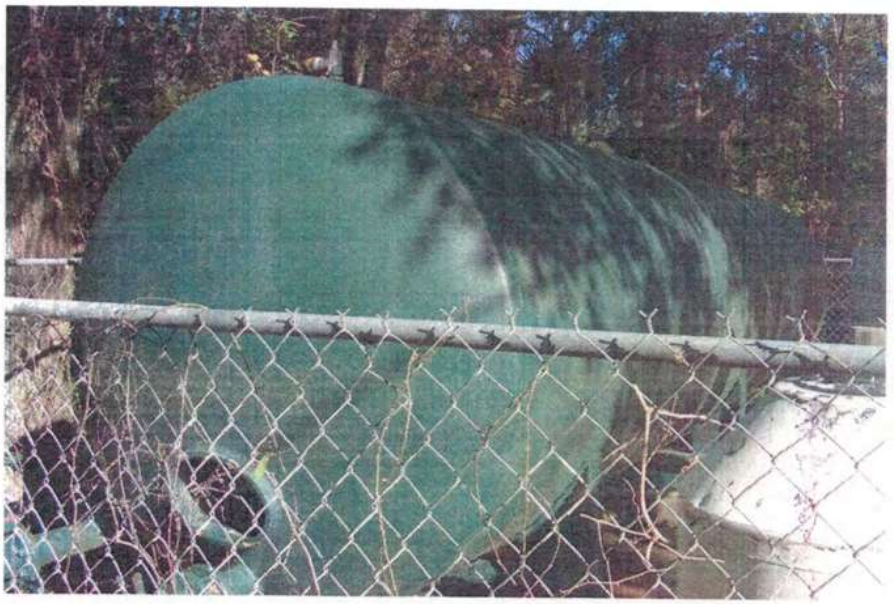
- The pressure relief valves should be tested regularly and maintained at 65 PSI or lower.
- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.
- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 61 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

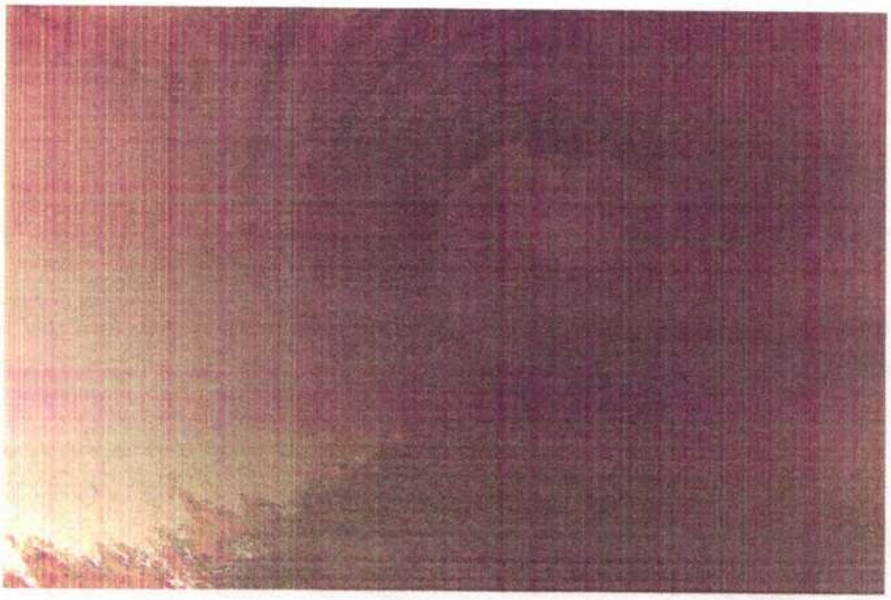
Signed: Robert M. Couch III Date: 1/5/2019

Robert M. Couch III, P.E. Registration No. 55311

Exterior and interior views of tank







APPENDIX C: EMERGENCY RESPONSE PLAN

Disaster-Specific Preparedness/Response Plan

for Public Drinking Water Systems

Per Chapter 62-555.350 (15) F.A.C.

Sunshine Utilities

OAK HAVEN

Address:	10230 East Hwy. 25 Belleview, FL 34420
Phone:	352-347-8228
Fax:	352-347-6915
Contact:	Dewaine Christmas, Manager
E-mail:	SunshineUtl@AOL.COM
Connections:	71
PWS:	3424106
County:	Marion

May 17, 2013

Department of Environmental Protection
Michael D. LeRoy, P.E.
John R. Sowerby, P.E.

FRWA Security Staff
Sterling L. Carroll, P.E.
Ken Klos, P.E.
Coy Donaldson

For more information or additional copies of this document contact:

FLORIDA RURAL WATER ASSOCIATION
2970 Wellington Circle ~ Suite 101 ~ Tallahassee
Telephone: 850-668-2746 ~ Fax: 850-893-4581
e-mail: FRWA@frwa.net

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This template and guide has been developed by the Florida Rural Water Association (FRWA) in collaboration with the Washington State Department of Health, Office of Drinking Water, Olympia, Washington; and reviewed by Florida Department of Environmental Protection.

Acknowledgment of federal government support of this project:

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Preface
Chapter 62-555.350 (15) FAC

Disaster-Specific Preparedness/Response Plans

(15) Suppliers of water who own or operate a community water system serving, or designed to serve, 350 or more persons or 150 or more service connections shall develop a written emergency preparedness/response plan in accordance with Emergency Planning for Water Utilities, AWWA Manual M19, as adopted in Rule 62-555.335, F.A.C., by no later than December 31, 2004, and shall update and implement the plan as necessary thereafter. Said suppliers of water shall coordinate with their Local Emergency Planning Committee and their Florida Department of Law Enforcement Regional Security Task Force when developing their emergency plan and shall include in their plan all of the information in paragraphs (a) through (e) below.

(a) A Communication Charts as described in Chapter 5 of AWWA Manual M19.

(b) Written agreements with other agencies, utilities, or response organizations.

(c) A disaster-specific preparedness/response plan as described in Chapter 5 of AWWA Manual M19 for each of the following disasters: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release. Each disaster-specific preparedness/response plan shall incorporate the results of a vulnerability assessment; shall include actions and procedures, and identify equipment, that can obviate or lessen the impact of such a disaster; and shall include plans and procedures that can be implemented, and identify equipment that can be utilized, in the event of such a disaster.

(d) Details about how the water system meets the standby power requirements under subsection 62-555.320(14), F.A.C., and, if applicable, recommendations regarding the amount of fuel to maintain on site, and the amount of fuel to hold in reserve under contracts with fuel suppliers, for operation of auxiliary power sources.

(e) If applicable, recommendations regarding the amount of drinking water treatment chemicals, including chemicals used for regeneration of ion-exchange resins or for onsite generation of disinfectants, to maintain in inventory at treatment plants.

Specific Authority 403.861(9) FS. Law Implemented 403.852(12), 403.853(6), 403.861(17) FS. History-New 11-19-87, Formerly 17-22.650, Amended 1-18-89, 1-1-93, Formerly 17-555.350, Amended 8-28-03.

Time Extension for Submitting/Completing ERP – December 31, 2005

From: Hoofnagle, Van
Sent: Thursday, October 21, 2004 11:25 AM
Subject: Time Extension for Submitting/Completing ERP
Importance: High

I am sending this e-mail because of possible confusion in some FDEP District Offices or ACHDs regarding the deadline for compliance with the emergency preparedness/response plan requirements in FAC subsection 62-555.350(15).

As John Sowerby and other staff mentioned during Focus On Change presentations early this year on FAC Rule 62-555.350 and during training this summer on the recent amendments to FAC Chapter 62-555, the FDEP intends to amend FAC subsection 62-555.350(15) to give all affected community water systems (i.e., all community water systems serving 350 or more persons or 150 or more service connections) **until the end of 2005** instead of the end of this year to complete a comprehensive emergency preparedness / response plan as required by FAC subsection 62-555.350(15). At this point, it will likely be after the end of this year before we officially make this change to FAC subsection 62-555.350(15). In the meantime, please do not take any enforcement action against

community water systems who fail to meet the 12/31/04 deadline in FAC subsection 62-555.350(15). Thanks.

Van Hoofnagle
DEP Drinking Water Administrator

Section 1
Communication Charts

The first response step in any emergency is to inform the person at the top of this list, who is responsible for managing the emergency and making key decisions. List the water system chain of command in order of contact.

Water System Chain of Command – Lines of Authority

Order	Name & Title	Responsibilities During an Emergency	Contact Information
1	Dewaine Christmas Manager	Responsible for overall management and decision making. The manager is the lead for managing the emergency and providing information to regulatory agencies. All communications to external parties are to be approved by the manager.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl@AOL.Com
2	James Hodges Jr. Field Supervisor	Responsible for decision making in the field. In charge of overall maintenance, and repairs to all components of water system.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl @AOL.Com
3	Kelvin Edun Water Treatment Plant Operator	Responsible for running water treatment plant, performing inspections, maintenance, sampling and relaying all critical information to Field Supervisor.	Phone: Cell: 352-875-5141 Email:
4	Pamela Christmas Office	Responsible for assisting the manager in administrative duties and emergencies.	Phone: 352-347-8228 Cell: 352-245-4743 Email:
5			Phone: Cell: Email:
6			Phone: Cell: Email:
7			Phone: Cell: Email:

Emergency Notification

Notification call-up lists - Use these lists to notify important parties of an emergency.

Emergency Notification List

Organization or Department	Name & Position	Telephone	Cell Phone	e-mail
State Warning Point	**Duty Officer**	**800-320-0519**	800-320-0519	N/A
Local Law Enforcement	EOC Commander	352-622-3205		Pstefanski@sheriff.marioncountyfl.org
Fire Department		911		
Emergency Medical Services		911		
Water Operator (if contractor)	Kelvin Edun Operator	352-875-5141		
County Health Department	Tom Moore Director of Environmental Health	352-622-7744	352-266-7486	
DEP District Office	Manny Cardona	407-897-4134	Fax 407-893-4418	
County Emergency Management Dept.	Chip Wildy	352-622-3205		
Local Leader (City Mgr., Mayor, Chair. Co. Comm., etc.)				
Local Hazmat Team (if any)		911		
Hazmat Hotline		911		
National Spill Response Center.	Duty Officer	800-424-8802	800-424-8802	N/A
Interconnected Water System(s)				
Neighboring Water System (not connected)				
FRWA Water Circuit Rider	Tom Gustafson	850-668-2746	352-267-1302	

Priority Customers

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Hospital Or Clinic(s)				
Nursing Home(s)				
Public Schools				
Private Schools				
Wastewater Treatment Plant				
Food Processing Or Other Industry				

Service / Repair Notifications

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Electric Utility Co.	City of Ocala	352-651-6666		
Electrician	Melville Electric	352-245-0600		
Gas / Propane Supplier	Belleview Gas	352-245-6055		
Water Testing Lab.	Aqua Pure Lisa Saupp	352-625-2822		
Sewer Utility Co.				
Telephone Co.	Sprint	800-788-3600	611	
Plumber	ACP	352-427-7036		
Pump Supplier	Coast Pump	352-620-0616	352-266-4277	Coastpumpocal@hotmail.com
"Dig Safe" or "One Call"	Sunshine One Call	800-432-4770		
Rental Equip. Supplier	B&M Rental	352-245-3133	352-245-9800	

Service / Repair Notifications				
Organization Or Department	**Name & Position**	**Telephone**	**Cell Phone**	**email**
Chlorine Supplier	Custom Controls	352-622-9244	352-304-0572	
Other Chemical Suppliers				
Radio/SCADA Repair Co.				
Bottled Water Service				
Bulk Water Supplier				
Well Drilling Co.	Earls Well Drilling David Moffitt	352-245-2324	352-817-0502	
Pipe Supplier	National Water Works Roy Sands	352-351-8144	352-266-4705	

Designated Public Spokesperson and Alternates

Designate a spokesperson (alternates) for delivering messages to the news media & public

Public Spokesperson	Name & Position	Telephone	Cell Phone
Spokesperson	Dewaine Christmas Manager	352-347-8228	352-239-1198
Alternate 1	James Hodges Jr. Supervisor	352-347-8228	352-239-1197
Alternate 2			

Key Messages

Develop possible messages in advance, and update them as the emergency develops
▪ We are aware of the emergency and are working diligently to restore your water service.
▪ If you fall under a boil water notice you must bring water to a rolling boil for a period of at least one minute. You only have to boil water for human cunsumption.

▪

Health Advisories – Boil Water Notices

Use the assistance of your County Health Department and/or District FDEP office, and FDEP's Mandatory Health Effects Language, located on FDEP's website at:

http://www.doh.state.fl.us/environment/water/manual/boil.htm

http://www.DEP.state.fl.us/water/drinkingwater/rules.htm,

and click on "Mandatory Health Effects Language"., PLUS EPA's templates at:

http://epa.gov/safewater/pn.html

Click on "Microsoft Word and Word Perfect files of PN templates" (PN means Public Notifications), then determine which "Tier" of notifications is needed and click on the desired software to receive them in.

Section 2
Written Agreements With Other Agencies, Utilities, or Response Organizations

INSERT BELOW information regarding any written agreements with other agencies, utilities, or response organizations, such as emergency interconnects, mutual aid or FlaWARN.

Emergency Interconnect(s)

Information on the location of interconnection(s) (if any), type and size of interconnecting pipe, pumps and accessory equipment, meters at interconnection(s), normal pressures at both ends of interconnection, volume of water from interconnection(s), type of agreement and approvals needed for use, procedures necessary to use interconnection, etc.

Location (Street)	
Location (GPS)	
Description	

Memoranda of Understanding

Organization	
Summary of Understanding	

Mutual Aid Agreements

Organization	Marion Utilities, 352-622-1171
Summary of Understanding	Will render mutual aide – ie: pumps, generators, and other materials necessary to restore water service.

FlaWARN

Organization	
Summary of Understanding	

Section 3
Disaster-Specific Preparedness/Response Plan

Your disaster-specific preparedness/response plan must include a Vulnerability Assessment and preparedness / response plans for: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release.

In any event there are a series of general steps to take:

1. Confirm and analyze the type and severity of the emergency.
2. Take immediate actions to save lives.
3. Take action to reduce injuries and system damage.
4. Make repairs based on priority demand.
5. Return the system to normal operation.

Vulnerability Assessment

It is essential that water systems identify and assess the vulnerability of each system component for both natural and human-caused emergencies, before preparing their disaster-specific preparedness/response plans. Prepare your Vulnerability Assessment by completing the table below:

Facility Vulnerability Assessment

System component	Description and condition	Vulnerability	Security improvements (indicate existing or proposed)
Raw Water Sources	(1) 6" groundwater wells located several hundred feet from homes. Wells are in good condition. We have wellhead protection in place.	The well is most vulnerable to above ground activities because it is only 285 FT deep.	1.Purchase land surrounding well. 2. Secure well house to foundation and install lighting around well house.
Pump-house and pumping facilities	The pump-house and pumping facility are in good condition.	Pump location is fully fenced with a locked gate.	Install tamper proof padlocks.
Treatment Facilities	There is a hypo-chlorination system inside of pump house. System is in good condition.	Chlorination systems are not subject to power outages.	There is a backup generator on site in compliance with CH. 62-555.320(14)FAC
Storage Facilities	Hydro pneumatic tank is fenced in good condition.	Tank is not in a lighted area.	Install lighting in area of tank.
Computer and telemetry systems	Computers are in utilities main office and are in good condition.	Computers should be better protected against cyber attack or hacking.	Secure computers with firewalls & virus protection.

A. Vandalism or Sabotage Response Procedures

1. Utility staff first aware of incident:
    a) Calls 9-1-1/ Local Law Enforcement.
    b) Calls Manager
2. Manager determines severity of incident.
    a) Field supervisor determines if vandalism or sabotage will effect the water quality.
    b) Manager reports incident to the state warning point.
3. Field supervisor directs repairs as needed.
    a) Complete repairs
    b) Update ERP as needed.

B. Drought Response Procedures

Include water use restrictions per Consumptive Use Permit

1. Manager coordinates with the local Water Management District (WMD) regarding drought conditions.
    a) If drought conditions exist, a water conservation plan will be initiated.
    b) Literature will be distributed to customers regarding the drought.
    c) Conservation material will be distributed to customers on conservation measures.
    d) Customers not abiding by restrictions will be reported to WMD.
    e) Manager updates ERP as needed.

C. Hurricane Preparedness & Response Procedures

Pre- Hurricane **(36 to 48 hrs prior to arrival)**	1. Manager coordinates with local EOC. 2. Field supervisor checks operation of standby power. 3. Field supervisor secures fuel and treatment chemicals for a 10 day period. 4. Manager replenishes inventory of spare parts.
Hurricane Watch **(24 to 36 hrs prior to arrival)**	1. Manager cancels all time off for employees. 2. Manager issues work assignments in advance in case of communication loss. 3. Employees all top off fuel in vehicles & standby generators. 4. Manager authorizes employees to secure their personal property and arrange for the safety of family members.
Hurricane Warning (24hrs or less prior to arrival)	1. Employees report to designated areas and wait for instructions. 2. Employees load truck with supplies. 3. Employees follow evacuation protocol.
Recovery Procedures	1. Manager coordinates with local EOC. 2. Manager issues boil water notices if needed. 3. Field supervisor coordinates repairs. 4. Manager makes contact with the appropriate DEP office. 5. After repairs are completed samples are taken. 6. When samples come back clear – boil water notice is lifted. 7. Manager files all malfunction reports with the DEP. 8. Field supervisor inspects all systems to make sure everything is running smooth.

D. Structure Fire Response Procedures

1. Utility staff discovering fire:
    a) Evacuate structure on fire.
    b) Call 9-1-1
2. Manager determines severity of incident.
    a) Manager contact State Warning Point.
    b) Field supervisor coordinates repairs when fire is extinguished.
3. Field supervisor reports to manager when repairs are complete.
    a) Manager reports completion of all repairs to any Gov. agency.
    b) Manager updates ERP as needed.

E. Flood Preparedness & Response Procedures

(Is any critical part of your system in a flood prone area?)

None of our systems are in a flood prone area.

F. Forest or Brush Fire Response Procedures

(Is any critical part of your system subject to forest or brush fires?)

1. Utility staff discovering fire.
    a) Orders evacuation of any threatened buildings.
    b) Calls 9-1-1 to report fire.
2. Manager determines the severity of fire.
    a) Manager contacts the State Warning Point.
    b) Field supervisor inspects for any damage and coordinates repairs after fire is extinguished.
3. Field supervisor reports to manager that all repairs are complete.
    a) Manager updates the ERP as needed.
    b)

G. Hazardous Material Release Response Procedures

Do you have any hazardous material (chlorine gas) at your water system?

We have no Hazardous materials at any of our water systems.

H. Other Disaster Response Procedures

Are there other disasters that you want to prepare for, such as a Contamination event, SCADA Attack, or Structural Damage from an Intentional Act?

Contamination

1.
   a)
   b)
2.
   a)
   b)

SCADA Attack

1.
   a)
   b)
2.
   a)
   b)

Structural Damage from an Intentional Act

1.
   a)
   b)
2.
   a)
   b)

Section 4
Standby Power Requirements

Include details about how the water system meets the standby power requirements as described in Ch. 62-555.320(14), and 62-555.350(15)(d) FAC for water source, treatment, and pumping facilities necessary to deliver drinking water at a rate at least equal to the Average Daily Water Demand.

Standby Power for Wells or Surface Water Intakes

Standby Power (or by alternate means) to OPERATE WELLS at Average Daily Demand

Average Daily Demand (ADD) in gpd or gpm	40858 gpd
Wells Needed to Supply Average Daily Demand	1
Standby Generator (kW) Needed for ADD &	25 KW
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	We will have reserve fuel in the case of an emergency.

Standby Power for Treatment Facilities

Standby Power (or by alternate means) to TREAT WATER at Average Daily Demand

Treatment Units Needed to Supply ADD	
Standby Generator (kW) Needed to Treat ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Standby Power for Pumps

Standby Power (or by alternate means) to PUMP WATER at Average Daily Demand

Pumps Needed to Supply ADD	
Standby Generator (kW) Needed to Pump ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Section 5
Drinking Water Treatment Chemicals & Disinfectants

Include recommendations regarding the amount of drinking water treatment chemicals, to maintain in inventory at treatment plants. Do not just list chemical storage capacity, but instead recommend the minimum amount of chemicals to maintain in inventory, which depends upon the location and reliability of chemical suppliers, the status of impending disasters, etc.

Disinfection Treatment Information

Disinfection Chemical(s)	Chemical / Location No. 1	Chemical / Location No. 2
Type of Chemical	Chlorine	
Type of Chemical Feed	Hypo-Chlorinator	
Chemical Storage Location	On site in the pump house.	
Recommended Minimum Amount to be Maintained in Storage (gal)	55 gallons	

Other Chemical Information

Chemical(s) Used	Chemical #1	Chemical #2	Chemical #3	Chemical #4
Type of Chemical				
Type of Chemical Feed				
System Location				
Chemical Storage Location				
Recommended Minimum Amount to be Maintained in Storage (gal)				

Appendix A
Basic System information

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Keep this basic information readily available for when you need it for emergency responders, repair people, the news media and potentially, an emergency operator.

Basic System Information

GPS coordinates will help emergency crews find your system following a major catastrophe.

System identification number (PWS ID)	**3424106**	
System name and address	**OAKHAVEN**	
GPS Coordinates	Latitude:	Longitude:
Basic description and location of system facilities	**4224 NW 21st AVE**	
Population served and service connections.	Population =	Connections = 71
System Owner	**Sunshine Utilities of Central Florida, Inc.**	
Management Authority	**Owner and Manager**	
Name, title, and phone numbers of person responsible for maintaining and implementing the ERP.	**Dewaine Christmas** **Manager**	**352-347-8228 phone** **352-239-1198 cell**

System Demand

Demand based on Monthly Operational Records and system capacity based on Sanitary Survey.

Average Daily Demand (gpd)	40858 GPD
Maximum Daily Demand (gpd)	53500GPD
System Capacity (gpd)	288000 GPD
Peak Hour Demand (gpm)	N/A

Location of Pertinent Information

Item	Location
Distribution System Map	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
O&M Manual(s)	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
Start-Up / Shut-Down Procedures	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.

Well Information

GPS coordinates will help emergency crews find wells following a major catastrophe.

Well Information	Well No. 1	Well No. 2	Well No. 3	Well No. 4
GPS well tag #				
Location (street)	NW 42nd St			
GPS Coordinates	Lat: Long:		Lat: Long:	Lat: Long:
Well Depth (ft)	285 FT			
Well Yield (gpd)	129600 GPD			
Pump Type	Submersible			
Manufacturer	Sta-Rite			
Capacity (gpm)	90 GPM			
Motor Manufacturer	Franklin			
Horsepower	7.5 HP			
Phase	1			
Volts/Amps	230 volts			

Surface Water Sources

GPS coordinates will help emergency crews find surface water intakes following a major catastrophe.

Surface Water Information	Intake No. 1	Intake No. 2
Location (Street / Description)		
GPS Coordinates	Lat: Long:	Lat: Long:
Critical Water Level		

Finished Water Storage

GPS coordinates will help emergency crews find tanks following a major catastrophe.

Name of Storage Unit	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Location (Street)				
Location (GPS)	Lat: Long:	Lat: Long:	Lat: Long:	Lat: Long:
Type (ground, elevated, etc.)				
Capacity (gal)				
Empty Elevation				
Overflow Elevation				

High Service Pumps

HSP	HSP No. 1	HSP No. 2	HSP No. 3	HSP No. 4
Location (street)				
Pump Type				
Manufacturer				
Capacity (gpm)				
Motor Manufacturer				
Horsepower				
Phase				
Volts/Amps				

Other Applicable Information

Appendix B
Training and Rehearsals

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Event	Description	People & Organizations Involved	Date

Appendix C
Plan Approval

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Plan Approval

This plan is officially in effect when reviewed, approved, and signed by the following people:

Name / Title	Signature	Date
Hodges Family Trust		

APPENDIX D: CONSUMER CONFIDENCE REPORT

Certification of Delivery of Consumer Confidence Report

GENERAL INSTRUCTIONS: This form shall be completed by all community water systems (CWSs) that have prepared a Consumer Confidence Report (CCR) in accordance with Rule 62-550.824, F.A.C., Consumer Confidence Reports. At the end of this form is a certification in which a system's authorized representative shall certify that the reported information is accurate and is in conformance with Rule 62-550.824, F.A.C. **COMPLETE THIS FORM AND SUBMIT IT BY AUGUST 10,** together with a copy of your system's CCR, sample email or water bill (with URL notification of CCR, if applicable), and any newspaper notice(s) and posted notice(s) of your CCR, to the appropriate DEP district office or Approved County Health Department (ACHD). Systems serving 100,000 or more persons posting their CCRs on publicly accessible Internet sites shall provide the information on the appropriate Internet link(s). All information provided on this form must be typed or printed in ink.

I. General Water System Information. (To be completed by all community water systems.)

System name: Oak Haven
Contact person: Dewaine Christmas
PWS Identification number (PWS ID): 3424106
Contact phone number: (352)347-8228
Mailing address: 10220 East Hwy 25
City: Belleview
State: Fl Zip: 34420-5531 Population served (not the number of "service connections"): _____

II. CCR Distribution Method. (To be completed by all community water systems. Choose A or B as appropriate.)

☐ A. We mailed, emailed, or otherwise directly delivered a copy of our CCR to each customer on _____ (enter date(s) of mailing or delivery) using the method(s) checked below:

- ☐ a. **Mailed** CCR
- ☐ b. **Mailed** notice (e.g. water bill) with **direct URL** to the CCR
- ☐ c. **Emailed** CCR as an **embedded** image or as an **attachment**
- ☐ d. **Emailed** notice with a **direct URL** to the CCR
- ☐ e. **Otherwise directly delivered** CCR to every customer. Explain: _____

☑ B. We were eligible to use a mailing waiver and used a mailing waiver. (Systems are eligible to use a mailing waiver only if they serve fewer than 10,000 persons, have not had any MCL or monitoring and reporting (M/R) violations, nor have been issued any formal Notices of Violations (NOVs), Consent Orders, Administrative Orders, or court-ordered civil actions during the calendar year before the year the CCR is due to the customers).

Answer a, b, **and** c below.)

- ☐ a. Date of newspaper: _____
- ☐ b. Name of newspaper/newsletter that published our CCR: _____
- ☑ c. A copy of our notice to customers, informing them that our CCR will not be mailed to them, is attached.

This notice was: ☑ mailed with bill; ☐ published in newspaper/newsletter; or ☐ other (describe)

III. Posting of CCR on the Internet. (To be completed by all CWSs serving 100,000 or more persons.)

We posted our CCR on this publicly accessible internet site: _____

IV. Report on Your Effort to Distribute Your CCR to Your Water Consumers.

(To be completed by all CWSs. Check all items that apply - at least one item must be checked.)

In addition to the methods selected in Part II,

■ A. We posted our CCR on this publicly accessible internet site: www.sunshineutilities.org

☐ B. We published our CCR in the local newspaper(s). The name(s) and date(s) of the newspaper(s) are:

_____

RECEIVED
JUL 10 2020
DEP Central District

☐ C. We advertised the availability of our CCR as a press release, radio announcement, or TV announcement.
The type(s) and date(s) of the advertisement(s) are: _____

☐ D. We delivered multiple copies of our CCR to single bill addresses serving several persons.

☐ E. We delivered multiple copies of our CCR to the following community organizations:

_____

☐ F. Our CCR was posted in the following public locations: _____

_____

☒ G. Our CCR was distributed by other methods (e.g., additional copies placed in entrance hall to facility). Describe.
Additional copies available at Sunshine Utilities Office

V. Use of Non-English Language in CCR. (To be completed by all community water systems.)

☐ Information in a non-English language was included in our CCR because 20% or more of our customers do not speak English but speak _____. The method we used to determine the proportion of non-English speaking customers is _____

☒ This requirement does not apply to our system, because we have no non-English speaking group among our customers equal to or exceeding 20% of our total number of customers.

VI. Other Delivery Requirements. (To be completed by all community water systems.)

(A) Was a copy of your CCR sent to your county health department, as required by rule?	☒ Yes	☐ No
(B) Is your system regulated by the Public Service Commission (PSC)?	☐ Yes	☐ No
If Yes, was a copy of your CCR sent to the PSC, as required by rule?	☒ Yes	☐ No

(C) If your system sells water to other systems, have you provided them with either a copy of your CCR or the required consumer confidence information? ☒ Yes ☐ No ☒ Not Applicable

VII. Certification of Delivery of CCR and Compliance with Regulations. (To be completed by all CWSs.)

This statement certifies that the above named community public water system has distributed its CCR for the time period starting ***January 1, 2019, and ending December 31, 2019,*** to its customers on 6/15/20 (mm/dd/yy) and provided the appropriate notices of availability according to the requirements listed in this form, which are also found in Rule 62-550.824, F.A.C. This statement also certifies that the reported information is correct and consistent with the compliance monitoring data for the same period previously submitted to the Department, and that the report has been delivered to the agencies identified in Rules 62-550.824(3)(e)3., and 4., F.A.C.

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____

NAME (please print): Dewaine Christmas

TITLE: Manager DATE: 6/26/20

☒ **A copy of our CCR is attached, and**

☐ **If using electronic delivery, a copy of our sample email or notice (e.g. water bill), with URL leading directly to the CCR and not a general information website, is attached. For example, if you are using the FRWA website to post your CCR, your URL would be:**

www.frwa.net/2012-Your PWSID Number.pdf (www.frwa.net/2012-0000000.pdf).

SUNSHINE UTILITIES
10230 East Highway 25
Belleview, Florida 34420

Drinking Water Quality Report

Annual Drinking Water Quality Report for 2019

Oak Haven

Florida Department of Environmental Protection Public Water System ID # 3424106

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water.

The source of our water is groundwater from one well located in the community. The well draws from the Floridan aquifer, one of the world's most protected sources. Our water is chlorinated for disinfection purposes and an approved sequestering agent is added for corrosion control. In 2019 the Florida Department of Environmental Protection conducted an assessment which identifies potential sources of contamination in the vicinity of our wells. The SWAPP (Source Water Assessment and Protection Program) determined our public water system to have no potential sources of contamination. You may obtain more information at the web site *www.dep.state.fl.us/swapp*.

If you have any questions about this report or concerning your water utility please contact **Dewaine Christmas, at Sunshine Utilities, (352) 347-8228**, during normal business hours. We encourage our valued customers to be informed about their water utility.

Sunshine Utilities routinely monitors for constituents in your drinking water according to Federal and State laws, rules and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2019. Data obtained before January 1, 2019 and presented in this report are from the most recent testing performed in accordance with the laws, rules and regulations.

WATER QUALITY TEST RESULTS FOR OAK HAVEN

Inorganic Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Antimony	(ppb)	JUN '18	No	0.2	N/A	6	6	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic	(ppb)	JUN '18	No	1	N/A	N/A	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	(ppm)	JUL '15	No	0.007	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chromium	(ppb)	JUN '18	No	1.6	N/A	100	100	Discharge from steel and pulp mills; erosion of natural deposits
Fluoride	(ppm)	JUN '18	No	0.26	N/A	4	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum levels between 0.7 and 1.2 ppm
Lead (point of entry)	(ppb)	JUN '18	No	0.6	N/A	N/A	15	Residue from man-made pollution such as auto emissions and paint; lead pipe, casing, and solder
Sodium	(ppm)	JUL '18	No	23	N/A	N/A	160	Salt water intrusion; leaching from soil

Stage 2 Disinfectants and Disinfection By-Products

Disinfectant or Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL or MRDL Violation Yes / No	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine	(ppm)	2019	No	3.3	N/A	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Haloacetic Acids (five) (HAA_5)	(ppb)	AUG '19	No	6.89	N/A	N/A	MCL = 60	By-product of drinking water disinfection
Total trihalomethane (TTHM)	(ppb)	AUG '19	No	10.1	N/A	N/A	MCL = 80	By-product of drinking water disinfection

Lead and Copper (Tap Water)

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	AL Violation Yes / No	90th Percentile Result	No. of Sampling Sites Exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper	(ppm)	JUL '18	No	0.98	1	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

In the table you may find unfamiliar terms and abbreviations. To help you better understand these terms we have provided the following definitions (please note not all definitions may pertain to your report):

- Action Level (AL) – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial growth.
- Maximum Residual Disinfectant Level Goal (MRDLG) – The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.
- ND – This abbreviation means not detected and indicates that the substance was not found by laboratory analysis.
- Parts per million (ppm) or milligrams per Liter (mg/L) - one part of analyte (by weight) to 1 million parts of water sample (by weight).
- Parts per billion (ppb) or micrograms per Liter (µg/L) - one part of analyte (by weight) to 1 billion parts of water sample (by weight).
- Picocurie per liter (pCi/L) - measure of the radioactivity in water.

What does this mean?

As you can see our system had no violations. We're very proud that your drinking water meets all Federal and State requirements.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Sunshine Utilities is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals, and in some cases radioactive material, and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

A.) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

B.) Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

C.) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

D.) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

E.) Radioactive contaminants, which may be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The FDA (Food & Drug Administration) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care providers about their drinking water. EPA/CDC (Center for Disease Control) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are also available from the Safe Drinking Water Hotline (800-426-4791).

We are committed to ensuring the quality of your water. If you have any questions or concerns about the information provided, please feel free to call the numbers listed.

Sunshine Utilities

10230 East Highway 25, Belleview, FL 34420
Office (352)347-8228 – Fax (352)347-6915

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality of water and services we deliver to you everyday. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

Please follow the link to view your 2019 Annual Water Quality Report.

https://www.sunshineutilities.org/ccr19/2019OakHaven.pdf

APPENDIX E: SANITARY SURVEY REPORT

FLORIDA DEPARTMENT OF
Environmental Protection

CENTRAL DISTRICT OFFICE
3319 MAGUIRE BLVD., SUITE 232
ORLANDO, FLORIDA 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

May 14, 2020

Dewaine Christmas, Owner
Sunshine Utilities
4224 NW 21st Ave
Ocala, FL 34475
sunshineutl@aol.com

Re: Oak Haven Quadruplexes
PW Facility ID #3424106
Marion County

Dear Mr. Christmas:

Department personnel conducted an inspection of the above-referenced facility on September 26, 2018. Based on the information provided during and following the inspection on January 8, 2019, the facility was determined to be in compliance with the Department's rules and regulations. A copy of the inspection report is attached for your records, and any non-compliance items which may have been identified at the time of the inspection have been corrected.

The Department appreciates your efforts to maintain this facility in compliance with state and federal rules. Should you have any questions or comments, please contact Miranda Rothenberger at 407-897-4301 or via e-mail at Miranda.rothenberger@floridadep.gov.

Sincerely,

Daniel K. Hall, Environmental Manager
Central District
Florida Department of Environmental Protection

Enclosure: September 26, 2018 Inspection Report

cc: Miranda Rothenberger, FDEP

State of Florida
Department of Environmental Protection
Central District

SANITARY SURVEY REPORT

Plant Name **Oak Haven Quadruplexes** County **Marion** PWS ID # **3424106**
Plant Location 4224 NW 21st Ave., Ocala, FL 34475 Phone 352-347-8228
Owner Name Dewaine Christmas Phone 352-347-8228
Owner Address 10230 SE Hwy 25, Belleview, FL 34420-5531
Contact Person Dewaine Christmas Title Owner Phone 352-347-8228
This Survey Date 09/26/2018 Last Survey Date 08/19/2015 Last Compliance Inspection Date 08/29/2014

PWS TYPE: Community

PLANT CATEGORY & CLASS: 5C

MAX-DAY DESIGN CAPACITY: 288,000 gpd

PWS STATUS: Approved

TREATMENT PROCESSES IN USE
Hypochlorination

SERVICE AREA CHARACTERISTICS
Subdivision
Food Service: ☐ Yes ☐ No ☒ N/A

Number of Service Connections 41
Population Served 103 Basis MORs

OPERATION & MAINTENANCE LOG: Yes
Location Water treatment plant
Comments

CERTIFIED OPERATOR: Yes
Operator(s) & Certification Class-Number:
Kelvin Edun C-7459

Hrs/day: *Required* *Visit *Actual* *Visit
Days/wk: *Required* 5+1 *Actual* 5+1
Non-consecutive Days? ☐ Yes ☐ No ☒ N/A
Comments *5 visits/week and one visit each weekend for a total of 0.6 hour/week

MONTHLY OPERATION REPORTS (MORs)
MORs submitted regularly? ☒ Yes ☐ No ☐ N/A
Data missing from MORs? ☒ No ☐ Yes ☐ N/A
Average Day (from MORs) 41,089 gpd
Maximum Day (from MORs) 173,900 gpd 11/2017
Comments

Flow Measuring Device Flow Meter
Meter Size & Type 3" Master
Date Last Calibrated 2016

RAW WATER SOURCE
☒ GROUND; Number of Wells 1
☐ PURCHASED from PWS ID #
☐ Emergency Water Source
Emergency Water Capacity

STANDBY POWER SOURCE: Not Required
Source
Capacity of Standby (kW)
Switchover: ☐ Automatic ☐ Manual
Hrs Operated Under Load
What equipment does it operate?
☐ Well Pumps
☐ High Service Pumps
☐ Treatment Equipment
Satisfy avg. daily demand? ☐ Yes ☐ No ☐ Unknown
Audio-visual alarm? ☐ Yes ☐ No
Comments

PLANS AND MAPS

Coliform Sampling Plan	☒ Yes	☐ No	☐ N/A
D/DBP Monitoring Plan	☒ Yes	☐ No	☐ N/A
Lead and Copper Plan	☒ Yes	☐ No	☐ N/A
Distribution System Map	☒ Yes	☐ No	☒ N/A
Emergency Response Plan	☒ Yes	☐ No	☒ N/A

Comments

PREVENTIVE MAINTENANCE/O&M

Operation & Maintenance Manual	☒ Yes	☐ No	
Preventive Maintenance Program	☒ Yes	☐ No	☐ N/A
Flushing Program	☒ Yes	☐ No	☒ N/A
Records	☐ Yes	☐ No	☒ N/A
Isolation Valve Exercise	☐ Yes	☐ No	☒ N/A
Records	☐ Yes	☐ No	☒ N/A

Comments

CROSS CONNECTION CONTROL
BFPAs None Observed # Tested N/A
WWTP RPZ N/A Date Tested N/A
Written Plan Yes Date Unkown
Comments

PWS ID # 3424106
Date 09/26/2018

GROUND WATER SOURCE

Well Number (Florida Unique Well ID #)		1 (AAE0269)		
Year Drilled		1982		
Depth Drilled		285’		
Drilling Method		Cable tool		
Type of Grout		Neat cement		
Static Water Level		18’		
Pumping Water Level		Unknown		
Design Well Yield		Unknown		
Test Yield		Unknown		
Actual Yield (if different than rated capacity)		Unknown		
Strainer		Unknown		
Length (outside casing)		147’		
Diameter (outside casing)		6”		
Material (outside casing)		Black steel		
Well Contamination History		None		
Is inundation of well possible?		No		
6’ X 6’ X 4” Concrete Pad		Yes		
SET BACKS	Septic Tank	>200’		
	Reuse Water	N/A		
	WW Plumbing	>100’		
	Other Sanitary Hazard	None observed		
PUMP	Type	Submersible		
	Manufacturer Name	Sta-Rite		
	Model Number	Unknown		
	Rated Capacity (gpm)	400		
	Motor Horsepower	30		
Well casing 12” above grade?		Yes		
Well Casing Sanitary Seal		OK		
Raw Water Sampling Tap		Yes		
Above Ground Check Valve		Yes		
Security		Yes		
Well Vent Protection		N/A		

COMMENTS _____

PWS ID # 3424106
Date 09/26/2018

CHLORINATION (Disinfection)
Type: ☐ Gas ☒ Hypo
Make Uni-dose Capacity 12 gpd
Chlorine Feed Rate 100%
Avg. Amount of Cl_2 gas used N/A
Chlorine Residuals: Plant 1.31 Remote 0.66
Remote tap location 4598 NW 22nd Ave.
DPD Test Kit: ☐ On-site ☒ With operator
☐ None ☐ Not Used Daily
Injection Points Prior to hydropneumatic tank
Booster Pump Info
Comments

Chlorine Gas Use Requirements	YES	NO	Comments
Dual System	☐	☐	
Auto-switchover	☐	☐	
Alarms:			
Loss of Cl_2 capability	☐	☐	
Loss of Cl_2 residual	☐	☐	
Cl_2 leak detection	☐	☐	
Scale	☐	☐	
Chained Cylinders	☐	☐	
Reserve Supply	☐	☐	
Adequate Air-pak	☐	☐	
Sign of Leaks	☐	☐	
Fresh Ammonia	☐	☐	
Ventilation	☐	☐	
Room Lighting	☐	☐	
Warning Signs	☐	☐	
Repair Kits	☐	☐	
Fitted Wrench	☐	☐	
Housing/Protection	☐	☐	

AERATION (Gases, Fe, & Mn Removal)
Type Capacity
Aerator Condition
Visible Algae Growth
Protective Screen Condition
Frequency of Cleaning
Date Last Inspected/Cleaned
Comments

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

Tank Type/Number	H	
Capacity (gal)	5,000	
Material	Steel	
Gravity Drain	Yes	
By-Pass Piping	Yes	
Protected Openings	Yes	
Sight Glass or Level Indicator	Yes	
PRV/ARV	ARV	
Pressure Gauge	Yes	
On/Off Pressure	45/65	
Access Secured	Yes	
Access Manhole	Yes	
Tank Sample Tap Location	Discharge piping	
Date of Inspection	06/19/2013*	
Date of Cleaning	06/19/2013*	

Comments *Tank inspections are out of date but are scheduled to be completed by the end of 2018.

HIGH SERVICE PUMPS

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

Comments

DEFICIENCIES:

Areas of Concern	Rule	Corrective Action	Date Corrected	Significant Deficiency?
Tank inspection was not performed by personnel under the responsible charge of a licensed engineer or there is no signed & sealed report documenting such a tank inspection	62.555.350(2)	Have the tank inspected by personnel under the responsible charge of a professional engineer licensed in Florida and/or submit a signed and sealed report.	Tank inspection received 01/08/2019, conducted 12/06/2019	No

MONITORING REMINDER:

- Nitrate and nitrite samples are required to be collected from the point of entry (POE) to the distribution system annually. The 2018 results have been received.
- The consumer confidence report (CCR) must be delivered to consumers and the Department no later than July 1, 2019, and certification of delivery of the CCR must be submitted to the Department no later than August 10, 2019.
- Monitoring schedules are available on the Central District's Drinking Water site:

https://floridadep.gov/central/central/content/resources-drinking-water-facilities-and-operators-central-district

COMMENTS:

- **Contact FRWA (Florida Rural Water Association) at 850-668-2746, or** frwa@frwa.net, for free technical assistance with your system. FRWA has extended benefits offered to members.
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.

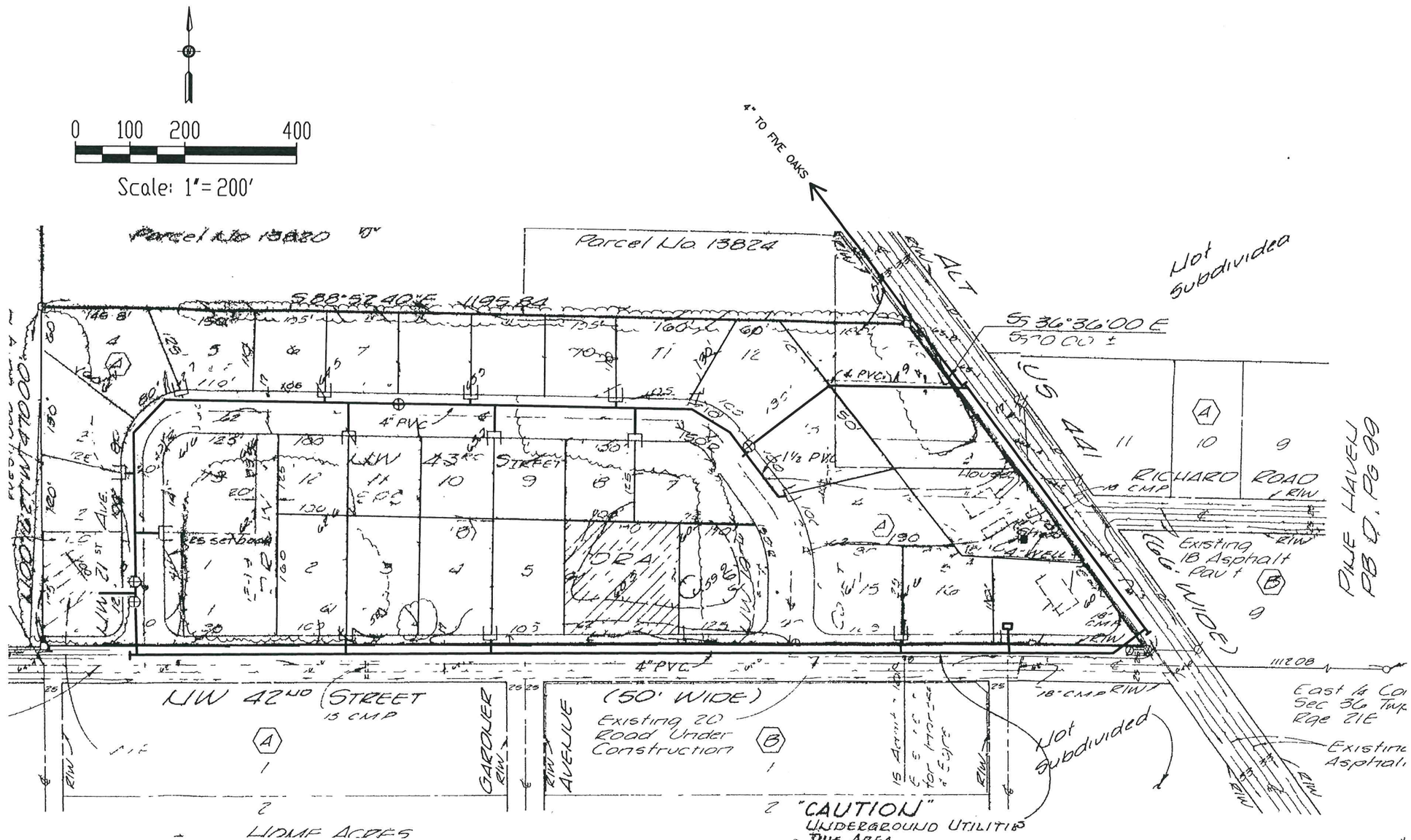
  Checking the calibration of finished-drinking-water meters at treatment plants shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water. [Rule 62-555.350(2), F.A.C.]
- Suppliers of water shall submit written notification to the Department before beginning work or alterations to the public water system. Each notification shall be submitted to the appropriate Department of Environmental Protection District Office or Approved County Health Department and shall include the following: a description of the scope, purpose, and location of the work or alterations; and assurance that the work or alterations will comply with applicable requirements listed in Rule 62-555.330, F.A.C. Suppliers of water may begin such work or alterations 14 days after providing notification to the Department unless they are advised by the Department that the notification is incomplete or that a construction permit is required.
- Suppliers of water shall telephone the SWO at 1-800-320-0519 immediately (i.e., within two hours) after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving a public water system. [Rule 62-555.350(10)(a), F.A.C.]
- Suppliers of water shall telephone, and speak directly to a person at, the appropriate DEP District Office as soon as possible, but never later than noon of the next business day, in the event of any of the following emergency or abnormal operating conditions:
  - The occurrence of any abnormal color, odor, or taste in a public water system's raw or finished water;
  - The failure of a public water system to comply with applicable disinfection requirements; or
  - The breakdown of any water treatment or pumping facilities, or the break of any water main, in a public water system if the breakdown or break is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the

Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(b), F.A.C.]

- Suppliers of water shall notify affected water customers in writing or via telephone, newspaper, radio, or television; and telephone, and speak directly to a person at, the appropriate DEP District Office by no later than the previous business day before taking PWS components out of operation for planned maintenance or repair work if the work is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(d), F.A.C.]
- Suppliers of water shall issue precautionary “boil water” notices as required or recommended in the Department of Health’s “Guidelines for the Issuance of Precautionary Boil Water Notices” as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(11), F.A.C.]

M E Rothenberger	Daniel K Hall
Inspector Signature	*Reviewer Signature*
Miranda Rothenberger	Daniel K. Hall
Printed Name	*Printed Name*
Environmental Specialist	Environmental Manager
Title	*Title*
05/12/2020	May 13, 2020
Date	*Date*

APPENDIX F: DISTRIBUTION MAP



THIS DRAWING IS A COPY OF AN ORIGINAL DONE BY:
CARBAUGH & ASSOCIATES
ENGINEERS & SURVEYORS

H.W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17th ST., SUITE 602 OCALA, FLORIDA 34471
PH (352) 840-8580 FAX (352) 840-8774

OAK HAVEN

SUNSHINE UTILITIES INC.

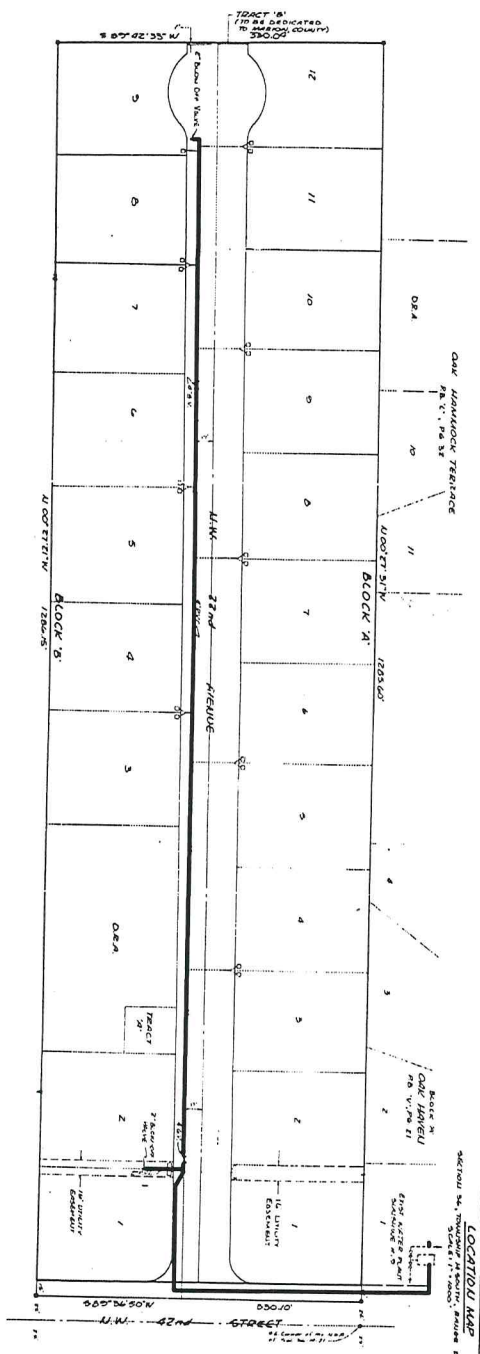
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Project No. 9838-02

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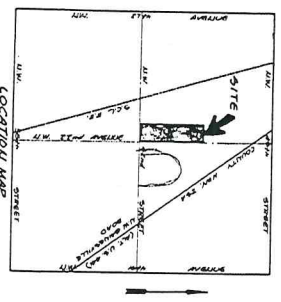
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0 100 200 400

Scale: 1" = 200'

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Sheet 1 Of 1

NORTHSIDE VILLAS

SUNSHINE INDUSTRIES INC.
OCALA, FLORIDA

H.W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17th ST, SUITE 902
OCALA, FLORIDA 34471
FAX (352) 840-9526
(352) 840-9774



woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Oakcrest Villas
Sun Resort

210 South Florida Avenue | Suite 220
Lakeland, Florida 33801
800.426.4262

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

0233748.01
CSWR
July 2021

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» Aquifers
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» Assessment
» Potential Contaminants
» Susceptibility
» Prevention

Contact Us

» Email
» Mailing Address
» Source Water Protection Workshop

EPA Source Water Protection website

Source Water Assessment & Protection Program

Results for: 2019

OAKCREST VILLAS/SUN RESORT
CR 326 & 71ST PL
OCALA, FL 34471

Public Water System ID: 3421201

Previously Known As:
SUN RESORT
OAKCREST VILLAS
SUN RESORT AKA FOX-MOUNTAIN

County: MARION
DEP Regulatory Office: DEP Central District
3319 Maguire Blvd, Suite 232
Orlando, FL 32803
407-897-4100
Public Water System Type : COMMUNITY
Public Water System Source : GROUND
Primary Use: APARTMENT
Population Served: 80
Size of Assessment Area:
GROUND: For this system, a 1000-foot radius circle around each well was used to define the assessment area.

Number of Wells: 1

Well ID	Owner ID	FLUWID	Status	Well Depth(ft)	Aquifer
5696	SUN RESORT WELL 2" 100'/70'	AAE0275	ACTIVE	100	Floridan Aquifer

Results:

GROUND WATER:

Number of Unique Potential Contaminant Sources: 3

Facility Type	Facility Class	Status	Name	Affected Well	Susceptibility Score	Concern Level
PETROLEUM STORAGE TANK	RETAIL STATION	OPEN	MARATHON-OCALA #347	5696	8.33	LOW
PETROLEUM STORAGE TANK	RETAIL STATION	OPEN	QUICK KING #2	5696	8.33	LOW
PETROLEUM STORAGE TANK	RETAIL STATION	OPEN	DIAMOND OIL #109	5696	8.33	LOW

Last updated: February 19, 2020

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3900 Commonwealth Boulevard M.S. 49
Tallahassee, Florida 32399
850-245-2118 (phone) / 850-245-2128 (fax)

APPENDIX B: TANK INSPECTION REPORT

INSPECTION AND TESTING of HYDROPNEUMATIC TANK

Oak Crest Villas Tank

Pursuant to Chapter 62-555.350 (1) & (2) F.A.C

Water System:	Oak Crest Villas
Street Address:	NE 71st/NE 16th Court
City, State:	Marion County, Florida
Phone:	352-347-8228
Contact:	Dewaine Christmas
E-mail:	sunshineutl@aol.com
PWS ID No.:	3421201
County:	Marion
Classification:	Community
Source:	Ground
Ownership:	Sunshine Utilities of North Central Florida
Date:	December 6, 2018

Inspection and Testing by:

Robert M. Couch III, P.E.
ENVIRO-TECH, Inc.
PO Box 152
Weirsdale, FL 32195
Telephone: 352-694-1799
E-mail: envirotech@ymail.com

ROBERT M. COUCH III ★ LICENSE ★ No. 55311 ★ STATE OF FLORIDA ★ PROFESSIONAL ENGINEER

C.O.A. No. 8692 Registration No. 55311

Robert M. Couch III, P.E.

Digitally signed by Robert M. Couch III, P.E.
DN: cn=Robert M. Couch III, P.E., o=ENVIRO-TECH, Inc., ou=Reg. No. 55311, email=envirotech@ymail.com, c=US
Date: 2019.01.05 23:26:36 -05'00'

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1.0 EXECUTIVE SUMMARY

ENVIRO-TECH, Inc. was contracted to perform the five year tank condition inspection on the above mentioned hydro-pneumatic tank.

This condition inspection was performed on December 6, 2018 by Robert M. Couch III, P.E. on the above referenced water tank. The tank was drained and an external inspection was performed to assess the tank condition as required by the Florida Department of Environmental Protection (FDEP) Rule 62-555.

The tank shell and heads appeared to be in overall fair structural condition. Ultrasonic Thickness Measurement (UTM) readings indicated that the average thickness of the tank shell at the time of the field inspection was approximately 2.71 millimeters. UTM readings from the tank heads indicated an average thickness of 4.48 millimeters. The exterior coating of the tank appeared to be in overall good condition with the exception of a pin hole. There was no man way on the tank so the interior was not inspected.

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 60 PSI or lower.

- The tank exterior should be pressure sprayed and repaired as needed close any pin holes and to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 52 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

2.0 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS CHAPTER 62-555.350 (1) & (2)

2.1 Operation and Maintenance of Public Water Systems

(1) Suppliers of water shall operate and maintain their public water systems so as to comply with applicable standards in Chapter 62-550, F.A.C., and requirements in this chapter.

(2) Suppliers of water shall keep all necessary public water system components in operation and shall maintain such components in good operating condition so the components function as intended. Preventive maintenance on electrical or mechanical equipment – including exercising of auxiliary power sources, checking the calibration of finished-drinking-water meters at treatment plants, testing of air or pressure relief valves for hydropneumatic tanks, and exercising of isolation valves –shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water; however, in no case shall auxiliary power sources be run under load less frequently than monthly. Accumulated sludge and biogrowths shall be cleaned routinely (i.e., at least annually) from all treatment facilities that are in contact with raw, partially treated, or finished drinking water and that are not specifically designed to collect sludge or support a biogrowth; and blistering, chipped, or cracked coatings and linings on treatment or storage facilities in contact with raw, partially treated, or finished drinking water shall be rehabilitated or repaired. **Finished-drinking-water storage tanks, including conventional hydropneumatic tanks with an access manhole but excluding bladder- or diaphragm-type hydropneumatic tanks without an access manhole, shall be checked at least annually to ensure that hatches are closed and screens are in place; shall be cleaned at least once every five years to remove biogrowths, calcium or iron/manganese deposits, and sludge from inside the tanks; and shall be inspected for structural and coating integrity at least once every five years by personnel under the responsible charge of a professional engineer licensed in Florida.** Dead-end water mains conveying finished drinking water shall be flushed quarterly or in accordance with a written flushing program established by the supplier of water; additionally, dead-end or other water mains conveying finished water shall be flushed as necessary whenever legitimate water quality complaints are received.

2.2 Location of Inspection and Testing Report

Pursuant to Chapter 62-555.350 (2) and 62-555.350 (12) FAC, beginning 28 August 2003, all water systems regardless of size must maintain a copy up-to-date Preventive Maintenance Logs of each water system in the water facility office. The Preventive Maintenance Logs must show the date and type of all maintenance performed and comply with Rule 62-555.350 (2) and 62-555.350 (12), which requires the following:

- Preventive Maintenance Logs on Electrical and Mechanical Equipment
- Cleaning and Inspection Logs of Treatment Facilities and Storage Tanks
- Records of Coatings and Linings Rehabilitation or Repair
- Licensed Engineer Inspection Report (once every 5-years) for Finished-Drinking-Water Storage Tanks and Hydropneumatic Tanks
- Written Flushing Program and Logs showing that Dead-End Water Mains are being flushed at least quarterly
- Isolation Valves Exercise Logs

A copy of this report should be kept with these records.

3.0 HYDROPNEUMATIC PRESSURE TANK INSPECTION AND TEST PROCEDURES

This Inspection and Test Procedures is used as a reference in the overall inspection and testing of this Water System. This procedure is to be updated from time to time to reflect physical and procedural changes to the water system.

Inspection and testing of this tank was conducted by Robert M. Couch III, P.E. with the assistance of Jim Hodges Jr. of Sunshine Utilities of North Central Florida, Inc. The following inspection and testing procedures for hydropneumatic pressure tanks were used:

3.1 Pre-Test Procedures

1. If water service is to be interrupted customers must be notified in advance and if appropriate, boil water notices issued.

2. Turn-off all electrical power to well pumps, air motors, chlorination equipment, etc.

3. Open drain valve to empty tank. This is also a good time to check the valves (exercise them) that isolate the tank to see if they are in fact working as they should. This downtime can also be used to replace a valve if needed.

4. Once depressurized, the site glass is inspected for proper operation.

5. Once the tank is drained, the manway (hatch) will need to be removed for inspection of the interior.

3.2 Visual Inspection

6. Perform visual inspection of the tank exterior and accessories for presence of leaks, shell distortion, signs of settling, deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, accessories, etc.

7. Tank layout and physical measurements

8. Color photographs of the tank exterior and all of the essential appurtenances

9. Perform visual inspection of the tank interior for presence of deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, bio-growths, calcium or iron/manganese deposits, sludge, etc.

3.3 Nondestructive Examination

10. The tank interior coating is then examined for dry film thickness (See PosiTest® DFT Coating Thickness Gauge measurement) or equivalent.

11. The tank exterior is then examined for thickness measurements (See Smart Sensor AR 850+ Ultrasonic Thickness Gauge measurement).

12. If deemed necessary, the tank exterior (or interior) is then examined for porosity, pinholes and leaks (See PCWI porosity detection test, also known as holiday detector test).

3.4 Post-Test Procedures

13. Any coating problems detected should be corrected while the tank is out of service in order to avoid further extensive downtime.

14. Once the tank is inspected and all maintenance items are taken care of, the tank will need to be disinfected prior to placing back in use.

15. Once the tank has been disinfected, bacteriological tests must be performed on water samples (2 per FDEP) taken from the tank discharge. FDEP to clear for service prior to placing back in service.

3.5 Safety of Test Area

The test area should be restricted and barricaded. The porosity testing instrument output can be up to 20,000 volts. Testing should be carried out well clear of personnel not involved in the testing procedure. Should accidental contact be made with the test electrode, the recipient will receive a mild shock. This equipment should never be used by a person with a pacemaker.

4.0 TEST EQUIPMENT DESCRIPTIONS

4.1 AR 850+ Ultrasonic Thickness Gauge



The Smart Sensor AR 850+ Digital Ultrasonic Thickness Gauge is an economical, user-friendly, menu driven, and multi-functional unit offering extensive features from basic measurements to extended memory. This dynamic series of UT gauges is designed to measure the thickness of metallic and non-metallic materials such as steel, aluminum, titanium, plastics, ceramics, glass and any other good ultrasonic wave conductor as long as it has parallel top and bottom surfaces. The AR 850+ gauges will accurately display readings in millimeters after a simple calibration to a known Thickness or sound velocity.

4.1.1 Features

- Main Unit
- Transducer 5 MHz / 2.5 MHz
- Integrated steel calibration plate 4.0mm
- Batteries (2 x AAA)
- Ultrasonic Couplant
- Operation Manual
- Certificate
- Carrying Case
- One Year Warranty

4.1.2 Technical Specification

Display Type	4-digit LCD
Display Resolution	(<100 mm) 0.1 mm
Units	Metric
Measuring Range (steel)	1.2 to 220.0 mm
Sound Velocity Range	1000 to 9999 m/s
Operating Temperature	0 ° C +45° C
Frequency	5 MHz
Power Source	3 X 1.5V AAA batteries
Dimensions	70x145.5x28 mm

4.2 Compact DC Inspector Porosity Detector



Porosity detection of Tanks, Valves, Pumps, Pipeline field joints, and general inspection and maintenance. Suitable for a broad range of testing and inspection requirements. It is recommended that the integral probe be limited to a 125mm flat brush or fan brush.

4.2.1 Standards

ASTM G62-87(1998), ASTM D4787-93(1999), NACE RP0274-98, NACE RP0490-2001, NACE RPO188- 99, JIS G-3491, JIS G-3492, ANSI/AWWA C214-89, ANSI/AWWA C213-94 and ISO 2746:1998

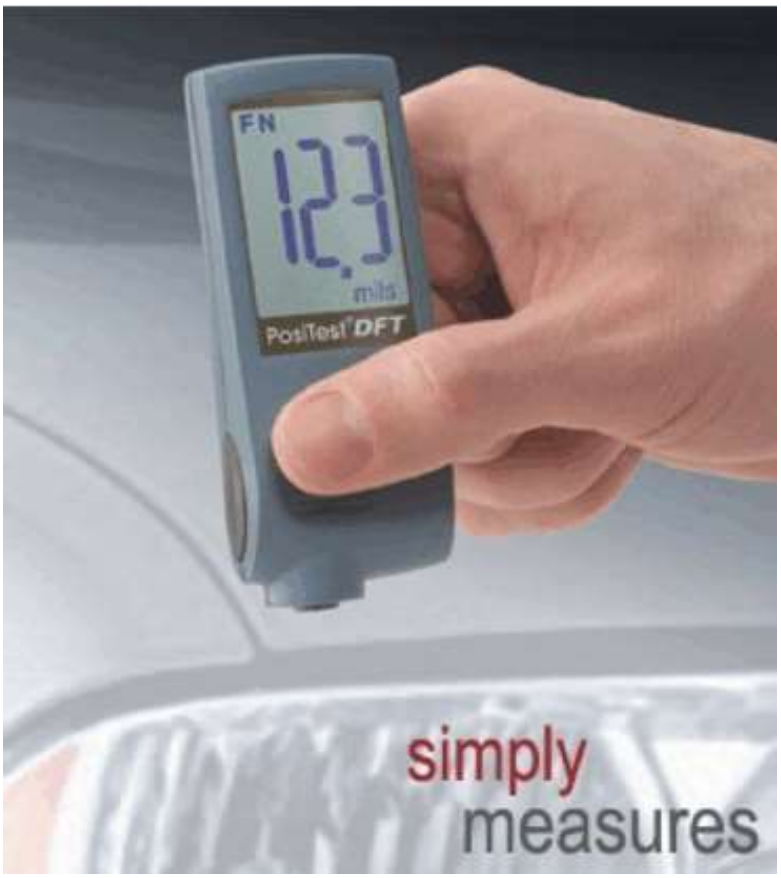
4.2.2 Features

- LED bar graph display of voltage
- "Single" hand-held, lightweight unit for simplicity and ease of operation
- Audible and visual alarms
- LED battery condition indicator
- Integral probe
- Detector
- 7m Earth lead and clamp
- Flat 125mm wide brass wire brush (or optional fan brush)
- Carry Case
- Operating instructions with conformance certificate
- Variable output up to 10kV or Variable output up to 20kV

4.2.3 Technical Specifications

Test Voltage	to 10kV (using 9V Battery)
Output Test Current	up to 100µA
Operating Temperature	-20 to +50ºC
Power Supply	Battery (9V internal)
Unit Dimensions	210 x 75 x 35mm (excl brush) 8.25" x 3.1" x 1.5"
Unit Weight	460g (incl probe)
Shipping Weight	1.5Kg

4.3 PosiTest DFT Coating Thickness Gauge



The new PosiTest DFT Coating Thickness Gauge measures coatings on ALL metals. It is the economical choice that retains the uncompromising quality of Qualitest inspection instruments.

Available in two models:

- PosiTest DFT Ferrous - measures non-magnetic coatings on steel.
- PosiTest DFT Combo - measures both non-magnetic coatings on steel and non-conductive coatings on aluminum, brass, etc. Automatically recognizes the substrate and takes a measurement.

4.3.1 Standards

ASTM B244/B499/B659/D1186/D1400/E376/G12, BS3900-C5, SSPC-PA2, ISO 2178/2360/2808, prEN ISO 19840, and others. Certificate of Calibration traceable to NIST available.

4.3.2 Features

- Fast, repeatable measurements
- No calibration required for most applications
- ZERO feature for rough or curved surfaces
- Handy RESET feature when no zero reference is available
- Strong, wear resistant, ruby-tipped probe
- Audible and visible measurement indication
- V-groove in probe for positioning on cylindrical parts
- Mils/Microns switchable
- Basic instructions on the back of each gauge

4.3.3 Technical Specifications

Measurement Range	0-40 mils (-1000 µm)
Accuracy	±(0.1 mils + 3%) (±(2µm + 3%))
Size	4 x 1.5 x 0.9 in (100 x38 x 23 mm)
Weight	2.5 oz (70 g)



5.0 HYDROPNEUMATIC PRESSURE TANK DESCRIPTION

The hydropneumatic pressure tank inspected and tested is described as follows:

Length: 5'-6"" (6'-6" including elliptical heads)
Diameter: 3'-0" outside diameter
Volume: 300 gallons with elliptical heads
Tank Age: Approximately 15 years
Operating Pressure: 60 psi

6.0 TESTING

6.1 Porosity Testing

The tank surface was not swept with the Compact DC Inspector Porosity Detector during this inspection as only one pin hole was observed throughout the surface of the tank.

6.2 Interior Coating Testing

No dry film thickness readings were taken within the tank interior as there was no access to the interior.

6.3 Ultrasonic Metal Thickness Testing

A total of 47 metal thickness readings were taken at various locations on the tank shell and head surface. The average shell reading was 2.71 millimeters in the cylindrical section and 4.485 millimeters in the elliptical heads. Typical industry standard minimum wall thickness for tanks of this size is 3/16" (4.46 mm).

7.0 VISUAL OBSERVATIONS

7.1 Tank Exterior

The exterior of the tank appeared to be in overall fair structural condition with the exception of one pin hole. No lichens were growing on the tank exterior at the time of the inspection.

7.2 Tank Interior

The tank has no man way, therefore an interior inspection was not performed.

8.0 DEFINITIONS

Design Pressure - The maximum design pressure determined from the metal thickness.

Maximum allowable working pressure (MAWP) – Maximum pressure that the pressure tank is capable of safely holding at a design maximum temperature (250ºF).

Operating Pressure - The normal maximum operating pressure of the pressure tank. The normal operating pressure must always be below the MAWP. As a rule of thumb the maximum operating pressure should always be less than the MAWP.

Metal Thickness – The thickness of the pressure tank wall (not including a corrosion allowance) to be used in the pressure calculations.

Design Safety Factor on Metal Tensile Strength – A pressure tank is normally designed with a safety factor of 3 to 4 on the metal tensile strength. All pressure tanks are designed to operate with wall stresses below the yield point of the metal used for fabrication.

9.0 TANK PRESSURE CALCULATIONS

The following formula is found in ASME Section I for determination of MAWP:

For tanks with circumferential stress on (longitudinal joints)

P = SEt/(R+0.6t)
= 60 MPa x 1.0 x2.71 mm / (454 mm+0.6 x 2.71 mm)
= 0.356 MPa
= 52 psi

When:

t < 0.5R = 0.5 x 454 = 227 mm (true) or
P < 0.385SE = 0.385 x 60 x 1.0 = 23.1 MPa (true)

Where:

t = metal thickness (mm) where t = 2.71 mm
R = inside radius of shell course under consideration (mm) = 454 mm
E = joint efficiency for cylindrical or spherical shells = 1.0 for welded tanks and corresponds to a safety factor of 3.5 in the parent metal.
P = maximum allowable working pressure (MPa) where 1 MPa = 145 psi
S = maximum allowable stress value at the operating temperature of the metal = 60 MPa (Safety Factor of 4).

10.0 CONCLUSIONS

Inspection and testing of the Oak Crest Villas 300-gallon hydropneumatic pressure tank was performed on December 6, 2018. In addition to a visual examination, non-destructive examinations were also made. Non-destructive examinations included ultrasonic measurement of the tank wall thickness and visual inspection for pinholes and leaks. No examination of Dry Film Thickness Measurement (DFTM) of the interior coating was performed as there was no man way to provide access to the interior.

Observations of the tank exterior indicated tank is subject to normal exposure. No observations of the tank interior were performed as there was no man way present.

11.0 RECOMMENDATIONS

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 60 PSI or lower.
- The tank exterior should be pressure sprayed and repaired as needed close any pin holes and to remove any lichens during the next five years.
- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 52 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

Signed: Robert M. Couch III Date: 1/5/2019

Robert M. Couch III, P.E. Registration No. 55311

Exterior views of tank





View of pin hole noted
on side of tank



APPENDIX C: EMERGENCY RESPONSE PLAN

Disaster-Specific Preparedness/Response Plan

for Public Drinking Water Systems

Per Chapter 62-555.350 (15) F.A.C.

Sunshine Utilities

OAKCREST/SUN RESORTS

Address:	10230 East Hwy. 25 Belleview, FL 34420
Phone:	352-347-8228
Fax:	352-347-6915
Contact:	Dewaine Christmas, Manager
E-mail:	SunshineUtl@AOL.COM
Connections:	32
PWS:	3421201
County:	Marion

May 17, 2013

Department of Environmental Protection
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John R. Sowerby, P.E.

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e-mail: FRWA@frwa.net

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This template and guide has been developed by the Florida Rural Water Association (FRWA) in collaboration with the Washington State Department of Health, Office of Drinking Water, Olympia, Washington; and reviewed by Florida Department of Environmental Protection.

Acknowledgment of federal government support of this project:

This project and the preparation of this booklet was funded in part by a Water Protection Coordination grant from the Environmental Protection Agency through an agreement/contract with the Drinking Water Program of the Department of Environmental Protection. Total cost of the project was $3,000 of which $3,000 or 100 percent, was provided by the U.S. Environmental Protection Agency.

Preface
Chapter 62-555.350 (15) FAC

Disaster-Specific Preparedness/Response Plans

(15) Suppliers of water who own or operate a community water system serving, or designed to serve, 350 or more persons or 150 or more service connections shall develop a written emergency preparedness/response plan in accordance with Emergency Planning for Water Utilities, AWWA Manual M19, as adopted in Rule 62-555.335, F.A.C., by no later than December 31, 2004, and shall update and implement the plan as necessary thereafter. Said suppliers of water shall coordinate with their Local Emergency Planning Committee and their Florida Department of Law Enforcement Regional Security Task Force when developing their emergency plan and shall include in their plan all of the information in paragraphs (a) through (e) below.

(a) A Communication Charts as described in Chapter 5 of AWWA Manual M19.

(b) Written agreements with other agencies, utilities, or response organizations.

(c) A disaster-specific preparedness/response plan as described in Chapter 5 of AWWA Manual M19 for each of the following disasters: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release. Each disaster-specific preparedness/response plan shall incorporate the results of a vulnerability assessment; shall include actions and procedures, and identify equipment, that can obviate or lessen the impact of such a disaster; and shall include plans and procedures that can be implemented, and identify equipment that can be utilized, in the event of such a disaster.

(d) Details about how the water system meets the standby power requirements under subsection 62-555.320(14), F.A.C., and, if applicable, recommendations regarding the amount of fuel to maintain on site, and the amount of fuel to hold in reserve under contracts with fuel suppliers, for operation of auxiliary power sources.

(e) If applicable, recommendations regarding the amount of drinking water treatment chemicals, including chemicals used for regeneration of ion-exchange resins or for onsite generation of disinfectants, to maintain in inventory at treatment plants.

Specific Authority 403.861(9) FS. Law Implemented 403.852(12), 403.853(6), 403.861(17) FS. History-New 11-19-87, Formerly 17-22.650, Amended 1-18-89, 1-1-93, Formerly 17-555.350, Amended 8-28-03.

Time Extension for Submitting/Completing ERP – December 31, 2005

From: Hoofnagle, Van
Sent: Thursday, October 21, 2004 11:25 AM
Subject: Time Extension for Submitting/Completing ERP
Importance: High

I am sending this e-mail because of possible confusion in some FDEP District Offices or ACHDs regarding the deadline for compliance with the emergency preparedness/response plan requirements in FAC subsection 62-555.350(15).

As John Sowerby and other staff mentioned during Focus On Change presentations early this year on FAC Rule 62-555.350 and during training this summer on the recent amendments to FAC Chapter 62-555, the FDEP intends to amend FAC subsection 62-555.350(15) to give all affected community water systems (i.e., all community water systems serving 350 or more persons or 150 or more service connections) **until the end of 2005** instead of the end of this year to complete a comprehensive emergency preparedness / response plan as required by FAC subsection 62-555.350(15). At this point, it will likely be after the end of this year before we officially make this change to FAC subsection 62-555.350(15). In the meantime, please do not take any enforcement action against

community water systems who fail to meet the 12/31/04 deadline in FAC subsection 62-555.350(15). Thanks.

Van Hoofnagle
DEP Drinking Water Administrator

Section 1
Communication Charts

The first response step in any emergency is to inform the person at the top of this list, who is responsible for managing the emergency and making key decisions. List the water system chain of command in order of contact.

Water System Chain of Command – Lines of Authority

Order	Name & Title	Responsibilities During an Emergency	Contact Information
1	Dewaine Christmas Manager	Responsible for overall management and decision making. The manager is the lead for managing the emergency and providing information to regulatory agencies. All communications to external parties are to be approved by the manager.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl@AOL.Com
2	James Hodges Jr. Field Supervisor	Responsible for decision making in the field. In charge of overall maintenance, and repairs to all components of water system.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl @AOL.Com
3	Kelvin Edun Water Treatment Plant Operator	Responsible for running water treatment plant, performing inspections, maintenance, sampling and relaying all critical information to Field Supervisor.	Phone: Cell: 352-875-5141 Email:
4	Pamela Christmas Office	Responsible for assisting the manager in administrative duties and emergencies.	Phone: 352-347-8228 Cell: 352-245-4743 Email:
5			Phone: Cell: Email:
6			Phone: Cell: Email:
7			Phone: Cell: Email:

Emergency Notification

Notification call-up lists - Use these lists to notify important parties of an emergency.

Emergency Notification List

Organization or Department	Name & Position	Telephone	Cell Phone	e-mail
State Warning Point	**Duty Officer**	**800-320-0519**	800-320-0519	N/A
Local Law Enforcement	EOC Commander	352-622-3205		Pstefanski@sheriff.marioncountyfl.org
Fire Department		911		
Emergency Medical Services		911		
Water Operator (if contractor)	Kelvin Edun Operator	352-875-5141		
County Health Department	Tom Moore Director of Environmental Health	352-622-7744	352-266-7486	
DEP District Office	Manny Cardona	407-897-4134	Fax 407-893-4418	
County Emergency Management Dept.	Chip Wildy	352-622-3205		
Local Leader (City Mgr., Mayor, Chair. Co. Comm., etc.)				
Local Hazmat Team (if any)		911		
Hazmat Hotline		911		
National Spill Response Center.	Duty Officer	800-424-8802	800-424-8802	N/A
Interconnected Water System(s)				
Neighboring Water System (not connected)				
FRWA Water Circuit Rider	Tom Gustafson	850-668-2746	352-267-1302	

Priority Customers

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Hospital Or Clinic(s)				
Nursing Home(s)				
Public Schools				
Private Schools				
Wastewater Treatment Plant				
Food Processing Or Other Industry				

Service / Repair Notifications

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Electric Utility Co.	City of Ocala	352-651-6666		
Electrician	Melville Electric	352-245-0600		
Gas / Propane Supplier	Belleview Gas	352-245-6055		
Water Testing Lab.	Aqua Pure Lisa Saupp	352-625-2822		
Sewer Utility Co.				
Telephone Co.	Sprint	800-788-3600	611	
Plumber	ACP	352-427-7036		
Pump Supplier	Coast Pump	352-620-0616	352-266-4277	Coastpumpocal@hotmail.com
"Dig Safe" or "One Call"	Sunshine One Call	800-432-4770		

Service / Repair Notifications				
Organization Or Department	**Name & Position**	**Telephone**	**Cell Phone**	**email**
Rental Equip. Supplier	B&M Rental	352-245-3133	352-245-9800	
Chlorine Supplier	Custom Controls	352-622-9244	352-304-0572	
Other Chemical Suppliers				
Radio/SCADA Repair Co.				
Bottled Water Service				
Bulk Water Supplier				
Well Drilling Co.	Earls Well Drilling David Moffitt	352-245-2324	352-817-0502	
Pipe Supplier	National Water Works Roy Sands	352-351-8144	352-266-4705	

Designated Public Spokesperson and Alternates

Designate a spokesperson (alternates) for delivering messages to the news media & public

Public Spokesperson	Name & Position	Telephone	Cell Phone
Spokesperson	Dewaine Christmas Manager	352-347-8228	352-239-1198
Alternate 1	James Hodges Jr. Supervisor	352-347-8228	352-239-1197
Alternate 2			

Key Messages

Develop possible messages in advance, and update them as the emergency develops
▪ We are aware of the emergency and are working diligently to restore your water service.

- If you fall under a boil water notice you must bring water to a rolling boil for a period of at least one minute. You only have to boil water for human cunsumption.

-

Health Advisories – Boil Water Notices

Use the assistance of your County Health Department and/or District FDEP office, and FDEP's Mandatory Health Effects Language, located on FDEP's website at:

http://www.doh.state.fl.us/environment/water/manual/boil.htm

http://www.DEP.state.fl.us/water/drinkingwater/rules.htm,

and click on "Mandatory Health Effects Language"., PLUS EPA's templates at:

http://epa.gov/safewater/pn.html

Click on "Microsoft Word and Word Perfect files of PN templates" (PN means Public Notifications), then determine which "Tier" of notifications is needed and click on the desired software to receive them in.

Section 2
Written Agreements With Other Agencies, Utilities, or Response Organizations

INSERT BELOW information regarding any written agreements with other agencies, utilities, or response organizations, such as emergency interconnects, mutual aid or FlaWARN.

Emergency Interconnect(s)

Information on the location of interconnection(s) (if any), type and size of interconnecting pipe, pumps and accessory equipment, meters at interconnection(s), normal pressures at both ends of interconnection, volume of water from interconnection(s), type of agreement and approvals needed for use, procedures necessary to use interconnection, etc.

Location (Street)	
Location (GPS)	
Description	

Memoranda of Understanding

Organization	
Summary of Understanding	

Mutual Aid Agreements

Organization	Marion Utilities, Hal McDonald 352-622-1171
Summary of Understanding	Will render mutual aide – ie: pumps, generators, and other materials necessary to restore water service.

FlaWARN

Organization	
Summary of Understanding	

Section 3
Disaster-Specific Preparedness/Response Plan

Your disaster-specific preparedness/response plan must include a Vulnerability Assessment and preparedness / response plans for: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release.

In any event there are a series of general steps to take:

1. Confirm and analyze the type and severity of the emergency.
2. Take immediate actions to save lives.
3. Take action to reduce injuries and system damage.
4. Make repairs based on priority demand.
5. Return the system to normal operation.

Vulnerability Assessment

It is essential that water systems identify and assess the vulnerability of each system component for both natural and human-caused emergencies, before preparing their disaster-specific preparedness/response plans. Prepare your Vulnerability Assessment by completing the table below:

Facility Vulnerability Assessment

System component	Description and condition	Vulnerability	Security improvements (indicate existing or proposed)
Raw Water Sources	(1) 4" groundwater wells located several hundred feet from homes. Wells are in good condition. We have wellhead protection in place.	The wells is most vulnerable to above ground activities because it is only 100 FT deep.	1.Purchase land surrounding well. 2. Secure well house to foundation and install lighting around well house.
Pump-house and pumping facilities	The pump-house and pumping facility are in good condition.	Pump location is fully fenced with a locked gate.	Install tamper proof padlocks.
Treatment Facilities	There is a hypo-chlorination system inside of pump house. System is in good condition.	Chlorination systems are not subject to power outages.	There is a backup generator on site in compliance with CH. 62-555.320(14)FAC
Storage Facilities	Hydro pneumatic tank is fenced in good condition.	Tank is not in a lighted area.	Install lighting in area of tank.
Computer and telemetry systems	Computers are in utilities main office and are in good condition.	Computers should be better protected against cyber attack or hacking.	Secure computers with firewalls & virus protection.

A. Vandalism or Sabotage Response Procedures

1. Utility staff first aware of incident:
    a) Calls 9-1-1/ Local Law Enforcement.
    b) Calls Manager
2. Manager determines severity of incident.
    a) Field supervisor determines if vandalism or sabotage will effect the water quality.
    b) Manager reports incident to the state warning point.
3. Field supervisor directs repairs as needed.
    a) Complete repairs
    b) Update ERP as needed.

B. Drought Response Procedures

Include water use restrictions per Consumptive Use Permit

1. Manager coordinates with the local Water Management District (WMD) regarding drought conditions.
    a) If drought conditions exist, a water conservation plan will be initiated.
    b) Literature will be distributed to customers regarding the drought.
    c) Conservation material will be distributed to customers on conservation measures.
    d) Customers not abiding by restrictions will be reported to WMD.
    e) Manager updates ERP as needed.

C. Hurricane Preparedness & Response Procedures

Pre- Hurricane **(36 to 48 hrs prior to arrival)**	1. Manager coordinates with local EOC. 2. Field supervisor checks operation of standby power. 3. Field supervisor secures fuel and treatment chemicals for a 10 day period. 4. Manager replenishes inventory of spare parts.
Hurricane Watch **(24 to 36 hrs prior to arrival)**	1. Manager cancels all time off for employees. 2. Manager issues work assignments in advance in case of communication loss. 3. Employees all top off fuel in vehicles & standby generators. 4. Manager authorizes employees to secure their personal property and arrange for the safety of family members.
Hurricane Warning (24hrs or less prior to arrival)	1. Employees report to designated areas and wait for instructions. 2. Employees load truck with supplies. 3. Employees follow evacuation protocol.
Recovery Procedures	1. Manager coordinates with local EOC. 2. Manager issues boil water notices if needed. 3. Field supervisor coordinates repairs. 4. Manager makes contact with the appropriate DEP office. 5. After repairs are completed samples are taken. 6. When samples come back clear – boil water notice is lifted. 7. Manager files all malfunction reports with the DEP. 8. Field supervisor inspects all systems to make sure everything is running smooth.

D. Structure Fire Response Procedures

1. Utility staff discovering fire:
    a) Evacuate structure on fire.
    b) Call 9-1-1
2. Manager determines severity of incident.
    a) Manager contact State Warning Point.
    b) Field supervisor coordinates repairs when fire is extinguished.
3. Field supervisor reports to manager when repairs are complete.
    a) Manager reports completion of all repairs to any Gov. agency.
    b) Manager updates ERP as needed.

E. Flood Preparedness & Response Procedures

(Is any critical part of your system in a flood prone area?)

None of our systems are in a flood prone area.

F. Forest or Brush Fire Response Procedures

(Is any critical part of your system subject to forest or brush fires?)

1. Utility staff discovering fire.
    a) Orders evacuation of any threatened buildings.
    b) Calls 9-1-1 to report fire.
2. Manager determines the severity of fire.
    a) Manager contacts the State Warning Point.
    b) Field supervisor inspects for any damage and coordinates repairs after fire is extinguished.
3. Field supervisor reports to manager that all repairs are complete.
    a) Manager updates the ERP as needed.
    b)

G. Hazardous Material Release Response Procedures

Do you have any hazardous material (chlorine gas) at your water system?

We have no Hazardous materials at any of our water systems.

H. Other Disaster Response Procedures

Are there other disasters that you want to prepare for, such as a Contamination event, SCADA Attack, or Structural Damage from an Intentional Act?

Contamination

1.
   a)
   b)
2.
   a)
   b)

SCADA Attack

1.
   a)
   b)
2.
   a)
   b)

Structural Damage from an Intentional Act

1.
   a)
   b)
2.
   a)
   b)

Section 4
Standby Power Requirements

Include details about how the water system meets the standby power requirements as described in Ch. 62-555.320(14), and 62-555.350(15)(d) FAC for water source, treatment, and pumping facilities necessary to deliver drinking water at a rate at least equal to the Average Daily Water Demand.

Standby Power for Wells or Surface Water Intakes

Standby Power (or by alternate means) to OPERATE WELLS at Average Daily Demand

Average Daily Demand (ADD) in gpd or gpm	2958 gpd
Wells Needed to Supply Average Daily Demand	1
Standby Generator (kW) Needed for ADD &	15 KW
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	We will have reserve fuel in the case of an emergency.

Standby Power for Treatment Facilities

Standby Power (or by alternate means) to TREAT WATER at Average Daily Demand

Treatment Units Needed to Supply ADD	
Standby Generator (kW) Needed to Treat ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Standby Power for Pumps

Standby Power (or by alternate means) to PUMP WATER at Average Daily Demand

Pumps Needed to Supply ADD	
Standby Generator (kW) Needed to Pump ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Section 5
Drinking Water Treatment Chemicals & Disinfectants

Include recommendations regarding the amount of drinking water treatment chemicals, to maintain in inventory at treatment plants. Do not just list chemical storage capacity, but instead recommend the minimum amount of chemicals to maintain in inventory, which depends upon the location and reliability of chemical suppliers, the status of impending disasters, etc.

Disinfection Treatment Information

Disinfection Chemical(s)	Chemical / Location No. 1	Chemical / Location No. 2
Type of Chemical	Chlorine	
Type of Chemical Feed	Hypo-Chlorinator	
Chemical Storage Location	On site in the pump house.	
Recommended Minimum Amount to be Maintained in Storage (gal)	55 gallons	

Other Chemical Information

Chemical(s) Used	Chemical #1	Chemical #2	Chemical #3	Chemical #4
Type of Chemical				
Type of Chemical Feed				
System Location				
Chemical Storage Location				
Recommended Minimum Amount to be Maintained in Storage (gal)				

Appendix A
Basic System information

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Keep this basic information readily available for when you need it for emergency responders, repair people, the news media and potentially, an emergency operator.

Basic System Information

GPS coordinates will help emergency crews find your system following a major catastrophe.

System identification number (PWS ID)	**3421201**	
System name and address	**OAKCREST/SUN RESORTS**	
GPS Coordinates	Latitude:	Longitude:
Basic description and location of system facilities	**NE 70TH ST**	
Population served and service connections.	Population =	Connections =32
System Owner	**Sunshine Utilities of Central Florida, Inc.**	
Management Authority	**Owner and Manager**	
Name, title, and phone numbers of person responsible for maintaining and implementing the ERP.	**Dewaine Christmas** **Manager**	**352-347-8228 phone** **352-239-1198 cell**

System Demand

Demand based on Monthly Operational Records and system capacity based on Sanitary Survey.

Average Daily Demand (gpd)	2958 GPD
Maximum Daily Demand (gpd)	6400GPD
System Capacity (gpd)	21600 GPD
Peak Hour Demand (gpm)	N/A

Location of Pertinent Information

Item	Location
Distribution System Map	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
O&M Manual(s)	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
Start-Up / Shut-Down Procedures	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.

Well Information

GPS coordinates will help emergency crews find wells following a major catastrophe.

Well Information	Well No. 1	Well No. 2	Well No. 3	Well No. 4
GPS well tag #				
Location (street)	NE 70TH ST			
GPS Coordinates	Lat: Long:		Lat: Long:	Lat: Long:
Well Depth (ft)	100 FT			
Well Yield (gpd)	43200 GPD			
Pump Type	Submersible			
Manufacturer	Sta-Rite			
Capacity (gpm)	230 GPM			
Motor Manufacturer	Franklin			
Horsepower	2 HP			
Phase	1			
Volts/Amps	230 volts			

Surface Water Sources

GPS coordinates will help emergency crews find surface water intakes following a major catastrophe.

Surface Water Information	Intake No. 1	Intake No. 2
Location (Street / Description)		
GPS Coordinates	Lat: Long:	Lat: Long:
Critical Water Level		

Finished Water Storage

GPS coordinates will help emergency crews find tanks following a major catastrophe.

Name of Storage Unit	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Location (Street)				
Location (GPS)	Lat: Long:	Lat: Long:	Lat: Long:	Lat: Long:
Type (ground, elevated, etc.)				
Capacity (gal)				
Empty Elevation				
Overflow Elevation				

High Service Pumps

HSP	HSP No. 1	HSP No. 2	HSP No. 3	HSP No. 4
Location (street)				
Pump Type				
Manufacturer				
Capacity (gpm)				
Motor Manufacturer				
Horsepower				
Phase				
Volts/Amps				

Other Applicable Information

Appendix B
Training and Rehearsals

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Event	Description	People & Organizations Involved	Date

Appendix C
Plan Approval

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Plan Approval

This plan is officially in effect when reviewed, approved, and signed by the following people:

Name / Title	Signature	Date
Hodges Family Trust		

APPENDIX D: CONSUMER CONFIDENCE REPORT

Certification of Delivery of Consumer Confidence Report

GENERAL INSTRUCTIONS: This form shall be completed by all community water systems (CWSs) that have prepared a Consumer Confidence Report (CCR) in accordance with Rule 62-550.824, F.A.C., Consumer Confidence Reports. At the end of this form is a certification in which a system's authorized representative shall certify that the reported information is accurate and is in conformance with Rule 62-550.824, F.A.C. **COMPLETE THIS FORM AND SUBMIT IT BY AUGUST 10,** together with a copy of your system's CCR, sample email or water bill (with URL notification of CCR, if applicable), and any newspaper notice(s) and posted notice(s) of your CCR, to the appropriate DEP district office or Approved County Health Department (ACHD). Systems serving 100,000 or more persons posting their CCRs on publicly accessible Internet sites shall provide the information on the appropriate Internet link(s). All information provided on this form must be typed or printed in ink.

I. General Water System Information. (To be completed by all community water systems.)

System name: Sun Resort Contact person: Dewaine Christmas

PWS Identification number (PWS ID): 3421201 Contact phone number: (352)347-8228

Mailing address: 10220 East Hwy 25 City: Belleview

State: Fl Zip: 34420-5531 Population served (not the number of "service connections"): _____

II. CCR Distribution Method. (To be completed by all community water systems. Choose A or B as appropriate.)

☑ A. We mailed, emailed, or otherwise directly delivered a copy of our CCR to each customer on 6/15/2020 (enter date(s) of mailing or delivery) using the method(s) checked below:

- ☑ a. **Mailed** CCR
- ☐ b. **Mailed** notice (e.g. water bill) with **direct URL** to the CCR
- ☐ c. **Emailed** CCR as an **embedded** image or as an **attachment**
- ☐ d. **Emailed** notice with a **direct URL** to the CCR
- ☐ e. **Otherwise directly delivered** CCR to every customer. Explain: _____

☐ B. We were eligible to use a mailing waiver and used a mailing waiver. (Systems are eligible to use a mailing waiver only if they serve fewer than 10,000 persons, have not had any MCL or monitoring and reporting (M/R) violations, nor have been issued any formal Notices of Violations (NOVs), Consent Orders, Administrative Orders, or court-ordered civil actions during the calendar year before the year the CCR is due to the customers).

Answer a, b, and c below.)

- ☐ a. Date of newspaper: _____
- ☐ b. Name of newspaper/newsletter that published our CCR: _____
- ☐ c. A copy of our notice to customers, informing them that our CCR will not be mailed to them, is attached.

This notice was: ☐ mailed with bill; ☐ published in newspaper/newsletter; or ☐ other (describe)

_____

III. Posting of CCR on the Internet. (To be completed by all CWSs serving 100,000 or more persons.)

We posted our CCR on this publicly accessible internet site: _____

IV. Report on Your Effort to Distribute Your CCR to Your Water Consumers.
(To be completed by all CWSs. Check all items that apply - at least one item must be checked.)

In addition to the methods selected in Part II,

- ☑ A. We posted our CCR on this publicly accessible internet site: www.sunshineutilities.org
- ☐ B. We published our CCR in the local newspaper(s). The name(s) and date(s) of the newspaper(s) are:

_____

RECEIVED
JUL 10 2020
DEP Central District

☐ C. We advertised the availability of our CCR as a press release, radio announcement, or TV announcement. The type(s) and date(s) of the advertisement(s) are: _____

☐ D. We delivered multiple copies of our CCR to single bill addresses serving several persons.

☐ E. We delivered multiple copies of our CCR to the following community organizations:

_____

☐ F. Our CCR was posted in the following public locations: _____

_____

☒ G. Our CCR was distributed by other methods (e.g., additional copies placed in entrance hall to facility). Describe.
Additional copies available at Sunshine Utilities Office

_____

V. Use of Non-English Language in CCR. (To be completed by all community water systems.)

☐ Information in a non-English language was included in our CCR because 20% or more of our customers do not speak English but speak _____. The method we used to determine the proportion of non-English speaking customers is _____

☒ This requirement does not apply to our system, because we have no non-English speaking group among our customers equal to or exceeding 20% of our total number of customers.

VI. Other Delivery Requirements. (To be completed by all community water systems.)

(A) Was a copy of your CCR sent to your county health department, as required by rule? ☒ Yes ☐ No

(B) Is your system regulated by the Public Service Commission (PSC)? ☐ Yes ☐ No

If Yes, was a copy of your CCR sent to the PSC, as required by rule? ☒ Yes ☐ No

(C) If your system sells water to other systems, have you provided them with either a copy of your CCR or the required consumer confidence information? ☒ Yes ☐ No ☒ Not Applicable

VII. Certification of Delivery of CCR and Compliance with Regulations. (To be completed by all CWSs.)

This statement certifies that the above named community public water system has distributed its CCR for the time period starting ***January 1, 2019, and ending December 31, 2019*** to its customers on 6/15/20 (mm/dd/yy) and provided the appropriate notices of availability according to the requirements listed in this form, which are also found in Rule 62-550.824, F.A.C. This statement also certifies that the reported information is correct and consistent with the compliance monitoring data for the same period previously submitted to the Department, and that the report has been delivered to the agencies identified in Rules 62-550.824(3)(e)3., and 4., F.A.C.

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____

NAME (please print): Dewaine Christmas

TITLE: Manager DATE: 7/14/20

☒ **A copy of our CCR is attached, and**

☐ **If using electronic delivery, a copy of our sample email or notice (e.g. water bill), with URL leading directly to the CCR and not a general information website, is attached. For example, if you are using the FRWA website to post your CCR, your URL would be:**

www.frwa.net/2012-Your PWSID Number.pdf (www.frwa.net/2012- 0000000.pdf).

SUNSHINE UTILITIES
10230 East Highway 25
Belleview, Florida 34420

Drinking Water Quality Report

Annual Drinking Water Quality Report for 2019

Sun Resort

Florida Department of Environmental Protection Public Water System ID # 3421201

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

The source of our water is groundwater from one well located in the community. The well draws from the Floridan aquifer, one of the world's most protected sources. Our water is chlorinated for disinfection purposes. In 2019 the Department of Environmental Protection performed a Source Water Assessment on our system to provide information about any potential sources of contamination in the vicinity of our wells. There are three potential sources of contamination identified with a low level of concern. The assessment results are available of the FDEP Source Water Assessment and Protection Program website at www.dep.state.fl.us/swapp.

Sun Resort water system also serves the following communities and businesses; Fox Mountain, Suttons Subdivision and Oakcrest Villas. If you have any questions about this report or concerning your water utility please contact **Dewaine Christmas, at Sunshine Utilities, (352) 347-8228,** during normal business hours. We encourage our valued customers to be informed about their water utility.

Sunshine Utilities routinely monitors for constituents in your drinking water according to Federal and State laws, rules and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2019. Data obtained before January 1, 2019, and presented in this report are from the most recent testing performed in accordance with the laws, rules and regulations.

WATER QUALITY TEST RESULTS FOR SUN RESORT

Radioactive Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Alpha Emitters	(pCi/L)	MAY'15	No	3.2	N/A	0	15	Erosion of natural deposits
Radium 226 + 228	(pCi/L)	MAY'16	No	3.2	N/A	0	5	Erosion of natural deposits

Inorganic Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Arsenic	(ppb)	OCT '18	No	0.3	N/A	N/A	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	(ppm)	OCT '18	No	0.0025	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chromium	(ppb)	OCT '18	No	1.7	N/A	100	100	Discharge from steel and pulp mills; erosion of natural deposits
Nitrate (as Nitrogen)	(ppm)	FEB - OCT '19	No	5.90	5.43 - 5.90	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium	(ppm)	OCT '18	No	15	N/A	N/A	160	Salt water intrusion; leaching from soil

Stage 2 Disinfectants and Disinfection By-Products

Disinfectant or Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL or MRDL Violation Yes / No	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine	(ppm)	2019	No	0.9	0.4 - 1.2	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Total trihalomethane (TTHM)	(ppb)	AUG '18	No	5.07	N/A	N/A	MCL = 80	By-product of drinking water disinfection

Lead and Copper (Tap Water)

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	AL Violation Yes / No	90th Percentile Result	No. of Sampling Sites Exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper	(ppm)	JUL '18	No	0.145	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

In the table you may find unfamiliar terms and abbreviations. To help you better understand these terms we have provided the following definitions (please note not all definitions may pertain to your report):

- Action Level (AL) – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are
- set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial growth.
- Maximum Residual Disinfectant Level Goal (MRDLG) – The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.
- ND – This abbreviation means not detected and indicates that the substance was not found by laboratory analysis.
- Parts per million (ppm) or milligrams per Liter (mg/L) - one part of analyte (by weight) to 1 million parts of water sample (by weight).
- Parts per billion (ppb) or micrograms per Liter (µg/L) - one part of analyte (by weight) to 1 billion parts of water sample (by weight).
- Picocurie per liter (pCi/L) - measure of the radioactivity in water.

What does this mean?

As you can see from the table we had no violations of water quality. However, we did incur a violation for late monitoring and reporting of one of the Volatile Organic Contaminants, 1,2,4-trichlorobenzene. We completed 3 of 4 quarters for this contaminant and all results were satisfactory. Some people who drink water containing 1,2,4-trichlorobenzene in excess of the MCL over many years could experience changes in their adrenal glands. Additionally, the level for Nitrate was elevated above one-half of the allowable limit for samples collected in 2019. Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health care provider. We will continue to perform required monitoring quarterly for Nitrate and keep you informed of the results.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Sunshine Utilities is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals, and in some cases radioactive material, and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

A.) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

B.) Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

C.) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

D.) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

E.) Radioactive contaminants, which may be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The FDA (Food & Drug Administration) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care providers about their drinking water. EPA/CDC (Center for Disease Control) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are also available from the Safe Drinking Water Hotline (800-426-4791).

We are committed to ensuring the quality of your water. If you have any questions or concerns about the information provided, please feel free to call the numbers listed.

APPENDIX E: SANITARY SURVEY REPORT

State of Florida
Department of Environmental Protection
Central District

SANITARY SURVEY REPORT

Plant Name **OAKCREST VILLAS/SUN RESORT** County Marion PWS ID # **3421201**
Plant Location CR 326 & 71st Place, Ocala, FL 34471 Phone 352/347-8228
Owner Name Sunshine Utilities of Central Florida, Inc. Phone 352/347-8228
Owner Address 10230 SE Highway 25, Belleview, FL 34420-5531
Contact Person Dewaine Christmas Title Owner Phone 352/347-8228
This Survey Date 1/23/18 Last Survey Date 8/9/15 Last Compliance Inspection Date 8/29/14

PWS TYPE: Community

PLANT CATEGORY & CLASS: 5D

MAX-DAY DESIGN CAPACITY: 21,600 gpd

PWS STATUS: Approved

TREATMENT PROCESSES IN USE
Hypochlorination

SERVICE AREA CHARACTERISTICS
Apartments
Food Service: ☐ Yes ☐ No ☒ N/A

Number of Service Connections 32
Population Served 80 Basis 12/17 MOR

OPERATION & MAINTENANCE LOG: Yes
Location Water treatment plant
Comments

CERTIFIED OPERATOR: Yes
Operator(s) & Certification Class-Number:
Kelvin Edun C-7459

Hrs/day: *Required* Visit *Actual* Visit
Days/wk: *Required* 2 *Actual* 3
Non-consecutive Days? ☒ Yes ☐ No ☐ N/A
Comments

MONTHLY OPERATION REPORTS (MORs)
MORs submitted regularly? ☒ Yes ☐ No ☐ N/A
Data missing from MORs? ☒ No ☐ Yes ☐ N/A
Average Day (from MORs) 4,513 gpd
Maximum Day (from MORs) 6,400 gpd 11/17
Comments

Flow Measuring Device Flow Meter
Meter Size & Type 2" Master
Date Last Calibrated 8/4/16

RAW WATER SOURCE
☒ GROUND; Number of Wells 1
☐ PURCHASED from PWS ID #
☐ Emergency Water Source
Emergency Water Capacity

STANDBY POWER SOURCE: Not Required
Source
Capacity of Standby (kW)
Switchover: ☐ Automatic ☐ Manual
Hrs Operated Under Load
What equipment does it operate?
☐ Well Pumps
☐ High Service Pumps
☐ Treatment Equipment
Satisfy avg. daily demand? ☐ Yes ☐ No ☐ Unknown
Audio-visual alarm? ☐ Yes ☐ No
Comments

PLANS AND MAPS

Coliform Sampling Plan	☒ Yes	☐ No	☐ N/A
D/DBP Monitoring Plan	☒ Yes	☐ No	☐ N/A
Lead and Copper Plan	☒ Yes	☐ No	☐ N/A
Distribution System Map	☒ Yes	☐ No	☒ N/A
Emergency Response Plan	☒ Yes	☐ No	☒ N/A

Comments

PREVENTIVE MAINTENANCE/O&M

Operation & Maintenance Manual	☒ Yes	☐ No	
Preventive Maintenance Program	☒ Yes	☐ No	
Flushing Program	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A
Isolation Valve Exercise	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A

Comments

CROSS CONNECTION CONTROL
BFPAs None observed # Tested N/A
WWTP RPZ N/A Date Tested N/A
Written Plan Yes Date Unknown
Comments

PWS ID # 3421201
Date 1/23/18

GROUND WATER SOURCE

Well Number (Florida Unique Well ID #)		**1 (AAE0075)**			
Year Drilled		1974			
Depth Drilled		100’			
Drilling Method		Unknown			
Type of Grout		Unknown			
Static Water Level		Unknown			
Pumping Water Level		Unknown			
Design Well Yield		Unknown			
Test Yield		Unknown			
Actual Yield (if different than rated capacity)		Unknown			
Strainer		Unknown			
Length (outside casing)		70’			
Diameter (outside casing)		4”			
Material (outside casing)		Black steel			
Well Contamination History		None			
Is inundation of well possible?		No			
6’ X 6’ X 4” Concrete Pad		Yes			
SET BACKS	Septic Tank	>200’			
	Reuse Water	N/A			
	WW Plumbing	>100’			
	Other Sanitary Hazard	None observed			
PUMP	Type	Submersible			
	Manufacturer Name	Sta-Rite			
	Model Number	Unknown			
	Rated Capacity (gpm)	30			
	Motor Horsepower	2			
Well casing 12” above grade?		No*			
Well Casing Sanitary Seal		Yes			
Raw Water Sampling Tap		Yes			
Above Ground Check Valve		Yes			
Security		Yes			
Well Vent Protection		N/A			

COMMENTS *The Department will continue to accept the well casing height as it currently exists unless it is shown to contain chemical or microbial contamination.

PWS ID # 3421201
Date 1/23/18

CHLORINATION (Disinfection)
Type: ☐ Gas ☒ Hypo
Make Chem-tech Capacity 15 gpd
Chlorine Feed Rate 50% stroke
Avg. Amount of Cl_2 gas used N/A
Chlorine Residuals: Plant 0.53 Remote 0.83
Remote tap location 1642 71st Place
DPD Test Kit: ☐ On-site ☒ With operator
☐ None ☐ Not Used Daily
Injection Points Prior to hydropneumatic tank
Booster Pump Info N/A
Comments

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

Tank Type/Number	**H**
Capacity (gal)	300
Material	Steel
Gravity Drain	Yes
By-Pass Piping	Yes
Protected Openings	Yes
Sight Glass or Level Indicator	Yes
PRV/ARV	ARV
Pressure Gauge	Yes
On/Off Pressure	40/60
Access Secured	Yes
Access Manhole	No
Tank Sample Tap Location	Discharge piping
Date of Inspection	N/A
Date of Cleaning	N/A

Comments

DEFICIENCIES:

No deficiencies were noted during this inspection.

MONITORING REMINDER:

- Nitrate and nitrite samples are required to be collected from the point of entry (POE) to the distribution system annually. The 2018 results have not been received.
- The consumer confidence report (CCR) must be delivered to consumers and the Department no later than July 1, 2018, and certification of delivery of the CCR must be submitted to the Department no later than August 10, 2018.
- Monitoring schedules are available on the Central District's Drinking Water Website. https://floridadep.gov/central/central/content/resources-drinking-water-facilities-and-operators-central-district

COMMENTS:

- Contact FRWA (Florida Rural Water Association) at 850-668-2746, or frwa@frwa.net, for free technical assistance with your system. FRWA has extended benefits offered to members.
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.

  Checking the calibration of finished-drinking-water meters at treatment plants shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water. [Rule 62-555.350(2), F.A.C.]
- Suppliers of water shall submit written notification to the Department before beginning work or alterations to the public water system. Each notification shall be submitted to the appropriate Department of Environmental Protection District Office or Approved County Health Department and shall include the following: a description of the scope, purpose, and location of the work or alterations; and assurance that the work or alterations will comply with applicable requirements listed in Rule 62-555.330, F.A.C. Suppliers of water may begin such work or alterations 14 days after providing notification to the Department unless they are advised by the Department that the notification is incomplete or that a construction permit is required.
- Suppliers of water shall telephone the SWO at 1-800-320-0519 immediately (i.e., within two hours) after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving a public water system. [Rule 62-555.350(10)(a), F.A.C.]
- Suppliers of water shall telephone, and speak directly to a person at, the appropriate DEP District Office as soon as possible, but never later than noon of the next business day, in the event of any of the following emergency or abnormal operating conditions:
  - The occurrence of any abnormal color, odor, or taste in a public water system's raw or finished water;
  - The failure of a public water system to comply with applicable disinfection requirements; or
  - The breakdown of any water treatment or pumping facilities, or the break of any water main, in a public water system if the breakdown or break is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(b), F.A.C.]
- Suppliers of water shall notify affected water customers in writing or via telephone, newspaper, radio, or television; and telephone, and speak directly to a person at, the appropriate DEP District Office by no later than the previous business day before taking PWS components out of operation for planned maintenance or repair work if the work is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(d), F.A.C.]

PWS ID # 3421201
Date 1/23/18

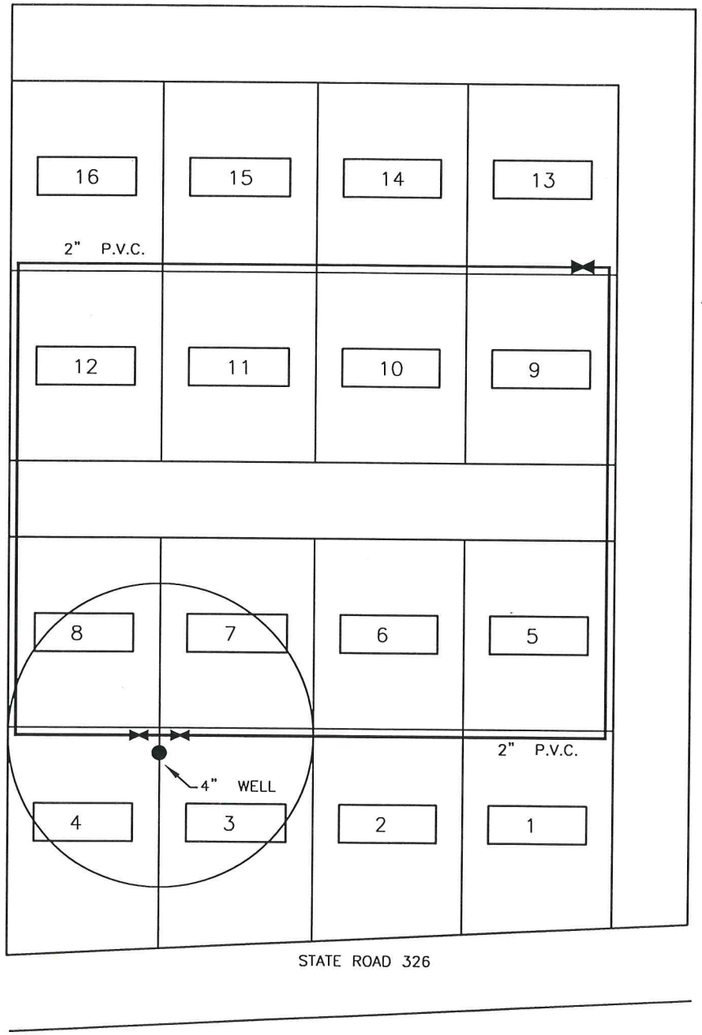
COMMENTS (continued):

- Suppliers of water shall issue precautionary "boil water" notices as required or recommended in the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(11), F.A.C.]

Inspector Signature	*Reviewer Signature*
Viviana Penuela Useche	Christine Daniel
Printed Name	*Printed Name*
Environmental Specialist	Environmental Manager
Title	*Title*
2-21-18	3/1/18

APPENDIX F: DISTRIBUTION MAP

SUTTONS DUPLEX
WATER DISTRIBUTION
SYSTEM



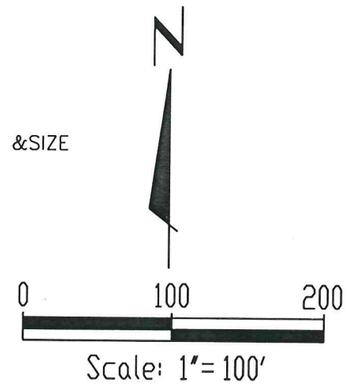
LEGEND

2" P.V.C. EXISTING WATER MAIN &SIZE

● WELL LOCATION

2" GATE VALVE

BLOW-OFF VALVE



NOTE: THIS PLAN REPRESENTS A COMPILATION OF ENGINEERING PLANS AND SPECIFICATIONS FROM THE FILES OF SUNSHINE UTILITIES, INC.

H. W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17TH ST. SUITE 602 OCALA, FLORIDA 34471
PH (352) 840-0636 FAX (352) 840-0774

SUTTON'S DUPLEX
SUNSHINE INDUSTRIES INC.
OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PMM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9636-02

1

Sheet 1 Of 1



woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Oakhurst
Subdivision

210 South Florida Avenue | Suite 220
Lakeland, Florida 33801
800.426.4262

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

0233748.01
CSWR
July 2021

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APPENDIX A: SOURCE WATER ASSESSMENT & PROTECTION PROGRAM RESULTS

Source Water Assessment & Protection Program

Results for: 2019

OAKHURST SUBDIVISION
20TH STREET AND SE 56TH COURT
OCALA, FL 34471

Public Water System ID: 3424032
County: MARION
DEP Regulatory Office: DEP Central District
3319 Maguire Blvd, Suite 232
Orlando, FL 32803
407-897-4100
Public Water System Type : COMMUNITY
Public Water System Source : GROUND
Primary Use: SUBDIVISION
Population Served: 346
Size of Assessment Area:
GROUND: For this system, a 1000-foot radius circle around each well was used to define the assessment area.

Number of Wells: 1

Well ID	Owner ID	FLUWID	Status	Well Depth(ft)	Aquifer
5797	6"/138'/105'	AAE0256	ACTIVE	138	Floridan Aquifer

Results:

GROUND WATER:

Number of Unique Potential Contaminant Sources: 1

Facility Type	Facility Class	Status	Name	Affected Well	Susceptibility Score	Concern Level
PETROLEUM STORAGE TANK	PETROLEUM CONTAMINATION	OPEN	CIRCLE K #2722328	5797	33.33	MODERATE

Last updated: February 19, 2020

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3900 Commonwealth Boulevard M.S. 49
Tallahassee, Florida 32399
850-245-2118 (phone) / 850-245-2128 (fax)

APPENDIX B: EMERGENCY RESPONSE PLAN

Disaster-Specific Preparedness/Response Plan

for Public Drinking Water Systems

Per Chapter 62-555.350 (15) F.A.C.

Sunshine Utilities
OAKHURST

Address:	10230 East Hwy. 25 Belleview, FL 34420
Phone:	352-347-8228
Fax:	352-347-6915
Contact:	Dewaine Christmas, Manager
E-mail:	SunshineUtl@AOL.COM
Connections:	109
PWS:	3424032
County:	Marion

May 17, 2013

Department of Environmental Protection
Michael D. LeRoy, P.E.
John R. Sowerby, P.E.

FRWA Security Staff
Sterling L. Carroll, P.E.
Ken Klos, P.E.
Coy Donaldson

For more information or additional copies of this document contact:

FLORIDA RURAL WATER ASSOCIATION
2970 Wellington Circle ~ Suite 101 ~ Tallahassee
Telephone: 850-668-2746 ~ Fax: 850-893-4581
e-mail: FRWA@frwa.net

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This template and guide has been developed by the Florida Rural Water Association (FRWA) in collaboration with the Washington State Department of Health, Office of Drinking Water, Olympia, Washington; and reviewed by Florida Department of Environmental Protection.

Acknowledgment of federal government support of this project:

This project and the preparation of this booklet was funded in part by a Water Protection Coordination grant from the Environmental Protection Agency through an agreement/contract with the Drinking Water Program of the Department of Environmental Protection. Total cost of the project was $3,000 of which $3,000 or 100 percent, was provided by the U.S. Environmental Protection Agency.

Preface
Chapter 62-555.350 (15) FAC

Disaster-Specific Preparedness/Response Plans

(15) Suppliers of water who own or operate a community water system serving, or designed to serve, 350 or more persons or 150 or more service connections shall develop a written emergency preparedness/response plan in accordance with Emergency Planning for Water Utilities, AWWA Manual M19, as adopted in Rule 62-555.335, F.A.C., by no later than December 31, 2004, and shall update and implement the plan as necessary thereafter. Said suppliers of water shall coordinate with their Local Emergency Planning Committee and their Florida Department of Law Enforcement Regional Security Task Force when developing their emergency plan and shall include in their plan all of the information in paragraphs (a) through (e) below.

(a) A Communication Charts as described in Chapter 5 of AWWA Manual M19.

(b) Written agreements with other agencies, utilities, or response organizations.

(c) A disaster-specific preparedness/response plan as described in Chapter 5 of AWWA Manual M19 for each of the following disasters: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release. Each disaster-specific preparedness/response plan shall incorporate the results of a vulnerability assessment; shall include actions and procedures, and identify equipment, that can obviate or lessen the impact of such a disaster; and shall include plans and procedures that can be implemented, and identify equipment that can be utilized, in the event of such a disaster.

(d) Details about how the water system meets the standby power requirements under subsection 62-555.320(14), F.A.C., and, if applicable, recommendations regarding the amount of fuel to maintain on site, and the amount of fuel to hold in reserve under contracts with fuel suppliers, for operation of auxiliary power sources.

(e) If applicable, recommendations regarding the amount of drinking water treatment chemicals, including chemicals used for regeneration of ion-exchange resins or for onsite generation of disinfectants, to maintain in inventory at treatment plants.

Specific Authority 403.861(9) FS. Law Implemented 403.852(12), 403.853(6), 403.861(17) FS. History-New 11-19-87, Formerly 17-22.650, Amended 1-18-89, 1-1-93, Formerly 17-555.350, Amended 8-28-03.

Time Extension for Submitting/Completing ERP – December 31, 2005

From: Hoofnagle, Van
Sent: Thursday, October 21, 2004 11:25 AM
Subject: Time Extension for Submitting/Completing ERP
Importance: High

I am sending this e-mail because of possible confusion in some FDEP District Offices or ACHDs regarding the deadline for compliance with the emergency preparedness/response plan requirements in FAC subsection 62-555.350(15).

As John Sowerby and other staff mentioned during Focus On Change presentations early this year on FAC Rule 62-555.350 and during training this summer on the recent amendments to FAC Chapter 62-555, the FDEP intends to amend FAC subsection 62-555.350(15) to give all affected community water systems (i.e., all community water systems serving 350 or more persons or 150 or more service connections) **until the end of 2005** instead of the end of this year to complete a comprehensive emergency preparedness / response plan as required by FAC subsection 62-555.350(15). At this point, it will likely be after the end of this year before we officially make this change to FAC subsection 62-555.350(15). In the meantime, please do not take any enforcement action against

community water systems who fail to meet the 12/31/04 deadline in FAC subsection 62-555.350(15). Thanks.

Van Hoofnagle
DEP Drinking Water Administrator

Section 1
Communication Charts

The first response step in any emergency is to inform the person at the top of this list, who is responsible for managing the emergency and making key decisions. List the water system chain of command in order of contact.

Water System Chain of Command – Lines of Authority

Order	Name & Title	Responsibilities During an Emergency	Contact Information
1	Dewaine Christmas Manager	Responsible for overall management and decision making. The manager is the lead for managing the emergency and providing information to regulatory agencies. All communications to external parties are to be approved by the manager.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl@AOL.Com
2	James Hodges Jr. Field Supervisor	Responsible for decision making in the field. In charge of overall maintenance, and repairs to all components of water system.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl @AOL.Com
3	Kelvin Edun Water Treatment Plant Operator	Responsible for running water treatment plant, performing inspections, maintenance, sampling and relaying all critical information to Field Supervisor.	Phone: Cell: 352-875-5141 Email:
4	Pamela Christmas Office	Responsible for assisting the manager in administrative duties and emergencies.	Phone: 352-347-8228 Cell: 352-245-4743 Email:
5			Phone: Cell: Email:
6			Phone: Cell: Email:
7			Phone: Cell: Email:

Emergency Notification

Notification call-up lists - Use these lists to notify important parties of an emergency.

Emergency Notification List

Organization or Department	Name & Position	Telephone	Cell Phone	e-mail
State Warning Point	**Duty Officer**	**800-320-0519**	800-320-0519	N/A
Local Law Enforcement	EOC Commander	352-622-3205		Pstefanski@sheriff.marioncountyfl.org
Fire Department		911		
Emergency Medical Services		911		
Water Operator (if contractor)	Kelvin Edun Operator	352-875-5141		
County Health Department	Tom Moore Director of Environmental Health	352-622-7744	352-266-7486	
DEP District Office	Manny Cardona	407-897-4134	Fax 407-893-4418	
County Emergency Management Dept.	Chip Wildy	352-622-3205		
Local Leader (City Mgr., Mayor, Chair. Co. Comm., etc.)				
Local Hazmat Team (if any)		911		
Hazmat Hotline		911		
National Spill Response Center.	Duty Officer	800-424-8802	800-424-8802	N/A
Interconnected Water System(s)				
Neighboring Water System (not connected)				
FRWA Water Circuit Rider	Tom Gustafson	850-668-2746	352-267-1302	

Priority Customers

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Hospital Or Clinic(s)				
Nursing Home(s)				
Public Schools				
Private Schools				
Wastewater Treatment Plant				
Food Processing Or Other Industry				

Service / Repair Notifications

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Electric Utility Co.	City of Ocala	352-651-6666		
Electrician	Melville Electric	352-245-0600		
Gas / Propane Supplier	Belleview Gas	352-245-6055		
Water Testing Lab.	Aqua Pure Lisa Saupp	352-625-2822		
Sewer Utility Co.				
Telephone Co.	Sprint	800-788-3600	611	
Plumber	ACP	352-427-7036		
Pump Supplier	Coast Pump	352-620-0616	352-266-4277	Coastpumpocal@hotmail.com
"Dig Safe" or "One Call"	Sunshine One Call	800-432-4770		

Service / Repair Notifications				
Organization Or Department	**Name & Position**	**Telephone**	**Cell Phone**	**email**
Rental Equip. Supplier	B&M Rental	352-245-3133	352-245-9800	
Chlorine Supplier	Custom Controls	352-622-9244	352-304-0572	
Other Chemical Suppliers				
Radio/SCADA Repair Co.				
Bottled Water Service				
Bulk Water Supplier				
Well Drilling Co.	Earls Well Drilling Jeremy	352-245-2324	352-817-0502	
Pipe Supplier	National Water Works Roy Sands	352-351-8144	352-266-4705	

Designated Public Spokesperson and Alternates

Designate a spokesperson (alternates) for delivering messages to the news media & public

Public Spokesperson	Name & Position	Telephone	Cell Phone
Spokesperson	Dewaine Christmas Manager	352-347-8228	352-239-1198
Alternate 1	James Hodges Jr. Supervisor	352-347-8228	352-239-1197
Alternate 2			

Key Messages

Develop possible messages in advance, and update them as the emergency develops
▪ We are aware of the emergency and are working diligently to restore your water service.

- If you fall under a boil water notice you must bring water to a rolling boil for a period of at least one minute. You only have to boil water for human cunsumption.

-

Health Advisories – Boil Water Notices

Use the assistance of your County Health Department and/or District FDEP office, and FDEP's Mandatory Health Effects Language, located on FDEP's website at:

http://www.doh.state.fl.us/environment/water/manual/boil.htm

http://www.DEP.state.fl.us/water/drinkingwater/rules.htm,

and click on "Mandatory Health Effects Language"., PLUS EPA's templates at:

http://epa.gov/safewater/pn.html

Click on "Microsoft Word and Word Perfect files of PN templates" (PN means Public Notifications), then determine which "Tier" of notifications is needed and click on the desired software to receive them in.

Section 2
Written Agreements With Other Agencies, Utilities, or Response Organizations

INSERT BELOW information regarding any written agreements with other agencies, utilities, or response organizations, such as emergency interconnects, mutual aid or FlaWARN.

Emergency Interconnect(s)

Information on the location of interconnection(s) (if any), type and size of interconnecting pipe, pumps and accessory equipment, meters at interconnection(s), normal pressures at both ends of interconnection, volume of water from interconnection(s), type of agreement and approvals needed for use, procedures necessary to use interconnection, etc.

Location (Street)	
Location (GPS)	
Description	

Memoranda of Understanding

Organization	
Summary of Understanding	

Mutual Aid Agreements

Organization	Marion Utilities, 352-622-1171
Summary of Understanding	Will render mutual aide – ie: pumps, generators, and other materials necessary to restore water service.

FlaWARN

Organization	
Summary of Understanding	

Section 3
Disaster-Specific Preparedness/Response Plan

Your disaster-specific preparedness/response plan must include a Vulnerability Assessment and preparedness / response plans for: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release.

In any event there are a series of general steps to take:

1. Confirm and analyze the type and severity of the emergency.
2. Take immediate actions to save lives.
3. Take action to reduce injuries and system damage.
4. Make repairs based on priority demand.
5. Return the system to normal operation.

Vulnerability Assessment

It is essential that water systems identify and assess the vulnerability of each system component for both natural and human-caused emergencies, before preparing their disaster-specific preparedness/response plans. Prepare your Vulnerability Assessment by completing the table below:

Facility Vulnerability Assessment

System component	Description and condition	Vulnerability	Security improvements (indicate existing or proposed)
Raw Water Sources	(1) 6" groundwater wells located several hundred feet from homes. Wells are in good condition. We have wellhead protection in place.	The well is most vulnerable to above ground activities because it is only 138 ft deep.	1.Purchase land surrounding well. 2. Secure well house to foundation and install lighting around well house.
Pump-house and pumping facilities	The pump-house and pumping facility are in good condition.	Pump location is fully fenced with a locked gate.	Install tamper proof padlocks.
Treatment Facilities	There is a hypo-chlorination system inside of pump house. System is in good condition.	Chlorination systems are not subject to power outages.	There is a backup generator on site in compliance with CH. 62-555.320(14)FAC
Storage Facilities	Hydro pneumatic tank is fenced in good condition.	Tank is not in a lighted area.	Install lighting in area of tank.
Computer and telemetry systems	Computers are in utilities main office and are in good condition.	Computers should be better protected against cyber attack or hacking.	Secure computers with firewalls & virus protection.

A. Vandalism or Sabotage Response Procedures

1. Utility staff first aware of incident:
    a) Calls 9-1-1/ Local Law Enforcement.
    b) Calls Manager
2. Manager determines severity of incident.
    a) Field supervisor determines if vandalism or sabotage will effect the water quality.
    b) Manager reports incident to the state warning point.
3. Field supervisor directs repairs as needed.
    a) Complete repairs
    b) Update ERP as needed.

B. Drought Response Procedures

Include water use restrictions per Consumptive Use Permit

1. Manager coordinates with the local Water Management District (WMD) regarding drought conditions.
    a) If drought conditions exist, a water conservation plan will be initiated.
    b) Literature will be distributed to customers regarding the drought.
    c) Conservation material will be distributed to customers on conservation measures.
    d) Customers not abiding by restrictions will be reported to WMD.
    e) Manager updates ERP as needed.

C. Hurricane Preparedness & Response Procedures

Pre- Hurricane **(36 to 48 hrs prior to arrival)**	1. Manager coordinates with local EOC. 2. Field supervisor checks operation of standby power. 3. Field supervisor secures fuel and treatment chemicals for a 10 day period. 4. Manager replenishes inventory of spare parts.
Hurricane Watch **(24 to 36 hrs prior to arrival)**	1. Manager cancels all time off for employees. 2. Manager issues work assignments in advance in case of communication loss. 3. Employees all top off fuel in vehicles & standby generators. 4. Manager authorizes employees to secure their personal property and arrange for the safety of family members.
Hurricane Warning (24hrs or less prior to arrival)	1. Employees report to designated areas and wait for instructions. 2. Employees load truck with supplies. 3. Employees follow evacuation protocol.
Recovery Procedures	1. Manager coordinates with local EOC. 2. Manager issues boil water notices if needed. 3. Field supervisor coordinates repairs. 4. Manager makes contact with the appropriate DEP office. 5. After repairs are completed samples are taken. 6. When samples come back clear – boil water notice is lifted. 7. Manager files all malfunction reports with the DEP. 8. Field supervisor inspects all systems to make sure everything is running smooth.

D. Structure Fire Response Procedures

1. Utility staff discovering fire:
    a) Evacuate structure on fire.
    b) Call 9-1-1
2. Manager determines severity of incident.
    a) Manager contact State Warning Point.
    b) Field supervisor coordinates repairs when fire is extinguished.
3. Field supervisor reports to manager when repairs are complete.
    a) Manager reports completion of all repairs to any Gov. agency.
    b) Manager updates ERP as needed.

E. Flood Preparedness & Response Procedures

(Is any critical part of your system in a flood prone area?)

None of our systems are in a flood prone area.

F. Forest or Brush Fire Response Procedures

(Is any critical part of your system subject to forest or brush fires?)

1. Utility staff discovering fire.
    a) Orders evacuation of any threatened buildings.
    b) Calls 9-1-1 to report fire.
2. Manager determines the severity of fire.
    a) Manager contacts the State Warning Point.
    b) Field supervisor inspects for any damage and coordinates repairs after fire is extinguished.
3. Field supervisor reports to manager that all repairs are complete.
    a) Manager updates the ERP as needed.
    b)

G. Hazardous Material Release Response Procedures

Do you have any hazardous material (chlorine gas) at your water system?

We have no Hazardous materials at any of our water systems.

H. Other Disaster Response Procedures

Are there other disasters that you want to prepare for, such as a Contamination event, SCADA Attack, or Structural Damage from an Intentional Act?

Contamination

1.
   a)
   b)
2.
   a)
   b)

SCADA Attack

1.
   a)
   b)
2.
   a)
   b)

Structural Damage from an Intentional Act

1.
   a)
   b)
2.
   a)
   b)

Section 4
Standby Power Requirements

Include details about how the water system meets the standby power requirements as described in Ch. 62-555.320(14), and 62-555.350(15)(d) FAC for water source, treatment, and pumping facilities necessary to deliver drinking water at a rate at least equal to the Average Daily Water Demand.

Standby Power for Wells or Surface Water Intakes

Standby Power (or by alternate means) to OPERATE WELLS at Average Daily Demand

Average Daily Demand (ADD) in gpd or gpm	21,141 gpd
Wells Needed to Supply Average Daily Demand	1
Standby Generator (kW) Needed for ADD &	45 KW
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	We will have reserve fuel in the case of an emergency.

Standby Power for Treatment Facilities

Standby Power (or by alternate means) to TREAT WATER at Average Daily Demand

Treatment Units Needed to Supply ADD	
Standby Generator (kW) Needed to Treat ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Standby Power for Pumps

Standby Power (or by alternate means) to PUMP WATER at Average Daily Demand

Pumps Needed to Supply ADD	
Standby Generator (kW) Needed to Pump ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Section 5
Drinking Water Treatment Chemicals & Disinfectants

Include recommendations regarding the amount of drinking water treatment chemicals, to maintain in inventory at treatment plants. Do not just list chemical storage capacity, but instead recommend the minimum amount of chemicals to maintain in inventory, which depends upon the location and reliability of chemical suppliers, the status of impending disasters, etc.

Disinfection Treatment Information

Disinfection Chemical(s)	Chemical / Location No. 1	Chemical / Location No. 2
Type of Chemical	Chlorine	
Type of Chemical Feed	Hypo-Chlorinator	
Chemical Storage Location	On site in the pump house.	
Recommended Minimum Amount to be Maintained in Storage (gal)	55 gallons	

Other Chemical Information

Chemical(s) Used	Chemical #1	Chemical #2	Chemical #3	Chemical #4
Type of Chemical				
Type of Chemical Feed				
System Location				
Chemical Storage Location				
Recommended Minimum Amount to be Maintained in Storage (gal)				

Appendix A
Basic System information

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Keep this basic information readily available for when you need it for emergency responders, repair people, the news media and potentially, an emergency operator.

Basic System Information

GPS coordinates will help emergency crews find your system following a major catastrophe.

System identification number (PWS ID)	**3424032**	
System name and address	**Oakhurst**	
GPS Coordinates	Latitude:	Longitude:
Basic description and location of system facilities	**SE 20TH ST**	
Population served and service connections.	Population =	Connections =109
System Owner	**Sunshine Utilities of Central Florida, Inc.**	
Management Authority	**Owner and Manager**	
Name, title, and phone numbers of person responsible for maintaining and implementing the ERP.	**Dewaine Christmas** **Manager**	**352-347-8228 phone** **352-239-1198 cell**

System Demand

Demand based on Monthly Operational Records and system capacity based on Sanitary Survey.

Average Daily Demand (gpd)	21141 GPD
Maximum Daily Demand (gpd)	49200 GPD
System Capacity (gpd)	288000 GPD
Peak Hour Demand (gpm)	N/A

Location of Pertinent Information

Item	Location
Distribution System Map	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
O&M Manual(s)	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
Start-Up / Shut-Down Procedures	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.

Well Information

GPS coordinates will help emergency crews find wells following a major catastrophe.

Well Information	Well No. 1	Well No. 2	Well No. 3	Well No. 4
GPS well tag #				
Location (street)	SE 20TH ST			
GPS Coordinates	Lat: Long:		Lat: Long:	Lat: Long:
Well Depth (ft)	105 FT			
Well Yield (gpd)	288000 GPD			
Pump Type	Submersible			
Manufacturer	Sta-Rite			
Capacity (gpm)	230 GPM			
Motor Manufacturer	Franklin			
Horsepower	7.5 HP			
Phase	3			
Volts/Amps	230 volts			

Surface Water Sources

GPS coordinates will help emergency crews find surface water intakes following a major catastrophe.

Surface Water Information	Intake No. 1	Intake No. 2
Location (Street / Description)		
GPS Coordinates	Lat: Long:	Lat: Long:
Critical Water Level		

Finished Water Storage

GPS coordinates will help emergency crews find tanks following a major catastrophe.

Name of Storage Unit	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Location (Street)				
Location (GPS)	Lat: Long:	Lat: Long:	Lat: Long:	Lat: Long:
Type (ground, elevated, etc.)				
Capacity (gal)				
Empty Elevation				
Overflow Elevation				

High Service Pumps

HSP	HSP No. 1	HSP No. 2	HSP No. 3	HSP No. 4
Location (street)				
Pump Type				
Manufacturer				
Capacity (gpm)				
Motor Manufacturer				
Horsepower				
Phase				
Volts/Amps				

Other Applicable Information

Appendix B
Training and Rehearsals

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Event	Description	People & Organizations Involved	Date

Appendix C
Plan Approval

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Plan Approval

This plan is officially in effect when reviewed, approved, and signed by the following people:

Name / Title	Signature	Date
Hodges Family Trust		

APPENDIX C: CONSUMER CONFIDENCE REPORT

Certification of Delivery of Consumer Confidence Report

GENERAL INSTRUCTIONS: This form shall be completed by all community water systems (CWSs) that have prepared a Consumer Confidence Report (CCR) in accordance with Rule 62-550.824, F.A.C., Consumer Confidence Reports. At the end of this form is a certification in which a system's authorized representative shall certify that the reported information is accurate and is in conformance with Rule 62-550.824, F.A.C. **COMPLETE THIS FORM AND SUBMIT IT BY AUGUST 10,** together with a copy of your system's CCR, sample email or water bill (with URL notification of CCR, if applicable), and any newspaper notice(s) and posted notice(s) of your CCR, to the appropriate DEP district office or Approved County Health Department (ACHD). Systems serving 100,000 or more persons posting their CCRs on publicly accessible Internet sites shall provide the information on the appropriate Internet link(s). All information provided on this form must be typed or printed in ink.

I. General Water System Information. (To be completed by all community water systems.)

System name: Oak Hurst Contact person: Dewaine Christmas

PWS Identification number (PWS ID): 3424032 Contact phone number: (352)347-8228

Mailing address: 10220 East Hwy 25 City: Belleview

State: Fl Zip: 34420-5531 Population served (not the number of "service connections"): _____

II. CCR Distribution Method. (To be completed by all community water systems. Choose A or B as appropriate.)

☐ A. We mailed, emailed, or otherwise directly delivered a copy of our CCR to each customer on _____ (enter date(s) of mailing or delivery) using the method(s) checked below:

- ☐ a. **Mailed** CCR
- ☐ b. **Mailed** notice (e.g. water bill) with **direct URL** to the CCR
- ☐ c. **Emailed** CCR as an **embedded** image or as an **attachment**
- ☐ d. **Emailed** notice with a **direct URL** to the CCR
- ☐ e. **Otherwise directly delivered** CCR to every customer. Explain: _____

☑ B. We were eligible to use a mailing waiver and used a mailing waiver. (Systems are eligible to use a mailing waiver only if they serve fewer than 10,000 persons, have not had any MCL or monitoring and reporting (M/R) violations, nor have been issued any formal Notices of Violations (NOVs), Consent Orders, Administrative Orders, or court-ordered civil actions during the calendar year before the year the CCR is due to the customers).

Answer a, b, **and** c below.)

- ☐ a. Date of newspaper: _____
- ☐ b. Name of newspaper/newsletter that published our CCR: _____
- ☑ c. A copy of our notice to customers, informing them that our CCR will not be mailed to them, is attached.

This notice was: ☑ mailed with bill; ☐ published in newspaper/newsletter; or ☐ other (describe)

_____

III. Posting of CCR on the Internet. (To be completed by all CWSs serving 100,000 or more persons.)

We posted our CCR on this publicly accessible internet site: _____

IV. Report on Your Effort to Distribute Your CCR to Your Water Consumers. (To be completed by all CWSs. Check all items that apply - at least one item must be checked.)

In addition to the methods selected in Part II,

■ A. We posted our CCR on this publicly accessible internet site: www.sunshineutilities.org

☐ B. We published our CCR in the local newspaper(s). The name(s) and date(s) of the newspaper(s) are:

_____

RECEIVED
JUL 10 2020
DEP Central District

☐ C. We advertised the availability of our CCR as a press release, radio announcement, or TV announcement. The type(s) and date(s) of the advertisement(s) are: _____

☐ D. We delivered multiple copies of our CCR to single bill addresses serving several persons.

☐ E. We delivered multiple copies of our CCR to the following community organizations:

_____

☐ F. Our CCR was posted in the following public locations: _____

_____

■ G. Our CCR was distributed by other methods (e.g., additional copies placed in entrance hall to facility). Describe.

Additional copies available at Sunshine Utilities Office

V. Use of Non-English Language in CCR. (To be completed by all community water systems.)

☐ Information in a non-English language was included in our CCR because 20% or more of our customers do not speak English but speak _____. The method we used to determine the proportion of non-English speaking customers is _____

■ This requirement does not apply to our system, because we have no non-English speaking group among our customers equal to or exceeding 20% of our total number of customers.

VI. Other Delivery Requirements. (To be completed by all community water systems.)

(A) Was a copy of your CCR sent to your county health department, as required by rule? ■ Yes ☐ No

(B) Is your system regulated by the Public Service Commission (PSC)? ☐ Yes ☐ No

If Yes, was a copy of your CCR sent to the PSC, as required by rule? ■ Yes ☐ No

(C) If your system sells water to other systems, have you provided them with either a copy of your CCR or the required consumer confidence information? ■ Yes ☐ No ■ Not Applicable

VII. Certification of Delivery of CCR and Compliance with Regulations. (To be completed by all CWSs.)

This statement certifies that the above named community public water system has distributed its CCR for the time period starting ***January 1, _____, and ending December 31, _____,*** to its customers on _____ (mm/dd/yy) and provided the appropriate notices of availability according to the requirements listed in this form, which are also found in Rule 62-550.824, F.A.C. This statement also certifies that the reported information is correct and consistent with the compliance monitoring data for the same period previously submitted to the Department, and that the report has been delivered to the agencies identified in Rules 62-550.824(3)(e)3., and 4., F.A.C.

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____

NAME (please print): Dewaine Christmas

TITLE: Manager DATE: 6/26/20

■ **A copy of our CCR is attached, and**

☐ **If using electronic delivery, a copy of our sample email or notice (e.g. water bill), with URL leading directly to the CCR and not a general information website, is attached. For example, if you are using the FRWA website to post your CCR, your URL would be:**

www.frwa.net/2012-Your PWSID Number.pdf (www.frwa.net/2012-0000000.pdf).

SUNSHINE UTILITIES
10230 East Highway 25
Belleview, Florida 34420

Drinking Water Quality Report

Annual Drinking Water Quality Report for 2019

Oak Hurst

Florida Department of Environmental Protection Public Water System ID # 3424032

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

The source of our water is groundwater from one well located in the community. The well draws from the Floridan aquifer, one of the world's most protected sources. Our water is chlorinated for disinfection purposes. In 2019 the Department of Environmental Protection performed a Source Water Assessment on our system. The assessment was conducted to provide information about any potential sources of contamination in the vicinity of our well. There is one potential source of contamination identified for our water system with a Moderate susceptibility level. The assessment results are available on the FDEP Source Water Assessment and Protection Program website at www.dep.state.fl.us/swapp.

If you have any questions about this report or concerning your water utility please contact **Dewaine Christmas, at Sunshine Utilities, (352) 347-8228**, during normal business hours. We encourage our valued customers to be informed about their water utility.

Sunshine Utilities routinely monitors for constituents in your drinking water according to Federal and State laws, rules and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2019. Data obtained before January 1, 2019, and presented in this report are from the most recent testing performed in accordance with the laws, rules and regulations.

WATER QUALITY TEST RESULTS FOR OAK HURST

Radioactive Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Radium 226 + 228	(pCi/L)	JUL'15	No	1.5	N/A	0	5	Erosion of natural deposits

Inorganic Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Arsenic	(ppb)	NOV '18	No	0.5	N/A	N/A	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	(ppm)	NOV '18	No	0.0044	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Cyanide	(ppb)	JUL '18	No	5.2	N/A	200	200	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride	(ppm)	NOV '18	No	0.12	N/A	4	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum levels between 0.7 and 1.2 ppm
Nitrate (as Nitrogen)	(ppm)	DEC'19	No	2.41	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium	(ppb)	NOV '18	No	0.9	N/A	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium	(ppm)	NOV '18	No	11	N/A	N/A	160	Salt water intrusion; leaching from soil

Stage 2 Disinfectants and Disinfection By-Products

Disinfectant or Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL or MRDL Violation Yes / No	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine	(ppm)	2019	No	1.2	0.6 - 2.4	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Total trihalomethane (TTHM)	(ppb)	AUG '18	No	1.39	N/A	N/A	MCL = 80	By-product of drinking water disinfection

Lead and Copper (Tap Water)

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	AL Violation Yes / No	90th Percentile Result	No. of Sampling Sites Exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper	(ppm)	JUL '18	No	0.285	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

In the table you may find unfamiliar terms and abbreviations. To help you better understand these terms we have provided the following definitions (please note not all definitions may pertain to your report):

- Action Level (AL) – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial growth.
- Maximum Residual Disinfectant Level Goal (MRDLG) – The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.
- ND – This abbreviation means not detected and indicates that the substance was not found by laboratory analysis.
- Parts per million (ppm) or milligrams per Liter (mg/L) - one part of analyte (by weight) to 1 million parts of water sample (by weight).
- Parts per billion (ppb) or micrograms per Liter (µg/L) - one part of analyte (by weight) to 1 billion parts of water sample (by weight).
- Picocurie per liter (pCi/L) - measure of the radioactivity in water.

What does this mean?

As you can see our system had no violations. We're very proud that your drinking water meets all Federal and State requirements.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Sunshine Utilities is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals, and in some cases radioactive material, and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

A.) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

B.) Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

C.) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

D.) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

E.) Radioactive contaminants, which may be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The FDA (Food & Drug Administration) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care providers about their drinking water. EPA/CDC (Center for Disease Control) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are also available from the Safe Drinking Water Hotline (800-426-4791).

We are committed to ensuring the quality of your water. If you have any questions or concerns about the information provided, please feel free to call the numbers listed.

Sunshine Utilities

10230 East Highway 25, Belleview, FL 34420
Office (352)347-8228 – Fax (352)347-6915

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality of water and services we deliver to you everyday. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

Please follow the link to view your 2019 Annual Water Quality Report.

https://www.sunshineutilities.org/ccr19/2019OakHurst.pdf

APPENDIX D: SANITARY SURVEY REPORT

State of Florida
Department of Environmental Protection
Central District

SANITARY SURVEY REPORT

Plant Name **OAKHURST SUBDIVISION** County Marion PWS ID # **3424032**
Plant Location 20TH Street & SE 56th Court, Ocala, FL 34471 Phone 352-347-8228
Owner Name Sunshine Utilities of Central Florida Inc Phone 352-347-8228
Owner Address 10230 SE Highway 25, Belleview, FL 34420-5531
Contact Person Dewaine Christmas Title Owner Phone 352-347-8228
This Survey Date 1/23/18 Last Survey Date 1/23/15 Last Compliance Inspection Date 8/29/14

PWS TYPE: Community

PLANT CATEGORY & CLASS: 5C

MAX-DAY DESIGN CAPACITY: 288,000 gpd

PWS STATUS: Approved

TREATMENT PROCESSES IN USE
Hypochlorination

SERVICE AREA CHARACTERISTICS
Subdivision
Food Service: ☐ Yes ☐ No ☒ N/A

Number of Service Connection 99
Population Served 346 Basis: 11/17 MOR

OPERATION & MAINTENANCE LOG: Yes
Location Water treatment plant
Comments

CERTIFIED OPERATOR: Yes
Operator(s) & Certification Class-Number:
Kelvin Edun C-7459

Hrs/day: *Required* Visit *Actual* Visit
Days/wk: *Required* 5+1 *Actual* 5+1
Non-consecutive Days? ☐ Yes ☐ No ☒ N/A
Comments

MONTHLY OPERATION REPORTS (MORs)
MORs submitted regularly? ☒ Yes ☐ No ☐ N/A
Data missing from MORs? ☒ No ☐ Yes ☐ N/A
Average Day (from MORs) 38,029 gpd
Maximum Day (from MORs) 60,400 gpd 5/17
Comments

Flow Measuring Device Flow Meter
Meter Size & Type 3" Master
Date Last Calibrated 8/18/16

RAW WATER SOURCE
☒ GROUND; Number of Wells 1
☐ PURCHASED from PWS ID #
☐ Emergency Water Source
Emergency Water Capacity

STANDBY POWER SOURCE: Not Required
Source
Capacity of Standby (kW)
Switchover: ☐ Automatic ☐ Manual
Hrs Operated Under Load
What equipment does it operate?
☐ Well Pumps
☐ High Service Pumps
☐ Treatment Equipment
Satisfy avg. daily demand? ☐Yes ☐No ☐Unknown
Audio-visual alarm? ☐Yes ☐No
Comments

PLANS AND MAPS

Coliform Sampling Plan	☒ Yes	☐ No	☐ N/A
D/DBP Monitoring Plan	☒ Yes	☐ No	☐ N/A
Lead and Copper Plan	☒ Yes	☐ No	☐ N/A
Distribution System Map	☐ Yes	☐ No	☒ N/A
Emergency Response Plan	☒ Yes	☐ No	☒ N/A

Comments Stage 2 D/DBP Monitoring plan submitted 8/28/14. Lead and Copper Plan approved 01/28/08.

PREVENTIVE MAINTENANCE/O&M
Operation & Maintenance Manual ☒ Yes ☐ No
Preventive Maintenance Program ☒ Yes ☐ No

Flushing Program	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A
Isolation Valve Exercise	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A

Comments

CROSS CONNECTION CONTROL
BFPAs None reported # Tested N/A
WWTP RPZ N/A Date Tested N/A
Written Plan Yes Date 02/15/10
Comments

PWS ID # 3424032
Date 1/23/18

GROUND WATER SOURCE

Well Number (Florida Unique Well ID #)		**1(AAE0256)**	
Year Drilled		1978	
Depth Drilled		138’	
Drilling Method		Cable tool	
Type of Grout		Neat cement	
Static Water Level		18’	
Pumping Water Level		Unknown	
Design Well Yield		Unknown	
Test Yield		Unknown	
Actual Yield (if different than rated capacity)		Unknown	
Strainer		Unknown	
Length (outside casing)		105’	
Diameter (outside casing)		6”	
Material (outside casing)		Black steel	
Well Contamination History		None	
Is inundation of well possible?		No	
6’ X 6’ X 4” Concrete Pad		Yes	
SET BACKS	Septic Tank	>200’	
	Reuse Water	N/A	
	WW Plumbing	>100’	
	Other Sanitary Hazard	None observed	
PUMP	Type	Submersible	
	Manufacturer Name	Sta-Rite	
	Model Number	Unknown	
	Rated Capacity (gpm)	200	
	Motor Horsepower	10	
Well casing 12” above grade?		Yes	
Well Casing Sanitary Seal		Yes	
Raw Water Sampling Tap		Yes	
Above Ground Check Valve		Yes	
Security		Yes	
Well Vent Protection		N/A	

COMMENTS _____

PWS ID # 3424032
Date 1/23/18

CHLORINATION (Disinfection)
Type: ☐ Gas ☒ Hypo
Make Uni-Dose Capacity 12 gpd
Chlorine Feed Rate 50% of stroke
Avg. Amount of Cl_2 gas used N/A
Chlorine Residuals: Plant 1.70 Remote 1.35
Remote tap location 5760 SE 22nd Pl.
DPD Test Kit: ☐ On-site ☒ With operator
☐ None ☐ Not Used Daily
Injection Points Prior to the hydropneumatic tank.
Booster Pump Info N/A
Comments

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

Tank Type/Number	**H**
Capacity (gal)	3,000
Material	Steel
Gravity Drain	Yes
By-Pass Piping	Yes
Protected Openings	Yes
Sight Glass or Level Indicator	Yes
PRV/ARV	Both
Pressure Gauge	Yes
On/Off Pressure	40/60
Access Secured	Yes
Access Manhole	Yes
Tank Sample Tap Location	On tank
Date of Inspection	2013/06
Date of Cleaning	2013/06

Comments Next tank inspection due 6/18

DEFICIENCIES:

No deficiencies were noted during this inspection.

MONITORING REMINDER:

- Nitrate and nitrite samples are required to be collected from the point of entry (POE) to the distribution system annually. The 2018 results have not been received.
- The consumer confidence report (CCR) must be delivered to consumers and the Department no later than July 1, 2018, and certification of delivery of the CCR must be submitted to the Department no later than August 10, 2018.
- Monitoring schedules are available on the Central District's Drinking Water Website. https://floridadep.gov/central/central/content/resources-drinking-water-facilities-and-operators-central-district

COMMENTS:

- Contact FRWA (Florida Rural Water Association) at 850-668-2746, or frwa@frwa.net, for free technical assistance with your system. FRWA has extended benefits offered to members.
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.

  Checking the calibration of finished-drinking-water meters at treatment plants shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water. [Rule 62-555.350(2), F.A.C.]
- Suppliers of water shall submit written notification to the Department before beginning work or alterations to the public water system. Each notification shall be submitted to the appropriate Department of Environmental Protection District Office or Approved County Health Department and shall include the following: a description of the scope, purpose, and location of the work or alterations; and assurance that the work or alterations will comply with applicable requirements listed in Rule 62-555.330, F.A.C. Suppliers of water may begin such work or alterations 14 days after providing notification to the Department unless they are advised by the Department that the notification is incomplete or that a construction permit is required.
- Suppliers of water shall telephone the SWO at 1-800-320-0519 immediately (i.e., within two hours) after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving a public water system. [Rule 62-555.350(10)(a), F.A.C.]
- Suppliers of water shall telephone, and speak directly to a person at, the appropriate DEP District Office as soon as possible, but never later than noon of the next business day, in the event of any of the following emergency or abnormal operating conditions:
  - The occurrence of any abnormal color, odor, or taste in a public water system's raw or finished water;
  - The failure of a public water system to comply with applicable disinfection requirements; or
  - The breakdown of any water treatment or pumping facilities, or the break of any water main, in a public water system if the breakdown or break is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(b), F.A.C.]
- Suppliers of water shall notify affected water customers in writing or via telephone, newspaper, radio, or television; and telephone, and speak directly to a person at, the appropriate DEP District Office by no later than the previous business day before taking PWS components out of operation for planned maintenance or repair work if the work is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(d), F.A.C.]

PWS ID # 3424032
Date 1/23/18

COMMENTS (continued):

- Suppliers of water shall issue precautionary "boil water" notices as required or recommended in the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(11), F.A.C.]



Inspector Signature

Viviana Penuela Useche
Printed Name

Environmental Specialist
Title

2-21-18



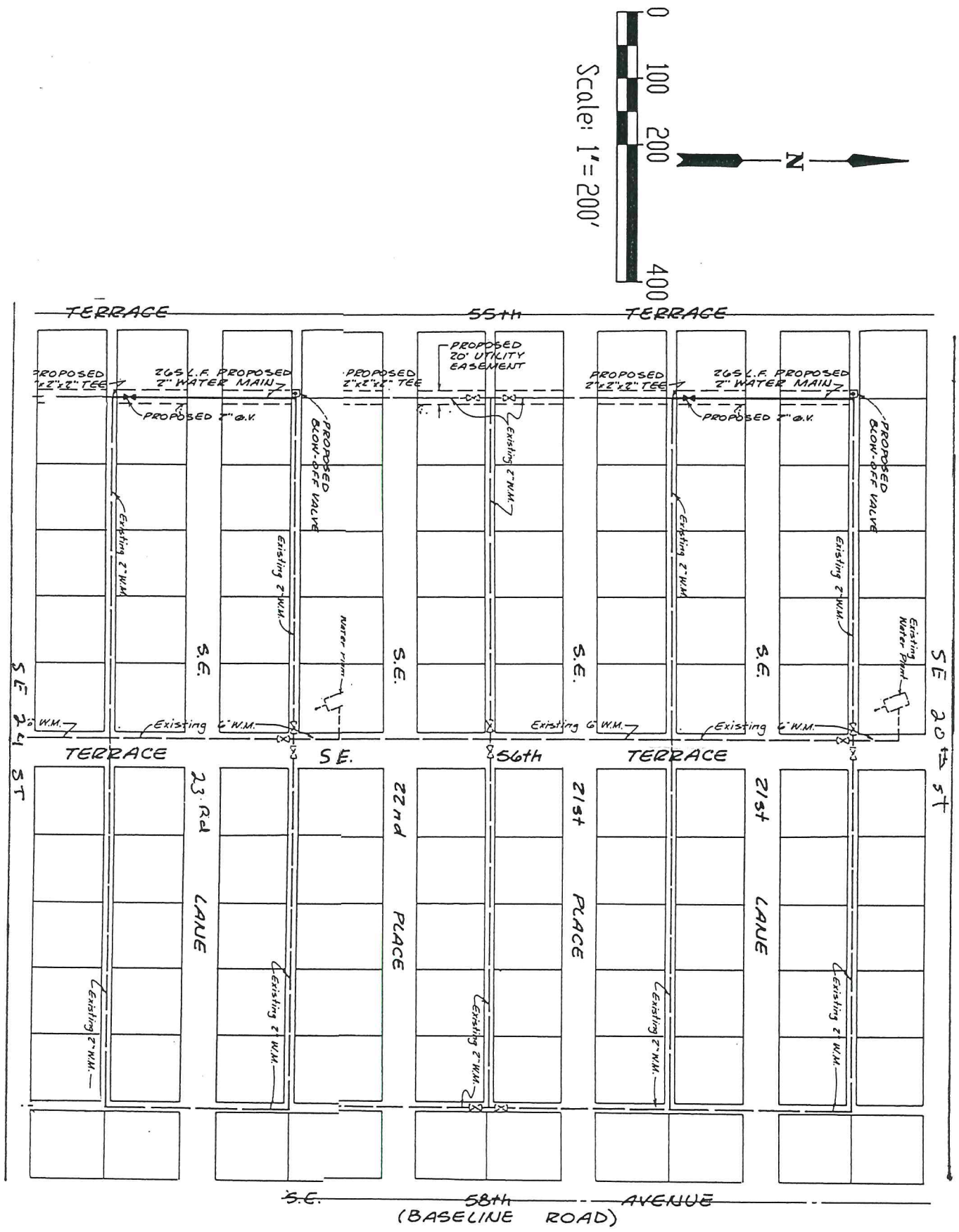
Reviewer Signature

Christine Daniel
Printed Name

Environmental Manager
Title

3/1/18

APPENDIX E: DISTRIBUTION MAP



DRN	CHK	DATE	DESCRIPTION
PMM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9636-02

1

OAKHURST

SUNSHINE INDUSTRIES INC.
OCALA, FLORIDA

H.W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17th ST, SUITE 502
OCALA, FLORIDA 34471
FAX (352) 840-9526
(352) 840-9774



woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Ocala Gardens Apartments

210 South Florida Avenue | Suite 220
Lakeland, Florida 33801
800.426.4262

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

0233748.01
CSWR
July 2021

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Appendix C: Emergency Response Plan
Appendix D: Consumer Confidence Report
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Appendix F: Distribution Map

APPENDIX A: SOURCE WATER ASSESSMENT & PROTECTION PROGRAM RESULTS

» SWAPP Homepage
» Search By County
» Search by PWS Name or Number
» How to Help?

Definitions

» Aquifers
» Public Water Systems
» Assessment
» Potential Contaminants
» Susceptibility
» Prevention

Contact Us

» Email
» Mailing Address
» Source Water Protection Workshop

EPA Source Water Protection website

Source Water Assessment & Protection Program

Results for: 2019

OCALA GARDEN APARTMENTS
SW 7TH AVE
OCALA, FL 34470

Public Water System ID: 3421554
County: MARION
DEP Regulatory Office: DEP Central District
3319 Maguire Blvd, Suite 232
Orlando, FL 32803
407-897-4100
Public Water System Type : COMMUNITY
Public Water System Source : GROUND
Primary Use: APARTMENT
Population Served: 48
Size of Assessment Area:
GROUND: For this system, a 1000-foot radius circle around each well was used to define the assessment area.

Number of Wells: 1

Well ID	Owner ID	FLUWID	Status	Well Depth(ft)	Aquifer
5771	BURKES LEMON AVE/4 INCH WELL	AAC0021	ACTIVE	90	Floridan Aquifer

Results:

GROUND WATER:
A search of the data sources indicated no potential sources of contamination.

Last updated: February 19, 2020

Accessibility Information

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Exit Disclaimer
Privacy Statement

3900 Commonwealth Boulevard M.S. 49
Tallahassee, Florida 32399
850-245-2118 (phone) /
850-245-2128 (fax)

APPENDIX B: TANK INSPECTION REPORT

INSPECTION AND TESTING of HYDROPNEUMATIC TANK

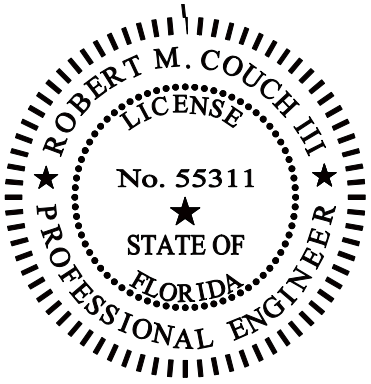
Burks-Ocala Gardens Subdivision Tank

Pursuant to Chapter 62-555.350 (1) & (2) F.A.C

Water System:	Burks-Ocala Gardens Subdivision
Street Address:	SW 5th Court/SW 23rd Place
City, State:	Ocala, Florida
Phone:	352-347-8228
Contact:	Dewaine Christmas
E-mail:	sunshineutl@aol.com
PWS ID No.:	3421554
County:	Marion
Classification:	Community
Source:	Ground
Ownership:	Sunshine Utilities of North Central Florida
Date:	December 11, 2018

Inspection and Testing by:

Robert M. Couch III, P.E.
ENVIRO-TECH, Inc.
PO Box 152
Weirsdale, FL 32195
Telephone: 352-694-1799
E-mail: envirotech@ymail.com



C.O.A. No. 8692 Registration No. 55311

Robert M. Couch III, P.E.

Digitally signed by Robert M. Couch III, P.E.
DN: cn=Robert M. Couch III, P.E., o=ENVIRO-TECH, Inc., ou=Reg. No. 55311, email=envirotech@ymail.com, c=US
Date: 2019.01.01 23:13:45 -05'00'

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1.0 EXECUTIVE SUMMARY

ENVIRO-TECH, Inc. was contracted to perform the five year tank condition inspection on the above mentioned hydro-pneumatic tank.

This condition inspection was performed on December 11, 2018 by Robert M. Couch III, P.E. on the above referenced water tank. The tank external inspection was performed to assess the tank condition as required by the Florida Department of Environmental Protection (FDEP) Rule 62-555.

The tank shell and heads appeared to be in overall fair to good structural condition. Ultrasonic Thickness Measurements (UTMs) indicated that the average thickness of the tank shell at the time of the field inspection was approximately 2.84 mm. UTM readings from the tank heads indicated an average thickness of 4.47 mm. The exterior galvanized coating of the tank appeared to be in overall fair condition. There was no man way on the tank so the interior was not inspected.

Based on the condition of the tank noted during the field visit, Enviro-Tech, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 50 PSI or lower.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function at a maximum working pressure of 46 PSI as needed until the next 5 year inspection cycle, provided the recommended actions are taken.

2.0 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS CHAPTER 62-555.350 (1) & (2)

2.1 Operation and Maintenance of Public Water Systems

(1) Suppliers of water shall operate and maintain their public water systems so as to comply with applicable standards in Chapter 62-550, F.A.C., and requirements in this chapter.

(2) Suppliers of water shall keep all necessary public water system components in operation and shall maintain such components in good operating condition so the components function as intended. Preventive maintenance on electrical or mechanical equipment – including exercising of auxiliary power sources, checking the calibration of finished-drinking-water meters at treatment plants, testing of air or pressure relief valves for hydropneumatic tanks, and exercising of isolation valves –shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water; however, in no case shall auxiliary power sources be run under load less frequently than monthly. Accumulated sludge and biogrowths shall be cleaned routinely (i.e., at least annually) from all treatment facilities that are in contact with raw, partially treated, or finished drinking water and that are not specifically designed to collect sludge or support a biogrowth; and blistering, chipped, or cracked coatings and linings on treatment or storage facilities in contact with raw, partially treated, or finished drinking water shall be rehabilitated or repaired. **Finished-drinking-water storage tanks, including conventional hydropneumatic tanks with an access manhole but excluding bladder- or diaphragm-type hydropneumatic tanks without an access manhole, shall be checked at least annually to ensure that hatches are closed and screens are in place; shall be cleaned at least once every five years to remove biogrowths, calcium or iron/manganese deposits, and sludge from inside the tanks; and shall be inspected for structural and coating integrity at least once every five years by personnel under the responsible charge of a professional engineer licensed in Florida.** Dead-end water mains conveying finished drinking water shall be flushed quarterly or in accordance with a written flushing program established by the supplier of water; additionally, dead-end or other water mains conveying finished water shall be flushed as necessary whenever legitimate water quality complaints are received.

2.2 Location of Inspection and Testing Report

Pursuant to Chapter 62-555.350 (2) and 62-555.350 (12) FAC, beginning 28 August 2003, all water systems regardless of size must maintain a copy up-to-date Preventive Maintenance Logs of each water system in the water facility office. The Preventive Maintenance Logs must show the date and type of all maintenance performed and comply with Rule 62-555.350 (2) and 62-555.350 (12), which requires the following:

- Preventive Maintenance Logs on Electrical and Mechanical Equipment
- Cleaning and Inspection Logs of Treatment Facilities and Storage Tanks
- Records of Coatings and Linings Rehabilitation or Repair
- Licensed Engineer Inspection Report (once every 5-years) for Finished-Drinking-Water Storage Tanks and Hydropneumatic Tanks
- Written Flushing Program and Logs showing that Dead-End Water Mains are being flushed at least quarterly
- Isolation Valves Exercise Logs

A copy of this report should be kept with these records.

3.0 HYDROPNEUMATIC PRESSURE TANK INSPECTION AND TEST PROCEDURES

This Inspection and Test Procedures is used as a reference in the overall inspection and testing of this Water System. This procedure is to be updated from time to time to reflect physical and procedural changes to the water system.

Inspection and testing of this tank was conducted by Robert M. Couch III, P.E. with the assistance of Jim Hodges Jr. of Sunshine Utilities of North Central Florida, Inc. The following inspection and testing procedures for hydropneumatic pressure tanks were used:

3.1 Pre-Test Procedures

1. If water service is to be interrupted customers must be notified in advance and if appropriate, boil water notices issued.

2. Turn-off all electrical power to well pumps, air motors, chlorination equipment, etc.

3. Open drain valve to empty tank. This is also a good time to check the valves (exercise them) that isolate the tank to see if they are in fact working as they should. This downtime can also be used to replace a valve if needed.

4. Once depressurized, the site glass is inspected for proper operation.

5. Once the tank is drained, the manway (hatch) will need to be removed for inspection of the interior.

3.2 Visual Inspection

6. Perform visual inspection of the tank exterior and accessories for presence of leaks, shell distortion, signs of settling, deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, accessories, etc.

7. Tank layout and physical measurements

8. Color photographs of the tank exterior and all of the essential appurtenances

9. Perform visual inspection of the tank interior for presence of deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, bio-growths, calcium or iron/manganese deposits, sludge, etc.

3.3 Nondestructive Examination

10. The tank interior coating is then examined for dry film thickness (See PosiTest® DFT Coating Thickness Gauge measurement) or equivalent.

11. The tank exterior is then examined for thickness measurements (See Smart Sensor AR 850+ Ultrasonic Thickness Gauge measurement).

12. If deemed necessary, the tank exterior (or interior) is then examined for porosity, pinholes and leaks (See PCWI porosity detection test, also known as holiday detector test).

3.4 Post-Test Procedures

13. Any coating problems detected should be corrected while the tank is out of service in order to avoid further extensive downtime.

14. Once the tank is inspected and all maintenance items are taken care of, the tank will need to be disinfected prior to placing back in use.

15. Once the tank has been disinfected, bacteriological tests must be performed on water samples (2 per FDEP) taken from the tank discharge. FDEP to clear for service prior to placing back in service.

3.5 Safety of Test Area

The test area should be restricted and barricaded. The porosity testing instrument output can be up to 20,000 volts. Testing should be carried out well clear of personnel not involved in the testing procedure. Should accidental contact be made with the test electrode, the recipient will receive a mild shock. This equipment should never be used by a person with a pacemaker.

4.0 TEST EQUIPMENT DESCRIPTIONS

4.1 AR 850+ Ultrasonic Thickness Gauge



The Smart Sensor AR 850+ Digital Ultrasonic Thickness Gauge is an economical, user-friendly, menu driven, and multi-functional unit offering extensive features from basic measurements to extended memory. This dynamic series of UT gauges is designed to measure the thickness of metallic and non-metallic materials such as steel, aluminum, titanium, plastics, ceramics, glass and any other good ultrasonic wave conductor as long as it has parallel top and bottom surfaces. The AR 850+ gauges will accurately display readings in millimeters after a simple calibration to a known Thickness or sound velocity.

4.1.1 Features

- Main Unit
- Transducer 5 MHz / 2.5 MHz
- Integrated steel calibration plate 4.0mm
- Batteries (2 x AAA)
- Ultrasonic Couplant
- Operation Manual
- Certificate
- Carrying Case
- One Year Warranty

4.1.2 Technical Specification

Display Type	4-digit LCD
Display Resolution	(<100 mm) 0.1 mm
Units	Metric
Measuring Range (steel)	1.2 to 220.0 mm
Sound Velocity Range	1000 to 9999 m/s
Operating Temperature	0 ° C +45° C
Frequency	5 MHz
Power Source	3 X 1.5V AAA batteries
Dimensions	70x145.5x28 mm

4.2 Compact DC Inspector Porosity Detector



Porosity detection of Tanks, Valves, Pumps, Pipeline field joints, and general inspection and maintenance. Suitable for a broad range of testing and inspection requirements. It is recommended that the integral probe be limited to a 125mm flat brush or fan brush.

4.2.1 Standards

ASTM G62-87(1998), ASTM D4787-93(1999), NACE RP0274-98, NACE RP0490-2001, NACE RPO188- 99, JIS G-3491, JIS G-3492, ANSI/AWWA C214-89, ANSI/AWWA C213-94 and ISO 2746:1998

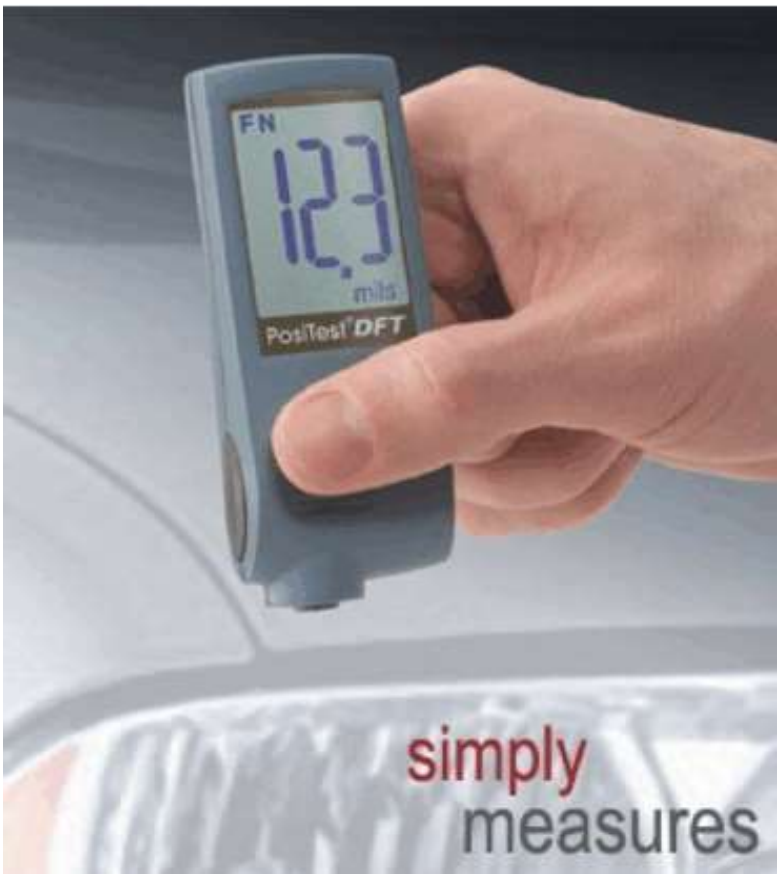
4.2.2 Features

- LED bar graph display of voltage
- "Single" hand-held, lightweight unit for simplicity and ease of operation
- Audible and visual alarms
- LED battery condition indicator
- Integral probe
- Detector
- 7m Earth lead and clamp
- Flat 125mm wide brass wire brush (or optional fan brush)
- Carry Case
- Operating instructions with conformance certificate
- Variable output up to 10kV or Variable output up to 20kV

4.2.3 Technical Specifications

Test Voltage	to 10kV (using 9V Battery)
Output Test Current	up to 100µA
Operating Temperature	-20 to +50ºC
Power Supply	Battery (9V internal)
Unit Dimensions	210 x 75 x 35mm (excl brush) 8.25" x 3.1" x 1.5"
Unit Weight	460g (incl probe)
Shipping Weight	1.5Kg

4.3 PosiTest DFT Coating Thickness Gauge



The new PosiTest DFT Coating Thickness Gauge measures coatings on ALL metals. It is the economical choice that retains the uncompromising quality of Qualitest inspection instruments.

Available in two models:

- PosiTest DFT Ferrous - measures non-magnetic coatings on steel.
- PosiTest DFT Combo - measures both non-magnetic coatings on steel and non-conductive coatings on aluminum, brass, etc. Automatically recognizes the substrate and takes a measurement.

4.3.1 Standards

ASTM B244/B499/B659/D1186/D1400/E376/G12, BS3900-C5, SSPC-PA2, ISO 2178/2360/2808, prEN ISO 19840, and others. Certificate of Calibration traceable to NIST available.

4.3.2 Features

- Fast, repeatable measurements
- No calibration required for most applications
- ZERO feature for rough or curved surfaces
- Handy RESET feature when no zero reference is available
- Strong, wear resistant, ruby-tipped probe
- Audible and visible measurement indication
- V-groove in probe for positioning on cylindrical parts
- Mils/Microns switchable
- Basic instructions on the back of each gauge

4.3.3 Technical Specifications

Measurement Range	0-40 mils (-1000 µm)
Accuracy	±(0.1 mils + 3%) (±(2µm + 3%))
Size	4 x 1.5 x 0.9 in (100 x38 x 23 mm)
Weight	2.5 oz (70 g)



5.0 HYDROPNEUMATIC PRESSURE TANK DESCRIPTION

The hydropneumatic pressure tank inspected and tested is described as follows:

Length: 12'-3" (12'-9" including elliptical heads)
Diameter: 3'-6" outside diameter
Volume: 900 gallons with elliptical heads
Tank Age: Unknown
Operating Pressure: 60 psi

6.0 TESTING

6.1 Porosity Testing

The tank surface was not swept with the Compact DC Inspector Porosity Detector during this inspection as no evidence of pin holes was observed throughout the surface of the tank.

6.2 Interior Coating Testing

Dry film thickness readings were not taken as there was no access panel to the tank interior.

6.3 Ultrasonic Metal Thickness Testing

A total of 37 metal thickness readings were taken at various locations on the tank shell and head surface. The average shell reading was 2.84 millimeters in the cylindrical section and 4.47 millimeters in the elliptical heads. Typical industry standard minimum wall thickness for tanks of this size is 3/16" (4.76 mm).

7.0 VISUAL OBSERVATIONS

7.1 Tank Exterior

The exterior of the tank appeared to be in good structural condition. No lichens were growing on the tank exterior at the time of the inspection.

7.2 Tank Interior

The tank has no man way therefore an interior inspection was not performed.

8.0 DEFINITIONS

Design Pressure - The maximum design pressure determined from the metal thickness.

Maximum allowable working pressure (MAWP) – Maximum pressure that the pressure tank is capable of safely holding at a design maximum temperature (250ºF).

Operating Pressure - The normal maximum operating pressure of the pressure tank. The normal operating pressure must always be below the MAWP. As a rule of thumb the maximum operating pressure should always be less than the MAWP.

Metal Thickness – The thickness of the pressure tank wall (not including a corrosion allowance) to be used in the pressure calculations.

Design Safety Factor on Metal Tensile Strength – A pressure tank is normally designed with a safety factor of 3 to 4 on the metal tensile strength. All pressure tanks are designed to operate with wall stresses below the yield point of the metal used for fabrication.

9.0 TANK PRESSURE CALCULATIONS

The following formula is found in ASME Section I for determination of MAWP:

For tanks with circumferential stress on (longitudinal joints)

P = SEt/(R+0.6t)
= 60 MPa x 1.0 x 2.84mm / (531 mm+0.6 x 2.84 mm)
= 0.320 MPa
= 46 psi

When:

t < 0.5R = 0.5 x 531 = 265.5 mm (true) or
P < 0.385SE = 0.385 x 60 x 1.0 = 23.1 MPa (true)

Where:

t = metal thickness (mm) where t = 2.84 mm
R = inside radius of shell course under consideration (mm) = 531 mm
E = joint efficiency for cylindrical or spherical shells = 1.0 for welded tanks and corresponds to a safety factor of 3.5 in the parent metal.
P = maximum allowable working pressure (MPa) where 1 MPa = 145 psi
S = maximum allowable stress value at the operating temperature of the metal = 60 MPa (Safety Factor of 4).

10.0 CONCLUSIONS

Inspection and testing of the Burks-Ocala Gardens subdivision 900-gallon hydropneumatic pressure tank was performed on December 11, 2018. In addition to a visual examination, non-destructive examinations were also made. Non-destructive examinations included ultrasonic measurement of the tank wall thickness and visual inspection for pinholes and leaks. No examination of Dry Film Thickness Measurement (DFTM) of the interior coating was performed as there was no man way present.

Observations of the tank exterior indicated tank is subject to normal exposure. No observations of tank interior were performed as there was no man way present.

11.0 RECOMMENDATIONS

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 50 PSI or lower.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function at a maximum working pressure of 46 PSI as needed until the next 5 year inspection cycle, provided the recommended actions are taken..

Signed: Robert M. Couch III Date: 1/1/2019

Robert M. Couch III, P.E. Registration No. 55311

Typical exterior views of tank







APPENDIX C: EMERGENCY RESPONSE PLAN

Disaster-Specific Preparedness/Response Plan

for Public Drinking Water Systems

Per Chapter 62-555.350 (15) F.A.C.

Sunshine Utilities

Berks/Ocala Gardens

Address:	10230 East Hwy. 25 Belleview, FL 34420
Phone:	352-347-8228
Fax:	352-347-6915
Contact:	Dewaine Christmas, Manager
E-mail:	SunshineUtl@AOL.COM
Connections:	25
PWS:	3421554
County:	Marion

May 17, 2013

Department of Environmental Protection
Michael D. LeRoy, P.E.
John R. Sowerby, P.E.

FRWA Security Staff
Sterling L. Carroll, P.E.
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For more information or additional copies of this document contact:

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2970 Wellington Circle ~ Suite 101 ~ Tallahassee
Telephone: 850-668-2746 ~ Fax: 850-893-4581
e-mail: FRWA@frwa.net

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This template and guide has been developed by the Florida Rural Water Association (FRWA) in collaboration with the Washington State Department of Health, Office of Drinking Water, Olympia, Washington; and reviewed by Florida Department of Environmental Protection.

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Preface
Chapter 62-555.350 (15) FAC

Disaster-Specific Preparedness/Response Plans

(15) Suppliers of water who own or operate a community water system serving, or designed to serve, 350 or more persons or 150 or more service connections shall develop a written emergency preparedness/response plan in accordance with Emergency Planning for Water Utilities, AWWA Manual M19, as adopted in Rule 62-555.335, F.A.C., by no later than December 31, 2004, and shall update and implement the plan as necessary thereafter. Said suppliers of water shall coordinate with their Local Emergency Planning Committee and their Florida Department of Law Enforcement Regional Security Task Force when developing their emergency plan and shall include in their plan all of the information in paragraphs (a) through (e) below.

(a) A Communication Charts as described in Chapter 5 of AWWA Manual M19.

(b) Written agreements with other agencies, utilities, or response organizations.

(c) A disaster-specific preparedness/response plan as described in Chapter 5 of AWWA Manual M19 for each of the following disasters: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release. Each disaster-specific preparedness/response plan shall incorporate the results of a vulnerability assessment; shall include actions and procedures, and identify equipment, that can obviate or lessen the impact of such a disaster; and shall include plans and procedures that can be implemented, and identify equipment that can be utilized, in the event of such a disaster.

(d) Details about how the water system meets the standby power requirements under subsection 62-555.320(14), F.A.C., and, if applicable, recommendations regarding the amount of fuel to maintain on site, and the amount of fuel to hold in reserve under contracts with fuel suppliers, for operation of auxiliary power sources.

(e) If applicable, recommendations regarding the amount of drinking water treatment chemicals, including chemicals used for regeneration of ion-exchange resins or for onsite generation of disinfectants, to maintain in inventory at treatment plants.

Specific Authority 403.861(9) FS. Law Implemented 403.852(12), 403.853(6), 403.861(17) FS. History-New 11-19-87, Formerly 17-22.650, Amended 1-18-89, 1-1-93, Formerly 17-555.350, Amended 8-28-03.

Time Extension for Submitting/Completing ERP – December 31, 2005

From: Hoofnagle, Van
Sent: Thursday, October 21, 2004 11:25 AM
Subject: Time Extension for Submitting/Completing ERP
Importance: High

I am sending this e-mail because of possible confusion in some FDEP District Offices or ACHDs regarding the deadline for compliance with the emergency preparedness/response plan requirements in FAC subsection 62-555.350(15).

As John Sowerby and other staff mentioned during Focus On Change presentations early this year on FAC Rule 62-555.350 and during training this summer on the recent amendments to FAC Chapter 62-555, the FDEP intends to amend FAC subsection 62-555.350(15) to give all affected community water systems (i.e., all community water systems serving 350 or more persons or 150 or more service connections) **until the end of 2005** instead of the end of this year to complete a comprehensive emergency preparedness / response plan as required by FAC subsection 62-555.350(15). At this point, it will likely be after the end of this year before we officially make this change to FAC subsection 62-555.350(15). In the meantime, please do not take any enforcement action against

community water systems who fail to meet the 12/31/04 deadline in FAC subsection 62-555.350(15). Thanks.

Van Hoofnagle
DEP Drinking Water Administrator

Section 1
Communication Charts

The first response step in any emergency is to inform the person at the top of this list, who is responsible for managing the emergency and making key decisions. List the water system chain of command in order of contact.

Water System Chain of Command – Lines of Authority

Order	Name & Title	Responsibilities During an Emergency	Contact Information
1	Dewaine Christmas Manager	Responsible for overall management and decision making. The manager is the lead for managing the emergency and providing information to regulatory agencies. All communications to external parties are to be approved by the manager.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl@AOL.Com
2	James Hodges Jr. Field Supervisor	Responsible for decision making in the field. In charge of overall maintenance, and repairs to all components of water system.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl @AOL.Com
3	Kelvin Edun Water Treatment Plant Operator	Responsible for running water treatment plant, performing inspections, maintenance, sampling and relaying all critical information to Field Supervisor.	Phone: Cell: 352-875-5141 Email:
4	Pamela Christmas Office	Responsible for assisting the manager in administrative duties and emergencies.	Phone: 352-347-8228 Cell: 352-245-4743 Email:
5			Phone: Cell: Email:
6			Phone: Cell: Email:
7			Phone: Cell: Email:

Emergency Notification

Notification call-up lists - Use these lists to notify important parties of an emergency.

Emergency Notification List

Organization or Department	Name & Position	Telephone	Cell Phone	e-mail
State Warning Point	**Duty Officer**	**800-320-0519**	800-320-0519	N/A
Local Law Enforcement	EOC Commander	352-622-3205		Pstefanski@sheriff.marioncountyfl.org
Fire Department		911		
Emergency Medical Services		911		
Water Operator (if contractor)	Kelvin Edun Operator	352-875-5141		
County Health Department	Tom Moore Director of Environmental Health	352-622-7744	352-266-7486	
DEP District Office	Manny Cardona	407-897-4134	Fax 407-893-4418	
County Emergency Management Dept.	Chip Wildy	352-622-3205		
Local Leader (City Mgr., Mayor, Chair. Co. Comm., etc.)				
Local Hazmat Team (if any)		911		
Hazmat Hotline		911		
National Spill Response Center.	Duty Officer	800-424-8802	800-424-8802	N/A
Interconnected Water System(s)				
Neighboring Water System (not connected)				
FRWA Water Circuit Rider	Tom Gustafson	850-668-2746	352-267-1302	

Priority Customers

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Hospital Or Clinic(s)				
Nursing Home(s)				
Public Schools				
Private Schools				
Wastewater Treatment Plant				
Food Processing Or Other Industry				

Service / Repair Notifications

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Electric Utility Co.	City of Ocala	352-651-6666		
Electrician	Melville Electric	352-245-0600		
Gas / Propane Supplier	Belleview Gas	352-245-6055		
Water Testing Lab.	Aqua Pure Lisa Saupp	352-625-2822		
Sewer Utility Co.				
Telephone Co.	Sprint	800-788-3600	611	
Plumber	ACP	352-427-7036		
Pump Supplier	Coast Pump	352-620-0616	352-266-4277	Coastpumpocal@hotmail.com
"Dig Safe" or "One Call"	Sunshine One Call	800-432-4770		
Rental Equip. Supplier	B&M Rental	352-245-3133	352-245-9800	

Service / Repair Notifications				
Organization Or Department	**Name & Position**	**Telephone**	**Cell Phone**	**email**
Chlorine Supplier	Custom Controls	352-622-9244	352-304-0572	
Other Chemical Suppliers				
Radio/SCADA Repair Co.				
Bottled Water Service				
Bulk Water Supplier				
Well Drilling Co.	Earls Well Drilling David Moffitt	352-245-2324	352-817-0502	
Pipe Supplier	National Water Works Roy Sands	352-351-8144	352-266-4705	

Designated Public Spokesperson and Alternates

Designate a spokesperson (alternates) for delivering messages to the news media & public

Public Spokesperson	Name & Position	Telephone	Cell Phone
Spokesperson	Dewaine Christmas Manager	352-347-8228	352-239-1198
Alternate 1	James Hodges Jr. Supervisor	352-347-8228	352-239-1197
Alternate 2			

Key Messages

Develop possible messages in advance, and update them as the emergency develops
▪ We are aware of the emergency and are working diligently to restore your water service.
▪ If you fall under a boil water notice you must bring water to a rolling boil for a period of at least one minute. You only have to boil water for human cunsumption.

▪

Health Advisories – Boil Water Notices

Use the assistance of your County Health Department and/or District FDEP office, and FDEP's Mandatory Health Effects Language, located on FDEP's website at:

http://www.doh.state.fl.us/environment/water/manual/boil.htm

http://www.DEP.state.fl.us/water/drinkingwater/rules.htm,

and click on "Mandatory Health Effects Language"., PLUS EPA's templates at:

http://epa.gov/safewater/pn.html

Click on "Microsoft Word and Word Perfect files of PN templates" (PN means Public Notifications), then determine which "Tier" of notifications is needed and click on the desired software to receive them in.

Section 2
Written Agreements With Other Agencies, Utilities, or Response Organizations

INSERT BELOW information regarding any written agreements with other agencies, utilities, or response organizations, such as emergency interconnects, mutual aid or FlaWARN.

Emergency Interconnect(s)

Information on the location of interconnection(s) (if any), type and size of interconnecting pipe, pumps and accessory equipment, meters at interconnection(s), normal pressures at both ends of interconnection, volume of water from interconnection(s), type of agreement and approvals needed for use, procedures necessary to use interconnection, etc.

Location (Street)	
Location (GPS)	
Description	

Memoranda of Understanding

Organization	
Summary of Understanding	

Mutual Aid Agreements

Organization	Marion Utilities, 352-622-1171
Summary of Understanding	Will render mutual aide – ie: pumps, generators, and other materials necessary to restore water service.

FlaWARN

Organization	
Summary of Understanding	

Section 3
Disaster-Specific Preparedness/Response Plan

Your disaster-specific preparedness/response plan must include a Vulnerability Assessment and preparedness / response plans for: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release.

In any event there are a series of general steps to take:

1. Confirm and analyze the type and severity of the emergency.
2. Take immediate actions to save lives.
3. Take action to reduce injuries and system damage.
4. Make repairs based on priority demand.
5. Return the system to normal operation.

Vulnerability Assessment

It is essential that water systems identify and assess the vulnerability of each system component for both natural and human-caused emergencies, before preparing their disaster-specific preparedness/response plans. Prepare your Vulnerability Assessment by completing the table below:

Facility Vulnerability Assessment

System component	Description and condition	Vulnerability	Security improvements (indicate existing or proposed)
Raw Water Sources	(1) 4" groundwater wells located several hundred feet from homes. Wells are in good condition. We have wellhead protection in place.	The well is most vulnerable to above ground activities because it is only 90 FT deep.	1.Purchase land surrounding well. 2. Secure well house to foundation and install lighting around well house.
Pump-house and pumping facilities	The pump-house and pumping facility are in good condition.	Pump location is fully fenced with a locked gate.	Install tamper proof padlocks.
Treatment Facilities	There is a hypo-chlorination system inside of pump house. System is in good condition.	Chlorination systems are not subject to power outages.	There is a backup generator on site in compliance with CH. 62-555.320(14)FAC
Storage Facilities	Hydro pneumatic tank is fenced in good condition.	Tank is not in a lighted area.	Install lighting in area of tank.
Computer and telemetry systems	Computers are in utilities main office and are in good condition.	Computers should be better protected against cyber attack or hacking.	Secure computers with firewalls & virus protection.

A. Vandalism or Sabotage Response Procedures

1. Utility staff first aware of incident:
    a) Calls 9-1-1/ Local Law Enforcement.
    b) Calls Manager
2. Manager determines severity of incident.
    a) Field supervisor determines if vandalism or sabotage will effect the water quality.
    b) Manager reports incident to the state warning point.
3. Field supervisor directs repairs as needed.
    a) Complete repairs
    b) Update ERP as needed.

B. Drought Response Procedures

Include water use restrictions per Consumptive Use Permit

1. Manager coordinates with the local Water Management District (WMD) regarding drought conditions.
    a) If drought conditions exist, a water conservation plan will be initiated.
    b) Literature will be distributed to customers regarding the drought.
    c) Conservation material will be distributed to customers on conservation measures.
    d) Customers not abiding by restrictions will be reported to WMD.
    e) Manager updates ERP as needed.

C. Hurricane Preparedness & Response Procedures

Pre- Hurricane **(36 to 48 hrs prior to arrival)**	1. Manager coordinates with local EOC. 2. Field supervisor checks operation of standby power. 3. Field supervisor secures fuel and treatment chemicals for a 10 day period. 4. Manager replenishes inventory of spare parts.
Hurricane Watch **(24 to 36 hrs prior to arrival)**	1. Manager cancels all time off for employees. 2. Manager issues work assignments in advance in case of communication loss. 3. Employees all top off fuel in vehicles & standby generators. 4. Manager authorizes employees to secure their personal property and arrange for the safety of family members.
Hurricane Warning (24hrs or less prior to arrival)	1. Employees report to designated areas and wait for instructions. 2. Employees load truck with supplies. 3. Employees follow evacuation protocol.
Recovery Procedures	1. Manager coordinates with local EOC. 2. Manager issues boil water notices if needed. 3. Field supervisor coordinates repairs. 4. Manager makes contact with the appropriate DEP office. 5. After repairs are completed samples are taken. 6. When samples come back clear – boil water notice is lifted. 7. Manager files all malfunction reports with the DEP. 8. Field supervisor inspects all systems to make sure everything is running smooth.

D. Structure Fire Response Procedures

1. Utility staff discovering fire:
    a) Evacuate structure on fire.
    b) Call 9-1-1
2. Manager determines severity of incident.
    a) Manager contact State Warning Point.
    b) Field supervisor coordinates repairs when fire is extinguished.
3. Field supervisor reports to manager when repairs are complete.
    a) Manager reports completion of all repairs to any Gov. agency.
    b) Manager updates ERP as needed.

E. Flood Preparedness & Response Procedures

(Is any critical part of your system in a flood prone area?)

None of our systems are in a flood prone area.

F. Forest or Brush Fire Response Procedures

(Is any critical part of your system subject to forest or brush fires?)

1. Utility staff discovering fire.
    a) Orders evacuation of any threatened buildings.
    b) Calls 9-1-1 to report fire.
2. Manager determines the severity of fire.
    a) Manager contacts the State Warning Point.
    b) Field supervisor inspects for any damage and coordinates repairs after fire is extinguished.
3. Field supervisor reports to manager that all repairs are complete.
    a) Manager updates the ERP as needed.
    b)

G. Hazardous Material Release Response Procedures

Do you have any hazardous material (chlorine gas) at your water system?

We have no Hazardous materials at any of our water systems.

H. Other Disaster Response Procedures

Are there other disasters that you want to prepare for, such as a Contamination event, SCADA Attack, or Structural Damage from an Intentional Act?

Contamination

1.
   a)
   b)
2.
   a)
   b)

SCADA Attack

1.
   a)
   b)
2.
   a)
   b)

Structural Damage from an Intentional Act

1.
   a)
   b)
2.
   a)
   b)

Section 4
Standby Power Requirements

Include details about how the water system meets the standby power requirements as described in Ch. 62-555.320(14), and 62-555.350(15)(d) FAC for water source, treatment, and pumping facilities necessary to deliver drinking water at a rate at least equal to the Average Daily Water Demand.

Standby Power for Wells or Surface Water Intakes

Standby Power (or by alternate means) to OPERATE WELLS at Average Daily Demand

Average Daily Demand (ADD) in gpd or gpm	3516 gpd
Wells Needed to Supply Average Daily Demand	1
Standby Generator (kW) Needed for ADD &	15 KW
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	We will have reserve fuel in the case of an emergency.

Standby Power for Treatment Facilities

Standby Power (or by alternate means) to TREAT WATER at Average Daily Demand

Treatment Units Needed to Supply ADD	
Standby Generator (kW) Needed to Treat ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Standby Power for Pumps

Standby Power (or by alternate means) to PUMP WATER at Average Daily Demand

Pumps Needed to Supply ADD	
Standby Generator (kW) Needed to Pump ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Section 5
Drinking Water Treatment Chemicals & Disinfectants

Include recommendations regarding the amount of drinking water treatment chemicals, to maintain in inventory at treatment plants. Do not just list chemical storage capacity, but instead recommend the minimum amount of chemicals to maintain in inventory, which depends upon the location and reliability of chemical suppliers, the status of impending disasters, etc.

Disinfection Treatment Information

Disinfection Chemical(s)	Chemical / Location No. 1	Chemical / Location No. 2
Type of Chemical	Chlorine	
Type of Chemical Feed	Hypo-Chlorinator	
Chemical Storage Location	On site in the pump house.	
Recommended Minimum Amount to be Maintained in Storage (gal)	55 gallons	

Other Chemical Information

Chemical(s) Used	Chemical #1	Chemical #2	Chemical #3	Chemical #4
Type of Chemical				
Type of Chemical Feed				
System Location				
Chemical Storage Location				
Recommended Minimum Amount to be Maintained in Storage (gal)				

Appendix A
Basic System information

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Keep this basic information readily available for when you need it for emergency responders, repair people, the news media and potentially, an emergency operator.

Basic System Information

GPS coordinates will help emergency crews find your system following a major catastrophe.

System identification number (PWS ID)	**3421554**	
System name and address	**Berks/Ocala Garden**	
GPS Coordinates	Latitude:	Longitude:
Basic description and location of system facilities	**581 SW 23rd St**	
Population served and service connections.	Population =	Connections = 25
System Owner	**Sunshine Utilities of Central Florida, Inc.**	
Management Authority	**Owner and Manager**	
Name, title, and phone numbers of person responsible for maintaining and implementing the ERP.	**Dewaine Christmas** **Manager**	**352-347-8228 phone** **352-239-1198 cell**

System Demand

Demand based on Monthly Operational Records and system capacity based on Sanitary Survey.

Average Daily Demand (gpd)	3515 GPD
Maximum Daily Demand (gpd)	3900 GPD
System Capacity (gpd)	39000 GPD
Peak Hour Demand (gpm)	N/A

Location of Pertinent Information

Item	Location
Distribution System Map	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
O&M Manual(s)	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
Start-Up / Shut-Down Procedures	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.

Well Information

GPS coordinates will help emergency crews find wells following a major catastrophe.

Well Information	Well No. 1	Well No. 2	Well No. 3	Well No. 4
GPS well tag #				
Location (street)	581 SW 23rd St			
GPS Coordinates	Lat: Long:		Lat: Long:	Lat: Long:
Well Depth (ft)	90 FT			
Well Yield (gpd)	18720 GPD			
Pump Type	Submersible			
Manufacturer	Sta-Rite			
Capacity (gpm)	230 GPM			
Motor Manufacturer	Franklin			
Horsepower	2 HP			
Phase	1			
Volts/Amps	230 volts			

Surface Water Sources

GPS coordinates will help emergency crews find surface water intakes following a major catastrophe.

Surface Water Information	Intake No. 1	Intake No. 2
Location (Street / Description)		
GPS Coordinates	Lat: Long:	Lat: Long:
Critical Water Level		

Finished Water Storage

GPS coordinates will help emergency crews find tanks following a major catastrophe.

Name of Storage Unit	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Location (Street)				
Location (GPS)	Lat: Long:	Lat: Long:	Lat: Long:	Lat: Long:
Type (ground, elevated, etc.)				
Capacity (gal)				
Empty Elevation				
Overflow Elevation				

High Service Pumps

HSP	HSP No. 1	HSP No. 2	HSP No. 3	HSP No. 4
Location (street)				
Pump Type				
Manufacturer				
Capacity (gpm)				
Motor Manufacturer				
Horsepower				
Phase				
Volts/Amps				

Other Applicable Information

Appendix B
Training and Rehearsals

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Event	Description	People & Organizations Involved	Date

Appendix C
Plan Approval

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Plan Approval

This plan is officially in effect when reviewed, approved, and signed by the following people:

Name / Title	Signature	Date
Hodges Family Trust		

APPENDIX D: CONSUMER CONFIDENCE REPORT

Certification of Delivery of Consumer Confidence Report

GENERAL INSTRUCTIONS: This form shall be completed by all community water systems (CWSs) that have prepared a Consumer Confidence Report (CCR) in accordance with Rule 62-550.824, F.A.C., Consumer Confidence Reports. At the end of this form is a certification in which a system's authorized representative shall certify that the reported information is accurate and is in conformance with Rule 62-550.824, F.A.C. **COMPLETE THIS FORM AND SUBMIT IT BY AUGUST 10,** together with a copy of your system's CCR, sample email or water bill (with URL notification of CCR, if applicable), and any newspaper notice(s) and posted notice(s) of your CCR, to the appropriate DEP district office or Approved County Health Department (ACHD). Systems serving 100,000 or more persons posting their CCRs on publicly accessible Internet sites shall provide the information on the appropriate Internet link(s). All information provided on this form must be typed or printed in ink.

I. General Water System Information. (To be completed by all community water systems.)

System name: Burks Ocala Gardens Contact person: Dewaine Christmas

PWS Identification number (PWS ID): 3421554 Contact phone number: (352)347-8228

Mailing address: 10220 East Hwy 25 City: Belleview

State: Fl Zip: 34420-5531 Population served (not the number of "service connections"): _____

II. CCR Distribution Method. (To be completed by all community water systems. Choose A or B as appropriate.)

☐ A. We mailed, emailed, or otherwise directly delivered a copy of our CCR to each customer on _____ (enter date(s) of mailing or delivery) using the method(s) checked below:

- ☐ a. **Mailed** CCR
- ☐ b. **Mailed** notice (e.g. water bill) with **direct URL** to the CCR
- ☐ c. **Emailed** CCR as an **embedded** image or as an **attachment**
- ☐ d. **Emailed** notice with a **direct URL** to the CCR
- ☐ e. **Otherwise directly delivered** CCR to every customer. Explain: _____

☑ B. We were eligible to use a mailing waiver and used a mailing waiver. (Systems are eligible to use a mailing waiver only if they serve fewer than 10,000 persons, have not had any MCL or monitoring and reporting (M/R) violations, nor have been issued any formal Notices of Violations (NOVs), Consent Orders, Administrative Orders, or court-ordered civil actions during the calendar year before the year the CCR is due to the customers).

Answer a, b, **and** c below.)

- ☐ a. Date of newspaper: _____
- ☐ b. Name of newspaper/newsletter that published our CCR: _____
- ☑ c. A copy of our notice to customers, informing them that our CCR will not be mailed to them, is attached.

This notice was: ☑ mailed with bill; ☐ published in newspaper/newsletter; or ☐ other (describe)

_____

III. Posting of CCR on the Internet. (To be completed by all CWSs serving 100,000 or more persons.)

We posted our CCR on this publicly accessible internet site: _____

IV. Report on Your Effort to Distribute Your CCR to Your Water Consumers.

(To be completed by all CWSs. Check all items that apply - at least one item must be checked.)

In addition to the methods selected in Part II,

- ■ A. We posted our CCR on this publicly accessible internet site: www.sunshineutilities.org
- ☐ B. We published our CCR in the local newspaper(s). The name(s) and date(s) of the newspaper(s) are:

_____

RECEIVED
JUL 10 2020
DEP Central District

☐ C. We advertised the availability of our CCR as a press release, radio announcement, or TV announcement. The type(s) and date(s) of the advertisement(s) are: _____

☐ D. We delivered multiple copies of our CCR to single bill addresses serving several persons.

☐ E. We delivered multiple copies of our CCR to the following community organizations:

_____

☐ F. Our CCR was posted in the following public locations: _____

_____

■ G. Our CCR was distributed by other methods (e.g., additional copies placed in entrance hall to facility). Describe.

Additional copies available at Sunshine Utilities Office

_____

V. Use of Non-English Language in CCR. (To be completed by all community water systems.)

☐ Information in a non-English language was included in our CCR because 20% or more of our customers do not speak English but speak _____. The method we used to determine the proportion of non-English speaking customers is _____

■ This requirement does not apply to our system, because we have no non-English speaking group among our customers equal to or exceeding 20% of our total number of customers.

VI. Other Delivery Requirements. (To be completed by all community water systems.)

(A) Was a copy of your CCR sent to your county health department, as required by rule?	■ Yes	☐ No
(B) Is your system regulated by the Public Service Commission (PSC)?	☐ Yes	☐ No
If Yes, was a copy of your CCR sent to the PSC, as required by rule?	■ Yes	☐ No

(C) If your system sells water to other systems, have you provided them with either a copy of your CCR or the required consumer confidence information? ■ Yes ☐ No ■ Not Applicable

VII. Certification of Delivery of CCR and Compliance with Regulations. (To be completed by all CWSs.)

This statement certifies that the above named community public water system has distributed its CCR for the time period starting ***January 1,*** 2019 ***, and ending December 31,*** 2019, to its customers on 6/15/20 (mm/dd/yy) and provided the appropriate notices of availability according to the requirements listed in this form, which are also found in Rule 62-550.824, F.A.C. This statement also certifies that the reported information is correct and consistent with the compliance monitoring data for the same period previously submitted to the Department, and that the report has been delivered to the agencies identified in Rules 62-550.824(3)(e)3., and 4., F.A.C.

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____

NAME (please print): Dewaine Christmas

TITLE: Manager DATE: 6/24/20

■ **A copy of our CCR is attached, and**

☐ **If using electronic delivery, a copy of our sample email or notice (e.g. water bill), with URL leading directly to the CCR and not a general information website, is attached. For example, if you are using the FRWA website to post your CCR, your URL would be:**

www.frwa.net/2012-Your PWSID Number.pdf (www.frwa.net/2012-0000000.pdf).

SUNSHINE UTILITIES
10230 East Highway 25
Belleview, Florida 34420

Drinking Water Quality Report

Annual Drinking Water Quality Report for 2019

Burks Quadraplexes - Ocala Garden Apartments

Florida Department of Environmental Protection Public Water System ID # 3421554

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

The source of our water is groundwater from one well located in the community. The well draws from the Floridan aquifer, one of the world's most protected sources. Our water is chlorinated for disinfection purposes. In 2019 the Florida Department of Environmental Protection conducted an assessment which identifies potential sources of contamination in the vicinity of our well(s). The SWAPP (Source Water Assessment and Protection Program) determined our public water system to have no potential sources of contamination. You may obtain more information at the web site *www.dep.state.fl.us/swapp.*

If you have any questions about this report or concerning your water utility please contact **Dewaine Christmas, at Sunshine Utilities, (352) 347-8228**, during normal business hours. We encourage our valued customers to be informed about their water utility.

Sunshine Utilities routinely monitors for constituents in your drinking water according to Federal and State laws, rules and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2019. Data obtained before January 1, 2019, and presented in this report are from the most recent testing performed in accordance with the laws, rules and regulations.

WATER QUALITY TEST RESULTS FOR BURKS OCALA GARDENS

Radioactive Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Alpha Emitters	(pCi/L)	AUG '15	No	3.7	N/A	0	15	Erosion of natural deposits
Radium 226 + 228	(pCi/L)			3.7	N/A	0	5	

Inorganic Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Arsenic	(ppb)	NOV '18	No	0.4	N/A	N/A	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	(ppm)	NOV '18	No	0.0057	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Cyanide	(ppb)	NOV '18	No	6.4	N/A	200	200	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride	(ppm)	NOV '18	No	0.17	N/A	4	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum levels between 0.7 and 1.2 ppm
Nitrate (as Nitrogen)	(ppm)	DEC '19	No	1.37	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium	(ppm)	NOV '18	No	12	N/A	N/A	160	Salt water intrusion; leaching from soil

Disinfectant or Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL or MRDL Violation Yes / No	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine	(ppm)	2019	No	0.9	0.6 - 1.4	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes

Lead and Copper (Tap Water)

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	AL Violation Yes / No	90th Percentile Result	No. of Sampling Sites Exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper	(ppm)	JUL '18	No	0.32	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

In the table you may find unfamiliar terms and abbreviations. To help you better understand these terms we have provided the following definitions (please note not all definitions may pertain to your report):

- Action Level (AL) – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial growth.
- Maximum Residual Disinfectant Level Goal (MRDLG) – The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.
- ND – This abbreviation means not detected and indicates that the substance was not found by laboratory analysis.
- Parts per million (ppm) or milligrams per Liter (mg/L) - one part of analyte (by weight) to 1 million parts of water sample (by weight).
- Parts per billion (ppb) or micrograms per Liter (µg/L) - one part of analyte (by weight) to 1 billion parts of water sample (by weight).
- Picocurie per liter (pCi/L) - measure of the radioactivity in water.

What does this mean?

As you can see our system had no violations for water quality. We are very proud to report that our water meets all federal and state requirements.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Sunshine Utilities is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals, and in some cases radioactive material, and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

A.) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

B.) Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

C.) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

D.) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

E.) Radioactive contaminants, which may be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The FDA (Food & Drug Administration) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care providers about their drinking water. EPA/CDC (Center for Disease Control) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are also available from the Safe Drinking Water Hotline (800-426-4791).

We are committed to ensuring the quality of your water. If you have any questions or concerns about the information provided, please feel free to call the numbers listed.

Sunshine Utilities

10230 East Highway 25, Belleview, FL 34420
Office (352)347-8228 – Fax (352)347-6915

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality of water and services we deliver to you everyday. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

Please follow the link to view your 2019 Annual Water Quality Report.

https://www.sunshineutilities.org/ccr19/2019BurksOcalaGarden.pdf

APPENDIX E: SANITARY SURVEY REPORT

FLORIDA DEPARTMENT OF
Environmental Protection

CENTRAL DISTRICT OFFICE
3319 MAGUIRE BLVD., SUITE 232
ORLANDO, FLORIDA 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

February 17, 2020

Dewayne Christmas, Office Manager
Ocala Garden Apartments
SW 7th Avenue,
Ocala, FL 34470
sunshineutl@aol.com

Re: Ocala Garden Apartments
PW Facility ID #3421554
Marion County

Dear Mr. Christmas:

Department personnel conducted an inspection of the above-referenced facility on February 6, 2020. Based on the information provided during and following the inspection, the facility was determined to be in compliance with the Department's rules and regulations. A copy of the inspection report is attached for your records, and any non-compliance items which may have been identified at the time of the inspection have been corrected.

The Department appreciates your efforts to maintain this facility in compliance with state and federal rules. Should you have any questions or comments, please contact Sally Butterfield at 407-897-4307 or via e-mail at Ellia.Ruggiero@Floridadep.gov

Sincerely,

David Smicherko, Manager
Central District
Florida Department of Environmental Protection

Enclosure: Inspection Report

cc: Ellia Ruggiero, Ellia.Ruggiero@Floridadep.gov
David Smicherko, David.Smicherko@floridadep.gov

State of Florida
Department of Environmental Protection
Central District

SANITARY SURVEY REPORT

Plant Name **Ocala Garden Apartments** County Marion PWS ID # **3421554**
Plant Location SW 7th Avenue, Ocala, FL 34470 Phone 352-347-8228
Owner Name Sunshine utilities of Central FL, Inc. Phone 352-347-8228
Owner Address 10230 East Highway 25, Belleview, FL 34420-5531
Contact Person Dewayne Christmas Title Owner/Office Manager Phone 352-347-8228
This Survey Date 2/6/2020 Last Survey Date 7/20/2017 Last Compliance Inspection Date N/A

PWS TYPE: Community

PLANT CATEGORY & CLASS: 5D

MAX-DAY DESIGN CAPACITY: 39,000 gpd

PWS STATUS: Approved

TREATMENT PROCESSES IN USE
Hypochlorination

SERVICE AREA CHARACTERISTICS
Apartment/Mobile home park
Food Service: ☐ Yes ☐ No ☒ N/A

Number of Service Connections 24
Population Served 48 Basis Operator

OPERATION & MAINTENANCE LOG: Yes
Location Plant
Comments

CERTIFIED OPERATOR: Yes
Operator(s) & Certification Class-Number:
Kelvin Edun C-7419

Hrs/day: *Required* Visit *Actual* Visit
Days/wk: *Required* 2 *Actual* 2
Non-consecutive Days? ☒ Yes ☐ No ☐ N/A
Comments

MONTHLY OPERATION REPORTS (MORs)
MORs submitted regularly? ☒ Yes ☐ No ☐ N/A
Data missing from MORs? ☒ No ☐ Yes ☐ N/A
Average Day (from MORs) 3,504gpd
Maximum Day (from MORs) 7,600 gpd 04/2019
Comments

Flow Measuring Device Flow Meter
Meter Size & Type 2" Master
Date Last Calibrated 5/30/2019

RAW WATER SOURCE
☒ GROUND; Number of Wells 1
☐ PURCHASED from PWS ID #
☐ Emergency Water Source
Emergency Water Capacity

STANDBY POWER SOURCE: Not Required
Source
Capacity of Standby (kW)
Switchover: ☐ Automatic ☐ Manual
Hrs Operated Under Load
What equipment does it operate?
☐ Well Pumps
☐ High Service Pumps
☐ Treatment Equipment
Satisfy avg. daily demand? ☐Yes ☐No ☐Unknown
Audio-visual alarm? ☐Yes ☐No
Comments

PLANS AND MAPS

Coliform Sampling Plan	☒ Yes	☐ No	☐ N/A
D/DBP Monitoring Plan	☒ Yes	☐ No	☐ N/A
Lead and Copper Plan	☐ Yes	☐ No	☒ N/A
Distribution System Map	☐ Yes	☐ No	☒ N/A
Emergency Response Plan	☐ Yes	☐ No	☒ N/A

Comments

PREVENTIVE MAINTENANCE/O&M

Operation & Maintenance Manual	☒ Yes	☐ No	
Preventive Maintenance Program	☒ Yes	☐ No	☐ N/A
Flushing Program	☐ Yes	☐ No	☒ N/A
Records	☐ Yes	☐ No	☒ N/A
Isolation Valve Exercise	☐ Yes	☐ No	☒ N/A
Records	☐ Yes	☐ No	☒ N/A

Comments

CROSS CONNECTION CONTROL
BFPAs None # Tested N/A
WWTP RPZ N/A Date Tested N/A
Written Plan Yes Date Unknown
Comments

PWS ID # 3421554
Date 2/6/2020

GROUND WATER SOURCE

Well Number (Florida Unique Well ID #)		1			
Year Drilled		1991			
Depth Drilled		240’			
Drilling Method		Combination			
Type of Grout		Neat Cement			
Static Water Level		38’			
Pumping Water Level		Unknown			
Design Well Yield		Unknown			
Test Yield		Unknown			
Actual Yield (if different than rated capacity)		Unknown			
Strainer		Unknown			
Length (outside casing)		63’			
Diameter (outside casing)		4”			
Material (outside casing)		Black Steel			
Well Contamination History		None			
Is inundation of well possible?		No			
6’ X 6’ X 4” Concrete Pad		Yes			
SET BACKS	Septic Tank	>100’			
	Reuse Water	N/A			
	WW Plumbing	>100’			
	Other Sanitary Hazard	None Observed			
PUMP	Type	Submersible			
	Manufacturer Name	Grundfos			
	Model Number	Unknown			
	Rated Capacity (gpm)	50			
	Motor Horsepower	5			
Well casing 12” above grade?		Yes			
Well Casing Sanitary Seal		Ok			
Raw Water Sampling Tap		Yes			
Above Ground Check Valve		Yes			
Security		Yes			
Well Vent Protection		Yes			

COMMENTS _____

PWS ID # 3421554
Date 2/6/2020

CHLORINATION (Disinfection)
Type: ☐ Gas ☒ Hypo
Make Chem-Tech Capacity 30 gpd
Chlorine Feed Rate 50 % stroke rate
Avg. Amount of Cl_2 gas used N/A
Chlorine Residuals: Plant 1.4 Remote 0.77
Remote tap location Outside Spigot
DPD Test Kit: ☐ On-site ☒ With operator
☐ None ☐ Not Used Daily
Injection Points Prior to the hydropneumatics tank
Booster Pump Info N/A
Comments

Chlorine Gas Use Requirements	YES	NO	Comments
Dual System	☐	☐	
Auto-switchover	☐	☐	
Alarms:			
Loss of Cl_2 capability	☐	☐	
Loss of Cl_2 residual	☐	☐	
Cl_2 leak detection	☐	☐	
Scale	☐	☐	
Chained Cylinders	☐	☐	
Reserve Supply	☐	☐	
Adequate Air-pak	☐	☐	
Sign of Leaks	☐	☐	
Fresh Ammonia	☐	☐	
Ventilation	☐	☐	
Room Lighting	☐	☐	
Warning Signs	☐	☐	
Repair Kits	☐	☐	
Fitted Wrench	☐	☐	
Housing/Protection	☐	☐	

AERATION (Gases, Fe, & Mn Removal)
Type Capacity
Aerator Condition
Visible Algae Growth
Protective Screen Condition
Frequency of Cleaning
Date Last Inspected/Cleaned
Comments

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

Tank Type/Number	H	
Capacity (gal)	1,000	
Material	Steel	
Gravity Drain	Yes	
By-Pass Piping	Yes	
Protected Openings	Yes	
Sight Glass or Level Indicator	Yes	
PRV/ARV	PRV	
Pressure Gauge	Yes	
On/Off Pressure	30/50	
Access Secured	Yes	
Access Manhole	No	
Tank Sample Tap Location	On tank	
Date of Inspection	N/A	
Date of Cleaning	N/A	

Comments

HIGH SERVICE PUMPS

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

Comments

DEFICIENCIES:

None Noted

COMMENTS:

- **Contact FRWA (Florida Rural Water Association) at 850-668-2746, or** frwa@frwa.net, for free technical assistance with your system. FRWA has extended benefits offered to members.
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.

  Checking the calibration of finished-drinking-water meters at treatment plants shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water. [Rule 62-555.350(2), F.A.C.]
- Suppliers of water shall submit written notification to the Department before beginning work or alterations to the public water system. Each notification shall be submitted to the appropriate Department of Environmental Protection District Office or Approved County Health Department and shall include the following: a description of the scope, purpose, and location of the work or alterations; and assurance that the work or alterations will comply with applicable requirements listed in Rule 62-555.330, F.A.C. Suppliers of water may begin such work or alterations 14 days after providing notification to the Department unless they are advised by the Department that the notification is incomplete or that a construction permit is required.
- Suppliers of water shall telephone the SWO at 1-800-320-0519 immediately (i.e., within two hours) after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving a public water system. [Rule 62-555.350(10)(a), F.A.C.]
- Suppliers of water shall telephone, and speak directly to a person at, the appropriate DEP District Office as soon as possible, but never later than noon of the next business day, in the event of any of the following emergency or abnormal operating conditions:
  - The occurrence of any abnormal color, odor, or taste in a public water system's raw or finished water;
  - The failure of a public water system to comply with applicable disinfection requirements; or
  - The breakdown of any water treatment or pumping facilities, or the break of any water main, in a public water system if the breakdown or break is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(b), F.A.C.]
- Suppliers of water shall notify affected water customers in writing or via telephone, newspaper, radio, or television; and telephone, and speak directly to a person at, the appropriate DEP District Office by no later than the previous business day before taking PWS components out of operation for planned maintenance or repair work if the work is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(d), F.A.C.]
- Suppliers of water shall issue precautionary “boil water” notices as required or recommended in the Department of Health’s “Guidelines for the Issuance of Precautionary Boil Water Notices” as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(11), F.A.C.]

PWS ID # 3421554
Date 2/6/2020



Inspector Signature

Ellia Ruggiero
Printed Name

Environmental Specialist II
Title

2/06/2020
Date



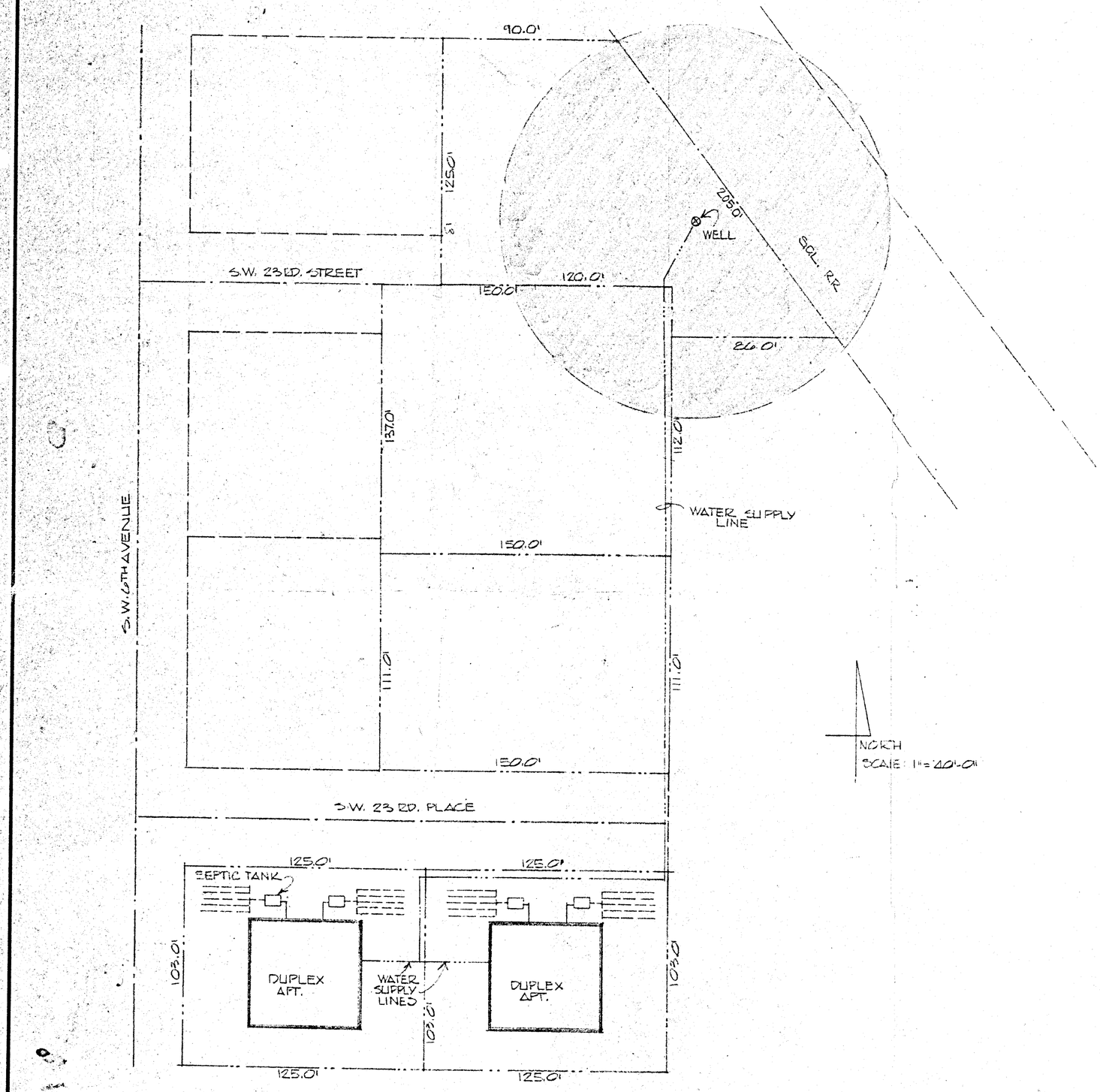
Reviewer Signature

David Smicherko
Printed Name

Environmental Manager
Title

2/17/2020
Date

APPENDIX F: DISTRIBUTION MAP



NORTH
SCALE: 1"=40'-0"

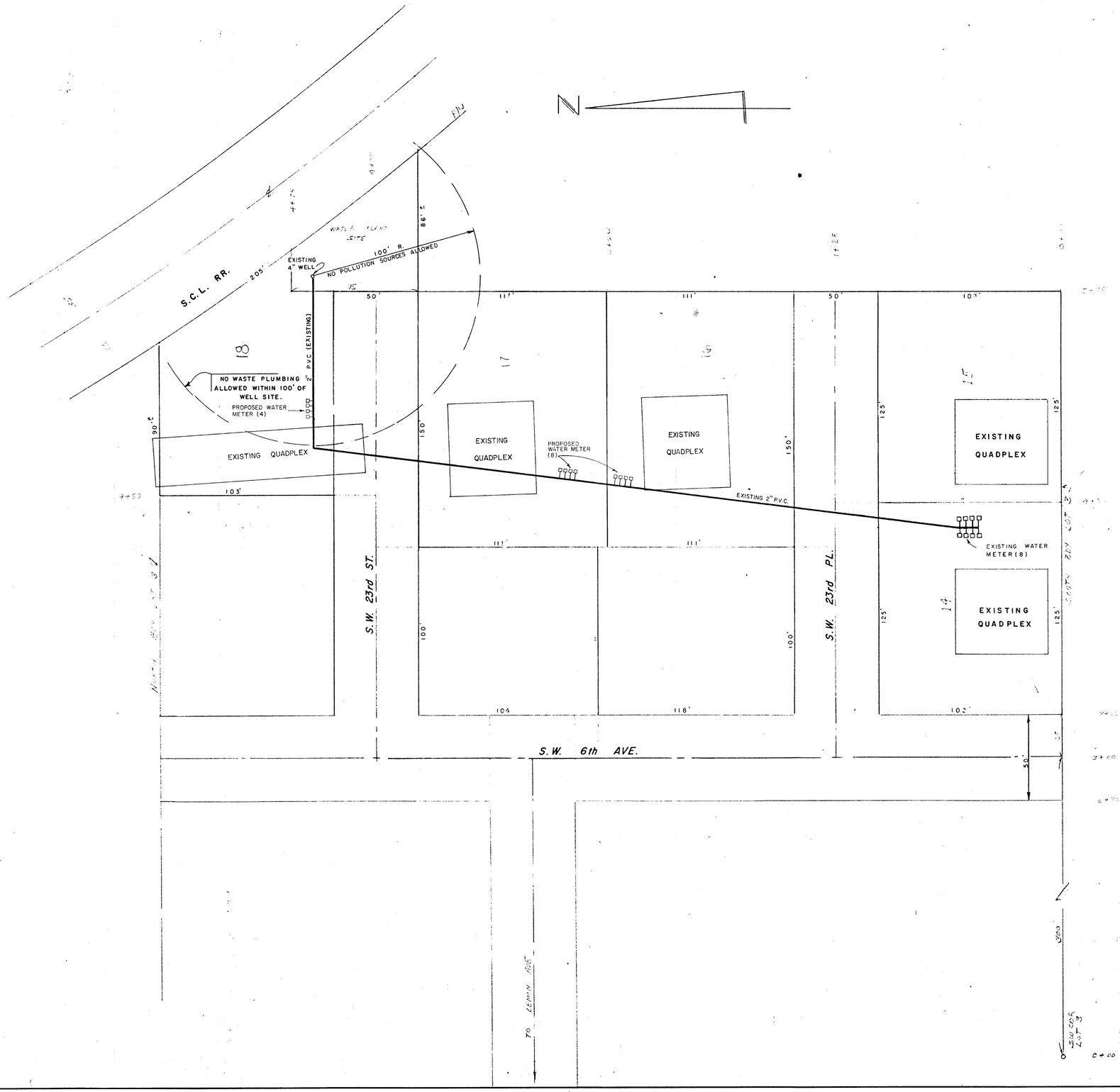
SITE PLAN

PLANS BY...

MEDIA DESIGN OF FLORIDA
116 S. MAGNOLIA AVE.
SUITE 12
OCALA, FLA. 32670
904 732-2921

A PROPOSED APARTMENT COMPLEX FOR...
C.R. THOMPSON
OCALA, FLA.

SCALE:	APPROVED BY:	DRAWN BY
DATE:		REVISED
		DRAWING NUMBER 77080


S.C.L. RR.
205'
WATER PLANT SITE
100' R
NO POLLUTION SOURCES ALLOWED
EXISTING 4" WELL
86' ±
NO WASTE PLUMBING ALLOWED WITHIN 100' OF WELL SITE.
PROPOSED WATER METER (4)
2" P.V.C. (EXISTING)
90' ±
EXISTING QUADPLEX
103'
EXISTING QUADPLEX
EXISTING QUADPLEX
EXISTING QUADPLEX
PROPOSED WATER METER (8)
EXISTING 2" P.V.C.
EXISTING WATER METER (8)
S.W. 23rd ST.
S.W. 23rd PL.
S.W. 6th AVE.
TO LENNIN AVE.
50'
111'
111'
50'
103'
125'
150'
100'
104'
118'
102'
50'
75'
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woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Ocala Heights Subdivision

210 South Florida Avenue | Suite 220
Lakeland, Florida 33801
800.426.4262

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

0233748.01
CSWR
July 2021

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Definitions

» Aquifers
» Public Water Systems
» Assessment
» Potential Contaminants
» Susceptibility
» Prevention

Contact Us

» Email
» Mailing Address
» Source Water Protection Workshop

EPA Source Water Protection website

Source Water Assessment & Protection Program

Results for: 2019

OCALA HEIGHTS S/D
CR314(7TH ST)& NE 68TH CT
OCALA, FL 34420

Public Water System ID: 3424651
County: MARION
DEP Regulatory Office: DEP Central District
3319 Maguire Blvd, Suite 232
Orlando, FL 32803
407-897-4100
Public Water System Type : COMMUNITY
Public Water System Source : GROUND
Primary Use: MOBILE HOME PARK
Population Served: 825
Size of Assessment Area:
GROUND: For this system, a 1000-foot radius circle around each well was used to define the assessment area.

Number of Wells: 2

Well ID	Owner ID	FLUWID	Status	Well Depth(ft)	Aquifer
5982	WELL#1 6"90'/150' 120GPM	N/A	ACTIVE	150	Floridan Aquifer
5983	WELL#2 8" 125'/140' 470GPM	AAE0277	ACTIVE	140	Floridan Aquifer

Results:

GROUND WATER:

Number of Unique Potential Contaminant Sources: 2

Facility Type	Facility Class	Status	Name	Affected Well	Susceptibility Score	Concern Level
DOMESTIC WASTEWATER	WASTEWATER SITE	A	Ocala East Villas WWTF	5983	0.03	LOW
DOMESTIC WASTEWATER	WASTEWATER FACILITY	A	Ocala East Villas WWTF	5982	0.03	LOW
DOMESTIC WASTEWATER	WASTEWATER SITE	A	Ocala East Villas WWTF	5982	0.03	LOW

DOMESTIC WASTEWATER	WASTEWATER FACILITY	A	Ocala East Villas WWTF	5983	0.03	LOW

Last updated: February 19, 2020

Accessibility Information

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Exit Disclaimer
Privacy Statement

3900 Commonwealth Boulevard M.S. 49 Tallahassee, Florida 32399
850-245-2118 (phone) / 850-245-2128 (fax)

APPENDIX B: TANK INSPECTION REPORT

INSPECTION AND TESTING of HYDROPNEUMATIC TANK

Ocala Heights Tank

Pursuant to Chapter 62-555.350 (1) & (2) F.A.C

Water System:	Ocala Heights
Street Address:	NE 68th Street & NE 2nd Loop
City, State:	Ocala, Florida
Phone:	352-347-8228
Contact:	Dewaine Christmas
E-mail:	sunshineutl@aol.com
PWS ID No.:	3424651
County:	Marion
Classification:	Community
Source:	Ground
Ownership:	Sunshine Utilities of North Central Florida
Date:	April 2, 2019

Inspection and Testing by:

Robert M. Couch III, P.E.
ENVIRO-TECH, Inc.
PO Box 152
Weirsdale, FL 32195
Telephone: 352-694-1799
E-mail: envirotech@ymail.com

ROBERT M. COUCH III ★ LICENSE ★ No. 55311 ★ STATE OF FLORIDA ★ PROFESSIONAL ENGINEER

C.O.A. No. 8692 Registration No. 55311

Robert M. Couch III, P.E.

Digitally signed by Robert M. Couch III, P.E.
DN: cn=Robert M. Couch III, P.E., o=ENVIRO-TECH, Inc., ou=Reg. No. 55311, email=envirotech@ymail.com, c=US
Date: 2019.04.04 00:51:11 -04'00'

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1.0 EXECUTIVE SUMMARY

ENVIRO-TECH, Inc. was contracted to perform the five year tank condition inspection on the above mentioned hydro-pneumatic tank.

This condition inspection was performed on April 2, 2019 by Robert M. Couch III, P.E. on the above referenced water tank. The tank was drained and, an internal and external inspection was performed to assess the tank condition as required by the Florida Department of Environmental Protection (FDEP) Rule 62-555.

The tank shell and heads appeared to be in overall fair structural condition. Ultrasonic Thickness Measurement (UTM) readings indicated that the average thickness of the tank shell at the time of the field inspection was approximately 6.61 millimeters. UTM readings from the tank heads indicated an average thickness of 6.52 millimeters. The exterior coating of the tank appeared to be in overall fair condition with minor surface corrosion. The interior coating of the tank appeared to be in fair condition with minor surface corrosion throughout the tank walls.

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 50 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected at the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 50 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

2.0 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS CHAPTER 62-555.350 (1) & (2)

2.1 Operation and Maintenance of Public Water Systems

(1) Suppliers of water shall operate and maintain their public water systems so as to comply with applicable standards in Chapter 62-550, F.A.C., and requirements in this chapter.

(2) Suppliers of water shall keep all necessary public water system components in operation and shall maintain such components in good operating condition so the components function as intended. Preventive maintenance on electrical or mechanical equipment – including exercising of auxiliary power sources, checking the calibration of finished-drinking-water meters at treatment plants, testing of air or pressure relief valves for hydropneumatic tanks, and exercising of isolation valves –shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water; however, in no case shall auxiliary power sources be run under load less frequently than monthly. Accumulated sludge and biogrowths shall be cleaned routinely (i.e., at least annually) from all treatment facilities that are in contact with raw, partially treated, or finished drinking water and that are not specifically designed to collect sludge or support a biogrowth; and blistering, chipped, or cracked coatings and linings on treatment or storage facilities in contact with raw, partially treated, or finished drinking water shall be rehabilitated or repaired. **Finished-drinking-water storage tanks, including conventional hydropneumatic tanks with an access manhole but excluding bladder- or diaphragm-type hydropneumatic tanks without an access manhole, shall be checked at least annually to ensure that hatches are closed and screens are in place; shall be cleaned at least once every five years to remove biogrowths, calcium or iron/manganese deposits, and sludge from inside the tanks; and shall be inspected for structural and coating integrity at least once every five years by personnel under the responsible charge of a professional engineer licensed in Florida.** Dead-end water mains conveying finished drinking water shall be flushed quarterly or in accordance with a written flushing program established by the supplier of water; additionally, dead-end or other water mains conveying finished water shall be flushed as necessary whenever legitimate water quality complaints are received.

2.2 Location of Inspection and Testing Report

Pursuant to Chapter 62-555.350 (2) and 62-555.350 (12) FAC, beginning 28 August 2003, all water systems regardless of size must maintain a copy up-to-date Preventive Maintenance Logs of each water system in the water facility office. The Preventive Maintenance Logs must show the date and type of all maintenance performed and comply with Rule 62-555.350 (2) and 62-555.350 (12), which requires the following:

- Preventive Maintenance Logs on Electrical and Mechanical Equipment
- Cleaning and Inspection Logs of Treatment Facilities and Storage Tanks
- Records of Coatings and Linings Rehabilitation or Repair
- Licensed Engineer Inspection Report (once every 5-years) for Finished-Drinking-Water Storage Tanks and Hydropneumatic Tanks
- Written Flushing Program and Logs showing that Dead-End Water Mains are being flushed at least quarterly
- Isolation Valves Exercise Logs

A copy of this report should be kept with these records.

3.0 HYDROPNEUMATIC PRESSURE TANK INSPECTION AND TEST PROCEDURES

This Inspection and Test Procedures is used as a reference in the overall inspection and testing of this Water System. This procedure is to be updated from time to time to reflect physical and procedural changes to the water system.

Inspection and testing of this tank was conducted by Robert M. Couch III, P.E. with the assistance of Jim Hodges Jr. of Sunshine Utilities of North Central Florida, Inc. The following inspection and testing procedures for hydropneumatic pressure tanks were used:

3.1 Pre-Test Procedures

1. If water service is to be interrupted customers must be notified in advance and if appropriate, boil water notices issued.

2. Turn-off all electrical power to well pumps, air motors, chlorination equipment, etc.

3. Open drain valve to empty tank. This is also a good time to check the valves (exercise them) that isolate the tank to see if they are in fact working as they should. This downtime can also be used to replace a valve if needed.

4. Once depressurized, the site glass is inspected for proper operation.

5. Once the tank is drained, the manway (hatch) will need to be removed for inspection of the interior.

3.2 Visual Inspection

6. Perform visual inspection of the tank exterior and accessories for presence of leaks, shell distortion, signs of settling, deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, accessories, etc.

7. Tank layout and physical measurements

8. Color photographs of the tank exterior and all of the essential appurtenances

9. Perform visual inspection of the tank interior for presence of deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, bio-growths, calcium or iron/manganese deposits, sludge, etc.

3.3 Nondestructive Examination

10. The tank interior coating is then examined for dry film thickness (See PosiTest® DFT Coating Thickness Gauge measurement) or equivalent.

11. The tank exterior is then examined for thickness measurements (See Smart Sensor AR 850+ Ultrasonic Thickness Gauge measurement).

12. If deemed necessary, the tank exterior (or interior) is then examined for porosity, pinholes and leaks (See PCWI porosity detection test, also known as holiday detector test).

3.4 Post-Test Procedures

13. Any coating problems detected should be corrected while the tank is out of service in order to avoid further extensive downtime.

14. Once the tank is inspected and all maintenance items are taken care of, the tank will need to be disinfected prior to placing back in use.

15. Once the tank has been disinfected, bacteriological tests must be performed on water samples (2 per FDEP) taken from the tank discharge. FDEP to clear for service prior to placing back in service.

3.5 Safety of Test Area

The test area should be restricted and barricaded. The porosity testing instrument output can be up to 20,000 volts. Testing should be carried out well clear of personnel not involved in the testing procedure. Should accidental contact be made with the test electrode, the recipient will receive a mild shock. This equipment should never be used by a person with a pacemaker.

4.0 TEST EQUIPMENT DESCRIPTIONS

4.1 AR 850+ Ultrasonic Thickness Gauge



The Smart Sensor AR 850+ Digital Ultrasonic Thickness Gauge is an economical, user-friendly, menu driven, and multi-functional unit offering extensive features from basic measurements to extended memory. This dynamic series of UT gauges is designed to measure the thickness of metallic and non-metallic materials such as steel, aluminum, titanium, plastics, ceramics, glass and any other good ultrasonic wave conductor as long as it has parallel top and bottom surfaces. The AR 850+ gauges will accurately display readings in millimeters after a simple calibration to a known Thickness or sound velocity.

4.1.1 Features

- Main Unit
- Transducer 5 MHz / 2.5 MHz
- Integrated steel calibration plate 4.0mm
- Batteries (2 x AAA)
- Ultrasonic Couplant
- Operation Manual
- Certificate
- Carrying Case
- One Year Warranty

4.1.2 Technical Specification

Display Type	4-digit LCD
Display Resolution	(<100 mm) 0.1 mm
Units	Metric
Measuring Range (steel)	1.2 to 220.0 mm
Sound Velocity Range	1000 to 9999 m/s
Operating Temperature	0 ° C +45° C
Frequency	5 MHz
Power Source	3 X 1.5V AAA batteries
Dimensions	70x145.5x28 mm

4.2 Compact DC Inspector Porosity Detector



Porosity detection of Tanks, Valves, Pumps, Pipeline field joints, and general inspection and maintenance. Suitable for a broad range of testing and inspection requirements. It is recommended that the integral probe be limited to a 125mm flat brush or fan brush.

4.2.1 Standards

ASTM G62-87(1998), ASTM D4787-93(1999), NACE RP0274-98, NACE RP0490-2001, NACE RPO188- 99, JIS G-3491, JIS G-3492, ANSI/AWWA C214-89, ANSI/AWWA C213-94 and ISO 2746:1998

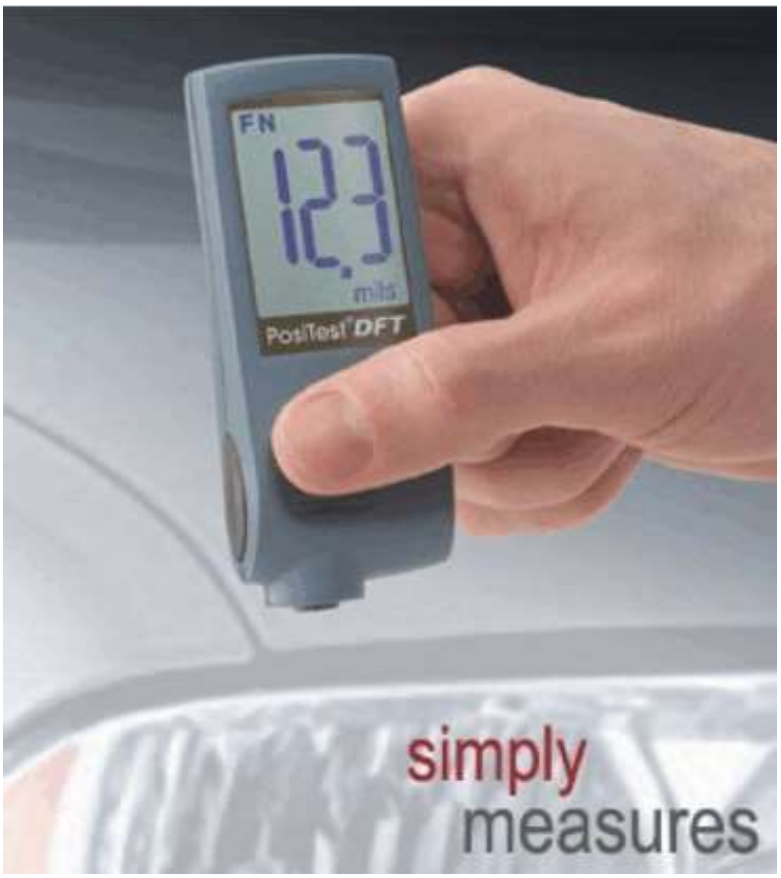
4.2.2 Features

- LED bar graph display of voltage
- "Single" hand-held, lightweight unit for simplicity and ease of operation
- Audible and visual alarms
- LED battery condition indicator
- Integral probe
- Detector
- 7m Earth lead and clamp
- Flat 125mm wide brass wire brush (or optional fan brush)
- Carry Case
- Operating instructions with conformance certificate
- Variable output up to 10kV or Variable output up to 20kV

4.2.3 Technical Specifications

Test Voltage	to 10kV (using 9V Battery)
Output Test Current	up to 100µA
Operating Temperature	-20 to +50ºC
Power Supply	Battery (9V internal)
Unit Dimensions	210 x 75 x 35mm (excl brush) 8.25" x 3.1" x 1.5"
Unit Weight	460g (incl probe)
Shipping Weight	1.5Kg

4.3 PosiTest DFT Coating Thickness Gauge



The new PosiTest DFT Coating Thickness Gauge measures coatings on ALL metals. It is the economical choice that retains the uncompromising quality of Qualitest inspection instruments.

Available in two models:

- PosiTest DFT Ferrous - measures non-magnetic coatings on steel.
- PosiTest DFT Combo - measures both non-magnetic coatings on steel and non-conductive coatings on aluminum, brass, etc. Automatically recognizes the substrate and takes a measurement.

4.3.1 Standards

ASTM B244/B499/B659/D1186/D1400/E376/G12, BS3900-C5, SSPC-PA2, ISO 2178/2360/2808, prEN ISO 19840, and others. Certificate of Calibration traceable to NIST available.

4.3.2 Features

- Fast, repeatable measurements
- No calibration required for most applications
- ZERO feature for rough or curved surfaces
- Handy RESET feature when no zero reference is available
- Strong, wear resistant, ruby-tipped probe
- Audible and visible measurement indication
- V-groove in probe for positioning on cylindrical parts
- Mils/Microns switchable
- Basic instructions on the back of each gauge

4.3.3 Technical Specifications

Measurement Range	0-40 mils (-1000 µm)
Accuracy	±(0.1 mils + 3%) (±(2µm + 3%))
Size	4 x 1.5 x 0.9 in (100 x38 x 23 mm)
Weight	2.5 oz (70 g)



5.0 HYDROPNEUMATIC PRESSURE TANK DESCRIPTION

The hydropneumatic pressure tank inspected and tested is described as follows:

Length: 27'-8" (31'-8" including elliptical heads)
Diameter: 7'-6" outside diameter
Volume: 10,000 gallons with elliptical heads
Tank Age: Unknown
Operating Pressure: 60 psi

6.0 TESTING

6.1 Porosity Testing

The tank surface was not swept with the Compact DC Inspector Porosity Detector during this inspection as no evidence of pin holes was observed throughout the surface of the tank.

6.2 Interior Coating Testing

No dry film thickness readings were taken within the tank interior as the coating had begun to fail along portions of the tank ridge and walls..

6.3 Ultrasonic Metal Thickness Testing

A total of 49 metal thickness readings were taken at various locations on the tank shell and head surface. The average shell reading was 6.61 millimeters in the cylindrical section and 6.52 millimeters in the elliptical heads. Typical industry standard minimum wall thickness for tanks of this size is 3/8" (9.53 mm).

7.0 VISUAL OBSERVATIONS

7.1 Tank Exterior

The exterior of the tank appeared to be in fair structural condition.

7.2 Tank Interior

The tank interior appeared to be in fair condition. there were areas throughout the tank interior where the coating had begun to fail and corrosion had formed on the interior tank surface.

8.0 DEFINITIONS

Design Pressure - The maximum design pressure determined from the metal thickness.

Maximum allowable working pressure (MAWP) – Maximum pressure that the pressure tank is capable of safely holding at a design maximum temperature (250ºF).

Operating Pressure - The normal maximum operating pressure of the pressure tank. The normal operating pressure must always be below the MAWP. As a rule of thumb the maximum operating pressure should always be less than the MAWP.

Metal Thickness – The thickness of the pressure tank wall (not including a corrosion allowance) to be used in the pressure calculations.

Design Safety Factor on Metal Tensile Strength – A pressure tank is normally designed with a safety factor of 3 to 4 on the metal tensile strength. All pressure tanks are designed to operate with wall stresses below the yield point of the metal used for fabrication.

9.0 TANK PRESSURE CALCULATIONS

The following formula is found in ASME Section I for determination of MAWP:

For tanks with circumferential stress on (longitudinal joints)

P = SEt/(R+0.6t)
= 60 MPa x 1.0 x 6.61 mm / (1136 mm+0.6 x 6.61 mm)
= 0.348 MPa
= 50 psi

When:

t < 0.5R = 0.5 x 1136 = 568.20 mm (true) or
P < 0.385SE = 0.385 x 60 x 1.0 = 23.1 MPa (true)

Where:

t = metal thickness (mm) where t = 6.61 mm
R = inside radius of shell course under consideration (mm) = 1,136 mm
E = joint efficiency for cylindrical or spherical shells = 1.0 for welded tanks and corresponds to a safety factor of 3.5 in the parent metal.
P = maximum allowable working pressure (MPa) where 1 MPa = 145 psi
S = maximum allowable stress value at the operating temperature of the metal = 60 MPa (Safety Factor of 4).

10.0 CONCLUSIONS

Inspection and testing of the Ocala Heights 10,000-gallon hydropneumatic pressure tank was performed on April 2, 2019. In addition to a visual examination, non-destructive examinations were also made. Non-destructive examinations included ultrasonic measurement of the tank wall thickness and visual inspection for pinholes and leaks. No examination of Dry Film Thickness Measurement (DFTM) of the interior coating was performed as the coating had already failed.

Observations of the tank exterior indicated tank is subject to normal exposure. Observations of tank interior revealed light surface corrosion throughout the tank interior.

11.0 RECOMMENDATIONS

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 50 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected at the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 50 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

Signed: Robert M. Couch III Date: 4/4/2019

Robert M. Couch III, P.E. Registration No. 55311

Exterior and interior views of tank







APPENDIX C: EMERGENCY RESPONSE PLAN

Disaster-Specific Preparedness/Response Plan

for Public Drinking Water Systems

Per Chapter 62-555.350 (15) F.A.C.

Sunshine Utilities

OCALA HEIGHTS

Address:	10230 East Hwy. 25 Belleview, FL 34420
Phone:	352-347-8228
Fax:	352-347-6915
Contact:	Dewaine Christmas, Manager
E-mail:	SunshineUtl@AOL.COM
Connections:	365
PWS:	3424651
County:	Marion

May 17, 2013

Department of Environmental Protection
Michael D. LeRoy, P.E.
John R. Sowerby, P.E.

FRWA Security Staff
Sterling L. Carroll, P.E.
Ken Klos, P.E.
Coy Donaldson

For more information or additional copies of this document contact:

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2970 Wellington Circle ~ Suite 101 ~ Tallahassee
Telephone: 850-668-2746 ~ Fax: 850-893-4581
e-mail: FRWA@frwa.net

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This template and guide has been developed by the Florida Rural Water Association (FRWA) in collaboration with the Washington State Department of Health, Office of Drinking Water, Olympia, Washington; and reviewed by Florida Department of Environmental Protection.

Acknowledgment of federal government support of this project:

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Preface
Chapter 62-555.350 (15) FAC

Disaster-Specific Preparedness/Response Plans

(15) Suppliers of water who own or operate a community water system serving, or designed to serve, 350 or more persons or 150 or more service connections shall develop a written emergency preparedness/response plan in accordance with Emergency Planning for Water Utilities, AWWA Manual M19, as adopted in Rule 62-555.335, F.A.C., by no later than December 31, 2004, and shall update and implement the plan as necessary thereafter. Said suppliers of water shall coordinate with their Local Emergency Planning Committee and their Florida Department of Law Enforcement Regional Security Task Force when developing their emergency plan and shall include in their plan all of the information in paragraphs (a) through (e) below.

(a) A Communication Charts as described in Chapter 5 of AWWA Manual M19.

(b) Written agreements with other agencies, utilities, or response organizations.

(c) A disaster-specific preparedness/response plan as described in Chapter 5 of AWWA Manual M19 for each of the following disasters: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release. Each disaster-specific preparedness/response plan shall incorporate the results of a vulnerability assessment; shall include actions and procedures, and identify equipment, that can obviate or lessen the impact of such a disaster; and shall include plans and procedures that can be implemented, and identify equipment that can be utilized, in the event of such a disaster.

(d) Details about how the water system meets the standby power requirements under subsection 62-555.320(14), F.A.C., and, if applicable, recommendations regarding the amount of fuel to maintain on site, and the amount of fuel to hold in reserve under contracts with fuel suppliers, for operation of auxiliary power sources.

(e) If applicable, recommendations regarding the amount of drinking water treatment chemicals, including chemicals used for regeneration of ion-exchange resins or for onsite generation of disinfectants, to maintain in inventory at treatment plants.

Specific Authority 403.861(9) FS. Law Implemented 403.852(12), 403.853(6), 403.861(17) FS. History-New 11-19-87, Formerly 17-22.650, Amended 1-18-89, 1-1-93, Formerly 17-555.350, Amended 8-28-03.

Time Extension for Submitting/Completing ERP – December 31, 2005

From: Hoofnagle, Van
Sent: Thursday, October 21, 2004 11:25 AM
Subject: Time Extension for Submitting/Completing ERP
Importance: High

I am sending this e-mail because of possible confusion in some FDEP District Offices or ACHDs regarding the deadline for compliance with the emergency preparedness/response plan requirements in FAC subsection 62-555.350(15).

As John Sowerby and other staff mentioned during Focus On Change presentations early this year on FAC Rule 62-555.350 and during training this summer on the recent amendments to FAC Chapter 62-555, the FDEP intends to amend FAC subsection 62-555.350(15) to give all affected community water systems (i.e., all community water systems serving 350 or more persons or 150 or more service connections) **until the end of 2005** instead of the end of this year to complete a comprehensive emergency preparedness / response plan as required by FAC subsection 62-555.350(15). At this point, it will likely be after the end of this year before we officially make this change to FAC subsection 62-555.350(15). In the meantime, please do not take any enforcement action against

community water systems who fail to meet the 12/31/04 deadline in FAC subsection 62-555.350(15). Thanks.

Van Hoofnagle
DEP Drinking Water Administrator

Section 1
Communication Charts

The first response step in any emergency is to inform the person at the top of this list, who is responsible for managing the emergency and making key decisions. List the water system chain of command in order of contact.

Water System Chain of Command – Lines of Authority

Order	Name & Title	Responsibilities During an Emergency	Contact Information
1	Dewaine Christmas Manager	Responsible for overall management and decision making. The manager is the lead for managing the emergency and providing information to regulatory agencies. All communications to external parties are to be approved by the manager.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl@AOL.Com
2	James Hodges Jr. Field Supervisor	Responsible for decision making in the field. In charge of overall maintenance, and repairs to all components of water system.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl @AOL.Com
3	Kelvin Edun Water Treatment Plant Operator	Responsible for running water treatment plant, performing inspections, maintenance, sampling and relaying all critical information to Field Supervisor.	Phone: Cell: 352-875-5141 Email:
4	Pamela Christmas Office	Responsible for assisting the manager in administrative duties and emergencies.	Phone: 352-347-8228 Cell: 352-245-4743 Email:
5			Phone: Cell: Email:
6			Phone: Cell: Email:
7			Phone: Cell: Email:

Emergency Notification

Notification call-up lists - Use these lists to notify important parties of an emergency.

Emergency Notification List

Organization or Department	Name & Position	Telephone	Cell Phone	e-mail
State Warning Point	**Duty Officer**	**800-320-0519**	800-320-0519	N/A
Local Law Enforcement	EOC Commander	352-622-3205		Pstefanski@sheriff.marioncountyfl.org
Fire Department		911		
Emergency Medical Services		911		
Water Operator (if contractor)	Kelvin Edun Operator	352-875-5141		
County Health Department	Tom Moore Director of Environmental Health	352-622-7744	352-266-7486	
DEP District Office	Manny Cardona	407-897-4134	Fax 407-893-4418	
County Emergency Management Dept.	Chip Wildy	352-622-3205		
Local Leader (City Mgr., Mayor, Chair. Co. Comm., etc.)				
Local Hazmat Team (if any)		911		
Hazmat Hotline		911		
National Spill Response Center.	Duty Officer	800-424-8802	800-424-8802	N/A
Interconnected Water System(s)				
Neighboring Water System (not connected)				
FRWA Water Circuit Rider	David Hannah	850-668-2746	352-267-5108	

Priority Customers

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Hospital Or Clinic(s)				
Nursing Home(s)				
Public Schools				
Private Schools				
Wastewater Treatment Plant				
Food Processing Or Other Industry				

Service / Repair Notifications

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Electric Utility Co.	City of Ocala	352-651-6666		
Electrician	Melville Electric	(352)245-0600		
Gas / Propane Supplier	Belleview Gas	(352)245-6055		
Water Testing Lab.	Aqua Pure Lisa Saupp	352-625-2822		
Sewer Utility Co.				
Telephone Co.	Sprint	800-788-3600	611	
Plumber	Allen Curry Plumbing	352-427-7036		
Pump Supplier	Coast Pump	352-620-0616	352-266-4277	Coastpumpocal@hotmail.com
"Dig Safe" or "One Call"	Sunshine One Call	800-432-4770		

Service / Repair Notifications				
Organization Or Department	**Name & Position**	**Telephone**	**Cell Phone**	**email**
Rental Equip. Supplier	B&M Rental	352-245-3133	352-245-9800	
Chlorine Supplier	Custom Controls	352-622-9244	352-304-0572	
Other Chemical Suppliers				
Radio/SCADA Repair Co.				
Bottled Water Service				
Bulk Water Supplier				
Well Drilling Co.	Earls Well Drilling	352-245-2324	352-817-0502	
Pipe Supplier	National Water Works	352-351-8144	352-266-4705	

Designated Public Spokesperson and Alternates

Designate a spokesperson (alternates) for delivering messages to the news media & public

Public Spokesperson	Name & Position	Telephone	Cell Phone
Spokesperson	Dewaine Christmas Manager	352-347-8228	352-239-1198
Alternate 1	James Hodges Jr. Supervisor	352-347-8228	352-239-1197
Alternate 2			

Key Messages

Develop possible messages in advance, and update them as the emergency develops
▪ We are aware of the emergency and are working diligently to restore your water service.

- If you fall under a boil water notice you must bring water to a rolling boil for a period of at least one minute. You only have to boil water for human cunsumption.

-

Health Advisories – Boil Water Notices

Use the assistance of your County Health Department and/or District FDEP office, and FDEP's Mandatory Health Effects Language, located on FDEP's website at:

http://www.doh.state.fl.us/environment/water/manual/boil.htm

http://www.DEP.state.fl.us/water/drinkingwater/rules.htm,

and click on "Mandatory Health Effects Language"., PLUS EPA's templates at:

http://epa.gov/safewater/pn.html

Click on "Microsoft Word and Word Perfect files of PN templates" (PN means Public Notifications), then determine which "Tier" of notifications is needed and click on the desired software to receive them in.

Section 2
Written Agreements With Other Agencies, Utilities, or Response Organizations

INSERT BELOW information regarding any written agreements with other agencies, utilities, or response organizations, such as emergency interconnects, mutual aid or FlaWARN.

Emergency Interconnect(s)

Information on the location of interconnection(s) (if any), type and size of interconnecting pipe, pumps and accessory equipment, meters at interconnection(s), normal pressures at both ends of interconnection, volume of water from interconnection(s), type of agreement and approvals needed for use, procedures necessary to use interconnection, etc.

Location (Street)	
Location (GPS)	
Description	

Memoranda of Understanding

Organization	
Summary of Understanding	

Mutual Aid Agreements

Organization	Marion Utilities, Austin 352-622-1171
Summary of Understanding	Will render mutual aide – ie: pumps, generators, and other materials necessary to restore water service.

FlaWARN

Organization	
Summary of Understanding	

Section 3
Disaster-Specific Preparedness/Response Plan

Your disaster-specific preparedness/response plan must include a Vulnerability Assessment and preparedness / response plans for: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release.

In any event there are a series of general steps to take:

1. Confirm and analyze the type and severity of the emergency.
2. Take immediate actions to save lives.
3. Take action to reduce injuries and system damage.
4. Make repairs based on priority demand.
5. Return the system to normal operation.

Vulnerability Assessment

It is essential that water systems identify and assess the vulnerability of each system component for both natural and human-caused emergencies, before preparing their disaster-specific preparedness/response plans. Prepare your Vulnerability Assessment by completing the table below:

Facility Vulnerability Assessment

System component	Description and condition	Vulnerability	Security improvements (indicate existing or proposed)
Raw Water Sources	(1) 6" & (1) 8" groundwater wells located several hundred feet from homes. Wells are in good condition. We have wellhead protection in place.	The wells are most vulnerable to above ground activities because they are only 180 & 179 FT deep.	1.Purchase land surrounding well. 2. Secure well house to foundation and install lighting around well house.
Pump-house and pumping facilities	The pump-house and pumping facility are in good condition.	Pump location is fully fenced with a locked gate.	Install tamper proof padlocks.
Treatment Facilities	There is a hypo-chlorination system inside of pump house. System is in good condition.	Chlorination systems are not subject to power outages.	There is a backup generator on site in compliance with CH. 62-555.320(14)FAC
Storage Facilities	Hydro pneumatic tank is fenced in good condition.	Tank is not in a lighted area.	Install lighting in area of tank.
Computer and telemetry systems	Computers are in utilities main office and are in good condition.	Computers should be better protected against cyber attack or hacking.	Secure computers with firewalls & virus protection.

A. Vandalism or Sabotage Response Procedures

1. Utility staff first aware of incident:
    a) Calls 9-1-1/ Local Law Enforcement.
    b) Calls Manager
2. Manager determines severity of incident.
    a) Field supervisor determines if vandalism or sabotage will effect the water quality.
    b) Manager reports incident to the state warning point.
3. Field supervisor directs repairs as needed.
    a) Complete repairs
    b) Update ERP as needed.

B. Drought Response Procedures

Include water use restrictions per Consumptive Use Permit

1. Manager coordinates with the local Water Management District (WMD) regarding drought conditions.
    a) If drought conditions exist, a water conservation plan will be initiated.
    b) Literature will be distributed to customers regarding the drought.
    c) Conservation material will be distributed to customers on conservation measures.
    d) Customers not abiding by restrictions will be reported to WMD.
    e) Manager updates ERP as needed.

C. Hurricane Preparedness & Response Procedures

Pre- Hurricane **(36 to 48 hrs prior to arrival)**	1. Manager coordinates with local EOC. 2. Field supervisor checks operation of standby power. 3. Field supervisor secures fuel and treatment chemicals for a 10 day period. 4. Manager replenishes inventory of spare parts.
Hurricane Watch **(24 to 36 hrs prior to arrival)**	1. Manager cancels all time off for employees. 2. Manager issues work assignments in advance in case of communication loss. 3. Employees all top off fuel in vehicles & standby generators. 4. Manager authorizes employees to secure their personal property and arrange for the safety of family members.
Hurricane Warning (24hrs or less prior to arrival)	1. Employees report to designated areas and wait for instructions. 2. Employees load truck with supplies. 3. Employees follow evacuation protocol.
Recovery Procedures	1. Manager coordinates with local EOC. 2. Manager issues boil water notices if needed. 3. Field supervisor coordinates repairs. 4. Manager makes contact with the appropriate DEP office. 5. After repairs are completed samples are taken. 6. When samples come back clear – boil water notice is lifted. 7. Manager files all malfunction reports with the DEP. 8. Field supervisor inspects all systems to make sure everything is running smooth.

D. Structure Fire Response Procedures

1. Utility staff discovering fire:
    a) Evacuate structure on fire.
    b) Call 9-1-1
2. Manager determines severity of incident.
    a) Manager contact State Warning Point.
    b) Field supervisor coordinates repairs when fire is extinguished.
3. Field supervisor reports to manager when repairs are complete.
    a) Manager reports completion of all repairs to any Gov. agency.
    b) Manager updates ERP as needed.

E. Flood Preparedness & Response Procedures

(Is any critical part of your system in a flood prone area?)

None of our systems are in a flood prone area.

F. Forest or Brush Fire Response Procedures

(Is any critical part of your system subject to forest or brush fires?)

1. Utility staff discovering fire.
    a) Orders evacuation of any threatened buildings.
    b) Calls 9-1-1 to report fire.
2. Manager determines the severity of fire.
    a) Manager contacts the State Warning Point.
    b) Field supervisor inspects for any damage and coordinates repairs after fire is extinguished.
3. Field supervisor reports to manager that all repairs are complete.
    a) Manager updates the ERP as needed.
    b)

G. Hazardous Material Release Response Procedures

Do you have any hazardous material (chlorine gas) at your water system?

We have no Hazardous materials at any of our water systems.

H. Other Disaster Response Procedures

Are there other disasters that you want to prepare for, such as a Contamination event, SCADA Attack, or Structural Damage from an Intentional Act?

Contamination

1.
   a)
   b)
2.
   a)
   b)

SCADA Attack

1.
   a)
   b)
2.
   a)
   b)

Structural Damage from an Intentional Act

1.
   a)
   b)
2.
   a)
   b)

Section 4
Standby Power Requirements

Include details about how the water system meets the standby power requirements as described in Ch. 62-555.320(14), and 62-555.350(15)(d) FAC for water source, treatment, and pumping facilities necessary to deliver drinking water at a rate at least equal to the Average Daily Water Demand.

Standby Power for Wells or Surface Water Intakes

Standby Power (or by alternate means) to OPERATE WELLS at Average Daily Demand

Average Daily Demand (ADD) in gpd or gpm	65070 gpd
Wells Needed to Supply Average Daily Demand	1
Standby Generator (kW) Needed for ADD &	25 KW
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	We will have reserve fuel in the case of an emergency.

Standby Power for Treatment Facilities

Standby Power (or by alternate means) to TREAT WATER at Average Daily Demand

Treatment Units Needed to Supply ADD	
Standby Generator (kW) Needed to Treat ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Standby Power for Pumps

Standby Power (or by alternate means) to PUMP WATER at Average Daily Demand

Pumps Needed to Supply ADD	
Standby Generator (kW) Needed to Pump ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Section 5
Drinking Water Treatment Chemicals & Disinfectants

Include recommendations regarding the amount of drinking water treatment chemicals, to maintain in inventory at treatment plants. Do not just list chemical storage capacity, but instead recommend the minimum amount of chemicals to maintain in inventory, which depends upon the location and reliability of chemical suppliers, the status of impending disasters, etc.

Disinfection Treatment Information

Disinfection Chemical(s)	Chemical / Location No. 1	Chemical / Location No. 2
Type of Chemical	Chlorine	
Type of Chemical Feed	Hypo-Chlorinator	
Chemical Storage Location	On site in the pump house.	
Recommended Minimum Amount to be Maintained in Storage (gal)	55 gallons	

Other Chemical Information

Chemical(s) Used	Chemical #1	Chemical #2	Chemical #3	Chemical #4
Type of Chemical				
Type of Chemical Feed				
System Location				
Chemical Storage Location				
Recommended Minimum Amount to be Maintained in Storage (gal)				

Appendix A
Basic System information

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Keep this basic information readily available for when you need it for emergency responders, repair people, the news media and potentially, an emergency operator.

Basic System Information

GPS coordinates will help emergency crews find your system following a major catastrophe.

System identification number (PWS ID)	**3424651**	
System name and address	**Ocala Heights**	
GPS Coordinates	Latitude:	Longitude:
Basic description and location of system facilities	**NE 67TH AVE**	
Population served and service connections.	Population =	Connections =365
System Owner	**Sunshine Utilities of Central Florida, Inc.**	
Management Authority	**Owner and Manager**	
Name, title, and phone numbers of person responsible for maintaining and implementing the ERP.	**Dewaine Christmas** **Manager**	**352-347-8228 phone** **352-239-1198 cell**

System Demand

Demand based on Monthly Operational Records and system capacity based on Sanitary Survey.

Average Daily Demand (gpd)	65070 GPD
Maximum Daily Demand (gpd)	82000 GPD
System Capacity (gpd)	676800 GPD
Peak Hour Demand (gpm)	N/A

Location of Pertinent Information

Item	Location
Distribution System Map	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
O&M Manual(s)	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
Start-Up / Shut-Down Procedures	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.

Well Information

GPS coordinates will help emergency crews find wells following a major catastrophe.

Well Information	Well No. 1	Well No. 2	Well No. 3	Well No. 4
GPS well tag #				
Location (street)	NE 68TH AVE	NE 68TH AVE		
GPS Coordinates	Lat: Long:		Lat: Long:	Lat: Long:
Well Depth (ft)	90 FT	125 FT		
Well Yield (gpd)	288000 GPD	777600 GPD		
Pump Type	Submersible	SUB		
Manufacturer	Sta-Rite	STA RITE		
Capacity (gpm)	230 GPM	540 GPM		
Motor Manufacturer	Franklin	FRANKLIN		
Horsepower	15 HP	30 HP		
Phase	3	3		
Volts/Amps	230 volts	230 VOLTS		

Surface Water Sources

GPS coordinates will help emergency crews find surface water intakes following a major catastrophe.

Surface Water Information	Intake No. 1	Intake No. 2
Location (Street / Description)		
GPS Coordinates	Lat: Long:	Lat: Long:
Critical Water Level		

Finished Water Storage

GPS coordinates will help emergency crews find tanks following a major catastrophe.

Name of Storage Unit	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Location (Street)				
Location (GPS)	Lat: Long:	Lat: Long:	Lat: Long:	Lat: Long:
Type (ground, elevated, etc.)				
Capacity (gal)				
Empty Elevation				
Overflow Elevation				

High Service Pumps

HSP	HSP No. 1	HSP No. 2	HSP No. 3	HSP No. 4
Location (street)				
Pump Type				
Manufacturer				
Capacity (gpm)				
Motor Manufacturer				
Horsepower				
Phase				
Volts/Amps				

Other Applicable Information

Appendix B
Training and Rehearsals

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Event	Description	People & Organizations Involved	Date

Appendix C
Plan Approval

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Plan Approval

This plan is officially in effect when reviewed, approved, and signed by the following people:

Name / Title	Signature	Date
Hodges Family Trust		

APPENDIX D: CONSUMER CONFIDENCE REPORT

Certification of Delivery of Consumer Confidence Report

GENERAL INSTRUCTIONS: This form shall be completed by all community water systems (CWSs) that have prepared a Consumer Confidence Report (CCR) in accordance with Rule 62-550.824, F.A.C., Consumer Confidence Reports. At the end of this form is a certification in which a system's authorized representative shall certify that the reported information is accurate and is in conformance with Rule 62-550.824, F.A.C. **COMPLETE THIS FORM AND SUBMIT IT BY AUGUST 10,** together with a copy of your system's CCR, sample email or water bill (with URL notification of CCR, if applicable), and any newspaper notice(s) and posted notice(s) of your CCR, to the appropriate DEP district office or Approved County Health Department (ACHD). Systems serving 100,000 or more persons posting their CCRs on publicly accessible Internet sites shall provide the information on the appropriate Internet link(s). All information provided on this form must be typed or printed in ink.

I. General Water System Information. (To be completed by all community water systems.)

System name: Ocala Heights Contact person: Dewaine Christmas

PWS Identification number (PWS ID): 3424651 Contact phone number: (352)347-8228

Mailing address: 10220 East Hwy 25 City: Belleview

State: Fl Zip: 34420-5531 Population served (not the number of "service connections"): _____

II. CCR Distribution Method. (To be completed by all community water systems. Choose A or B as appropriate.)

☑ A. We mailed, emailed, or otherwise directly delivered a copy of our CCR to each customer on 6/15/20 (enter date(s) of mailing or delivery) using the method(s) checked below:

- ☑ a. **Mailed** CCR
- ☐ b. **Mailed** notice (e.g. water bill) with **direct URL** to the CCR
- ☐ c. **Emailed** CCR as an **embedded** image or as an **attachment**
- ☐ d. **Emailed** notice with a **direct URL** to the CCR
- ☐ e. **Otherwise directly delivered** CCR to every customer. Explain: _____

☐ B. We were eligible to use a mailing waiver and used a mailing waiver. (Systems are eligible to use a mailing waiver only if they serve fewer than 10,000 persons, have not had any MCL or monitoring and reporting (M/R) violations, nor have been issued any formal Notices of Violations (NOVs), Consent Orders, Administrative Orders, or court-ordered civil actions during the calendar year before the year the CCR is due to the customers).

Answer a, b, **and** c below.)

- ☐ a. Date of newspaper: _____
- ☐ b. Name of newspaper/newsletter that published our CCR: _____
- ☐ c. A copy of our notice to customers, informing them that our CCR will not be mailed to them, is attached.

This notice was: ☐ mailed with bill; ☐ published in newspaper/newsletter; or ☐ other (describe)

_____

III. Posting of CCR on the Internet. (To be completed by all CWSs serving 100,000 or more persons.)

We posted our CCR on this publicly accessible internet site: _____

IV. Report on Your Effort to Distribute Your CCR to Your Water Consumers.

(To be completed by all CWSs. Check all items that apply - at least one item must be checked.)

In addition to the methods selected in Part II,

- ■ A. We posted our CCR on this publicly accessible internet site: _____
- ☐ B. We published our CCR in the local newspaper(s). The name(s) and date(s) of the newspaper(s) are:

_____

RECEIVED
JUL 10 2020
DEP Central District

☐ C. We advertised the availability of our CCR as a press release, radio announcement, or TV announcement. The type(s) and date(s) of the advertisement(s) are: _____

☐ D. We delivered multiple copies of our CCR to single bill addresses serving several persons.

☐ E. We delivered multiple copies of our CCR to the following community organizations:

_____

☐ F. Our CCR was posted in the following public locations: _____

_____

■ G. Our CCR was distributed by other methods (e.g., additional copies placed in entrance hall to facility). Describe.
Additional copies available at Sunshine Utilities Office

V. Use of Non-English Language in CCR. (To be completed by all community water systems.)

☐ Information in a non-English language was included in our CCR because 20% or more of our customers do not speak English but speak _____. The method we used to determine the proportion of non-English speaking customers is _____

■ This requirement does not apply to our system, because we have no non-English speaking group among our customers equal to or exceeding 20% of our total number of customers.

VI. Other Delivery Requirements. (To be completed by all community water systems.)

(A) Was a copy of your CCR sent to your county health department, as required by rule? ■ Yes ☐ No

(B) Is your system regulated by the Public Service Commission (PSC)? ☐ Yes ☐ No

If Yes, was a copy of your CCR sent to the PSC, as required by rule? ■ Yes ☐ No

(C) If your system sells water to other systems, have you provided them with either a copy of your CCR or the required consumer confidence information? ■ Yes ☐ No ■ Not Applicable

VII. Certification of Delivery of CCR and Compliance with Regulations. (To be completed by all CWSs.)

This statement certifies that the above named community public water system has distributed its CCR for the time period starting ***January 1, 2019, and ending December 31, 2019*** to its customers on 6/15/20 (mm/dd/yy) and provided the appropriate notices of availability according to the requirements listed in this form, which are also found in Rule 62-550.824, F.A.C. This statement also certifies that the reported information is correct and consistent with the compliance monitoring data for the same period previously submitted to the Department, and that the report has been delivered to the agencies identified in Rules 62-550.824(3)(e)3. and 4., F.A.C.

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____

NAME (please print): Dewaine Christmas

TITLE: Manager DATE: 6/26/20

■ **A copy of our CCR is attached, and**

☐ **If using electronic delivery, a copy of our sample email or notice (e.g. water bill), with URL leading directly to the CCR and not a general information website, is attached. For example, if you are using the FRWA website to post your CCR, your URL would be:**

www.frwa.net/2012-Your PWSID Number.pdf (www.frwa.net/2012- 0000000.pdf).

SUNSHINE UTILITIES
10230 East Highway 25
Belleview, Florida 34420

Drinking Water Quality Report

Annual Drinking Water Quality Report for 2019

Ocala Heights

Florida Department of Environmental Protection Public Water System ID # 3424651

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water.

The source of our water is groundwater from two wells located in the community. The wells draw from the Floridan aquifer, one of the world's most protected sources. Our water is chlorinated for disinfection purposes. In 2019 the Department of Environmental Protection performed a Source Water Assessment on our system. The assessment was conducted to provide information about any potential sources of contamination in the vicinity of our wells. There are two potential sources of contamination identified for our water system with a Low susceptibility level. The assessment results are available on the FDEP Source Water Assessment and Protection Program website at www.dep.state.fl.us/swapp.

Ocala Heights water system also serves the following communities; **Country Aire, Reynolds, Silverwood Villas and Spanish Palms**. If you have any questions about this report or concerning your water utility please contact **Dewaine Christmas, at Sunshine Utilities, (352) 347-8228**, during normal business hours. We encourage our valued customers to be informed about their water utility.

Sunshine Utilities routinely monitors for constituents in your drinking water according to Federal and State laws, rules and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2019. Data obtained before January 1, 2019, and presented in this report are from the most recent testing performed in accordance with the laws, rules and regulations.

WATER QUALITY TEST RESULTS FOR OCALA HEIGHTS

Inorganic Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Arsenic	(ppb)	MAY '18	No	0.5	N/A	N/A	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	(ppm)	MAY '18	No	0.0047	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chromium	(ppb)	MAY '18	No	1.1	N/A	100	100	Discharge from steel and pulp mills; erosion of natural deposits
Fluoride	(ppm)	MAY '18	No	0.19	N/A	4	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum levels between 0.7 and 1.2 ppm
Nitrate (as Nitrogen)	(ppm)	DEC '19	No	1.74	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium	(ppb)	MAY '18	No	0.9	N/A	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium	(ppm)	MAY '18	No	10	N/A	N/A	160	Salt water intrusion; leaching from soil

Stage 2 Disinfectants and Disinfection By-Products

Disinfectant or Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL or MRDL Violation Yes / No	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine	(ppm)	2019	No	1.2	0.6 - 1.6	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Haloacetic Acids (five) (HAA5)	(ppb)	NOV - DEC '19	No	0.91	ND - 0.91	N/A	MCL = 60	By-product of drinking water disinfection
Total trihalomethane (TTHM)	(ppb)	NOV - DEC '19	No	3.38	0.74 - 3.38	N/A	MCL = 80	By-product of drinking water disinfection

Lead and Copper (Tap Water)

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	AL Violation Yes / No	90th Percentile Result	No. of Sampling Sites Exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper	(ppm)	JUL '18	No	0.055	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead	(ppb)	JUL '18	No	1.6	1	0	15	Corrosion of household plumbing systems; erosion of natural deposits

In the table you may find unfamiliar terms and abbreviations. To help you better understand these terms we have provided the following definitions (please note not all definitions may pertain to your report):

- Action Level (AL) – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial growth.
- Maximum Residual Disinfectant Level Goal (MRDLG) – The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.
- ND – This abbreviation means not detected and indicates that the substance was not found by laboratory analysis.
- Parts per million (ppm) or milligrams per Liter (mg/L) - one part of analyte (by weight) to 1 million parts of water sample (by weight).
- Parts per billion (ppb) or micrograms per Liter (µg/L) - one part of analyte (by weight) to 1 billion parts of water sample (by weight).
- Picocurie per liter (pCi/L) - measure of the radioactivity in water.

What does this mean?

As you can see our system had no violations for water quality. However, we did incur a violation for late monitoring and reporting of disinfection byproducts. The potential disinfection byproducts that may result from chlorinating water are Haloacetic acids and Trihalomethanes. Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer. Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer. The testing was done in 2019 but later than the specified time frame, all results were satisfactory and are included in the Test Results Table on preceding page.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Sunshine Utilities is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals, and in some cases radioactive material, and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

A.) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

B.) Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

C.) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

D.) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

E.) Radioactive contaminants, which may be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The FDA (Food & Drug Administration) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care providers about their drinking water. EPA/CDC (Center for Disease Control) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are also available from the Safe Drinking Water Hotline (800-426-4791).

We are committed to ensuring the quality of your water. If you have any questions or concerns about the information provided, please feel free to call the numbers listed.

APPENDIX E: SANITARY SURVEY REPORT

State of Florida
Department of Environmental Protection
Central District

SANITARY SURVEY REPORT

Plant Name **OCALA HEIGHTS S/D** County Marion PWS ID # **3424651**
Plant Location CR 314(7th Street) and NE 68th Ct., Ocala, FL 34420 Phone 352-347-8228
Owner Name Sunshine Utilities of Central Florida Inc Phone 352-347-8228
Owner Address 10230 SE Highway 25, Belleview, FL 34420-5531
Contact Person Dewaine Christmas Title Owner Phone 352-347-8228
This Survey Date 1/23/18 Last Survey Date 1/23/15 Last Compliance Inspection Date 10/17/01

PWS TYPE: Community

PLANT CATEGORY & CLASS: 5C

MAX-DAY DESIGN CAPACITY: 676,800 gpd

PWS STATUS: Approved

TREATMENT PROCESSES IN USE
Hypochlorination

SERVICE AREA CHARACTERISTICS
Mobile home park
Food Service: ☐ Yes ☐ No ☒ N/A

Number of Service Connection 331
Population Served 825 Basis: 12/17 MOR

OPERATION & MAINTENANCE LOG: Yes
Location Water treatment plant
Comments

CERTIFIED OPERATOR: Yes
Operator(s) & Certification Class-Number:
Kelvin Edun C-7459

Hrs/day: *Required* Visit *Actual* Visit
Days/wk: *Required* 5+1 *Actual* 5+1
Non-consecutive Days? ☐ Yes ☐ No ☒ N/A
Comments:

MONTHLY OPERATION REPORTS (MORs)
MORs submitted regularly? ☒ Yes ☐ No ☐ N/A
Data missing from MORs? ☒ No ☐ Yes ☐ N/A
Average Day (from MORs) 69,699 gpd
Maximum Day (from MORs) 109,000 gpd 4/17
Comments

Flow Measuring Device Flow Meter
Meter Size & Type 6" Master (Finished)
Date Last Calibrated 7/14/15

RAW WATER SOURCE
☒ GROUND; Number of Wells 2
☐ PURCHASED from PWS ID #
☐ Emergency Water Source
Emergency Water Capacity

STANDBY POWER SOURCE: Yes
Source Kohler Generator
Capacity of Standby (kW) 38
Switchover: ☒ Automatic ☐ Manual
Hrs Operated Under Load 1 hr/wk.
What equipment does it operate?
☒ Well Pumps Both
☐ High Service Pumps
☒ Treatment Equipment All
Satisfy avg. daily demand? ☐Yes ☐No ☒Unknown
Audio-visual alarm? ☒Yes ☐No
Comments

PLANS AND MAPS

Coliform Sampling Plan	☒ Yes	☐ No	☐ N/A
D/DBP Monitoring Plan	☒ Yes	☐ No	☐ N/A
Lead and Copper Plan	☒ Yes	☐ No	☐ N/A
Distribution System Map	☒ Yes	☐ No	☐ N/A
Emergency Response Plan	☒ Yes	☐ No	☐ N/A

Comments Stage 2 D/DBP monitoring plan submitted 8/20/14. Lead and copper plan approved 12/13/12

PREVENTIVE MAINTENANCE/O&M
Operation & Maintenance Manual ☒ Yes ☐ No
Preventive Maintenance Program ☒ Yes ☐ No

Flushing Program	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A
Isolation Valve Exercise	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A

Comments

CROSS CONNECTION CONTROL
BFPAs None reported # Tested N/A
WWTP RPZ N/A Date Tested N/A
Written Plan Yes Date 11/14/12
Comments

PWS ID # 3424651
Date 1/23/18

GROUND WATER SOURCE

Well Number (Florida Unique Well ID #)		**1**	**2(AAE0277)**
Year Drilled		1984	1988
Depth Drilled		150’	140’
Drilling Method		Combination	Cable tool
Type of Grout		Neat Cement	Neat Cement
Static Water Level		38’	Unknown
Pumping Water Level		Unknown	Unknown
Design Well Yield		Unknown	Unknown
Test Yield		Unknown	Unknown
Actual Yield (if different than rated capacity)		Unknown	Unknown
Strainer		Unknown	Unknown
Length (outside casing)		90’	125
Diameter (outside casing)		6”	8”
Material (outside casing)		Black steel	Black steel
Well Contamination History		None	None
Is inundation of well possible?		No	No
6’ X 6’ X 4” Concrete Pad		Yes	Yes
SET BACKS	Septic Tank	>200’	>200’
	Reuse Water	N/A	N/A
	WW Plumbing	>100’	>100’
	Other Sanitary Hazard	None observed	None observed
PUMP	Type	Submersible	Submersible
	Manufacturer Name	Sta-Rite	Sta-Rite
	Model Number	Unknown	Unknown
	Rated Capacity (gpm)	120	470
	Motor Horsepower	10	30
Well casing 12” above grade?		Yes	Yes
Well Casing Sanitary Seal		Yes	Yes
Raw Water Sampling Tap		Yes	Yes
Above Ground Check Valve		Yes	Yes
Security		Yes	Yes
Well Vent Protection		N/A	N/A

COMMENTS _____

PWS ID # 3424651
Date 1/23/18

CHLORINATION (Disinfection)
Type: ☐ Gas ☒ Hypo
Make Chem-Tech/Uni-Dose Capacity 30 gpd
Chlorine Feed Rate 60% and 70% of stroke
Avg. Amount of Cl_2 gas used N/A
Chlorine Residuals: Plant 1.91 Remote 0.28
Remote tap location 6871 William Way
DPD Test Kit: ☐ On-site ☒ With operator
☐ None ☐ Not Used Daily
Injection Points Prior to the hydropneumatic tank.
Booster Pump Info
Comments

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

Tank Type/Number	**H**
Capacity (gal)	10,000
Material	Steel
Gravity Drain	Yes
By-Pass Piping	Yes
Protected Openings	Yes
Sight Glass or Level Indicator	Yes
PRV/ARV	PRV
Pressure Gauge	Yes
On/Off Pressure	40-60
Access Secured	Yes
Access Manhole	Yes
Tank Sample Tap Location	On tank
Date of Inspection	2013/08
Date of Cleaning	2013/08

Comments Tank inspection due 8/18

DEFICIENCIES:

No deficiencies were noted during this inspection.

MONITORING REMINDER:

- Nitrate and nitrite samples are required to be collected from the point of entry (POE) to the distribution system annually. The 2018 results have not been received.
- The consumer confidence report (CCR) must be delivered to consumers and the Department no later than July 1, 2018, and certification of delivery of the CCR must be submitted to the Department no later than August 10, 2018.
- Monitoring schedules are available on the Central District's Drinking Water Website. https://floridadep.gov/central/central/content/resources-drinking-water-facilities-and-operators-central-district

COMMENTS:

- Contact FRWA (Florida Rural Water Association) at 850-668-2746, or frwa@frwa.net, for free technical assistance with your system. FRWA has extended benefits offered to members.
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.

  Checking the calibration of finished-drinking-water meters at treatment plants shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water. [Rule 62-555.350(2), F.A.C.]
- Suppliers of water shall submit written notification to the Department before beginning work or alterations to the public water system. Each notification shall be submitted to the appropriate Department of Environmental Protection District Office or Approved County Health Department and shall include the following: a description of the scope, purpose, and location of the work or alterations; and assurance that the work or alterations will comply with applicable requirements listed in Rule 62-555.330, F.A.C. Suppliers of water may begin such work or alterations 14 days after providing notification to the Department unless they are advised by the Department that the notification is incomplete or that a construction permit is required.
- Suppliers of water shall telephone the SWO at 1-800-320-0519 immediately (i.e., within two hours) after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving a public water system. [Rule 62-555.350(10)(a), F.A.C.]
- Suppliers of water shall telephone, and speak directly to a person at, the appropriate DEP District Office as soon as possible, but never later than noon of the next business day, in the event of any of the following emergency or abnormal operating conditions:
  - The occurrence of any abnormal color, odor, or taste in a public water system's raw or finished water;
  - The failure of a public water system to comply with applicable disinfection requirements; or
  - The breakdown of any water treatment or pumping facilities, or the break of any water main, in a public water system if the breakdown or break is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(b), F.A.C.]
- Suppliers of water shall notify affected water customers in writing or via telephone, newspaper, radio, or television; and telephone, and speak directly to a person at, the appropriate DEP District Office by no later than the previous business day before taking PWS components out of operation for planned maintenance or repair work if the work is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(d), F.A.C.]

PWS ID # 3424651
Date 1/23/18

COMMENTS (continued):

- Suppliers of water shall issue precautionary "boil water" notices as required or recommended in the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(11), F.A.C.]

Inspector Signature	*Reviewer Signature*
Viviana Penuela Useche	Christine Daniel
Printed Name	*Printed Name*
Environmental Specialist	Environmental Manager
Title	*Title*
2-21-18	3/1/18

APPENDIX F: DISTRIBUTION MAP



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OCALA HEIGHTS

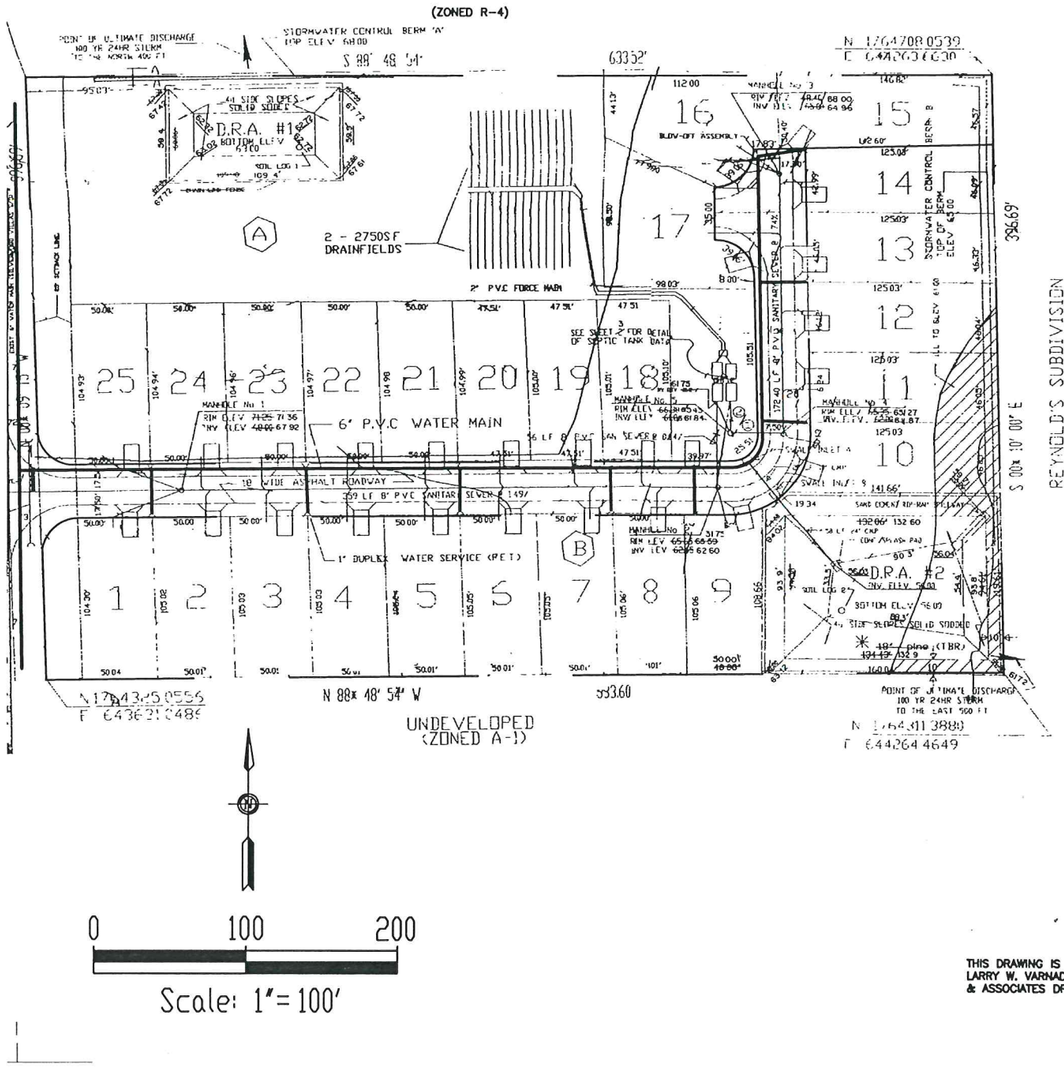
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OCALA, FLORIDA

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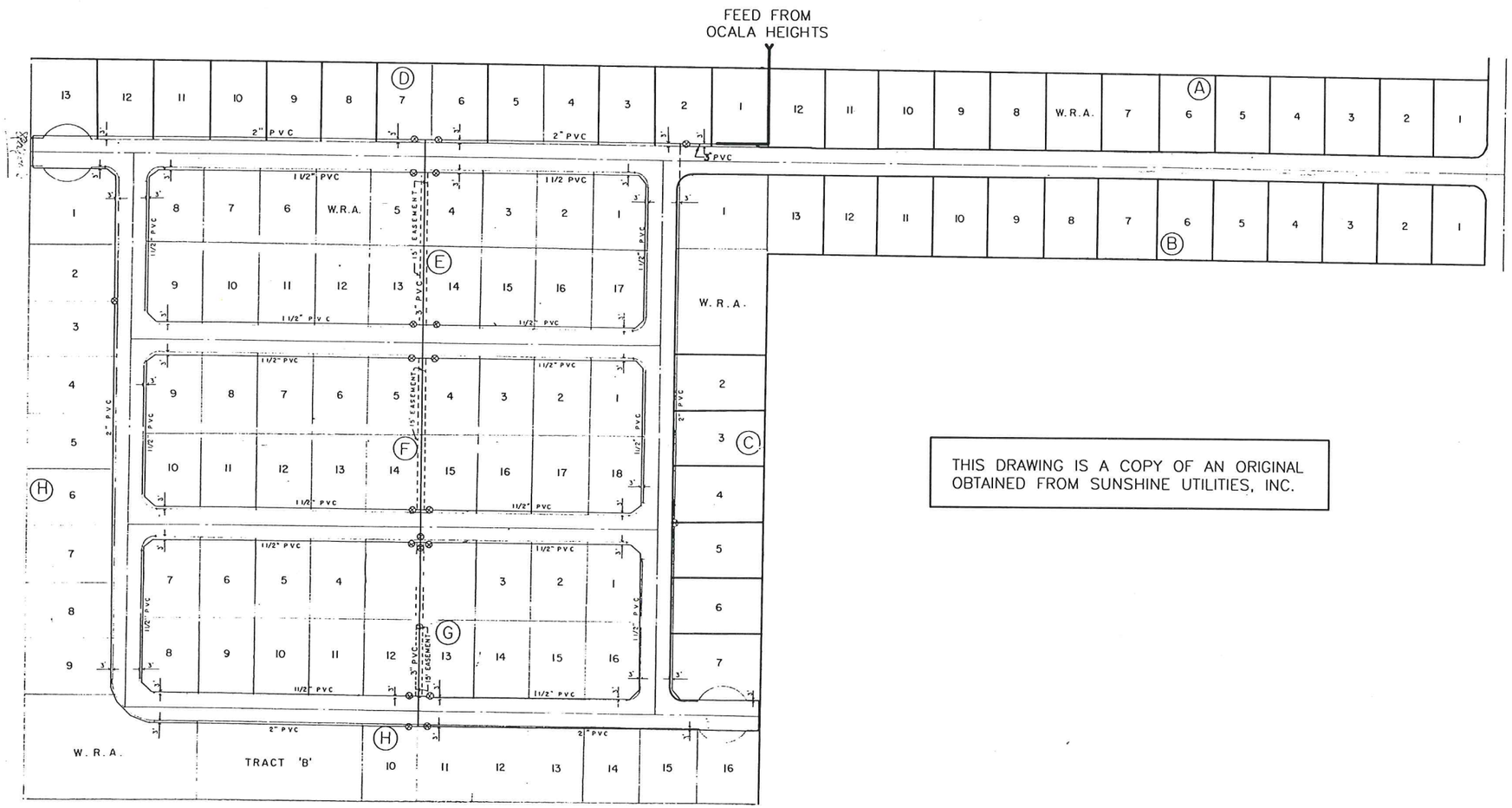
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Sheet 1 Of 1

0 100 200 400

Scale: 1"= 200'

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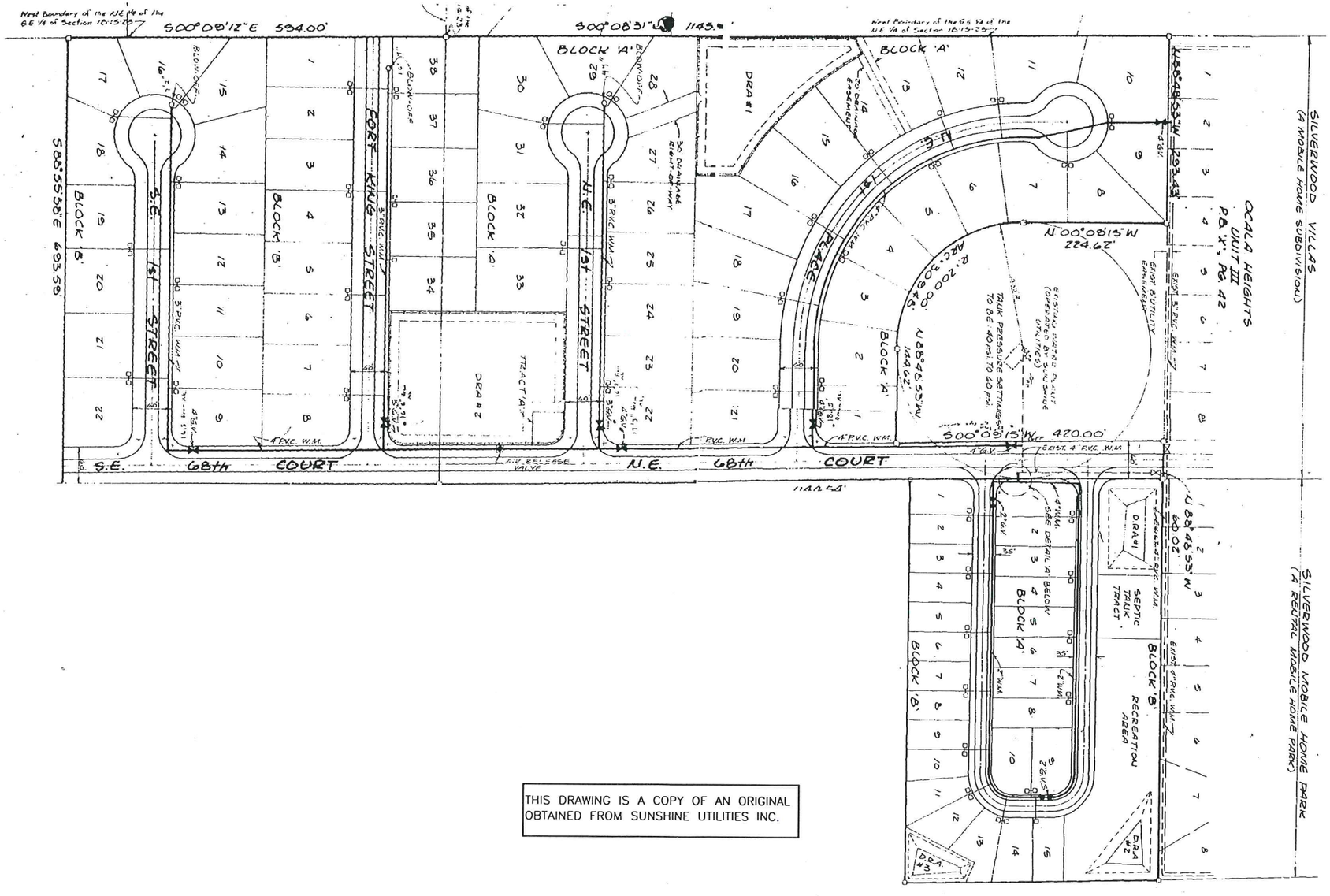
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SILVERWOOD VILLAS

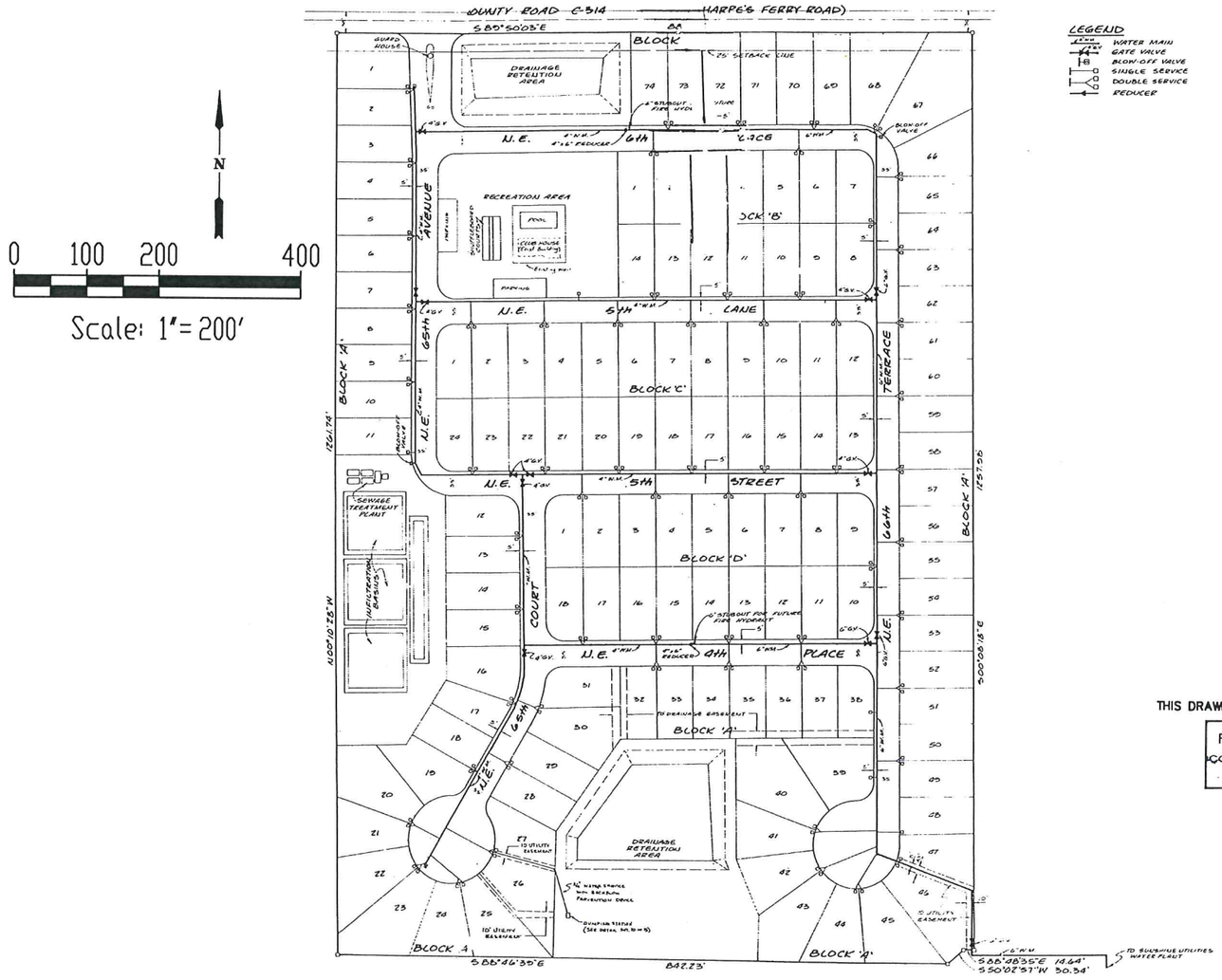
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Sheet 1 Of 1



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LEGEND

- WATER MAIN
- GATE VALVE
- BLOW-OFF VALVE
- SINGLE SERVICE
- DOUBLE SERVICE
- REDUCER

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TEL (352) 840-9580 FAX (352) 840-9774

SPANISH PALMS

SUNSHINE INDUSTRIES INC.

FT. KING & MAIN

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woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Ocklawaha Water Works

210 South Florida Avenue | Suite 220
Lakeland, Florida 33801
800.426.4262

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

0233748.01
CSWR
July 2021

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APPENDIX A: SOURCE WATER ASSESSMENT & PROTECTION PROGRAM RESULTS

» SWAPP Homepage
» Search By County
» Search by PWS Name or Number
» How to Help?

Definitions

» Aquifers
» Public Water Systems
» Assessment
» Potential Contaminants
» Susceptibility
» Prevention

Contact Us

» Email
» Mailing Address
» Source Water Protection Workshop

EPA Source Water Protection website

Source Water Assessment & Protection Program

Results for: 2019

OCKLAWAHA WATER WORKS (2 WTPS)
SR 464 & CR 25
OCKLAWAHA, FL 34420

Public Water System ID: 3420939

Previously Known As:
OKLAWAHA WATER WORKS(2 WTPS)

County: MARION
DEP Regulatory Office: DEP Central District
3319 Maguire Blvd, Suite 232
Orlando, FL 32803
407-897-4100
Public Water System Type : COMMUNITY
Public Water System Source : GROUND
Primary Use: SUBDIVISION
Population Served: 816
Size of Assessment Area:
GROUND: For this system, a 1000-foot radius circle around each well was used to define the assessment area.

Number of Wells: 2

Well ID	Owner ID	FLUWID	Status	Well Depth(ft)	Aquifer
5641	OCKLAWAHA TERRACE WELL	AAE0266	ACTIVE	Not Available	Floridan Aquifer
26574	OCKLAWAHA PINES	N/A	ACTIVE	264	Floridan Aquifer

Results:

GROUND WATER:

Number of Unique Potential Contaminant Sources: 1

Facility Type	Facility Class	Status	Name	Affected Well	Susceptibility Score	Concern Level
PETROLEUM STORAGE TANK	RETAIL STATION	OPEN	OCKLAWAHA QWIK KING FOOD STORE	5641	8.33	LOW

Last updated: February 19, 2020

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Tallahassee, Florida 32399
850-245-2118 (phone) / 850-245-2128 (fax)

APPENDIX B: OCKLAWAHA PINES CONSTRUCTION PERMIT

FLORIDA DEPARTMENT OF Environmental Protection

CENTRAL DISTRICT OFFICE
3319 MAGUIRE BLVD, SUITE 232
ORLANDO FLORIDA 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

May 1, 2019

ELECTRONIC CORRESPONDENCE
In the matter of an
Application for Permit by:

Dwaine Christmas, President
Sunshine Utilities of North Central Florida, Inc.
10230 E. Highway 25
Belleview, FL 34420
sunshineutl@aol.com

DEP File No. 0274426-002-WC
County: Marion

NOTICE OF PERMIT ISSUANCE

Enclosed is Permit Number 0274426-002-WC for the Ocklawaha Pines Water Treatment Plant hydropneumatic tank replacement, issued pursuant to Section 403.861(9), Florida Statutes.

This permit is final and effective on the date filed with the clerk of the Department unless a petition is filed in accordance with the paragraphs below or unless a request for extension of time in which to file a petition is filed within the required timeframe and conforms to Rule 62-110.106(4), F.A.C. Upon timely filing of a petition or a request for an extension, this permit will not be effective until further Order of the Department.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) with the Agency Clerk for the Department of Environmental Protection, Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, within 14 days of receipt of this Notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-106.205, F.A.C.

A petition must contain the following information:

(a) The name and address of each agency affected and each agency's file or identification number, if known;
(b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;

(c) A statement of how and when the petitioner received notice of the agency decision;
(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
(e) A concise statement of the ultimate facts alleged, including the specific facts which petitioner contends warrant reversal or modification of the Department's action;
(f) A statement of the specific rules or statutes the petitioner contends requires reversal or modification of the Department's action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
(g) A statement of the relief sought by petitioner, stating precisely the action that the petitioner wants the Department to take.

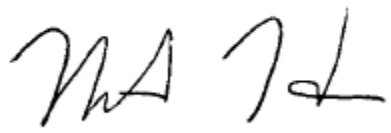
A petition that does not dispute the materials facts on which the Department's action is based shall state that no such facts are in dispute and otherwise contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

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

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to section 120.68 of the Florida Statutes, by filing a Notice of Appeal pursuant to Rule 9.110 of the Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000; and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days from the date when the final order is filed with the Clerk of the Department.

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



_____
Nathan Hess
Permitting and Waste Cleanup Program Administrator
Central District Office

Enclosures: Permit No. 0274426-002-WC

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this permit and all copies were sent on the filing date below to the following listed persons:

Dwaine Christmas, Sunshine Utilities of North Central Florida, Inc. [sunshineutl@aol.com]
Robert M. Couch III, P.E., Enviro-Tech, Inc. [envirotech@ymail.com]
Reggie Phillips, Daissan A. Villareal-FDEP

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 120.52, F. S., with the designated Department Clerk, receipt of which is hereby acknowledged.

Mandakini Patel — May 1, 2019

Clerk — Date

FLORIDA DEPARTMENT OF Environmental Protection

CENTRAL DISTRICT OFFICE
3319 MAGUIRE BLVD, SUITE 232
ORLANDO FLORIDA 32803

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May 1, 2019

ELECTRONIC CORRESPONDENCE

PERMITTEE:
Sunshine Utilities of North Central Florida, Inc.
10230 E. Highway 25
Belleview, FL 34420

PWS ID NUMBER: 3420939
PERMIT NUMBER: 0274426-002-WC
DATE OF ISSUE: May 1, 2019
EXPIRATION DATE: April 30, 2024
COUNTY: Marion
PROJECT: Ocklawaha Pines Water Treatment Plant (WTP No. 2) Modification

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-550, 62-555 and 62-560. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawings, plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

TO CONSTRUCT: The replacement of the existing 7,500 gallons (Gals) hydropneumatic tank with a new 5,000-Gal ASME hydropneumatic tank in Ocklawaha Pines Water treatment Plant (WTP No. 2).

The Ocklawaha Pines WTP is an existing facility which serves the Ocklawaha Pines subdivision. The Ocklawaha Pines Water Treatment Plant has an existing 7,500-Gal tank that is corroded. It is proposed to replace this tank with a 5,000-Gal tank. The number of residential dwellings being served Ocklawaha Water Works, consisting of two plants namely the Ocklawaha Pines WTP and the CR 25 Ocklawaha Terrace WTP, is 353 units with a population of 1,130 people. The projected service area is built out and not expected to increase.

PROPOSED CONSTRUCTION INCLUDES THE FOLLOWING COMPONENTS:

1. **One 5,000-Gal horizontal hydropneumatic tank** that meets the ASME Section VIII Unfired Pressure Vessels Code Requirements and with openings per the design drawings and specifications submitted. The tank shall be 72 inches in diameter and 24 inches long and shall meet the Standard Engineering Specification for Unfired Pressure Vessel and Specification for General Welding and NDE Requirements for Vessels, Heat Exchangers, Fired-Heater Coils, Boilers and Compressors. The hydropneumatic tank shall have a 3-inch bypass piping to permit operation of the system while the tank is being repaired or

painted. The tank shall have an access manhole, a drain, and control equipment consisting of a pressure gauge, water sight glass, automatic or manual air blow-off, means for adding air, and pressure operated start-stop controls for the pumps. A pressure relief valve shall be installed and be capable of handling the full pumping flow rate at the pressure vessel design limit.

2. **Associated piping, valves, fittings and appurtenances.**

The Ocklawaha Pines WTP is a Community Water System with a rated design capacity of 91,440 gallons per day (GPD). The plant is classified as Category V Class D (50,000 GPD up to 0.25 MGD- hypochlorination). Staffing is by Class D or higher operator: 3 visits per week on nonconsecutive days for a total of 0.30 hour/week. The lead/chief operator must be Class D or higher.

IN ACCORDANCE WITH: This permit does not pertain to any wastewater, storm water or dredge and fill aspects of the project. This permit is issued based upon the dates and submissions during the application process as follows: Construction plans, specifications and details received on May 1, 2019.

LOCATION: The project is located at the Ocklawaha Pines water treatment plant, approximately 350 feet northwest of the intersection of Roberts Circle Road and Louise Lane in Ocklawaha, Florida, with Latitude 29°02'19.96" N and Longitude 82°48.89" W.

Work must be conducted in accordance with the General and Specific Conditions, attached hereto.

The permittee shall be aware of and operate under the Permit Conditions below. These applicable conditions are binding upon the permittee and enforceable pursuant to Chapter 403, Florida Statutes. [F.A.C. Rule 62-555.533(1)]

A. GENERAL CONDITIONS

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in Subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in this permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times (reasonable time may depend on the nature of the concern being investigated), access to the premises where the permitted activity is located or conducted to:

    a. Have access to and copy any records that must be kept under conditions of the permit;
    b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
    c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

    a. A description of and cause of noncompliance; and
    b. The period of noncompliance, including dates and times; or, if not corrected, the

anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.

11. This permit is transferable only upon Department approval in accordance with Rule 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

    a. Determination of Best Available Control Technology (BACT)
    b. Determination of Prevention of Significant Deterioration (PSD)
    c. Certification of compliance with State Water Quality Standards (Section 401, PL 92-500)
    d. Compliance with New Source Performance Standards

14. The permittee shall comply with the following:

    a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
    b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this

permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

c. Records of monitoring information shall include:
    i. the date, exact place, and time of sampling or measurements;
    ii. the person responsible for performing the sampling or measurements;
    iii. the dates analyses were performed;
    iv. the person responsible for performing the analyses;
    v. the analytical techniques or methods used;
    vi. the results of such analyses.

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

SPECIFIC CONDITIONS

B. Construction Activities

1. Permit Modification

All construction must be in accordance with this permit. Before commencing work on project changes for which a construction permit modification is required pursuant to Rule 62-555.536(1), F.A.C., the permittee shall submit to the Department a written request for a permit modification. Each such request shall be accompanied by one copy of a revised construction permit application, the proper processing fee and one copy of either a revised preliminary design report or revised drawings, specifications and design data. [F.A.C. Rule 62-555.536].

2. Professional Engineer Supervision

Permitted construction or alteration of public water supply systems must be supervised during construction by a professional engineer registered in the State of Florida if the project was designed under the responsible charge of a professional engineer licensed in the State of Florida. The permittee must retain the service of a professional engineer registered in the State of Florida to observe that construction of the project is in accordance with the engineering plans and specifications as submitted in support of the application for this permit. [F.A.C. Rule 62-555.520(3)].

3. Artifacts

If prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoe remains, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered

at any time within the project site area, the permitted project should cease all activities involving subsurface disturbance in the immediate vicinity of such discoveries. The permittee, or other designee, should contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section by telephone at 850.245.6333 or 800.847.7278, as well as the appropriate permitting agency office. Project activities should not resume without verbal and/or written authorization from the Division of Historical Resources and the permitting agency. In the event that unmarked human remains are encountered during permitted activities, all work shall stop immediately, and the proper authorities notified in accordance with Section 872.05, F.S.

4. **Delays and Extension of Permit**

If delays will cause project completion to extend beyond the expiration date of this permit, the permittee shall submit to the Department a request to extend the expiration date of this permit including the appropriate processing fee. This request shall specify the reasons for the delay and shall be submitted to the Department for approval prior to the expiration date of this permit. Note that no specific construction permit shall be extended so as to remain in effect longer than five years. [F.A.C. Rule 62-555.536(4)].

5. **Permit Transfer**

In accordance with General Condition #11 of this permit, this permit is transferable only upon Department approval. Persons proposing to transfer this permit must apply jointly for a transfer of the permit within 30 days after the sale or legal transfer of ownership of the permitted project that has not been cleared for service by the Department using form, 62-555.900(8), Application for Transfer of a PWS Construction Permit along with the appropriate fee. [F.A.C. Rule 62-555.536(5)]

6. **Obligation to Obtain Other Permits**

This permit satisfies Drinking Water permitting requirements only and does not authorize construction or operation of this facility prior to obtaining all other necessary permits from other program areas within the Department, or required permits from other state, federal, or local agencies.

7. **Limits on Authorizing Connections**

This permit is for CONSTRUCTION ONLY of the components found on Page 1 of this permit. This permit shall not infer that the clearance necessary for connection will be granted. Partial clearance may be granted, if required.

8. **Contamination**

If contamination is found at the construction site, work shall be stopped, and the proper authorities notified. With the approval of the Department, ductile iron pipe and fittings, and solvent resistant gaskets materials shall be used in the contaminated area. The ductile iron pipe shall extend 100 feet beyond any solvent noted. Any contaminated soil that is excavated shall be placed on an impermeable mat, covered with waterproof covering, and

held for disposal. If the site cannot be properly cleaned, then consultation with the Department is necessary prior to continuing with the project construction.

9. **Wetlands Jurisdiction**
This permit does not constitute approval of construction on jurisdictional wetland areas; therefore, such approval must be obtained separately from the Water Management District or from DEP Environmental Resource Permitting (ERP) Section, as applicable. Permittee shall provide a copy of the permit approval to the Department when water main installation involves activities on wetlands.

10. **Security**
Permittee shall ensure that the well and drinking water treatment facilities will be protected to prevent tampering, vandalism, and sabotage as required by Rules 62-555.315(1) and 62-555.320(5), F.A.C.

C. Construction Standards

1. **National Sanitation Foundation (NSF)**
All products, including paints, which shall come into contact with potable water, either directly or indirectly, shall conform to National Sanitation Foundation (NSF) International, Water Chemicals Codex, Food Chemicals Codex, American Water Works Association (AWWA) Standards and the Food and Drug Administration, as provided in Rule 62-555.320(3), F.A.C.

2. **American Water Works Association (AWWA)**
Water supply facilities, including mains, pipe, fittings, valves, fire hydrants, and other materials shall be installed in accordance with the latest applicable AWWA Standards and Department rules and regulations. The system shall be pressure and leak tested in accordance with AWWA Standard C600 C603, or C605, as applicable, and disinfected in accordance with AWWA Standard C651-653, as well as in accordance with Rule 62-555.340, F.A.C.

3. **Lead Free**
The installation or repairs of any public water system, or any plumbing in residential or nonresidential facilities providing water for human consumption, which is connected to a public water system shall be lead free in accordance with Rule 62-555.322, F.A.C.

4. **Asbestos**
If any existing asbestos cement (AC) pipes are replaced under this permit, the permittee shall do so in accordance with the applicable rules of Federal Asbestos Regulation and Florida DEP requirements. For specific requirements applicable to AC pipes, the permittee should contact the Central District Office by telephone at (407) 897-4100 prior to commencing any such activities. Please be aware that a notification is required to be submitted to the Department at least 10 days prior to the start of a regulated project.

5. **Hazard and Reuse Setbacks**
Setback distances between potable water wells and sanitary hazards shall be in accordance with Rule 62-555.312, F.A.C. Reclaimed water land application areas, if applicable, must not be located within the setback distance from potable water supply wells established in Chapter 62-610, F.A.C.

6. **Line Separation**
Permittee shall maintain vertical clearance and horizontal separation between water mains and sanitary sewers, storm sewers, etc. unless approved otherwise by the Department, as provided in Rule 62-555.314, F.A.C., and Section 8.6 of *Recommended Standards for Water Works*, a manual adopted by reference in Rule 62-555.330(3), F.A.C.

7. **Color Coding of Pipes**
The new or altered aboveground piping at the drinking water treatment plant shall be color coded and labeled as recommended in Section 2.14 of "Recommended Standards for Water Works, 1997 Edition". [F.A.C. Rule 62-555.320(10)]

8. **Cross Connections**
Permittee shall ensure that there shall be no cross-connection with any non-potable water source in accordance with Rule 62-555.360, F.A.C.

1. Operational Requirements

1. **Staffing**
The Ocklawaha Pines WTP is a Community Water System with a rated design capacity of 91,440 gallons per day (GPD). The plant is classified as Category V Class D (50,000 GPD up to 0.25 MGD- hypochlorination). Staffing is by Class D or higher operator: 3 visits per week on nonconsecutive days for a total of 0.30 hour/week. The lead/chief operator must be Class D or higher. [F.A.C. Rule 62-699.310].

2. **Operation and Maintenance to comply with Water Quality Standards**
The supplier of water shall operate and maintain the public water system so as to comply with applicable standards in Chapter 62-550 and Rule 62-555.350, F.A.C.

3. **Operation and Maintenance Manual**
The permittee shall provide an operation and maintenance manual for the new or altered treatment facilities to fulfill the requirements under Rule 62-555.350(13), F.A.C. The manual shall contain operation and control procedures, and preventative maintenance and repair procedures, for all plant equipment and shall be made available for reference at the plant or at a convenient location near the plant. Bound and indexed equipment manufacturer manuals shall be considered sufficient to meet the requirements of the subsection.

4. **Monthly Operating Reports (MORs)**
The permittee shall submit monthly operation reports (MORs), DEP Form 62-555.900(3), for the groundwater treatment, to the Department, no later than the tenth of each succeeding month. Systems with multiple treatment plants must also submit DEP Form 62-555.900(11) entitled "Monthly Operation Report for Summation of Finished-Water Production by CWSs That Have Multiple Treatment Plants."

5. **Record Drawings**
The permittee shall have complete record drawings produced for the project in accordance with Rule 62-555.530(4), F.A.C.

6. **State Watch Office**
The permittee or suppliers of water shall telephone the State Watch Office (SWO), at 1-800-320-0519 immediately (i.e., within two hours) after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving a public water system in accordance with Rule 62-555.350(10), F.A.C.

E. Monitoring Provisions

1. **Chlorine Residual**
The Water Treatment Plant shall maintain throughout the distribution system, a minimum continuous and effective free chlorine residual of 0.2 mg/L (or its equivalent). A minimum system pressure of 20 psi must be maintained throughout the system. Also, safety equipment shall be provided and located outside of chlorine room.

F. Clearance Requirements

1. Clearance Letter
The permittee must instruct the engineer of record to request system clearance from the Department within sixty (60) days of completion of construction, testing and disinfecting the system. Bacteriological test results shall be considered unacceptable if the test were completed more than 60 days before the Department received the results. [F.A.C. Rule 62-555.340(2)(c)]

Permitted construction or alteration of a public water system may not be placed into service until a letter of clearance has been issued by this Department. [F.A.C. Rule 62-555.345]

2. Requirements to Obtain Clearance
After submitting the permit clearance package, the permittee shall contact the Department by telephone at 407.897.4100 or by email at DEP_CD@dep.state.fl.us to establish a date/time for an inspection of the components contained in this permit.

a. The engineer's *Certification of Construction Completion and Request for Clearance to Place Permitted PWS Components Into Operation* {DEP Form 62-555.900(9)};

b. Certified record drawings, if there are any changes noted for the permitted project.

c. Copy of a satisfactory pressure test of the process piping, if applicable, performed in accordance with AWWA Standards. [F.A.C. Rule 62-555.320(21)(a)(1)]

d. Analytical results from two consecutive days of satisfactory bacteriological samples from locations found in paragraph 3 below.

e. Provide evidence that the required operation and maintenance manual for the water treatment plant is in place, which will be updated thereafter as necessary to reflect plant modifications. The manual shall contain operation and control procedures, and preventive maintenance and repair procedures, for all plant equipment and shall be made available for reference at the plant or at a convenient location near the plant. Bound and indexed equipment manufacturer manuals shall be considered sufficient to meet the requirements of this subsection. [F.A.C. 62-555.350 (13)]

f. Photographs of the new hydropneumatic tank.

3. Cleaning, Disinfecting, and Bacteriological Samples

The new facilities shall be cleaned, disinfected, and bacteriologically cleared in accordance with Chapter 62-555, F.A.C. The bacteriological clearance data shall be submitted to the Department with the engineer's certification of construction completion. [F.A.C. 62-555.340 and 62-555.315(6)(b),]

Bacteriological Sampling Locations: Copies of results from satisfactory bacteriological samples shall be submitted with the clearance package. Samples shall be taken from locations listed below, in accordance with Rules 62-555.315 (6), 62-555.340 and 62-555.330, F.A.C. and American Water Works Association (AWWA) Standard C 651-92. The engineer-of-record shall submit a sampling plan showing the location of the bacteriological sampling points, considering the following location:

- **At new hydropneumatic tank discharge pipe.**

In order to facilitate the issuance of a letter of clearance, the Department requests that all of the above information be submitted as one package.

Please submit the entire clearance document package in electronic format to DEP_CD@dep.state.fl.us. If the file is very large, you may post it to the Water Electronic Submittal folder on the Central District's ftp site at:

ftp://ftp.dep.state.fl.us/pub/incoming/Central_District/Water%20Electronic%20Applications.

After posting the document, send an e-mail to DEP_CD@dep.state.fl.us, alerting the Department that it has been posted.

Any submitted drawings (should be sized 11" x 17") and the engineer of record's signed seal and dates on the required document must be legible for acceptance.

Forms: http://www.dep.state.fl.us/water/drinkingwater/forms.htm

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



Nathan Hess
Permitting and Waste Cleanup Program Administrator
Central District Office

APPENDIX C: EMERGENCY RESPONSE PLAN

Disaster-Specific Preparedness/Response Plan

for Public Drinking Water Systems

Per Chapter 62-555.350 (15) F.A.C.

Sunshine Utilities
OCKLAWAHA

Address:	10230 East Hwy. 25 Belleview, FL 34420
Phone:	352-347-8228
Fax:	352-347-6915
Contact:	Dewaine Christmas, Manager
E-mail:	SunshineUtl@AOL.COM
Connections:	334
PWS:	3420939
County:	Marion

May 17, 2013

Department of Environmental Protection
Michael D. LeRoy, P.E.
John R. Sowerby, P.E.

FRWA Security Staff
Sterling L. Carroll, P.E.
Ken Klos, P.E.
Coy Donaldson

For more information or additional copies of this document contact:

FLORIDA RURAL WATER ASSOCIATION
2970 Wellington Circle ~ Suite 101 ~ Tallahassee
Telephone: 850-668-2746 ~ Fax: 850-893-4581
e-mail: FRWA@frwa.net

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This template and guide has been developed by the Florida Rural Water Association (FRWA) in collaboration with the Washington State Department of Health, Office of Drinking Water, Olympia, Washington; and reviewed by Florida Department of Environmental Protection.

Acknowledgment of federal government support of this project:

This project and the preparation of this booklet was funded in part by a Water Protection Coordination grant from the Environmental Protection Agency through an agreement/contract with the Drinking Water Program of the Department of Environmental Protection. Total cost of the project was $3,000 of which $3,000 or 100 percent, was provided by the U.S. Environmental Protection Agency.

Preface
Chapter 62-555.350 (15) FAC

Disaster-Specific Preparedness/Response Plans

(15) Suppliers of water who own or operate a community water system serving, or designed to serve, 350 or more persons or 150 or more service connections shall develop a written emergency preparedness/response plan in accordance with Emergency Planning for Water Utilities, AWWA Manual M19, as adopted in Rule 62-555.335, F.A.C., by no later than December 31, 2004, and shall update and implement the plan as necessary thereafter. Said suppliers of water shall coordinate with their Local Emergency Planning Committee and their Florida Department of Law Enforcement Regional Security Task Force when developing their emergency plan and shall include in their plan all of the information in paragraphs (a) through (e) below.

(a) A Communication Charts as described in Chapter 5 of AWWA Manual M19.

(b) Written agreements with other agencies, utilities, or response organizations.

(c) A disaster-specific preparedness/response plan as described in Chapter 5 of AWWA Manual M19 for each of the following disasters: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release. Each disaster-specific preparedness/response plan shall incorporate the results of a vulnerability assessment; shall include actions and procedures, and identify equipment, that can obviate or lessen the impact of such a disaster; and shall include plans and procedures that can be implemented, and identify equipment that can be utilized, in the event of such a disaster.

(d) Details about how the water system meets the standby power requirements under subsection 62-555.320(14), F.A.C., and, if applicable, recommendations regarding the amount of fuel to maintain on site, and the amount of fuel to hold in reserve under contracts with fuel suppliers, for operation of auxiliary power sources.

(e) If applicable, recommendations regarding the amount of drinking water treatment chemicals, including chemicals used for regeneration of ion-exchange resins or for onsite generation of disinfectants, to maintain in inventory at treatment plants.

Specific Authority 403.861(9) FS. Law Implemented 403.852(12), 403.853(6), 403.861(17) FS. History-New 11-19-87, Formerly 17-22.650, Amended 1-18-89, 1-1-93, Formerly 17-555.350, Amended 8-28-03.

Time Extension for Submitting/Completing ERP – December 31, 2005

From: Hoofnagle, Van
Sent: Thursday, October 21, 2004 11:25 AM
Subject: Time Extension for Submitting/Completing ERP
Importance: High

I am sending this e-mail because of possible confusion in some FDEP District Offices or ACHDs regarding the deadline for compliance with the emergency preparedness/response plan requirements in FAC subsection 62-555.350(15).

As John Sowerby and other staff mentioned during Focus On Change presentations early this year on FAC Rule 62-555.350 and during training this summer on the recent amendments to FAC Chapter 62-555, the FDEP intends to amend FAC subsection 62-555.350(15) to give all affected community water systems (i.e., all community water systems serving 350 or more persons or 150 or more service connections) **until the end of 2005** instead of the end of this year to complete a comprehensive emergency preparedness / response plan as required by FAC subsection 62-555.350(15). At this point, it will likely be after the end of this year before we officially make this change to FAC subsection 62-555.350(15). In the meantime, please do not take any enforcement action against

community water systems who fail to meet the 12/31/04 deadline in FAC subsection 62-555.350(15). Thanks.

Van Hoofnagle
DEP Drinking Water Administrator

Section 1
Communication Charts

The first response step in any emergency is to inform the person at the top of this list, who is responsible for managing the emergency and making key decisions. List the water system chain of command in order of contact.

Water System Chain of Command – Lines of Authority

Order	Name & Title	Responsibilities During an Emergency	Contact Information
1	Dewaine Christmas Manager	Responsible for overall management and decision making. The manager is the lead for managing the emergency and providing information to regulatory agencies. All communications to external parties are to be approved by the manager.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl@AOL.Com
2	James Hodges Jr. Field Supervisor	Responsible for decision making in the field. In charge of overall maintenance, and repairs to all components of water system.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl @AOL.Com
3	Kelvin Edun Water Treatment Plant Operator	Responsible for running water treatment plant, performing inspections, maintenance, sampling and relaying all critical information to Field Supervisor.	Phone: Cell: 352-875-5141 Email:
4	Pamela Christmas Office	Responsible for assisting the manager in administrative duties and emergencies.	Phone: 352-347-8228 Cell: 352-245-4743 Email:
5			Phone: Cell: Email:
6			Phone: Cell: Email:
7			Phone: Cell: Email:

Emergency Notification

Notification call-up lists - Use these lists to notify important parties of an emergency.

Emergency Notification List

Organization or Department	Name & Position	Telephone	Cell Phone	e-mail
State Warning Point	**Duty Officer**	**800-320-0519**	800-320-0519	N/A
Local Law Enforcement	EOC Commander	352-622-3205		Pstefanski@sheriff.marioncountyfl.org
Fire Department		911		
Emergency Medical Services		911		
Water Operator (if contractor)	Kelvin Edun Operator	352-875-5141		
County Health Department	Tom Moore Director of Environmental Health	352-622-7744	352-266-7486	
DEP District Office	Manny Cardona	407-897-4134	Fax 407-893-4418	
County Emergency Management Dept.	Chip Wildy	352-622-3205		
Local Leader (City Mgr., Mayor, Chair. Co. Comm., etc.)				
Local Hazmat Team (if any)		911		
Hazmat Hotline		911		
National Spill Response Center.	Duty Officer	800-424-8802	800-424-8802	N/A
Interconnected Water System(s)				
Neighboring Water System (not connected)				
FRWA Water Circuit Rider	Tom Gustafson	850-668-2746	352-267-1302	

Priority Customers

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Hospital Or Clinic(s)				
Nursing Home(s)				
Public Schools				
Private Schools				
Wastewater Treatment Plant				
Food Processing Or Other Industry				

Service / Repair Notifications

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Electric Utility Co.	City of Ocala	352-651-6666		
Electrician	Melville Electric	352-245-0600		
Gas / Propane Supplier	Belleview Gas	352-245-6055		
Water Testing Lab.	Aqua Pure Lisa Saupp	352-625-2822		
Sewer Utility Co.				
Telephone Co.	Sprint	800-788-3600	611	
Plumber	ACP	352-427-7036		
Pump Supplier	Coast Pump	352-620-0616	352-266-4277	Coastpumpocal@hotmail.com
"Dig Safe" or "One Call"	Sunshine One Call	800-432-4770		
Rental Equip. Supplier	B&M Rental	352-245-3133	352-245-9800	

Service / Repair Notifications				
Organization Or Department	**Name & Position**	**Telephone**	**Cell Phone**	**email**
Chlorine Supplier	Custom Controls	352-622-9244	352-304-0572	
Other Chemical Suppliers				
Radio/SCADA Repair Co.				
Bottled Water Service				
Bulk Water Supplier				
Well Drilling Co.	Earls Well Drilling David Moffitt	352-245-2324	352-817-0502	
Pipe Supplier	National Water Works Roy Sands	352-351-8144	352-266-4705	

Designated Public Spokesperson and Alternates

Designate a spokesperson (alternates) for delivering messages to the news media & public

Public Spokesperson	Name & Position	Telephone	Cell Phone
Spokesperson	Dewaine Christmas Manager	352-347-8228	352-239-1198
Alternate 1	James Hodges Jr. Supervisor	352-347-8228	352-239-1197
Alternate 2			

Key Messages

Develop possible messages in advance, and update them as the emergency develops
▪ We are aware of the emergency and are working diligently to restore your water service.
▪ If you fall under a boil water notice you must bring water to a rolling boil for a period of at least one minute. You only have to boil water for human cunsumption.

▪

Health Advisories – Boil Water Notices

Use the assistance of your County Health Department and/or District FDEP office, and FDEP's Mandatory Health Effects Language, located on FDEP's website at:

http://www.doh.state.fl.us/environment/water/manual/boil.htm

http://www.DEP.state.fl.us/water/drinkingwater/rules.htm,

and click on "Mandatory Health Effects Language"., PLUS EPA's templates at:

http://epa.gov/safewater/pn.html

Click on "Microsoft Word and Word Perfect files of PN templates" (PN means Public Notifications), then determine which "Tier" of notifications is needed and click on the desired software to receive them in.

Section 2
Written Agreements With Other Agencies, Utilities, or Response Organizations

INSERT BELOW information regarding any written agreements with other agencies, utilities, or response organizations, such as emergency interconnects, mutual aid or FlaWARN.

Emergency Interconnect(s)

Information on the location of interconnection(s) (if any), type and size of interconnecting pipe, pumps and accessory equipment, meters at interconnection(s), normal pressures at both ends of interconnection, volume of water from interconnection(s), type of agreement and approvals needed for use, procedures necessary to use interconnection, etc.

Location (Street)	
Location (GPS)	
Description	

Memoranda of Understanding

Organization	
Summary of Understanding	

Mutual Aid Agreements

Organization	Marion Utilities, 352-622-1171
Summary of Understanding	Will render mutual aide – ie: pumps, generators, and other materials necessary to restore water service.

FlaWARN

Organization	
Summary of Understanding	

Section 3
Disaster-Specific Preparedness/Response Plan

Your disaster-specific preparedness/response plan must include a Vulnerability Assessment and preparedness / response plans for: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release.

In any event there are a series of general steps to take:

1. Confirm and analyze the type and severity of the emergency.
2. Take immediate actions to save lives.
3. Take action to reduce injuries and system damage.
4. Make repairs based on priority demand.
5. Return the system to normal operation.

Vulnerability Assessment

It is essential that water systems identify and assess the vulnerability of each system component for both natural and human-caused emergencies, before preparing their disaster-specific preparedness/response plans. Prepare your Vulnerability Assessment by completing the table below:

Facility Vulnerability Assessment

System component	Description and condition	Vulnerability	Security improvements (indicate existing or proposed)
Raw Water Sources	(1) 8” and (1) 6” groundwater wells located several hundred feet from homes. Wells are in good condition. We have wellhead protection in place.	The well is most vulnerable to above ground activities because it is only 264 FT deep.	1.Purchase land surrounding well. 2. Secure well house to foundation and install lighting around well house.
Pump-house and pumping facilities	The pump-house and pumping facility are in good condition.	Pump location is fully fenced with a locked gate.	Install tamper proof padlocks.
Treatment Facilities	There is a hypo-chlorination system inside of pump house. System is in good condition.	Chlorination systems are not subject to power outages.	There is a backup generator on site in compliance with CH. 62-555.320(14)FAC
Storage Facilities	Hydro pneumatic tank is fenced in good condition.	Tank is not in a lighted area.	Install lighting in area of tank.
Computer and telemetry systems	Computers are in utilities main office and are in good condition.	Computers should be better protected against cyber attack or hacking.	Secure computers with firewalls & virus protection.

A. Vandalism or Sabotage Response Procedures

1. Utility staff first aware of incident:
    a) Calls 9-1-1/ Local Law Enforcement.
    b) Calls Manager
2. Manager determines severity of incident.
    a) Field supervisor determines if vandalism or sabotage will effect the water quality.
    b) Manager reports incident to the state warning point.
3. Field supervisor directs repairs as needed.
    a) Complete repairs
    b) Update ERP as needed.

B. Drought Response Procedures

Include water use restrictions per Consumptive Use Permit

1. Manager coordinates with the local Water Management District (WMD) regarding drought conditions.
    a) If drought conditions exist, a water conservation plan will be initiated.
    b) Literature will be distributed to customers regarding the drought.
    c) Conservation material will be distributed to customers on conservation measures.
    d) Customers not abiding by restrictions will be reported to WMD.
    e) Manager updates ERP as needed.

C. Hurricane Preparedness & Response Procedures

Pre- Hurricane **(36 to 48 hrs prior to arrival)**	1. Manager coordinates with local EOC. 2. Field supervisor checks operation of standby power. 3. Field supervisor secures fuel and treatment chemicals for a 10 day period. 4. Manager replenishes inventory of spare parts.
Hurricane Watch **(24 to 36 hrs prior to arrival)**	1. Manager cancels all time off for employees. 2. Manager issues work assignments in advance in case of communication loss. 3. Employees all top off fuel in vehicles & standby generators. 4. Manager authorizes employees to secure their personal property and arrange for the safety of family members.
Hurricane Warning (24hrs or less prior to arrival)	1. Employees report to designated areas and wait for instructions. 2. Employees load truck with supplies. 3. Employees follow evacuation protocol.
Recovery Procedures	1. Manager coordinates with local EOC. 2. Manager issues boil water notices if needed. 3. Field supervisor coordinates repairs. 4. Manager makes contact with the appropriate DEP office. 5. After repairs are completed samples are taken. 6. When samples come back clear – boil water notice is lifted. 7. Manager files all malfunction reports with the DEP. 8. Field supervisor inspects all systems to make sure everything is running smooth.

D. Structure Fire Response Procedures

1. Utility staff discovering fire:
    a) Evacuate structure on fire.
    b) Call 9-1-1
2. Manager determines severity of incident.
    a) Manager contact State Warning Point.
    b) Field supervisor coordinates repairs when fire is extinguished.
3. Field supervisor reports to manager when repairs are complete.
    a) Manager reports completion of all repairs to any Gov. agency.
    b) Manager updates ERP as needed.

E. Flood Preparedness & Response Procedures

(Is any critical part of your system in a flood prone area?)

None of our systems are in a flood prone area.

F. Forest or Brush Fire Response Procedures

(Is any critical part of your system subject to forest or brush fires?)

1. Utility staff discovering fire.
    a) Orders evacuation of any threatened buildings.
    b) Calls 9-1-1 to report fire.
2. Manager determines the severity of fire.
    a) Manager contacts the State Warning Point.
    b) Field supervisor inspects for any damage and coordinates repairs after fire is extinguished.
3. Field supervisor reports to manager that all repairs are complete.
    a) Manager updates the ERP as needed.
    b)

G. Hazardous Material Release Response Procedures

Do you have any hazardous material (chlorine gas) at your water system?

We have no Hazardous materials at any of our water systems.

H. Other Disaster Response Procedures

Are there other disasters that you want to prepare for, such as a Contamination event, SCADA Attack, or Structural Damage from an Intentional Act?

Contamination

1.
   a)
   b)
2.
   a)
   b)

SCADA Attack

1.
   a)
   b)
2.
   a)
   b)

Structural Damage from an Intentional Act

1.
   a)
   b)
2.
   a)
   b)

Section 4
Standby Power Requirements

Include details about how the water system meets the standby power requirements as described in Ch. 62-555.320(14), and 62-555.350(15)(d) FAC for water source, treatment, and pumping facilities necessary to deliver drinking water at a rate at least equal to the Average Daily Water Demand.

Standby Power for Wells or Surface Water Intakes

Standby Power (or by alternate means) to OPERATE WELLS at Average Daily Demand

Average Daily Demand (ADD) in gpd or gpm	102235 gpd
Wells Needed to Supply Average Daily Demand	1
Standby Generator (kW) Needed for ADD &	21 KW
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	We will have reserve fuel in the case of an emergency.

Standby Power for Treatment Facilities

Standby Power (or by alternate means) to TREAT WATER at Average Daily Demand

Treatment Units Needed to Supply ADD	
Standby Generator (kW) Needed to Treat ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Standby Power for Pumps

Standby Power (or by alternate means) to PUMP WATER at Average Daily Demand

Pumps Needed to Supply ADD	
Standby Generator (kW) Needed to Pump ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Section 5
Drinking Water Treatment Chemicals & Disinfectants

Include recommendations regarding the amount of drinking water treatment chemicals, to maintain in inventory at treatment plants. Do not just list chemical storage capacity, but instead recommend the minimum amount of chemicals to maintain in inventory, which depends upon the location and reliability of chemical suppliers, the status of impending disasters, etc.

Disinfection Treatment Information

Disinfection Chemical(s)	Chemical / Location No. 1	Chemical / Location No. 2
Type of Chemical	Chlorine	
Type of Chemical Feed	Hypo-Chlorinator	
Chemical Storage Location	On site in the pump house.	
Recommended Minimum Amount to be Maintained in Storage (gal)	55 gallons	

Other Chemical Information

Chemical(s) Used	Chemical #1	Chemical #2	Chemical #3	Chemical #4
Type of Chemical				
Type of Chemical Feed				
System Location				
Chemical Storage Location				
Recommended Minimum Amount to be Maintained in Storage (gal)				

Appendix A
Basic System information

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Keep this basic information readily available for when you need it for emergency responders, repair people, the news media and potentially, an emergency operator.

Basic System Information

GPS coordinates will help emergency crews find your system following a major catastrophe.

System identification number (PWS ID)	**3420939**	
System name and address	**OCKLAWAHA TERR & OCKLAWAHA PINES**	
GPS Coordinates	Latitude:	Longitude:
Basic description and location of system facilities	**12780 E HWY 25** **14455 E HWY 25**	
Population served and service connections.	Population =	Connections = 355
System Owner	**Sunshine Utilities of Central Florida, Inc.**	
Management Authority	**Owner and Manager**	
Name, title, and phone numbers of person responsible for maintaining and implementing the ERP.	**Dewaine Christmas** **Manager**	**352-347-8228 phone** **352-239-1198 cell**

System Demand

Demand based on Monthly Operational Records and system capacity based on Sanitary Survey.

Average Daily Demand (gpd)	102235 GPD
Maximum Daily Demand (gpd)	127400 GPD
System Capacity (gpd)	307440 GPD
Peak Hour Demand (gpm)	N/A

Location of Pertinent Information

Item	Location
Distribution System Map	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
O&M Manual(s)	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
Start-Up / Shut-Down Procedures	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.

Well Information

GPS coordinates will help emergency crews find wells following a major catastrophe.

Well Information	Well No. 1	Well No. 2	Well No. 3	Well No. 4
GPS well tag #				
Location (street)	E HWY 25	E HWY 25		
GPS Coordinates	Lat: Long:		Lat: Long:	Lat: Long:
Well Depth (ft)	200 FT	264 FT		
Well Yield (gpd)	432000 GPD	182880 GPD		
Pump Type	Submersible	Submersible		
Manufacturer	Sta-Rite	Sta-Rite		
Capacity (gpm)	300 GPM	127 GPD		
Motor Manufacturer	Franklin	Franklin		
Horsepower	15 HP	7HP		
Phase	1	1		
Volts/Amps	230 volts	230 Volts		

Surface Water Sources

GPS coordinates will help emergency crews find surface water intakes following a major catastrophe.

Surface Water Information	Intake No. 1	Intake No. 2
Location (Street / Description)		
GPS Coordinates	Lat: Long:	Lat: Long:
Critical Water Level		

Finished Water Storage

GPS coordinates will help emergency crews find tanks following a major catastrophe.

Name of Storage Unit	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Location (Street)				
Location (GPS)	Lat: Long:	Lat: Long:	Lat: Long:	Lat: Long:
Type (ground, elevated, etc.)				
Capacity (gal)				
Empty Elevation				
Overflow Elevation				

High Service Pumps

HSP	HSP No. 1	HSP No. 2	HSP No. 3	HSP No. 4
Location (street)				
Pump Type				
Manufacturer				
Capacity (gpm)				
Motor Manufacturer				
Horsepower				
Phase				
Volts/Amps				

Other Applicable Information

Appendix B
Training and Rehearsals

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Event	Description	People & Organizations Involved	Date

Appendix C
Plan Approval

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Plan Approval

This plan is officially in effect when reviewed, approved, and signed by the following people:

Name / Title	Signature	Date
Hodges Family Trust		

APPENDIX D: CONSUMER CONFIDENCE REPORT

Certification of Delivery of Consumer Confidence Report

GENERAL INSTRUCTIONS: This form shall be completed by all community water systems (CWSs) that have prepared a Consumer Confidence Report (CCR) in accordance with Rule 62-550.824, F.A.C., Consumer Confidence Reports. At the end of this form is a certification in which a system's authorized representative shall certify that the reported information is accurate and is in conformance with Rule 62-550.824, F.A.C. **COMPLETE THIS FORM AND SUBMIT IT BY AUGUST 10,** together with a copy of your system's CCR, sample email or water bill (with URL notification of CCR, if applicable), and any newspaper notice(s) and posted notice(s) of your CCR, to the appropriate DEP district office or Approved County Health Department (ACHD). Systems serving 100,000 or more persons posting their CCRs on publicly accessible Internet sites shall provide the information on the appropriate Internet link(s). All information provided on this form must be typed or printed in ink.

I. General Water System Information. (To be completed by all community water systems.)

System name: Ocklawaha Water Plants Contact person: Dewaine Christmas

PWS Identification number (PWS ID): 3420939 Contact phone number: (352)347-8228

Mailing address: 10220 East Hwy 25 City: Belleview

State: Fl Zip: 34420-5531 Population served (not the number of "service connections"): _____

II. CCR Distribution Method. (To be completed by all community water systems. Choose A or B as appropriate.)

☐ A. We mailed, emailed, or otherwise directly delivered a copy of our CCR to each customer on _____ (enter date(s) of mailing or delivery) using the method(s) checked below:

- ☐ a. **Mailed** CCR
- ☐ b. **Mailed** notice (e.g. water bill) with **direct URL** to the CCR
- ☐ c. **Emailed** CCR as an **embedded** image or as an **attachment**
- ☐ d. **Emailed** notice with a **direct URL** to the CCR
- ☐ e. **Otherwise directly delivered** CCR to every customer. Explain: _____

☑ B. We were eligible to use a mailing waiver and used a mailing waiver. (Systems are eligible to use a mailing waiver only if they serve fewer than 10,000 persons, have not had any MCL or monitoring and reporting (M/R) violations, nor have been issued any formal Notices of Violations (NOVs), Consent Orders, Administrative Orders, or court-ordered civil actions during the calendar year before the year the CCR is due to the customers).

Answer a, b, **and** c below.)

- ☐ a. Date of newspaper: _____
- ☐ b. Name of newspaper/newsletter that published our CCR: _____
- ☑ c. A copy of our notice to customers, informing them that our CCR will not be mailed to them, is attached.

This notice was: ☑ mailed with bill; ☐ published in newspaper/newsletter; or ☐ other (describe)

_____

III. Posting of CCR on the Internet. (To be completed by all CWSs serving 100,000 or more persons.)

We posted our CCR on this publicly accessible internet site: _____

IV. Report on Your Effort to Distribute Your CCR to Your Water Consumers.

(To be completed by all CWSs. Check all items that apply - at least one item must be checked.)

In addition to the methods selected in Part II,

- ■ A. We posted our CCR on this publicly accessible internet site: www.sunshineutilities.org
- ☐ B. We published our CCR in the local newspaper(s). The name(s) and date(s) of the newspaper(s) are:

_____

RECEIVED
JUL 10 2020
DEP Central District

☐ C. We advertised the availability of our CCR as a press release, radio announcement, or TV announcement.
The type(s) and date(s) of the advertisement(s) are: _____

☐ D. We delivered multiple copies of our CCR to single bill addresses serving several persons.

☐ E. We delivered multiple copies of our CCR to the following community organizations:

_____

☐ F. Our CCR was posted in the following public locations: _____

_____

■ G. Our CCR was distributed by other methods (e.g., additional copies placed in entrance hall to facility). Describe.
Additional copies available at Sunshine Utilities Office

_____

V. Use of Non-English Language in CCR. (To be completed by all community water systems.)

☐ Information in a non-English language was included in our CCR because 20% or more of our customers do not speak English but speak _____. The method we used to determine the proportion of non-English speaking customers is _____

■ This requirement does not apply to our system, because we have no non-English speaking group among our customers equal to or exceeding 20% of our total number of customers.

VI. Other Delivery Requirements. (To be completed by all community water systems.)

(A) Was a copy of your CCR sent to your county health department, as required by rule? ■ Yes ☐ No

(B) Is your system regulated by the Public Service Commission (PSC)? ☐ Yes ☐ No
If Yes, was a copy of your CCR sent to the PSC, as required by rule? ■ Yes ☐ No

(C) If your system sells water to other systems, have you provided them with either a copy of your CCR or the required consumer confidence information? ■ Yes ☐ No ■ Not Applicable

VII. Certification of Delivery of CCR and Compliance with Regulations. (To be completed by all CWSs.)

This statement certifies that the above named community public water system has distributed its CCR for the time period starting ***January 1, 2019, and ending December 31, 2019,*** to its customers on 6/15/20 (mm/dd/yy) and provided the appropriate notices of availability according to the requirements listed in this form, which are also found in Rule 62-550.824, F.A.C. This statement also certifies that the reported information is correct and consistent with the compliance monitoring data for the same period previously submitted to the Department, and that the report has been delivered to the agencies identified in Rules 62-550.824(3)(e)3. and 4., F.A.C.

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____

NAME (please print): Dewaine Christmas

TITLE: Manager DATE: 6/26/20

■ **A copy of our CCR is attached, and**

☐ **If using electronic delivery, a copy of our sample email or notice (e.g. water bill), with URL leading directly to the CCR and not a general information website, is attached. For example, if you are using the FRWA website to post your CCR, your URL would be:**

www.frwa.net/2012-Your PWSID Number.pdf (www.frwa.net/2012-0000000.pdf).

SUNSHINE UTILITIES
10230 East Highway 25
Belleview, Florida 34420

Drinking Water Quality Report

Annual Drinking Water Quality Report for 2019

Ocklawaha Water Plants

Florida Department of Environmental Protection Public Water System ID # 3420939

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water.

The source of our water is groundwater from two wells located in the community. The wells draw from the Floridan aquifer, one of the world's most protected sources. Our water is chlorinated for disinfection purposes. In 2019 the Department of Environmental Protection performed a Source Water Assessment on our system to provide information about any potential sources of contamination in the vicinity of our wells. There is one potential source of contamination identified with a low level of concern. The assessment results are available of the FDEP Source Water Assessment and Protection Program website at www.dep.state.fl.us/swapp.

If you have any questions about this report or concerning your water utility please contact **Dewaine Christmas, at Sunshine Utilities, (352) 347-8228**, during normal business hours. We encourage our valued customers to be informed about their water utility.

Sunshine Utilities routinely monitors for constituents in your drinking water according to Federal and State laws, rules and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2019. Data obtained before January 1, 2019, and presented in this report are from the most recent testing performed in accordance with the laws, rules and regulations.

WATER QUALITY TEST RESULTS FOR OCKLAWAHA WATER PLANT

Radioactive Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Alpha Emitters	(pCi/L)	APR'15	No	2.4	ND - 2.4	0	15	Erosion of natural deposits
Radiu 226 + 228	(pCi/L)	APR'15	No	1.5	ND - 1.5	0	5	Erosion of natural deposits

Inorganic Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Arsenic	(ppb)	MAR '18	No	0.1	N/A	N/A	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	(ppm)	MAR '18	No	0.022	0.014 - 0.022	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride	(ppm)	MAR '18	No	0.19	0.17 - 0.19	4	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum levels between 0.7 and 1.2 ppm
Lead (point of entry)	(ppb)	MAR '18	No	2.3	ND - 2.3	N/A	15	Residue from man-made pollution such as auto emissions and paint; lead pipe, casing, and solder
Sodium	(ppm)	MAR '18	No	22	19 - 22	N/A	160	Salt water intrusion; leaching from soil

Stage 2 Disinfectants and Disinfection By-Products

Disinfectant or Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL or MRDL Violation Yes / No	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine	(ppm)	2019	No	3.2	0.4 - 3.3	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Haloacetic Acids (five) (HAA_5)	(ppb)	SEP '19	No	18.6	N/A	N/A	MCL = 60	By-product of drinking water disinfection
Total trihalomethane (TTHM)	(ppb)	SEP '19	No	36.7	N/A	N/A	MCL = 80	By-product of drinking water disinfection

Lead and Copper (Tap Water)

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	AL Violation Yes / No	90th Percentile Result	No. of Sampling Sites Exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper	(ppm)	AUG '18	No	0.061	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

In the table you may find unfamiliar terms and abbreviations. To help you better understand these terms we have provided the following definitions (please note not all definitions may pertain to your report):

- Action Level (AL) – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial growth.
- Maximum Residual Disinfectant Level Goal (MRDLG) – The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.
- ND – This abbreviation means not detected and indicates that the substance was not found by laboratory analysis.
- Parts per million (ppm) or milligrams per Liter (mg/L) - one part of analyte (by weight) to 1 million parts of water sample (by weight).
- Parts per billion (ppb) or micrograms per Liter (µg/L) - one part of analyte (by weight) to 1 billion parts of water sample (by weight).
- Picocurie per liter (pCi/L) - measure of the radioactivity in water.

What does this mean?

As you can see our system had no violations. We're very proud that your drinking water meets all Federal and State requirements.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Sunshine Utilities is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals, and in some cases radioactive material, and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

A.) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

B.) Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

C.) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

D.) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

E.) Radioactive contaminants, which may be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The FDA (Food & Drug Administration) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care providers about their drinking water. EPA/CDC (Center for Disease Control) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are also available from the Safe Drinking Water Hotline (800-426-4791).

We are committed to ensuring the quality of your water. If you have any questions or concerns about the information provided, please feel free to call the numbers listed.

Sunshine Utilities

10230 East Highway 25, Belleview, FL 34420
Office (352)347-8228 – Fax (352)347-6915

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality of water and services we deliver to you everyday. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

Please follow the link to view your 2019 Annual Water Quality Report.

https://www.sunshineutilities.org/ccr19/2019OcklawahaWater.pdf

APPENDIX E: SANITARY SURVEY REPORT

Florida Department of Environmental Protection

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

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Noah Valenstein
Secretary

September 11, 2018

Dewaine Christmas
Sunshine Utilities of Central Florida, Inc.
10230 SE Highway 25
Belleview, FL 34420
Sunshineutl@aol.com

Re: Ocklawaha Water Works
PW Facility ID #3420939
Marion County

Dear Mr. Christmas:

Department personnel conducted an inspection of the above-referenced facility on August 16, 2018. Based on the information provided during the inspection, the facility was determined to be in compliance with the Department's rules and regulations. A copy of the inspection report is attached for your records.

The Department appreciates your efforts to maintain this facility in compliance with state and federal rules. Should you have any questions or comments, please contact Brad Whidden at 407-897-4315 or via e-mail at Brad.Whidden@dep.state.fl.us.

Sincerely,

Kimberly Rush, P.E., Assistant Director
Central District
Florida Department of Environmental Protection

Enclosure: Inspection Report

State of Florida
Department of Environmental Protection
Central District

SANITARY SURVEY REPORT

Plant Name **CR 25 PLANT OCKLAWAHA TERRACE** County Marion PWS ID # **3420939-1**
Plant Location SR 464 and CR 25, Ocklawaha, FL 34420 Phone 352-347-8228
Owner Name Sunshine Utilities of Central Florida, Inc. Phone 352-347-8228
Owner Address 10230 SE Highway 25, Belleview, FL 34420-5531
Contact Person Dewaine Christmas Title Owner Phone 352-347-8228
This Survey Date 8/16/18 Last Survey Date 9/30/15 Last Compliance Inspection Date 11/10/99

PWS TYPE: Community

PLANT CATEGORY & CLASS: 5D

MAX-DAY DESIGN CAPACITY: 216,000 gpd

PWS STATUS: Approved

TREATMENT PROCESSES IN USE
Hypochlorination

SERVICE AREA CHARACTERISTICS
Subdivision
Food Service: ☐ Yes ☐ No ☒ N/A

Number of Service Connection 329
Population Served 1,130 Basis Owner

OPERATION & MAINTENANCE LOG: Yes
Location Plant
Comments

CERTIFIED OPERATOR: Yes
Operator(s) & Certification Class-Number:
Kelvin Edun C-7459

Hrs/day: *Required* Visit *Actual* Visit
Days/wk: *Required* 3 *Actual* 3
Non-consecutive Days? ☐ Yes ☐ No ☒ N/A
Comments Visits must be on non-consecutive days and total at least 0.3 hours per week.

MONTHLY OPERATION REPORTS (MORs)
MORs submitted regularly? ☒ Yes ☐ No ☐ N/A
Data missing from MORs? ☒ No ☐ Yes ☐ N/A
Average Day (from MORs) 30,767 gpd
Maximum Day (from MORs) 58,000 gpd 02/18
Comments

Flow Measuring Device Flow Meter
Meter Size & Type 3" Master
Date Last Calibrated 7/14/15

RAW WATER SOURCE
☒ GROUND; Number of Wells 1
☐ PURCHASED from PWS ID #
☒ Emergency Water Source Ocklawaha Pines WTP
Emergency Water Capacity 91,440 gpd

STANDBY POWER SOURCE: Yes
Source Generator at Ocklawaha Pines WTP
Capacity of Standby (kW) 12
Switchover: ☒ Automatic ☐ Manual
Hrs Operated Under Load Unknown
What equipment does it operate?
☒ Well Pumps 1
☐ High Service Pumps
☒ Treatment Equipment
Satisfy avg. daily demand? ☒Yes ☐No ☐Unknown
Audio-visual alarm? ☐Yes ☒No
Comments There is no audio-visual alarm at this water treatment plant.

PLANS AND MAPS

Coliform Sampling Plan	☒ Yes	☐ No	☐ N/A
D/DBP Monitoring Plan	☒ Yes	☐ No	☐ N/A
Lead and Copper Plan	☒ Yes	☐ No	☐ N/A
Distribution System Map	☒ Yes	☐ No	☐ N/A
Emergency Response Plan	☒ Yes	☐ No	☐ N/A

Comments

PREVENTIVE MAINTENANCE/O&M
Operation & Maintenance Manual ☒ Yes ☐ No
Preventive Maintenance Program ☒ Yes ☐ No

Flushing Program	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A
Isolation Valve Exercise	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A

Comments

CROSS CONNECTION CONTROL
BFPAs None observed # Tested N/A
WWTP RPZ N/A Date Tested N/A
Written Plan Yes Date N/A
Comments N/A

PWS ID # 3420939-1
Date 8/16/18

GROUND WATER SOURCE

Well Number (Florida Unique Well ID #)		1(AAE0266)			
Year Drilled		Unknown			
Depth Drilled		Unknown			
Drilling Method		Unknown			
Type of Grout		Unknown			
Static Water Level		Unknown			
Pumping Water Level		Unknown			
Design Well Yield		Unknown			
Test Yield		Unknown			
Actual Yield (if different than rated capacity)		Unknown			
Strainer		Unknown			
Length (outside casing)		Unknown			
Diameter (outside casing)		8”			
Material (outside casing)		Black steel			
Well Contamination History		*			
Is inundation of well possible?		No			
6’ X 6’ X 4” Concrete Pad		Yes			
SET BACKS	Septic Tank	>200’			
	Reuse Water	N/A			
	WW Plumbing	>100’			
	Other Sanitary Hazard	None observed			
PUMP	Type	Submersible			
	Manufacturer Name	Sta-Rite			
	Model Number	Unknown			
	Rated Capacity (gpm)	300			
	Motor Horsepower	15			
Well casing 12” above grade?		Yes			
Well Casing Sanitary Seal		Yes			
Raw Water Sampling Tap		Yes			
Above Ground Check Valve		Yes			
Security		Yes			
Well Vent Protection		N/A			

COMMENTS .

PWS ID # 3420939
Date 8/16/18

CHLORINATION (Disinfection)
Type: ☐ Gas ☒ Hypo
Make Chem-Tech X 2 Capacity 30 gpd
Chlorine Feed Rate 80% & 50% of stroke
Avg. Amount of Cl_2 gas used N/A
Chlorine Residuals: Plant n/a Remote 2.2+
Remote tap location Dollar General
DPD Test Kit: ☐ On-site ☒ With operator
☐ None ☐ Not Used Daily
Injection Points Prior to the hydropneumatic tank.
Booster Pump Info
Comments

Chlorine Gas Use Requirements	YES	NO	Comments
Dual System	☐	☐	
Auto-switchover	☐	☐	
Alarms:			
Loss of Cl_2 capability	☐	☐	
Loss of Cl_2 residual	☐	☐	
Cl_2 leak detection	☐	☐	
Scale	☐	☐	
Chained Cylinders	☐	☐	
Reserve Supply	☐	☐	
Adequate Air-pak	☐	☐	
Sign of Leaks	☐	☐	
Fresh Ammonia	☐	☐	
Ventilation	☐	☐	
Room Lighting	☐	☐	
Warning Signs	☐	☐	
Repair Kits	☐	☐	
Fitted Wrench	☐	☐	
Housing/Protection	☐	☐	

AERATION (Gases, Fe, & Mn Removal)
Type Capacity
Aerator Condition
Visible Algae Growth
Protective Screen Condition
Frequency of Cleaning
Date Last Inspected/Cleaned
Comments

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

Tank Type/Number	H1		
Capacity (gal)	5,000		
Material	Steel		
Gravity Drain	Yes		
By-Pass Piping	Yes		
Protected Openings	Yes		
Sight Glass or Level Indicator	Yes		
PRV/ARV	PRV		
Pressure Gauge	Yes		
On/Off Pressure	40/60		
Access Secured	Yes		
Access Manhole	Yes		
Tank Sample Tap Location	Effluent pipe		
Date of Inspection	n/a*		
Date of Cleaning	n/a*		

Comments *New tank brought online on 1/11/2016

HIGH SERVICE PUMPS

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

Comments

State of Florida
Department of Environmental Protection
Central District

SANITARY SURVEY REPORT

Plant Name **OCKLAWAHA PINES** County Marion PWS ID # **3420939-2**
Plant Location SE 145th Avenue, Ocklawaha, FL 34420 Phone 352-347-8228
Owner Name Sunshine Utilities of Central Florida, Inc. Phone 352-347-8228
Owner Address 10230 SE Highway 25, Belleview, FL 34420-5531
Contact Person Dewaine Christmas Title Owner Phone 352-347-8228
This Survey Date 8/16/18 Last Survey Date 9/30/15

PWS TYPE: Community

PLANT CATEGORY & CLASS: 5D

MAX-DAY DESIGN CAPACITY: 91,440 gpd

PWS STATUS: Approved

TREATMENT PROCESSES IN USE
Hypochlorination

SERVICE AREA CHARACTERISTICS
Subdivision
Food Service: ☐ Yes ☐ No ☒ N/A

Number of Service Connection 329
Population Served 1,130 Basis Owner

OPERATION & MAINTENANCE LOG: Yes
Location Plant
Comments

CERTIFIED OPERATOR: Yes
Operator(s) & Certification Class-Number:
Kelvin Edun C-7459

Hrs/day: *Required* Visit *Actual* Visit
Days/wk: *Required* 3 *Actual* 3
Non-consecutive Days? ☐ Yes ☐ No ☒ N/A
Comments Visits must be on non-consecutive days and total at least 0.3 hours per week.

MONTHLY OPERATION REPORTS (MORs)
MORs submitted regularly? ☒ Yes ☐ No ☐ N/A
Data missing from MORs? ☒ No ☐ Yes ☐ N/A
Average Day (from MORs) 64,189 gpd
Maximum Day (from MORs) 147,900 gpd 09/17
Comments: This WTP exceeded its maximum-day design on several occasions within the past year. The facility will adjust pressures between plants to assure that the design capacities are not exceeded for this plant.

Flow Measuring Device Flow Meter
Meter Size & Type 3" Sensus
Date Last Calibrated 7/14/15

RAW WATER SOURCE
☒ GROUND; Number of Wells 1
☐ PURCHASED from PWS ID #
☐ Emergency Water Source Ocklawaha Terrace
Emergency Water Capacity 216,000

STANDBY POWER SOURCE: Yes
Source Diesel generator
Capacity of Standby (kW) 12
Switchover: ☒ Automatic ☐ Manual
Hrs Operated Under Load Unknown
What equipment does it operate?
☒ Well Pumps 1
☐ High Service Pumps
☒ Treatment Equipment
Satisfy avg. daily demand? ☒Yes ☐No ☐Unknown
Audio-visual alarm? ☒Yes ☐No
Comments

PLANS AND MAPS

Coliform Sampling Plan	☒ Yes	☐ No	☐ N/A
D/DBP Monitoring Plan	☒ Yes	☐ No	☐ N/A
Lead and Copper Plan	☒ Yes	☐ No	☐ N/A
Distribution System Map	☒ Yes	☐ No	☐ N/A
Emergency Response Plan	☒ Yes	☐ No	☐ N/A

Comments

PREVENTIVE MAINTENANCE/O&M
Operation & Maintenance Manual ☒ Yes ☐ No
Preventive Maintenance Program ☒ Yes ☐ No

Flushing Program	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A
Isolation Valve Exercise	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A

Comments

CROSS CONNECTION CONTROL
BFPAs None observed # Tested N/A
WWTP RPZ N/A Date Tested N/A
Written Plan Yes Date N/A
Comments N/A

PWS ID # 3420939-2
Date 8/16/18

GROUND WATER SOURCE

Well Number (Florida Unique Well ID #)		1			
Year Drilled		1985			
Depth Drilled		264’			
Drilling Method		Cable tool			
Type of Grout		Neat Cement			
Static Water Level		Unknown			
Pumping Water Level		Unknown			
Design Well Yield		Unknown			
Test Yield		Unknown			
Actual Yield (if different than rated capacity)		Unknown			
Strainer		Unknown			
Length (outside casing)		189’			
Diameter (outside casing)		4”			
Material (outside casing)		Black steel			
Well Contamination History		None			
Is inundation of well possible?		No			
6’ X 6’ X 4” Concrete Pad		Yes			
SET BACKS	Septic Tank	>200’			
	Reuse Water	N/A			
	WW Plumbing	>100’			
	Other Sanitary Hazard	None observed			
PUMP	Type	Submersible			
	Manufacturer Name	Sta-Rite			
	Model Number	Unknown			
	Rated Capacity (gpm)	127			
	Motor Horsepower	7.5			
Well casing 12” above grade?		Yes			
Well Casing Sanitary Seal		Yes			
Raw Water Sampling Tap		Yes			
Above Ground Check Valve		Yes			
Security		Yes			
Well Vent Protection		N/A			

COMMENTS _____

PWS ID # 3420939-2
Date 8/16/18

CHLORINATION (Disinfection)
Type: ☐ Gas ☒ Hypo
Make Chem-Tech Capacity 30 gpd
Chlorine Feed Rate 80% & 50% of stroke
Avg. Amount of Cl_2 gas used N/A
Chlorine Residuals: Plant n/a Remote 2.2+
Remote tap location Dollar General
DPD Test Kit: ☐ On-site ☒ With operator
☐ None ☐ Not Used Daily
Injection Points Prior to the hydropneumatic tank.
Booster Pump Info
Comments

Chlorine Gas Use Requirements	YES	NO	Comments
Dual System	☐	☐	
Auto-switchover	☐	☐	
Alarms:			
Loss of Cl_2 capability	☐	☐	
Loss of Cl_2 residual	☐	☐	
Cl_2 leak detection	☐	☐	
Scale	☐	☐	
Chained Cylinders	☐	☐	
Reserve Supply	☐	☐	
Adequate Air-pak	☐	☐	
Sign of Leaks	☐	☐	
Fresh Ammonia	☐	☐	
Ventilation	☐	☐	
Room Lighting	☐	☐	
Warning Signs	☐	☐	
Repair Kits	☐	☐	
Fitted Wrench	☐	☐	
Housing/Protection	☐	☐	

AERATION (Gases, Fe, & Mn Removal)
Type Capacity
Aerator Condition
Visible Algae Growth
Protective Screen Condition
Frequency of Cleaning
Date Last Inspected/Cleaned
Comments

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

Tank Type/Number	H1		
Capacity (gal)	7,500		
Material	Steel		
Gravity Drain	Yes		
By-Pass Piping	Yes		
Protected Openings	Yes		
Sight Glass or Level Indicator	Yes		
PRV/ARV	PRV		
Pressure Gauge	Yes		
On/Off Pressure	40/60		
Access Secured	Yes		
Access Manhole	Yes		
Tank Sample Tap Location	Effluent pipe		
Date of Inspection	06/2013		
Date of Cleaning	06/2013		

Comments The 7,500 gallon tank was taken offline 6 months ago and is due for replacement. The system is currently using a temporary 3,000 gallon tank. The temporary tank was brought online in 3/2018.

HIGH SERVICE PUMPS

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

Comments

Areas of Concern	Rule	Corrective Action	Date Corrected	Significant Deficiency?
MOR indicates the max day capacity was exceeded	62-555.350(4)	Investigate the cause of the exceedance of the plant's permitted design capacity and provide a written response.	9/7/18: The facility will be adjusting system pressures between the two plants to ensure that max capacities are not exceeded	No

MONITORING REMINDER:

- Nitrate and nitrite samples are required to be collected from the point of entry (POE) to the distribution system annually. The 2018 results have been received.
- Monitoring schedules are available on the Central District's FTP site: https://floridadep.gov/central/central/content/resources-drinking-water-facilities-and-operators-central-district

COMMENTS:

- Contact FRWA (Florida Rural Water Association) at 850-668-2746, or frwa@frwa.net, for free technical assistance with your system. FRWA has extended benefits offered to members.
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.

  Checking the calibration of finished-drinking-water meters at treatment plants shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water. [Rule 62-555.350(2), F.A.C.]
- Suppliers of water shall submit written notification to the Department before beginning work or alterations to the public water system. Each notification shall be submitted to the appropriate Department of Environmental Protection District Office or Approved County Health Department and shall include the following: a description of the scope, purpose, and location of the work or alterations; and assurance that the work or alterations will comply with applicable requirements listed in Rule 62-555.330, F.A.C. Suppliers of water may begin such work or alterations 14 days after providing notification to the Department unless they are advised by the Department that the notification is incomplete or that a construction permit is required.
- Suppliers of water shall telephone the SWO at 1-800-320-0519 immediately (i.e., within two hours) after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving a public water system. [Rule 62-555.350(10)(a), F.A.C.]
- Suppliers of water shall telephone, and speak directly to a person at, the appropriate DEP District Office as soon as possible, but never later than noon of the next business day, in the event of any of the following emergency or abnormal operating conditions:
  - The occurrence of any abnormal color, odor, or taste in a public water system's raw or finished water;
  - The failure of a public water system to comply with applicable disinfection requirements; or
  - The breakdown of any water treatment or pumping facilities, or the break of any water main, in a public water system if the breakdown or break is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(b), F.A.C.]
- Suppliers of water shall notify affected water customers in writing or via telephone, newspaper, radio, or television; and telephone, and speak directly to a person at, the appropriate DEP District Office by no later than the previous business day before taking PWS components out of operation for planned maintenance or repair work if the work is

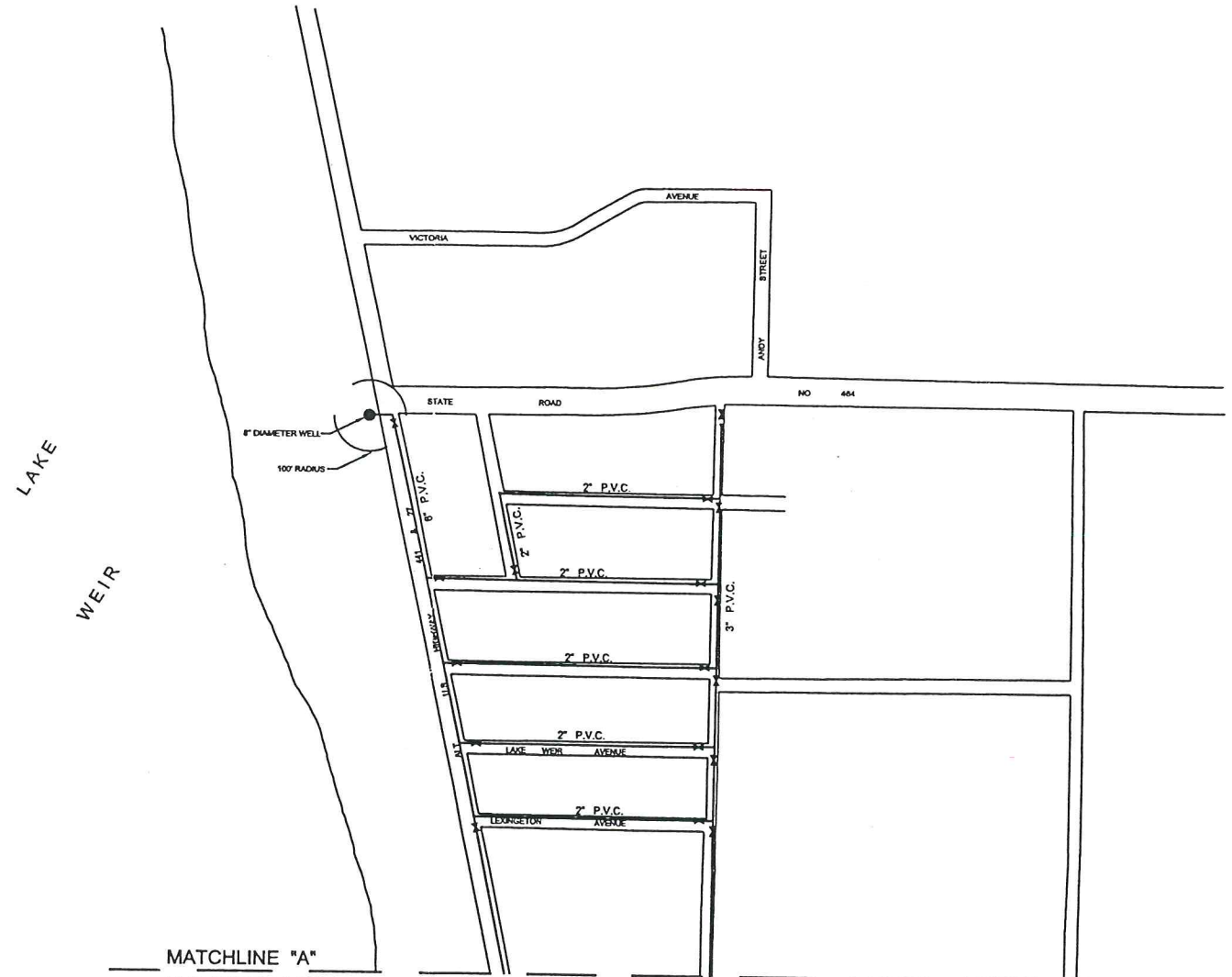
expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335 F.A.C. [Rule 62-555.350(10)(d), F.A.C.]

COMMENTS(continued):

- Suppliers of water shall issue precautionary “boil water” notices as required or recommended in the Department of Health’s “Guidelines for the Issuance of Precautionary Boil Water Notices” as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(11), F.A.C.]

Brad Whidden	Kimberly Rush
Inspector Signature	*Reviewer Signature*
Brad Whidden	Kim Rush
Printed Name	*Printed Name*
Environmental Specialist	Assistant Director
Title	*Title*
8/28/2018	9/11/2018
Date	*Date*

APPENDIX F: DISTRIBUTION MAP

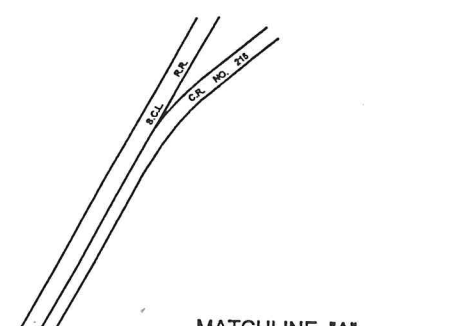


N.T.S.

LEGEND

- PVC EXISTING WATER MAIN &SIZE
- WATER PLANT & WELL SITE
- WATER VALVE
- BLOW-OFF VALVE

OCKLAWAHA WATER WORKS



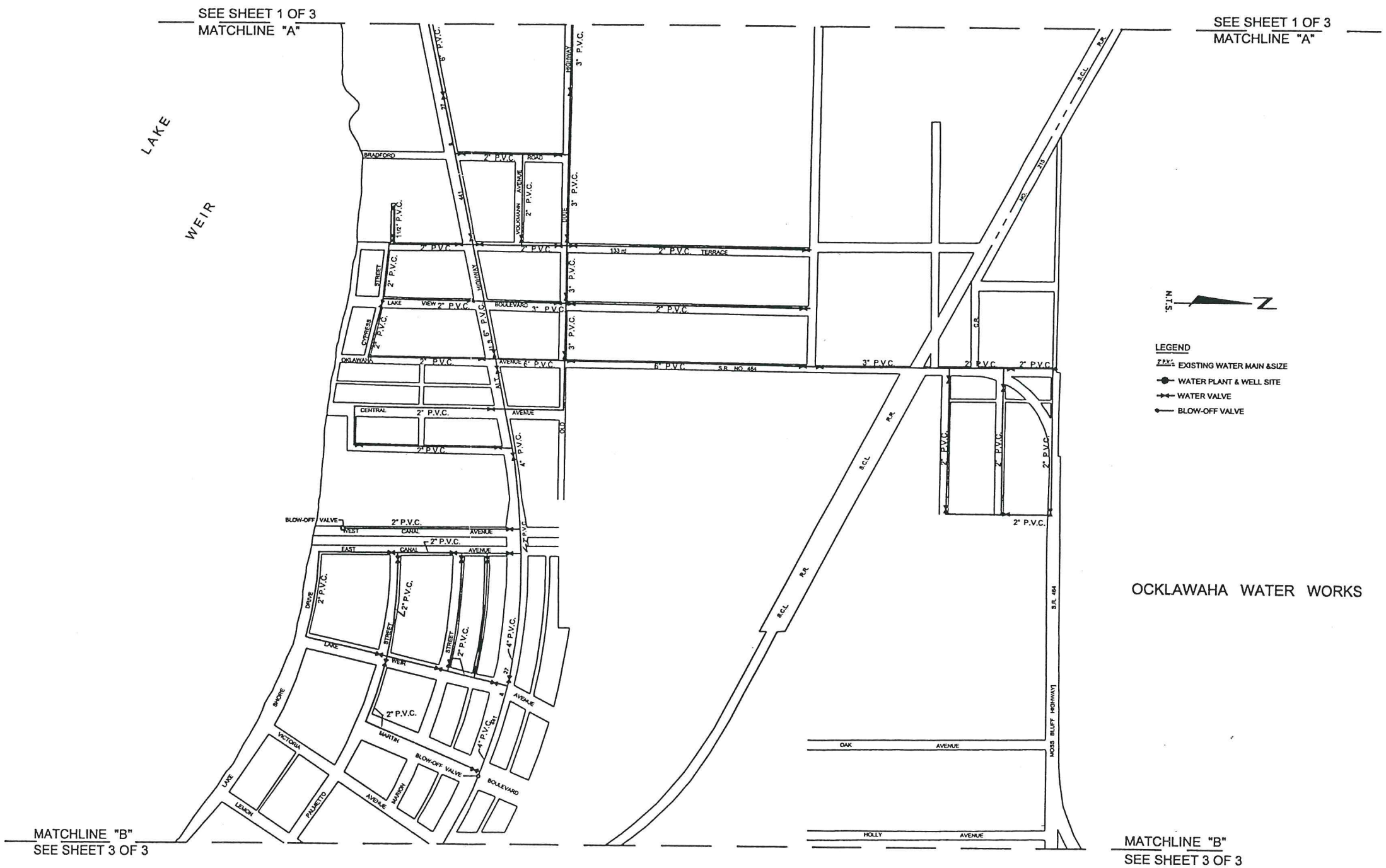
H.W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17th ST. SUITE 802 OCALA, FLORIDA 34471
PHX (352) 840-9588
(352) 840-9774

FACILITY WATER SYSTEM

OCKLAWAHA WATER WORKS
SUNSHINE UTILITIES
BELLEVIEW, FLORIDA

DESCRIPTION	DATE	CHK	DRN
ORIGINAL ISSUE	15 JUL 99	RJW	SAO

Project No. 9636-02



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SUNSHINE UTILITIES
BELLEVIEW, FLORIDA

DESCRIPTION	DATE	CHK	DRN
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Project No. 9636-02

SEE SHEET 2 OF 3
MATCHLINE "B"

SEE SHEET 2 OF 3
MATCHLINE "B"

LAKE WEIR

LAKE WEIR

ALT. 27 & 441

SE 145TH AVE

SE 145TH AVE

SE 145TH AVE



woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Ponderosa Pines

210 South Florida Avenue | Suite 220
Lakeland, Florida 33801
800.426.4262

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

0233748.01
CSWR
July 2021

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» SWAPP Homepage
» Search By County
» Search by PWS Name or Number
» How to Help?

Definitions

» Aquifers
» Public Water Systems
» Assessment
» Potential Contaminants
» Susceptibility
» Prevention

Contact Us

» Email
» Mailing Address
» Source Water Protection Workshop

EPA Source Water Protection website

Source Water Assessment & Protection Program

Results for: 2019

PONDEROSA PINES (2 WPS)
CNR SE 185 TERR & SE 20TH PL
SILVER SPRINGS, FL 34488

Public Water System ID: 3424062

Previously Known As:
PONDEROSA PINES (PKA COM. WATER COOP)
PONDEROSA PINES

County: MARION
DEP Regulatory Office: DEP Central District
3319 Maguire Blvd, Suite 232
Orlando, FL 32803
407-897-4100
Public Water System Type : COMMUNITY
Public Water System Source : GROUND
Primary Use: MOBILE HOME PARK
Population Served: 465
Size of Assessment Area:
GROUND: For this system, a 1000-foot radius circle around each well was used to define the assessment area.

Number of Wells: 2

Well ID	Owner ID	FLUWID	Status	Well Depth(ft)	Aquifer
34298	WELL #3	AAH2701	ACTIVE	430	Floridan Aquifer
5810	BACKUP 4" 375'/400' 60GPM SUBM	AAG9611	ACTIVE	390	Floridan Aquifer

Results:

GROUND WATER:
A search of the data sources indicated no potential sources of contamination.

Last updated: February 19, 2020

Accessibility Information

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3900 Commonwealth Boulevard M.S. 49
Tallahassee, Florida 32399
850-245-2118 (phone) /
850-245-2128 (fax)

APPENDIX B: TANK INSPECTION REPORT

INSPECTION AND TESTING of HYDROPNEUMATIC TANK

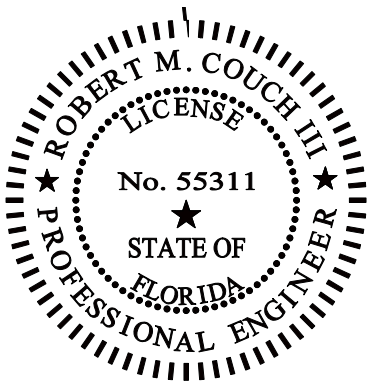
Ponderosa Pines No. 1 Subdivision Tank

Pursuant to Chapter 62-555.350 (1) & (2) F.A.C

Water System:	Ponderosa Pines No. 1 Subdivision
Street Address:	Corner of Southeast 20th Place/185th Terr.
City, State:	Marion County, Florida
Phone:	352-347-8228
Contact:	Dewaine Christmas
E-mail:	sunshineutl@aol.com
PWS ID No.:	3424062
County:	Marion
Classification:	Community
Source:	Ground
Ownership:	Sunshine Utilities of North Central Florida
Date:	December 13, 2018

Inspection and Testing by:

Robert M. Couch III, P.E.
ENVIRO-TECH, Inc.
PO Box 152
Weirsdale, FL 32195
Telephone: 352-694-1799
E-mail: envirotech@ymail.com



C.O.A. No. 8692 Registration No. 55311

Robert M. Couch III, P.E.

Digitally signed by Robert M. Couch III, P.E.
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Date: 2019.01.27 21:44:58 -05'00'

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1.0 EXECUTIVE SUMMARY

ENVIRO-TECH, Inc. was contracted to perform the five year tank condition inspection on the above mentioned hydro-pneumatic tank.

This condition inspection was performed on December 13, 2018 by Robert M. Couch III, P.E. on the above referenced water tank. The tank was drained and, an internal and external inspection was performed to assess the tank condition as required by the Florida Department of Environmental Protection (FDEP) Rule 62-555.

The tank shell and heads appeared to be in overall good structural condition. Ultrasonic Thickness Measurement (UTM) readings indicated that the average thickness of the tank shell at the time of the field inspection was approximately 4.70 millimeters. UTM readings from the tank heads indicated an average thickness of 6.21 millimeters. The exterior coating of the tank appeared to be in overall good condition with no notable surface corrosion. The interior coating of the tank appeared to be in fair condition. However, there was no coating on significant areas of the tank interior and corrosion was noted on the tank floor and walls.

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 65 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 60 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

2.0 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS CHAPTER 62-555.350 (1) & (2)

2.1 Operation and Maintenance of Public Water Systems

(1) Suppliers of water shall operate and maintain their public water systems so as to comply with applicable standards in Chapter 62-550, F.A.C., and requirements in this chapter.

(2) Suppliers of water shall keep all necessary public water system components in operation and shall maintain such components in good operating condition so the components function as intended. Preventive maintenance on electrical or mechanical equipment – including exercising of auxiliary power sources, checking the calibration of finished-drinking-water meters at treatment plants, testing of air or pressure relief valves for hydropneumatic tanks, and exercising of isolation valves –shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water; however, in no case shall auxiliary power sources be run under load less frequently than monthly. Accumulated sludge and biogrowths shall be cleaned routinely (i.e., at least annually) from all treatment facilities that are in contact with raw, partially treated, or finished drinking water and that are not specifically designed to collect sludge or support a biogrowth; and blistering, chipped, or cracked coatings and linings on treatment or storage facilities in contact with raw, partially treated, or finished drinking water shall be rehabilitated or repaired. **Finished-drinking-water storage tanks, including conventional hydropneumatic tanks with an access manhole but excluding bladder- or diaphragm-type hydropneumatic tanks without an access manhole, shall be checked at least annually to ensure that hatches are closed and screens are in place; shall be cleaned at least once every five years to remove biogrowths, calcium or iron/manganese deposits, and sludge from inside the tanks; and shall be inspected for structural and coating integrity at least once every five years by personnel under the responsible charge of a professional engineer licensed in Florida.** Dead-end water mains conveying finished drinking water shall be flushed quarterly or in accordance with a written flushing program established by the supplier of water; additionally, dead-end or other water mains conveying finished water shall be flushed as necessary whenever legitimate water quality complaints are received.

2.2 Location of Inspection and Testing Report

Pursuant to Chapter 62-555.350 (2) and 62-555.350 (12) FAC, beginning 28 August 2003, all water systems regardless of size must maintain a copy up-to-date Preventive Maintenance Logs of each water system in the water facility office. The Preventive Maintenance Logs must show the date and type of all maintenance performed and comply with Rule 62-555.350 (2) and 62-555.350 (12), which requires the following:

- Preventive Maintenance Logs on Electrical and Mechanical Equipment
- Cleaning and Inspection Logs of Treatment Facilities and Storage Tanks
- Records of Coatings and Linings Rehabilitation or Repair
- Licensed Engineer Inspection Report (once every 5-years) for Finished-Drinking-Water Storage Tanks and Hydropneumatic Tanks
- Written Flushing Program and Logs showing that Dead-End Water Mains are being flushed at least quarterly
- Isolation Valves Exercise Logs

A copy of this report should be kept with these records.

3.0 HYDROPNEUMATIC PRESSURE TANK INSPECTION AND TEST PROCEDURES

This Inspection and Test Procedures is used as a reference in the overall inspection and testing of this Water System. This procedure is to be updated from time to time to reflect physical and procedural changes to the water system.

Inspection and testing of this tank was conducted by Robert M. Couch III, P.E. with the assistance of Jim Hodges Jr. of Sunshine Utilities of North Central Florida, Inc. The following inspection and testing procedures for hydropneumatic pressure tanks were used:

3.1 Pre-Test Procedures

1. If water service is to be interrupted customers must be notified in advance and if appropriate, boil water notices issued.

2. Turn-off all electrical power to well pumps, air motors, chlorination equipment, etc.

3. Open drain valve to empty tank. This is also a good time to check the valves (exercise them) that isolate the tank to see if they are in fact working as they should. This downtime can also be used to replace a valve if needed.

4. Once depressurized, the site glass is inspected for proper operation.

5. Once the tank is drained, the manway (hatch) will need to be removed for inspection of the interior.

3.2 Visual Inspection

6. Perform visual inspection of the tank exterior and accessories for presence of leaks, shell distortion, signs of settling, deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, accessories, etc.

7. Tank layout and physical measurements

8. Color photographs of the tank exterior and all of the essential appurtenances

9. Perform visual inspection of the tank interior for presence of deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, bio-growths, calcium or iron/manganese deposits, sludge, etc.

3.3 Nondestructive Examination

10. The tank interior coating is then examined for dry film thickness (See PosiTest® DFT Coating Thickness Gauge measurement) or equivalent.

11. The tank exterior is then examined for thickness measurements (See Smart Sensor AR 850+ Ultrasonic Thickness Gauge measurement).

12. If deemed necessary, the tank exterior (or interior) is then examined for porosity, pinholes and leaks (See PCWI porosity detection test, also known as holiday detector test).

3.4 Post-Test Procedures

13. Any coating problems detected should be corrected while the tank is out of service in order to avoid further extensive downtime.

14. Once the tank is inspected and all maintenance items are taken care of, the tank will need to be disinfected prior to placing back in use.

15. Once the tank has been disinfected, bacteriological tests must be performed on water samples (2 per FDEP) taken from the tank discharge. FDEP to clear for service prior to placing back in service.

3.5 Safety of Test Area

The test area should be restricted and barricaded. The porosity testing instrument output can be up to 20,000 volts. Testing should be carried out well clear of personnel not involved in the testing procedure. Should accidental contact be made with the test electrode, the recipient will receive a mild shock. This equipment should never be used by a person with a pacemaker.

4.0 TEST EQUIPMENT DESCRIPTIONS

4.1 AR 850+ Ultrasonic Thickness Gauge



The Smart Sensor AR 850+ Digital Ultrasonic Thickness Gauge is an economical, user-friendly, menu driven, and multi-functional unit offering extensive features from basic measurements to extended memory. This dynamic series of UT gauges is designed to measure the thickness of metallic and non-metallic materials such as steel, aluminum, titanium, plastics, ceramics, glass and any other good ultrasonic wave conductor as long as it has parallel top and bottom surfaces. The AR 850+ gauges will accurately display readings in millimeters after a simple calibration to a known Thickness or sound velocity.

4.1.1 Features

- Main Unit
- Transducer 5 MHz / 2.5 MHz
- Integrated steel calibration plate 4.0mm
- Batteries (2 x AAA)
- Ultrasonic Couplant
- Operation Manual
- Certificate
- Carrying Case
- One Year Warranty

4.1.2 Technical Specification

Display Type	4-digit LCD
Display Resolution	(<100 mm) 0.1 mm
Units	Metric
Measuring Range (steel)	1.2 to 220.0 mm
Sound Velocity Range	1000 to 9999 m/s
Operating Temperature	0 ° C +45° C
Frequency	5 MHz
Power Source	3 X 1.5V AAA batteries
Dimensions	70x145.5x28 mm

4.2 Compact DC Inspector Porosity Detector



Porosity detection of Tanks, Valves, Pumps, Pipeline field joints, and general inspection and maintenance. Suitable for a broad range of testing and inspection requirements. It is recommended that the integral probe be limited to a 125mm flat brush or fan brush.

4.2.1 Standards

ASTM G62-87(1998), ASTM D4787-93(1999), NACE RP0274-98, NACE RP0490-2001, NACE RPO188- 99, JIS G-3491, JIS G-3492, ANSI/AWWA C214-89, ANSI/AWWA C213-94 and ISO 2746:1998

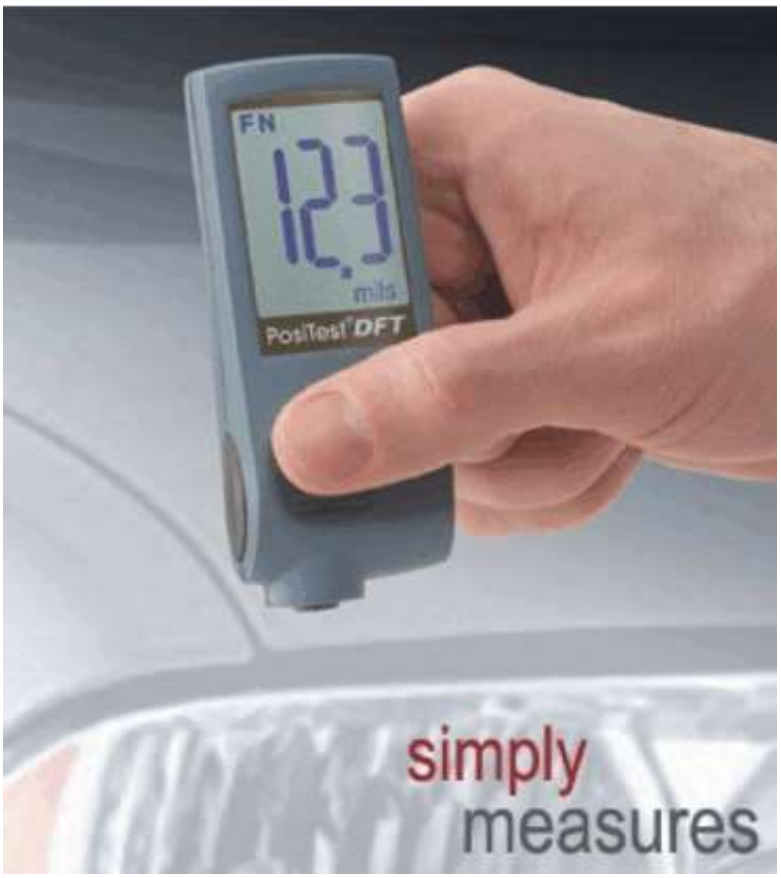
4.2.2 Features

- LED bar graph display of voltage
- "Single" hand-held, lightweight unit for simplicity and ease of operation
- Audible and visual alarms
- LED battery condition indicator
- Integral probe
- Detector
- 7m Earth lead and clamp
- Flat 125mm wide brass wire brush (or optional fan brush)
- Carry Case
- Operating instructions with conformance certificate
- Variable output up to 10kV or Variable output up to 20kV

4.2.3 Technical Specifications

Test Voltage	to 10kV (using 9V Battery)
Output Test Current	up to 100µA
Operating Temperature	-20 to +50ºC
Power Supply	Battery (9V internal)
Unit Dimensions	210 x 75 x 35mm (excl brush) 8.25" x 3.1" x 1.5"
Unit Weight	460g (incl probe)
Shipping Weight	1.5Kg

4.3 PosiTest DFT Coating Thickness Gauge



The new PosiTest DFT Coating Thickness Gauge measures coatings on ALL metals. It is the economical choice that retains the uncompromising quality of Qualitest inspection instruments.

Available in two models:

- PosiTest DFT Ferrous - measures non-magnetic coatings on steel.
- PosiTest DFT Combo - measures both non-magnetic coatings on steel and non-conductive coatings on aluminum, brass, etc. Automatically recognizes the substrate and takes a measurement.

4.3.1 Standards

ASTM B244/B499/B659/D1186/D1400/E376/G12, BS3900-C5, SSPC-PA2, ISO 2178/2360/2808, prEN ISO 19840, and others. Certificate of Calibration traceable to NIST available.

4.3.2 Features

- Fast, repeatable measurements
- No calibration required for most applications
- ZERO feature for rough or curved surfaces
- Handy RESET feature when no zero reference is available
- Strong, wear resistant, ruby-tipped probe
- Audible and visible measurement indication
- V-groove in probe for positioning on cylindrical parts
- Mils/Microns switchable
- Basic instructions on the back of each gauge

4.3.3 Technical Specifications

Measurement Range	0-40 mils (-1000 µm)
Accuracy	±(0.1 mils + 3%) (±(2µm + 3%))
Size	4 x 1.5 x 0.9 in (100 x38 x 23 mm)
Weight	2.5 oz (70 g)



5.0 HYDROPNEUMATIC PRESSURE TANK DESCRIPTION

The hydropneumatic pressure tank inspected and tested is described as follows:

Length: 20'-1" (21'-6" including elliptical heads)
Diameter: 4'-0" outside diameter
Volume: 2,000 gallons with elliptical heads
Tank Age: Approximately 15 years
Operating Pressure: 60 psi

6.0 TESTING

6.1 Porosity Testing

The tank surface was not swept with the Compact DC Inspector Porosity Detector during this inspection as no evidence of pin holes was observed throughout the surface of the tank.

6.2 Interior Coating Testing

No dry film thickness readings were taken within the tank interior as the coating had failed.

6.3 Ultrasonic Metal Thickness Testing

A total of 52 metal thickness readings were taken at various locations on the tank shell and head surface. The average shell reading was 4.7 millimeters in the cylindrical section and 6.21 millimeters in the elliptical heads. Typical industry standard minimum wall thickness for tanks of this size is 3/16" (4.76 mm).

7.0 VISUAL OBSERVATIONS

7.1 Tank Exterior

The exterior of the tank appeared to be in good structural condition.

7.2 Tank Interior

The tank interior appeared to be in fair condition, however, there were significant areas with no coating present on the interior tank surface. There was corrosion noted on the floor and side walls of the tank interior.

8.0 DEFINITIONS

Design Pressure - The maximum design pressure determined from the metal thickness.

Maximum allowable working pressure (MAWP) – Maximum pressure that the pressure tank is capable of safely holding at a design maximum temperature (250ºF).

Operating Pressure - The normal maximum operating pressure of the pressure tank. The normal operating pressure must always be below the MAWP. As a rule of thumb the maximum operating pressure should always be less than the MAWP.

Metal Thickness – The thickness of the pressure tank wall (not including a corrosion allowance) to be used in the pressure calculations.

Design Safety Factor on Metal Tensile Strength – A pressure tank is normally designed with a safety factor of 3 to 4 on the metal tensile strength. All pressure tanks are designed to operate with wall stresses below the yield point of the metal used for fabrication.

9.0 TANK PRESSURE CALCULATIONS

The following formula is found in ASME Section I for determination of MAWP:

For tanks with circumferential stress on (longitudinal joints)

P = SEt/(R+0.6t)
= 60 MPa x 1.0 x 4.70 mm / (605 mm+0.6 x 4.70 mm)
= 0.464 MPa
= 67 psi

When:

t < 0.5R = 0.5 x 605 = 302.45 mm (true) or
P < 0.385SE = 0.385 x 60 x 1.0 = 23.1 MPa (true)

Where:

t = metal thickness (mm) where t = 4.70 mm
R = inside radius of shell course under consideration (mm) = 605 mm
E = joint efficiency for cylindrical or spherical shells = 1.0 for welded tanks and corresponds to a safety factor of 3.5 in the parent metal.
P = maximum allowable working pressure (MPa) where 1 MPa = 145 psi
S = maximum allowable stress value at the operating temperature of the metal = 60 MPa (Safety Factor of 4).

10.0 CONCLUSIONS

Inspection and testing of the Ponderosa Pines No. 1 subdivision 2,000-gallon hydropneumatic pressure tank was performed on December 13, 2018. In addition to a visual examination, non-destructive examinations were also made. Non-destructive examinations included ultrasonic measurement of the tank wall thickness and visual inspection for pinholes and leaks. No examination of Dry Film Thickness Measurement (DFTM) of the interior coating was performed as there was only partial interior coating present.

Observations of the tank exterior indicated tank is subject to normal exposure. Observations of tank interior revealed light surface corrosion along the upper ridge portions of the tank interior.

11.0 RECOMMENDATIONS

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 65 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 60 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

Signed: Robert M. Couch III Date: 1/27/2019

Robert M. Couch III, P.E. Registration No. 55311

Typical exterior and interior views of tank







INSPECTION AND TESTING of HYDROPNEUMATIC TANK

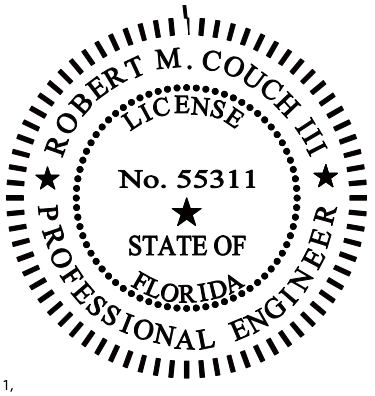
Ponderosa Pines No. 2 Subdivision Tank

Pursuant to Chapter 62-555.350 (1) & (2) F.A.C

Water System:	Ponderosa Pines No. 2 Subdivision
Street Address:	On Southeast 21st Lane off of 185th Terrace
City, State:	Marion County, Florida
Phone:	352-347-8228
Contact:	Dewaine Christmas
E-mail:	sunshineutl@aol.com
PWS ID No.:	3424062
County:	Marion
Classification:	Community
Source:	Ground
Ownership:	Sunshine Utilities of North Central Florida
Date:	December 13, 2018

Inspection and Testing by:

Robert M. Couch III, P.E.
ENVIRO-TECH, Inc.
PO Box 152
Weirsdale, FL 32195
Telephone: 352-694-1799
E-mail: envirotech@ymail.com



C.O.A. No. 8692 Registration No. 55311

Robert M. Couch III, P.E.

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1.0 EXECUTIVE SUMMARY

ENVIRO-TECH, Inc. was contracted to perform the five year tank condition inspection on the above mentioned hydro-pneumatic tank.

This condition inspection was performed on December 13, 2018 by Robert M. Couch III, P.E. on the above referenced water tank. The tank was drained and, an internal and external inspection was performed to assess the tank condition as required by the Florida Department of Environmental Protection (FDEP) Rule 62-555.

The tank shell and heads appeared to be in overall fair structural condition. A pinhole was noted in the tank shell. Ultrasonic Thickness Measurement (UTM) readings indicated that the average thickness of the tank shell at the time of the field inspection was approximately 4.69 millimeters. UTM readings from the tank heads indicated an average thickness of 8.19 millimeters. The exterior coating of the tank appeared to be in overall good condition with no notable surface corrosion. There was no coating on significant areas of the tank interior and corrosion was noted on the tank floor and walls.

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 60 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 51 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

2.0 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS CHAPTER 62-555.350 (1) & (2)

2.1 Operation and Maintenance of Public Water Systems

(1) Suppliers of water shall operate and maintain their public water systems so as to comply with applicable standards in Chapter 62-550, F.A.C., and requirements in this chapter.

(2) Suppliers of water shall keep all necessary public water system components in operation and shall maintain such components in good operating condition so the components function as intended. Preventive maintenance on electrical or mechanical equipment – including exercising of auxiliary power sources, checking the calibration of finished-drinking-water meters at treatment plants, testing of air or pressure relief valves for hydropneumatic tanks, and exercising of isolation valves –shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water; however, in no case shall auxiliary power sources be run under load less frequently than monthly. Accumulated sludge and biogrowths shall be cleaned routinely (i.e., at least annually) from all treatment facilities that are in contact with raw, partially treated, or finished drinking water and that are not specifically designed to collect sludge or support a biogrowth; and blistering, chipped, or cracked coatings and linings on treatment or storage facilities in contact with raw, partially treated, or finished drinking water shall be rehabilitated or repaired. **Finished-drinking-water storage tanks, including conventional hydropneumatic tanks with an access manhole but excluding bladder- or diaphragm-type hydropneumatic tanks without an access manhole, shall be checked at least annually to ensure that hatches are closed and screens are in place; shall be cleaned at least once every five years to remove biogrowths, calcium or iron/manganese deposits, and sludge from inside the tanks; and shall be inspected for structural and coating integrity at least once every five years by personnel under the responsible charge of a professional engineer licensed in Florida.** Dead-end water mains conveying finished drinking water shall be flushed quarterly or in accordance with a written flushing program established by the supplier of water; additionally, dead-end or other water mains conveying finished water shall be flushed as necessary whenever legitimate water quality complaints are received.

2.2 Location of Inspection and Testing Report

Pursuant to Chapter 62-555.350 (2) and 62-555.350 (12) FAC, beginning 28 August 2003, all water systems regardless of size must maintain a copy up-to-date Preventive Maintenance Logs of each water system in the water facility office. The Preventive Maintenance Logs must show the date and type of all maintenance performed and comply with Rule 62-555.350 (2) and 62-555.350 (12), which requires the following:

- Preventive Maintenance Logs on Electrical and Mechanical Equipment
- Cleaning and Inspection Logs of Treatment Facilities and Storage Tanks
- Records of Coatings and Linings Rehabilitation or Repair
- Licensed Engineer Inspection Report (once every 5-years) for Finished-Drinking-Water Storage Tanks and Hydropneumatic Tanks
- Written Flushing Program and Logs showing that Dead-End Water Mains are being flushed at least quarterly
- Isolation Valves Exercise Logs

A copy of this report should be kept with these records.

3.0 HYDROPNEUMATIC PRESSURE TANK INSPECTION AND TEST PROCEDURES

This Inspection and Test Procedures is used as a reference in the overall inspection and testing of this Water System. This procedure is to be updated from time to time to reflect physical and procedural changes to the water system.

Inspection and testing of this tank was conducted by Robert M. Couch III, P.E. with the assistance of Jim Hodges Jr. of Sunshine Utilities of North Central Florida, Inc. The following inspection and testing procedures for hydropneumatic pressure tanks were used:

3.1 Pre-Test Procedures

1. If water service is to be interrupted customers must be notified in advance and if appropriate, boil water notices issued.

2. Turn-off all electrical power to well pumps, air motors, chlorination equipment, etc.

3. Open drain valve to empty tank. This is also a good time to check the valves (exercise them) that isolate the tank to see if they are in fact working as they should. This downtime can also be used to replace a valve if needed.

4. Once depressurized, the site glass is inspected for proper operation.

5. Once the tank is drained, the manway (hatch) will need to be removed for inspection of the interior.

3.2 Visual Inspection

6. Perform visual inspection of the tank exterior and accessories for presence of leaks, shell distortion, signs of settling, deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, accessories, etc.

7. Tank layout and physical measurements

8. Color photographs of the tank exterior and all of the essential appurtenances

9. Perform visual inspection of the tank interior for presence of deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, bio-growths, calcium or iron/manganese deposits, sludge, etc.

3.3 Nondestructive Examination

10. The tank interior coating is then examined for dry film thickness (See PosiTest® DFT Coating Thickness Gauge measurement) or equivalent.

11. The tank exterior is then examined for thickness measurements (See Smart Sensor AR 850+ Ultrasonic Thickness Gauge measurement).

12. If deemed necessary, the tank exterior (or interior) is then examined for porosity, pinholes and leaks (See PCWI porosity detection test, also known as holiday detector test).

3.4 Post-Test Procedures

13. Any coating problems detected should be corrected while the tank is out of service in order to avoid further extensive downtime.

14. Once the tank is inspected and all maintenance items are taken care of, the tank will need to be disinfected prior to placing back in use.

15. Once the tank has been disinfected, bacteriological tests must be performed on water samples (2 per FDEP) taken from the tank discharge. FDEP to clear for service prior to placing back in service.

3.5 Safety of Test Area

The test area should be restricted and barricaded. The porosity testing instrument output can be up to 20,000 volts. Testing should be carried out well clear of personnel not involved in the testing procedure. Should accidental contact be made with the test electrode, the recipient will receive a mild shock. This equipment should never be used by a person with a pacemaker.

4.0 TEST EQUIPMENT DESCRIPTIONS

4.1 AR 850+ Ultrasonic Thickness Gauge



The Smart Sensor AR 850+ Digital Ultrasonic Thickness Gauge is an economical, user-friendly, menu driven, and multi-functional unit offering extensive features from basic measurements to extended memory. This dynamic series of UT gauges is designed to measure the thickness of metallic and non-metallic materials such as steel, aluminum, titanium, plastics, ceramics, glass and any other good ultrasonic wave conductor as long as it has parallel top and bottom surfaces. The AR 850+ gauges will accurately display readings in millimeters after a simple calibration to a known Thickness or sound velocity.

4.1.1 Features

- Main Unit
- Transducer 5 MHz / 2.5 MHz
- Integrated steel calibration plate 4.0mm
- Batteries (2 x AAA)
- Ultrasonic Couplant
- Operation Manual
- Certificate
- Carrying Case
- One Year Warranty

4.1.2 Technical Specification

Display Type	4-digit LCD
Display Resolution	(<100 mm) 0.1 mm
Units	Metric
Measuring Range (steel)	1.2 to 220.0 mm
Sound Velocity Range	1000 to 9999 m/s
Operating Temperature	0 ° C +45° C
Frequency	5 MHz
Power Source	3 X 1.5V AAA batteries
Dimensions	70x145.5x28 mm

4.2 Compact DC Inspector Porosity Detector



Porosity detection of Tanks, Valves, Pumps, Pipeline field joints, and general inspection and maintenance. Suitable for a broad range of testing and inspection requirements. It is recommended that the integral probe be limited to a 125mm flat brush or fan brush.

4.2.1 Standards

ASTM G62-87(1998), ASTM D4787-93(1999), NACE RP0274-98, NACE RP0490-2001, NACE RPO188- 99, JIS G-3491, JIS G-3492, ANSI/AWWA C214-89, ANSI/AWWA C213-94 and ISO 2746:1998

4.2.2 Features

- LED bar graph display of voltage
- "Single" hand-held, lightweight unit for simplicity and ease of operation
- Audible and visual alarms
- LED battery condition indicator
- Integral probe
- Detector
- 7m Earth lead and clamp
- Flat 125mm wide brass wire brush (or optional fan brush)
- Carry Case
- Operating instructions with conformance certificate
- Variable output up to 10kV or Variable output up to 20kV

4.2.3 Technical Specifications

Test Voltage	to 10kV (using 9V Battery)
Output Test Current	up to 100µA
Operating Temperature	-20 to +50ºC
Power Supply	Battery (9V internal)
Unit Dimensions	210 x 75 x 35mm (excl brush) 8.25" x 3.1" x 1.5"
Unit Weight	460g (incl probe)
Shipping Weight	1.5Kg

4.3 PosiTest DFT Coating Thickness Gauge



The new PosiTest DFT Coating Thickness Gauge measures coatings on ALL metals. It is the economical choice that retains the uncompromising quality of Qualitest inspection instruments.

Available in two models:

- PosiTest DFT Ferrous - measures non-magnetic coatings on steel.
- PosiTest DFT Combo - measures both non-magnetic coatings on steel and non-conductive coatings on aluminum, brass, etc. Automatically recognizes the substrate and takes a measurement.

4.3.1 Standards

ASTM B244/B499/B659/D1186/D1400/E376/G12, BS3900-C5, SSPC-PA2, ISO 2178/2360/2808, prEN ISO 19840, and others. Certificate of Calibration traceable to NIST available.

4.3.2 Features

- Fast, repeatable measurements
- No calibration required for most applications
- ZERO feature for rough or curved surfaces
- Handy RESET feature when no zero reference is available
- Strong, wear resistant, ruby-tipped probe
- Audible and visible measurement indication
- V-groove in probe for positioning on cylindrical parts
- Mils/Microns switchable
- Basic instructions on the back of each gauge

4.3.3 Technical Specifications

Measurement Range	0-40 mils (-1000 µm)
Accuracy	±(0.1 mils + 3%) (±(2µm + 3%))
Size	4 x 1.5 x 0.9 in (100 x38 x 23 mm)
Weight	2.5 oz (70 g)



5.0 HYDROPNEUMATIC PRESSURE TANK DESCRIPTION

The hydropneumatic pressure tank inspected and tested is described as follows:

Length: 11'-11" (13'-3" including elliptical heads)
Diameter: 5'-3" outside diameter
Volume: 2,000 gallons with elliptical heads
Tank Age: Approximately 21 years
Operating Pressure: 60 psi

6.0 TESTING

6.1 Porosity Testing

The tank surface was not swept with the Compact DC Inspector Porosity Detector during this inspection. However, a pinhole was observed on the surface of the tank.

6.2 Interior Coating Testing

Dry film thickness readings were not taken as coating was missing from significant portions of the tank interior.

6.3 Ultrasonic Metal Thickness Testing

A total of 57 metal thickness readings were taken at various locations on the tank shell and head surface. The average shell reading was 4.686 millimeters in the cylindrical section and 8.19 millimeters in the elliptical heads. Typical industry standard minimum wall thickness for tanks of this size is 1/4" (6.35 mm).

7.0 VISUAL OBSERVATIONS

7.1 Tank Exterior

The exterior of the tank appeared to be in poor structural condition. A pin hole was noted on the tank exterior at the time of the inspection.

7.2 Tank Interior

The tank interior appeared to be in fair condition. There were significant areas with no coating present on the interior tank surface. There was corrosion noted on the floor and side walls of the tank interior.

8.0 DEFINITIONS

Design Pressure - The maximum design pressure determined from the metal thickness.

Maximum allowable working pressure (MAWP) – Maximum pressure that the pressure tank is capable of safely holding at a design maximum temperature (250ºF).

Operating Pressure - The normal maximum operating pressure of the pressure tank. The normal operating pressure must always be below the MAWP. As a rule of thumb the maximum operating pressure should always be less than the MAWP.

Metal Thickness – The thickness of the pressure tank wall (not including a corrosion allowance) to be used in the pressure calculations.

Design Safety Factor on Metal Tensile Strength – A pressure tank is normally designed with a safety factor of 3 to 4 on the metal tensile strength. All pressure tanks are designed to operate with wall stresses below the yield point of the metal used for fabrication.

9.0 TANK PRESSURE CALCULATIONS

The following formula is found in ASME Section I for determination of MAWP:

For tanks with circumferential stress on (longitudinal joints)

P = SEt/(R+0.6t)
= 60 MPa x 1.0 x 4.69 mm / (795 mm+0.6 x 4.69 mm)
= 0.352 MPa
= 51 psi

When:

t < 0.5R = 0.5 x 795 = 397.71 mm (true) or
P < 0.385SE = 0.385 x 60 x 1.0 = 23.1 MPa (true)

Where:

t = metal thickness (mm) where t = 4.69 mm
R = inside radius of shell course under consideration (mm) = 795 mm
E = joint efficiency for cylindrical or spherical shells = 1.0 for welded tanks and corresponds to a safety factor of 3.5 in the parent metal.
P = maximum allowable working pressure (MPa) where 1 MPa = 145 psi
S = maximum allowable stress value at the operating temperature of the metal = 60 MPa (Safety Factor of 4).

10.0 CONCLUSIONS

Inspection and testing of the Ponderosa Pines No. 2 subdivision 2,000-gallon hydropneumatic pressure tank was performed on December 13, 2018. In addition to a visual examination, non-destructive examinations were also made. Non-destructive examinations included ultrasonic measurement of the tank wall thickness and visual inspection for pinholes and leaks. No examination of Dry Film Thickness Measurement (DFTM) of the interior coating was performed as there was only partial interior coating present.

Observations of the tank exterior indicated tank is subject to normal exposure. Observations of tank interior revealed light surface corrosion along the upper ridge portions of the tank interior.

11.0 RECOMMENDATIONS

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 60 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 51 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

Signed: Robert M. Couch III Date: 1/27/2019

Robert M. Couch III, P.E. Registration No. 55311

Typical exterior and interior views of tank







APPENDIX C: EMERGENCY RESPONSE PLAN

Disaster-Specific Preparedness/Response Plan

for Public Drinking Water Systems

Per Chapter 62-555.350 (15) F.A.C.

Sunshine Utilities

Ponderosa Pines

Address:	10230 East Hwy. 25 Belleview, FL 34420
Phone:	352-347-8228
Fax:	352-347-6915
Contact:	Dewaine Christmas, Manager
E-mail:	SunshineUtl@AOL.COM
Connections:	179
PWS:	3424062
County:	Marion

May 17, 2013

Department of Environmental Protection
Michael D. LeRoy, P.E.
John R. Sowerby, P.E.

FRWA Security Staff
Sterling L. Carroll, P.E.
Ken Klos, P.E.
Coy Donaldson

For more information or additional copies of this document contact:

FLORIDA RURAL WATER ASSOCIATION
2970 Wellington Circle ~ Suite 101 ~ Tallahassee
Telephone: 850-668-2746 ~ Fax: 850-893-4581
e-mail: FRWA@frwa.net

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This template and guide has been developed by the Florida Rural Water Association (FRWA) in collaboration with the Washington State Department of Health, Office of Drinking Water, Olympia, Washington; and reviewed by Florida Department of Environmental Protection.

Acknowledgment of federal government support of this project:

This project and the preparation of this booklet was funded in part by a Water Protection Coordination grant from the Environmental Protection Agency through an agreement/contract with the Drinking Water Program of the Department of Environmental Protection. Total cost of the project was $3,000 of which $3,000 or 100 percent, was provided by the U.S. Environmental Protection Agency.

Preface
Chapter 62-555.350 (15) FAC

Disaster-Specific Preparedness/Response Plans

(15) Suppliers of water who own or operate a community water system serving, or designed to serve, 350 or more persons or 150 or more service connections shall develop a written emergency preparedness/response plan in accordance with Emergency Planning for Water Utilities, AWWA Manual M19, as adopted in Rule 62-555.335, F.A.C., by no later than December 31, 2004, and shall update and implement the plan as necessary thereafter. Said suppliers of water shall coordinate with their Local Emergency Planning Committee and their Florida Department of Law Enforcement Regional Security Task Force when developing their emergency plan and shall include in their plan all of the information in paragraphs (a) through (e) below.

(a) A Communication Charts as described in Chapter 5 of AWWA Manual M19.

(b) Written agreements with other agencies, utilities, or response organizations.

(c) A disaster-specific preparedness/response plan as described in Chapter 5 of AWWA Manual M19 for each of the following disasters: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release. Each disaster-specific preparedness/response plan shall incorporate the results of a vulnerability assessment; shall include actions and procedures, and identify equipment, that can obviate or lessen the impact of such a disaster; and shall include plans and procedures that can be implemented, and identify equipment that can be utilized, in the event of such a disaster.

(d) Details about how the water system meets the standby power requirements under subsection 62-555.320(14), F.A.C., and, if applicable, recommendations regarding the amount of fuel to maintain on site, and the amount of fuel to hold in reserve under contracts with fuel suppliers, for operation of auxiliary power sources.

(e) If applicable, recommendations regarding the amount of drinking water treatment chemicals, including chemicals used for regeneration of ion-exchange resins or for onsite generation of disinfectants, to maintain in inventory at treatment plants.

Specific Authority 403.861(9) FS. Law Implemented 403.852(12), 403.853(6), 403.861(17) FS. History-New 11-19-87, Formerly 17-22.650, Amended 1-18-89, 1-1-93, Formerly 17-555.350, Amended 8-28-03.

Time Extension for Submitting/Completing ERP – December 31, 2005

From: Hoofnagle, Van
Sent: Thursday, October 21, 2004 11:25 AM
Subject: Time Extension for Submitting/Completing ERP
Importance: High

I am sending this e-mail because of possible confusion in some FDEP District Offices or ACHDs regarding the deadline for compliance with the emergency preparedness/response plan requirements in FAC subsection 62-555.350(15).

As John Sowerby and other staff mentioned during Focus On Change presentations early this year on FAC Rule 62-555.350 and during training this summer on the recent amendments to FAC Chapter 62-555, the FDEP intends to amend FAC subsection 62-555.350(15) to give all affected community water systems (i.e., all community water systems serving 350 or more persons or 150 or more service connections) **until the end of 2005** instead of the end of this year to complete a comprehensive emergency preparedness / response plan as required by FAC subsection 62-555.350(15). At this point, it will likely be after the end of this year before we officially make this change to FAC subsection 62-555.350(15). In the meantime, please do not take any enforcement action against

community water systems who fail to meet the 12/31/04 deadline in FAC subsection 62-555.350(15). Thanks.

Van Hoofnagle
DEP Drinking Water Administrator

Section 1
Communication Charts

The first response step in any emergency is to inform the person at the top of this list, who is responsible for managing the emergency and making key decisions. List the water system chain of command in order of contact.

Water System Chain of Command – Lines of Authority

Order	Name & Title	Responsibilities During an Emergency	Contact Information
1	Dewaine Christmas Manager	Responsible for overall management and decision making. The manager is the lead for managing the emergency and providing information to regulatory agencies. All communications to external parties are to be approved by the manager.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl@AOL.Com
2	James Hodges Jr. Field Supervisor	Responsible for decision making in the field. In charge of overall maintenance, and repairs to all components of water system.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl @AOL.Com
3	Kelvin Edun Water Treatment Plant Operator	Responsible for running water treatment plant, performing inspections, maintenance, sampling and relaying all critical information to Field Supervisor.	Phone: Cell: 352-875-5141 Email:
4	Pamela Christmas Office	Responsible for assisting the manager in administrative duties and emergencies.	Phone: 352-347-8228 Cell: 352-245-4743 Email:
5			Phone: Cell: Email:
6			Phone: Cell: Email:
7			Phone: Cell: Email:

Emergency Notification

Notification call-up lists - Use these lists to notify important parties of an emergency.

Emergency Notification List

Organization or Department	Name & Position	Telephone	Cell Phone	e-mail
State Warning Point	**Duty Officer**	**800-320-0519**	800-320-0519	N/A
Local Law Enforcement	EOC Commander	352-622-3205		Pstefanski@sheriff.marioncountyfl.org
Fire Department		911		
Emergency Medical Services		911		
Water Operator (if contractor)	Kelvin Edun Operator	352-875-5141		
County Health Department	Tom Moore Director of Environmental Health	352-622-7744	352-266-7486	
DEP District Office	Manny Cardona	407-897-4134	Fax 407-893-4418	
County Emergency Management Dept.	Chip Wildy	352-622-3205		
Local Leader (City Mgr., Mayor, Chair. Co. Comm., etc.)				
Local Hazmat Team (if any)		911		
Hazmat Hotline		911		
National Spill Response Center.	Duty Officer	800-424-8802	800-424-8802	N/A
Interconnected Water System(s)				
Neighboring Water System (not connected)				
FRWA Water Circuit Rider	Tom Gustafson	850-668-2746	352-267-1302	

Priority Customers

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Hospital Or Clinic(s)				
Nursing Home(s)				
Public Schools				
Private Schools				
Wastewater Treatment Plant				
Food Processing Or Other Industry				

Service / Repair Notifications

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Electric Utility Co.	Clay Electric	352-473-8000		
Electrician	Melville Electric	352-245-0600		
Gas / Propane Supplier	Belleview Gas	352-245-6055		
Water Testing Lab.	Aqua Pure Lisa Saupp	352-625-2822		
Sewer Utility Co.				
Telephone Co.	Sprint	800-788-3600	611	
Plumber	ACP	352-427-7036		
Pump Supplier	Coast Pump	352-620-0616	352-266-4277	Coastpumpocal@hotmail.com
"Dig Safe" or "One Call"	Sunshine One Call	800-432-4770		
Rental Equip. Supplier	B&M Rental	352-245-3133	352-245-9800	

Service / Repair Notifications				
Organization Or Department	**Name & Position**	**Telephone**	**Cell Phone**	**email**
Chlorine Supplier	Custom Controls	352-622-9244	352-304-0572	
Other Chemical Suppliers				
Radio/SCADA Repair Co.				
Bottled Water Service				
Bulk Water Supplier				
Well Drilling Co.	Earls Well Drilling David Moffitt	352-245-2324	352-817-0502	
Pipe Supplier	National Water Works Roy Sands	352-351-8144	352-266-4705	

Designated Public Spokesperson and Alternates

Designate a spokesperson (alternates) for delivering messages to the news media & public

Public Spokesperson	Name & Position	Telephone	Cell Phone
Spokesperson	Dewaine Christmas Manager	352-347-8228	352-239-1198
Alternate 1	James Hodges Jr. Supervisor	352-347-8228	352-239-1197
Alternate 2			

Key Messages

Develop possible messages in advance, and update them as the emergency develops
▪ We are aware of the emergency and are working diligently to restore your water service.
▪ If you fall under a boil water notice you must bring water to a rolling boil for a period of at least one minute. You only have to boil water for human cunsumption.

▪

Health Advisories – Boil Water Notices

Use the assistance of your County Health Department and/or District FDEP office, and FDEP's Mandatory Health Effects Language, located on FDEP's website at:

http://www.doh.state.fl.us/environment/water/manual/boil.htm

http://www.DEP.state.fl.us/water/drinkingwater/rules.htm,

and click on "Mandatory Health Effects Language"., PLUS EPA's templates at:

http://epa.gov/safewater/pn.html

Click on "Microsoft Word and Word Perfect files of PN templates" (PN means Public Notifications), then determine which "Tier" of notifications is needed and click on the desired software to receive them in.

Section 2
Written Agreements With Other Agencies, Utilities, or Response Organizations

INSERT BELOW information regarding any written agreements with other agencies, utilities, or response organizations, such as emergency interconnects, mutual aid or FlaWARN.

Emergency Interconnect(s)

Information on the location of interconnection(s) (if any), type and size of interconnecting pipe, pumps and accessory equipment, meters at interconnection(s), normal pressures at both ends of interconnection, volume of water from interconnection(s), type of agreement and approvals needed for use, procedures necessary to use interconnection, etc.

Location (Street)	
Location (GPS)	
Description	

Memoranda of Understanding

Organization	
Summary of Understanding	

Mutual Aid Agreements

Organization	Marion Utilities, 352-622-1171
Summary of Understanding	Will render mutual aide – ie: pumps, generators, and other materials necessary to restore water service.

FlaWARN

Organization	
Summary of Understanding	

Section 3
Disaster-Specific Preparedness/Response Plan

Your disaster-specific preparedness/response plan must include a Vulnerability Assessment and preparedness / response plans for: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release.

In any event there are a series of general steps to take:

1. Confirm and analyze the type and severity of the emergency.
2. Take immediate actions to save lives.
3. Take action to reduce injuries and system damage.
4. Make repairs based on priority demand.
5. Return the system to normal operation.

Vulnerability Assessment

It is essential that water systems identify and assess the vulnerability of each system component for both natural and human-caused emergencies, before preparing their disaster-specific preparedness/response plans. Prepare your Vulnerability Assessment by completing the table below:

Facility Vulnerability Assessment

System component	Description and condition	Vulnerability	Security improvements (indicate existing or proposed)
Raw Water Sources	(2) 4" groundwater wells located several hundred feet from homes. Wells are in good condition. We have wellhead protection in place.	The wells are most vulnerable to above ground activities because they are only 335 and 390 FT deep.	1.Purchase land surrounding well. 2. Secure well house to foundation and install lighting around well house.
Pump-house and pumping facilities	The pump-house and pumping facility are in good condition.	Pump location is fully fenced with a locked gate.	Install tamper proof padlocks.
Treatment Facilities	There is a hypo-chlorination system inside of pump house. System is in good condition.	Chlorination systems are not subject to power outages.	There is a backup generator on site in compliance with CH. 62-555.320(14)FAC
Storage Facilities	Hydro pneumatic tank is fenced in good condition.	Tank is not in a lighted area.	Install lighting in area of tank.
Computer and telemetry systems	Computers are in utilities main office and are in good condition.	Computers should be better protected against cyber attack or hacking.	Secure computers with firewalls & virus protection.

A. Vandalism or Sabotage Response Procedures

1. Utility staff first aware of incident:
    a) Calls 9-1-1/ Local Law Enforcement.
    b) Calls Manager
2. Manager determines severity of incident.
    a) Field supervisor determines if vandalism or sabotage will effect the water quality.
    b) Manager reports incident to the state warning point.
3. Field supervisor directs repairs as needed.
    a) Complete repairs
    b) Update ERP as needed.

B. Drought Response Procedures

Include water use restrictions per Consumptive Use Permit

1. Manager coordinates with the local Water Management District (WMD) regarding drought conditions.
    a) If drought conditions exist, a water conservation plan will be initiated.
    b) Literature will be distributed to customers regarding the drought.
    c) Conservation material will be distributed to customers on conservation measures.
    d) Customers not abiding by restrictions will be reported to WMD.
    e) Manager updates ERP as needed.

C. Hurricane Preparedness & Response Procedures

Pre- Hurricane **(36 to 48 hrs prior to arrival)**	1. Manager coordinates with local EOC. 2. Field supervisor checks operation of standby power. 3. Field supervisor secures fuel and treatment chemicals for a 10 day period. 4. Manager replenishes inventory of spare parts.
Hurricane Watch **(24 to 36 hrs prior to arrival)**	1. Manager cancels all time off for employees. 2. Manager issues work assignments in advance in case of communication loss. 3. Employees all top off fuel in vehicles & standby generators. 4. Manager authorizes employees to secure their personal property and arrange for the safety of family members.
Hurricane Warning (24hrs or less prior to arrival)	1. Employees report to designated areas and wait for instructions. 2. Employees load truck with supplies. 3. Employees follow evacuation protocol.
Recovery Procedures	1. Manager coordinates with local EOC. 2. Manager issues boil water notices if needed. 3. Field supervisor coordinates repairs. 4. Manager makes contact with the appropriate DEP office. 5. After repairs are completed samples are taken. 6. When samples come back clear – boil water notice is lifted. 7. Manager files all malfunction reports with the DEP. 8. Field supervisor inspects all systems to make sure everything is running smooth.

D. Structure Fire Response Procedures

1. Utility staff discovering fire:
    a) Evacuate structure on fire.
    b) Call 9-1-1
2. Manager determines severity of incident.
    a) Manager contact State Warning Point.
    b) Field supervisor coordinates repairs when fire is extinguished.
3. Field supervisor reports to manager when repairs are complete.
    a) Manager reports completion of all repairs to any Gov. agency.
    b) Manager updates ERP as needed.

E. Flood Preparedness & Response Procedures

(Is any critical part of your system in a flood prone area?)

None of our systems are in a flood prone area.

F. Forest or Brush Fire Response Procedures

(Is any critical part of your system subject to forest or brush fires?)

1. Utility staff discovering fire.
    a) Orders evacuation of any threatened buildings.
    b) Calls 9-1-1 to report fire.
2. Manager determines the severity of fire.
    a) Manager contacts the State Warning Point.
    b) Field supervisor inspects for any damage and coordinates repairs after fire is extinguished.
3. Field supervisor reports to manager that all repairs are complete.
    a) Manager updates the ERP as needed.
    b)

G. Hazardous Material Release Response Procedures

Do you have any hazardous material (chlorine gas) at your water system?

We have no Hazardous materials at any of our water systems.

H. Other Disaster Response Procedures

Are there other disasters that you want to prepare for, such as a Contamination event, SCADA Attack, or Structural Damage from an Intentional Act?

Contamination

1.
   a)
   b)
2.
   a)
   b)

SCADA Attack

1.
   a)
   b)
2.
   a)
   b)

Structural Damage from an Intentional Act

1.
   a)
   b)
2.
   a)
   b)

Section 4
Standby Power Requirements

Include details about how the water system meets the standby power requirements as described in Ch. 62-555.320(14), and 62-555.350(15)(d) FAC for water source, treatment, and pumping facilities necessary to deliver drinking water at a rate at least equal to the Average Daily Water Demand.

Standby Power for Wells or Surface Water Intakes

Standby Power (or by alternate means) to OPERATE WELLS at Average Daily Demand

Average Daily Demand (ADD) in gpd or gpm	28900 gpd
Wells Needed to Supply Average Daily Demand	1
Standby Generator (kW) Needed for ADD &	15 KW
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	We will have reserve fuel in the case of an emergency.

Standby Power for Treatment Facilities

Standby Power (or by alternate means) to TREAT WATER at Average Daily Demand

Treatment Units Needed to Supply ADD	
Standby Generator (kW) Needed to Treat ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Standby Power for Pumps

Standby Power (or by alternate means) to PUMP WATER at Average Daily Demand

Pumps Needed to Supply ADD	
Standby Generator (kW) Needed to Pump ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Section 5
Drinking Water Treatment Chemicals & Disinfectants

Include recommendations regarding the amount of drinking water treatment chemicals, to maintain in inventory at treatment plants. Do not just list chemical storage capacity, but instead recommend the minimum amount of chemicals to maintain in inventory, which depends upon the location and reliability of chemical suppliers, the status of impending disasters, etc.

Disinfection Treatment Information

Disinfection Chemical(s)	Chemical / Location No. 1	Chemical / Location No. 2
Type of Chemical	Chlorine	
Type of Chemical Feed	Hypo-Chlorinator	
Chemical Storage Location	On site in the pump house.	
Recommended Minimum Amount to be Maintained in Storage (gal)	55 gallons	

Other Chemical Information

Chemical(s) Used	Chemical #1	Chemical #2	Chemical #3	Chemical #4
Type of Chemical				
Type of Chemical Feed				
System Location				
Chemical Storage Location				
Recommended Minimum Amount to be Maintained in Storage (gal)				

Appendix A
Basic System information

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Keep this basic information readily available for when you need it for emergency responders, repair people, the news media and potentially, an emergency operator.

Basic System Information

GPS coordinates will help emergency crews find your system following a major catastrophe.

System identification number (PWS ID)	**3420939**	
System name and address	**Ponderosa Pines**	
GPS Coordinates	Latitude:	Longitude:
Basic description and location of system facilities	**(1) 18536 SE 21st Ln** **(2) Corner of SE 20th Pl and SE 185th Terr**	
Population served and service connections.	Population =	Connections = 179
System Owner	**Sunshine Utilities of Central Florida, Inc.**	
Management Authority	**Owner and Manager**	
Name, title, and phone numbers of person responsible for maintaining and implementing the ERP.	**Dewaine Christmas** **Manager**	**352-347-8228 phone** **352-239-1198 cell**

System Demand

Demand based on Monthly Operational Records and system capacity based on Sanitary Survey.

Average Daily Demand (gpd)	28900 GPD
Maximum Daily Demand (gpd)	37400 GPD
System Capacity (gpd)	83570 GPD
Peak Hour Demand (gpm)	N/A

Location of Pertinent Information

Item	Location
Distribution System Map	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
O&M Manual(s)	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
Start-Up / Shut-Down Procedures	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.

Well Information

GPS coordinates will help emergency crews find wells following a major catastrophe.

Well Information	Well No. 1	Well No. 2	Well No. 3	Well No. 4
GPS well tag #				
Location (street)	18536 SE 21st Ln	SE 185th Terr		
GPS Coordinates	Lat: Long:		Lat: Long:	Lat: Long:
Well Depth (ft)	390 FT	335 FT		
Well Yield (gpd)	86,400GPD	80,640 GPD		
Pump Type	Submersible	Submersible		
Manufacturer	Sta-Rite	Sta-Rite		
Capacity (gpm)	60 GPM	56 GPM		
Motor Manufacturer	Franklin	Franklin		
Horsepower	3 HP	3		
Phase	1	1		
Volts/Amps	230 volts	230 Volts		

Surface Water Sources

GPS coordinates will help emergency crews find surface water intakes following a major catastrophe.

Surface Water Information	Intake No. 1	Intake No. 2
Location (Street / Description)		
GPS Coordinates	Lat: Long:	Lat: Long:
Critical Water Level		

Finished Water Storage

GPS coordinates will help emergency crews find tanks following a major catastrophe.

Name of Storage Unit	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Location (Street)				
Location (GPS)	Lat: Long:	Lat: Long:	Lat: Long:	Lat: Long:
Type (ground, elevated, etc.)				
Capacity (gal)				
Empty Elevation				
Overflow Elevation				

High Service Pumps

HSP	HSP No. 1	HSP No. 2	HSP No. 3	HSP No. 4
Location (street)				
Pump Type				
Manufacturer				
Capacity (gpm)				
Motor Manufacturer				
Horsepower				
Phase				
Volts/Amps				

Other Applicable Information

Appendix B
Training and Rehearsals

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Event	Description	People & Organizations Involved	Date

Appendix C
Plan Approval

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Plan Approval

This plan is officially in effect when reviewed, approved, and signed by the following people:

Name / Title	Signature	Date
Hodges Family Trust		

APPENDIX D: CONSUMER CONFIDENCE REPORT

Certification of Delivery of Consumer Confidence Report

GENERAL INSTRUCTIONS: This form shall be completed by all community water systems (CWSs) that have prepared a Consumer Confidence Report (CCR) in accordance with Rule 62-550.824, F.A.C., Consumer Confidence Reports. At the end of this form is a certification in which a system's authorized representative shall certify that the reported information is accurate and is in conformance with Rule 62-550.824, F.A.C. **COMPLETE THIS FORM AND SUBMIT IT BY AUGUST 10,** together with a copy of your system's CCR, sample email or water bill (with URL notification of CCR, if applicable), and any newspaper notice(s) and posted notice(s) of your CCR, to the appropriate DEP district office or Approved County Health Department (ACHD). Systems serving 100,000 or more persons posting their CCRs on publicly accessible Internet sites shall provide the information on the appropriate Internet link(s). All information provided on this form must be typed or printed in ink.

I. General Water System Information. (To be completed by all community water systems.)

System name: Ponderosa Pines Contact person: Dewaine Christmas

PWS Identification number (PWS ID): 3424062 Contact phone number: (352)347-8228

Mailing address: 10220 East Hwy 25 City: Belleview

State: Fl Zip: 34420-5531 Population served (not the number of "service connections"): _____

II. CCR Distribution Method. (To be completed by all community water systems. Choose A or B as appropriate.)

☐ A. We mailed, emailed, or otherwise directly delivered a copy of our CCR to each customer on _____ (enter date(s) of mailing or delivery) using the method(s) checked below:

- ☐ a. **Mailed** CCR
- ☐ b. **Mailed** notice (e.g. water bill) with **direct URL** to the CCR
- ☐ c. **Emailed** CCR as an **embedded** image or as an **attachment**
- ☐ d. **Emailed** notice with a **direct URL** to the CCR
- ☐ e. **Otherwise directly delivered** CCR to every customer. Explain: _____

☑ B. We were eligible to use a mailing waiver and used a mailing waiver. (Systems are eligible to use a mailing waiver only if they serve fewer than 10,000 persons, have not had any MCL or monitoring and reporting (M/R) violations, nor have been issued any formal Notices of Violations (NOVs), Consent Orders, Administrative Orders, or court-ordered civil actions during the calendar year before the year the CCR is due to the customers).

Answer a, b, **and** c below.)

- ☐ a. Date of newspaper: _____
- ☐ b. Name of newspaper/newsletter that published our CCR: _____
- ☑ c. A copy of our notice to customers, informing them that our CCR will not be mailed to them, is attached.

This notice was: ☑ mailed with bill; ☐ published in newspaper/newsletter; or ☐ other (describe)

_____

III. Posting of CCR on the Internet. (To be completed by all CWSs serving 100,000 or more persons.)

We posted our CCR on this publicly accessible internet site: _____

IV. Report on Your Effort to Distribute Your CCR to Your Water Consumers. (To be completed by all CWSs. Check all items that apply - at least one item must be checked.)

In addition to the methods selected in Part II,

■ A. We posted our CCR on this publicly accessible internet site: www.sunshineutilities.org

☐ B. We published our CCR in the local newspaper(s). The name(s) and date(s) of the newspaper(s) are:

_____

RECEIVED
JUL 10 2020
DEP Central District

☐ C. We advertised the availability of our CCR as a press release, radio announcement, or TV announcement. The type(s) and date(s) of the advertisement(s) are: _____

☐ D. We delivered multiple copies of our CCR to single bill addresses serving several persons.

☐ E. We delivered multiple copies of our CCR to the following community organizations:

_____

☐ F. Our CCR was posted in the following public locations: _____

_____

■ G. Our CCR was distributed by other methods (e.g., additional copies placed in entrance hall to facility). Describe.
Additional copies available at Sunshine Utilities Office

V. Use of Non-English Language in CCR. (To be completed by all community water systems.)

☐ Information in a non-English language was included in our CCR because 20% or more of our customers do not speak English but speak _____. The method we used to determine the proportion of non-English speaking customers is _____

■ This requirement does not apply to our system, because we have no non-English speaking group among our customers equal to or exceeding 20% of our total number of customers.

VI. Other Delivery Requirements. (To be completed by all community water systems.)

(A) Was a copy of your CCR sent to your county health department, as required by rule? ■ Yes ☐ No

(B) Is your system regulated by the Public Service Commission (PSC)? ☐ Yes ☐ No

If Yes, was a copy of your CCR sent to the PSC, as required by rule? ■ Yes ☐ No

(C) If your system sells water to other systems, have you provided them with either a copy of your CCR or the required consumer confidence information? ■ Yes ☐ No ■ Not Applicable

VII. Certification of Delivery of CCR and Compliance with Regulations. (To be completed by all CWSs.)

This statement certifies that the above named community public water system has distributed its CCR for the time period starting ***January 1,*** 2019 ***and ending December 31,*** 2019 to its customers on 6/15/20 (mm/dd/yy) and provided the appropriate notices of availability according to the requirements listed in this form, which are also found in Rule 62-550.824, F.A.C. This statement also certifies that the reported information is correct and consistent with the compliance monitoring data for the same period previously submitted to the Department, and that the report has been delivered to the agencies identified in Rules 62-550.824(3)(e)3., and 4., F.A.C.

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____

NAME (please print): Dewaine Christmas

TITLE: Manager DATE: 6/26/20

■ **A copy of our CCR is attached, and**

☐ **If using electronic delivery, a copy of our sample email or notice (e.g. water bill), with URL leading directly to the CCR and not a general information website, is attached. For example, if you are using the FRWA website to post your CCR, your URL would be:**

www.frwa.net/2012-Your PWSID Number.pdf (www.frwa.net/2012-0000000.pdf).

SUNSHINE UTILITIES
10230 East Highway 25
Belleview, Florida 34420

Drinking Water Quality Report

Annual Drinking Water Quality Report for 2019

Ponderosa Pines

Florida Department of Environmental Protection Public Water System ID # 3424062

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the water and services we deliver to you every day. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

The source of our water is groundwater from two wells located in the community. The wells draw from the Floridan aquifer, one of the world's most protected sources. Our water is chlorinated for disinfection purposes, and we use an additive for corrosion control. In 2019 the Florida Department of Environmental Protection conducted an assessment which identifies potential sources of contamination in the vicinity of our well(s). The SWAPP (Source Water Assessment and Protection Program) determined our public water system to have no potential sources of contamination. You may obtain more information at the web site *www.dep.state.fl.us/swapp*.

If you have any questions about this report or concerning your water utility please contact **Dewaine Christmas, at Sunshine Utilities, (352) 347-8228**, during normal business hours. We encourage our valued customers to be informed about their water utility.

Sunshine Utilities routinely monitors for constituents in your drinking water according to Federal and State laws, rules and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2019. Data obtained before January 1, 2019, and presented in this report are from the most recent testing performed in accordance with the laws, rules and regulations.

WATER QUALITY TEST RESULTS FOR PONDEROSA PINES

Inorganic Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Arsenic	(ppb)	MAY '18	No	0.11	N/A	N/A	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	(ppm)	MAY '18	No	0.009	0.0076 - 0.009	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride	(ppm)	MAY '18	No	0.12	0.11 - 0.12	4	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum levels between 0.7 and 1.2 ppm
Sodium	(ppm)	MAY '18	No	9.8	9.5 - 9.8	N/A	160	Salt water intrusion; leaching from soil

Stage 2 Disinfectants and Disinfection By-Products

Disinfectant or Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL or MRDL Violation Yes / No	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine	(ppm)	2019	No	0.6	0.4 - 1.2	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Haloacetic Acids (five) (HAA_5)	(ppb)	SEP '18	No	8.47	N/A	N/A	MCL = 60	By-product of drinking water disinfection
Total trihalomethane (TTHM)	(ppb)	SEP '18	No	18.28	N/A	N/A	MCL = 80	

Lead and Copper (Tap Water)

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	AL Violation Yes / No	90th Percentile Result	No. of Sampling Sites Exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper	(ppm)	AUG '18	No	0.795	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead	(ppb)	AUG '18	No	1.9	0	0	15	Corrosion of household plumbing systems; erosion of natural deposits

In the table you may find unfamiliar terms and abbreviations. To help you better understand these terms we have provided the following definitions (please note not all definitions may pertain to your report):

- Action Level (AL) – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial growth.
- Maximum Residual Disinfectant Level Goal (MRDLG) – The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.
- ND – This abbreviation means not detected and indicates that the substance was not found by laboratory analysis.
- Parts per million (ppm) or milligrams per Liter (mg/L) - one part of analyte (by weight) to 1 million parts of water sample (by weight).
- Parts per billion (ppb) or micrograms per Liter (µg/L) - one part of analyte (by weight) to 1 billion parts of water sample (by weight).
- Picocurie per liter (pCi/L) - measure of the radioactivity in water.

What does this mean?

As you can see our system had no violations. We're very proud that your drinking water meets all Federal and State requirements.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Sunshine Utilities is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals, and in some cases radioactive material, and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

A.) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

B.) Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

C.) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

D.) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

E.) Radioactive contaminants, which may be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The FDA (Food & Drug Administration) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care providers about their drinking water. EPA/CDC (Center for Disease Control) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are also available from the Safe Drinking Water Hotline (800-426-4791).

We are committed to ensuring the quality of your water. If you have any questions or concerns about the information provided, please feel free to call the numbers listed.

Sunshine Utilities

10230 East Highway 25, Belleview, FL 34420
Office (352)347-8228 – Fax (352)347-6915

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality of water and services we deliver to you everyday. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

Please follow the link to view your 2019 Annual Water Quality Report.

https://www.sunshineutilities.org/ccr19/2019PonderosaPines.pdf

APPENDIX E: SANITARY SURVEY REPORT

FLORIDA DEPARTMENT OF
Environmental Protection

CENTRAL DISTRICT OFFICE
3319 MAGUIRE BLVD., SUITE 232
ORLANDO, FLORIDA 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

April 2, 2020

Dewaine Christmas, Owner
Sunshine Utilities of Central Florida Inc.
10230 E Highway 25
Belleview, FL 34420
sunshineutl@aol.com

Re: Ponderosa Pines (2WPS)
PW Facility ID #3424062
Marion County

Dear Mr. Christmas:

Department personnel conducted an inspection of the above-referenced facility on March 13, 2020. Based on the information provided during the inspection, the facility was determined to be in compliance with the Department's rules and regulations. A copy of the inspection report is attached for your records, and any non-compliance items which may have been identified at the time of the inspection have been corrected.

The Department appreciates your efforts to maintain this facility in compliance with state and federal rules. Should you have any questions or comments, please contact Amada Fernandez at 407-897-4159 or via e-mail at Amada.M.Fernandez@FloridaDEP.gov.

Sincerely,

Jill Farris, Manager
Central District
Florida Department of Environmental Protection

Enclosure: Inspection Report

cc: Amada Fernandez and Jill Farris, FDEP
Universal Waters, universalwaters94@yahoo.com

State of Florida
Department of Environmental Protection
Central District

SANITARY SURVEY REPORT

Plant Name **PONDEROSA PINES (2 WPS)** County Marion PWS ID # **3424062-1**
Plant Location SE 185th Terrace and SE 20th Place, Silver Springs, FL 34488 Phone 352-347-8228
Owner Name: Sunshine Utilities of Central FL, Inc.; Attn: Dewaine Christmas Phone 352-347-8228
Owner Address 10230 E Highway 25, Belleview, FL 34420-5531
Contact Person Dewaine Christmas Title Owner Phone 352-347-8228
This Survey Date 3/13/20 Last Survey Date 2/27/17 Last Compliance Inspection Date 6/26/01

PWS TYPE: Community

PLANT CATEGORY & CLASS: 5D

MAX-DAY DESIGN CAPACITY: 40,320 gpd

PWS STATUS: Approved

TREATMENT PROCESSES IN USE
Hypochlorination

SERVICE AREA CHARACTERISTICS
Mobile home park
Food Service: ☐ Yes ☐ No ☒ N/A

Number of Service Connections 186
Population Served 465 Basis Owner

OPERATION & MAINTENANCE LOG: Yes
Location Water treatment plant
Comments

CERTIFIED OPERATOR: Yes
Operator(s) & Certification Class-Number:
Kelvin Edun C-7459

Hrs/day: *Required* Visit* *Actual* Visit*
Days/wk: *Required* 3 *Actual* 3
Non-consecutive Days? ☒ Yes ☐ No ☐ N/A
Comments *Visits must add up to 0.3 hours per week.

MONTHLY OPERATION REPORTS (MORs)
MORs submitted regularly? ☒ Yes ☐ No ☐ N/A
Data missing from MORs? ☒ No ☐ Yes ☐ N/A
Average Day (from MORs) 34,040 gpd
Maximum Day (from MORs) 77,600 gpd 06/2019
Comments Max-day design capacity exceedances in 5,6,7,9,10&12/19. Email 3/24 indicated pressure settings will be adjusted to increase usage on WTP#2.

Flow Measuring Device Flow Meter
Meter Size & Type 2" Sensus
Date Last Calibrated 12/4/18

RAW WATER SOURCE
☒ GROUND; Number of Wells 1
☐ PURCHASED from PWS ID #
☒ Emergency Water Source 3424062-2
Emergency Water Capacity 43,200

STANDBY POWER SOURCE: No
Source
Capacity of Standby (kW)
Switchover: ☐ Automatic ☐ Manual
Hrs Operated Under Load
What equipment does it operate?
☐ Well Pumps
☐ High Service Pumps
☐ Treatment Equipment
Satisfy avg. daily demand? ☐Yes ☐No ☐Unknown
Audio-visual alarm? ☐Yes ☒No
Comments WTP #2 is on a separate power grid.

PLANS AND MAPS

Coliform Sampling Plan	☒ Yes	☐ No	☐ N/A
D/DBP Monitoring Plan	☒ Yes	☐ No	☐ N/A
Lead and Copper Plan	☒ Yes	☐ No	☐ N/A
Distribution System Map	☒ Yes	☐ No	☐ N/A
Emergency Response Plan	☒ Yes	☐ No	☐ N/A

Comments

PREVENTIVE MAINTENANCE/O&M
Operation & Maintenance Manual ☒ Yes ☐ No
Preventive Maintenance Program ☒ Yes ☐ No

Flushing Program	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A
Isolation Valve Exercise	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A

Comments

CROSS CONNECTION CONTROL
BFPAs None # Tested N/A
WWTP RPZ N/A Date Tested N/A
Written Plan Yes Date Unknown
Comments

PWS ID # 3424062-1
Date 3/13/20

GROUND WATER SOURCE

Well Number		3 (AAH2701)		
Year Drilled		2004		
Depth Drilled		430’		
Drilling Method		Neat cement		
Type of Grout		19.4’		
Static Water Level		Unknown		
Pumping Water Level		Unknown		
Design Well Yield		Unknown		
Test Yield		Unknown		
Actual Yield (if different than rated capacity)		Unknown		
Strainer		Unknown		
Length (outside casing)		288’		
Diameter (outside casing)		8’’		
Material (outside casing)		Steel		
Well Contamination History		None		
Is inundation of well possible?		No		
6’ X 6’ X 4” Concrete Pad		Yes		
SET BACKS	Septic Tank	>100'		
	Reuse Water	N/A		
	WW Plumbing	>100'		
	Other Sanitary Hazard	None observed		
PUMP	Type	Submersible		
	Manufacturer Name	Sta-rite		
	Model Number	L50P4HH		
	Rated Capacity (gpm)	56		
	Motor Horsepower	3.0		
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		Yes		

COMMENTS:

PWS ID # 3424062-1
Date 3/13/20

CHLORINATION (Disinfection)
Type: ☐ Gas ☒ Hypo
Make Chem-Tech Capacity 7 gpd
Chlorine Feed Rate 100% stroke
Avg. Amount of Cl_2 gas used N/A
Chlorine Residuals: Plant 1.24 Remote 0.42
Remote tap location 18311 SE 18th St.
DPD Test Kit: ☐ On-site ☒ With operator
☐ None ☐ Not Used Daily
Injection Points Prior to hydropneumatic tank
Booster Pump Info N/A
Comments

Chlorine Gas Use Requirements	YES	NO	Comments
Dual System	☐	☐	
Auto-switchover	☐	☐	
Alarms:			
Loss of Cl_2 capability	☐	☐	
Loss of Cl_2 residual	☐	☐	
Cl_2 leak detection	☐	☐	
Scale	☐	☐	
Chained Cylinders	☐	☐	
Reserve Supply	☐	☐	
Adequate Air-pak	☐	☐	
Sign of Leaks	☐	☐	
Fresh Ammonia	☐	☐	
Ventilation	☐	☐	
Room Lighting	☐	☐	
Warning Signs	☐	☐	
Repair Kits	☐	☐	
Fitted Wrench	☐	☐	
Housing/Protection	☐	☐	

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

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

Tank Type/Number	H1
Capacity (gal)	2,000
Material	Steel
Gravity Drain	Yes
By-Pass Piping	Yes
Protected Openings	Yes
Sight Glass or Level Indicator	Yes
PRV/ARV	PRV
Pressure Gauge	Yes
On/Off Pressure	48/68
Access Secured	Yes
Access Manhole	Yes
Tank Sample Tap Location	On tank
Date of Inspection	12/18
Date of Cleaning	12/18

Comments

HIGH SERVICE PUMPS

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

Comments

State of Florida
Department of Environmental Protection
Central District

SANITARY SURVEY REPORT

Plant Name **PONDEROSA PINES-2** County Marion PWS ID # **3424062-2**
Plant Location SE 20th Place and SE 21 Lane, Silver Springs, FL 34488 Phone 352-347-8228
Owner Name: Sunshine Utilities of Central FL Inc.; Attn: Dewaine Christmas Phone 352-347-8228
Owner Address 10230 E County Road 25, Belleview, FL 34420
Contact Person Dewaine Christmas Title Manager Phone 352-347-8228
This Survey Date 3/13/20 Last Survey Date 2/27/17 Last C.I. Date 6/26/01

PWS TYPE: Community

PLANT CATEGORY & CLASS: 5D

MAX-DAY DESIGN CAPACITY: 43,200 gpd

PWS STATUS: Approved

TREATMENT PROCESSES IN USE
Hypochlorination, Iron removal/sequestration (Aqua-Mag)

SERVICE AREA CHARACTERISTICS
Mobile home park
Food Service: ☐ Yes ☐ No ☒ N/A

Number of Service Connections 186
Population Served 456 Basis Owner

OPERATION & MAINTENANCE LOG: Yes
Location Water treatment plant
Comments

CERTIFIED OPERATOR: Yes
Operator(s) & Certification Class-Number:
Kelvin Edun C-7459

Hrs/day: *Required* Visit* *Actual* Visit*
Days/wk: *Required* 3 *Actual* 3
Non-consecutive Days? ☒ Yes ☐ No ☐ N/A
Comments *Visit must total 0.3 hours per week.

MONTHLY OPERATION REPORTS (MORs)
MORs submitted regularly? ☒ Yes ☐ No ☐ N/A
Data missing from MORs? ☒ No ☐ Yes ☐ N/A
Average Day (from MORs) 2,362 gpd
Maximum Day (from MORs) 15,000 gpd 03/2019
Comments

Flow Measuring Device Flow Meter
Meter Size & Type 2" Sensus
Date Last Calibrated 12/4/18

RAW WATER SOURCE
☒ GROUND; Number of Wells 1
☐ PURCHASED from PWS ID #
☒ Emergency Water Source 3424062-1
Emergency Water Capacity 40,320 gpd

STANDBY POWER SOURCE: No
Source
Capacity of Standby (kW)
Switchover: ☐ Automatic ☐ Manual
Hrs Operated Under Load
What equipment does it operate?
☐ Well Pumps
☐ High Service Pumps
☐ Treatment Equipment
Satisfy avg. daily demand? ☐Yes ☐No ☐Unknown
Audio-visual alarm? ☐Yes ☐No
Comments WTP #1 is on a separate power grid.

PLANS AND MAPS

Coliform Sampling Plan	☒ Yes	☐ No	☐ N/A
D/DBP Monitoring Plan	☒ Yes	☐ No	☐ N/A
Lead and Copper Plan	☒ Yes	☐ No	☐ N/A
Distribution System Map	☒ Yes	☐ No	☐ N/A
Emergency Response Plan	☒ Yes	☐ No	☐ N/A

Comments

PREVENTIVE MAINTENANCE/O&M
Operation & Maintenance Manual ☒ Yes ☐ No
Preventive Maintenance Program ☒ Yes ☐ No

Flushing Program	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A
Isolation Valve Exercise	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A

Comments

CROSS CONNECTION CONTROL
BFPAs None # Tested N/A
WWTP RPZ N/A Date Tested N/A
Written Plan Yes Date Unknown
Comments:

PWS ID # 3424062-2
Date 3/13/20

GROUND WATER SOURCE

Well Number		1(AAG9611)	
Year Drilled		1985	
Depth Drilled		390’	
Drilling Method		Unknown	
Type of Grout		Unknown	
Static Water Level		Unknown	
Pumping Water Level		Unknown	
Design Well Yield		Unknown	
Test Yield		Unknown	
Actual Yield (if different than rated capacity)		Unknown	
Strainer		Unknown	
Length (outside casing)		375’	
Diameter (outside casing)		4”	
Material (outside casing)		Steel	
Well Contamination History		None	
Is inundation of well possible?		No	
6’ X 6’ X 4” Concrete Pad		Yes	
SET BACKS	Septic Tank	>100’	
	Reuse Water	N/A	
	WW Plumbing	>100’	
	Other Sanitary Hazard	None observed	
PUMP	Type	Submersible	
	Manufacturer Name	Sta-Rite	
	Model Number	Unknown	
	Rated Capacity (gpm)	60	
	Motor Horsepower	3	
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		N/A	

COMMENTS WTP #2 is offline due to maintenance.

PWS ID # 3424062-2
Date 3/13/20
Date 9/4/08

CHLORINATION (Disinfection)
Type: ☐ Gas ☒ Hypo
Make (2) Chem-Tech Capacity 30 gpd
Chlorine Feed Rate *N/A
Avg. Amount of Cl_2 gas used N/A
Chlorine Residuals: Plant *N/A Remote *N/A
Remote tap location *N/A
DPD Test Kit: ☐ On-site ☒ With operator
☐ None ☐ Not Used Daily
Injection Points N/A
Booster Pump Info N/A
Comments *Plant offline.

Chlorine Gas Use Requirements	YES	NO	Comments
Dual System	☐	☐	
Auto-switchover	☐	☐	
Alarms: Loss of Cl_2 capability Loss of Cl_2 residual Cl_2 leak detection	 ☐ ☐ ☐	 ☐ ☐ ☐	
Scale	☐	☐	
Chained Cylinders	☐	☐	
Reserve Supply	☐	☐	
Adequate Air-pak	☐	☐	
Sign of Leaks	☐	☐	
Fresh Ammonia	☐	☐	
Ventilation	☐	☐	
Room Lighting	☐	☐	
Warning Signs	☐	☐	
Repair Kits	☐	☐	
Fitted Wrench	☐	☐	
Housing/Protection	☐	☐	

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

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

Tank Type/Number	H3
Capacity (gal)	2,000
Material	Steel
Gravity Drain	Yes
By-Pass Piping	Yes
Protected Openings	Yes
Sight Glass or Level Indicator	Yes
PRV/ARV	PRV
Pressure Gauge	Yes
On/Off Pressure	48/68
Access Secured	Yes
Access Manhole	Yes
Tank Sample Tap Location	On tank
Date of Inspection	12/18
Date of Cleaning	12/18

Comments _____

HIGH SERVICE PUMPS

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

Comments _____

DEFICIENCIES:

No deficiencies noted at the time of the inspection.

MONITORING REMINDER:

- Nitrate and nitrite samples are required to be collected from the point of entry (POE) to the distribution system annually. The 2020 results have not been received. Early sampling is recommended.
- The consumer confidence report (CCR) must be delivered to consumers and the Department no later than July 1, 2020, and certification of delivery of the CCR must be submitted to the Department no later than August 10, 2020.
- Monitoring schedules are available on the Central District's Drinking Water site:

https://floridadep.gov/central/central/content/resources-drinking-water-facilities-and-operators-central-district

COMMENTS:

- Contact FRWA (Florida Rural Water Association) at 850-668-2746, or frwa@frwa.net, for free technical assistance with your system. FRWA has extended benefits offered to members.
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.

  Checking the calibration of finished-drinking-water meters at treatment plants shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water. [Rule 62-555.350(2), F.A.C.]
- Suppliers of water shall submit written notification to the Department before beginning work or alterations to the public water system. Each notification shall be submitted to the appropriate Department of Environmental Protection District Office or Approved County Health Department and shall include the following: a description of the scope, purpose, and location of the work or alterations; and assurance that the work or alterations will comply with applicable requirements listed in Rule 62-555.330, F.A.C. Suppliers of water may begin such work or alterations 14 days after providing notification to the Department unless they are advised by the Department that the notification is incomplete or that a construction permit is required.
- Suppliers of water shall telephone the SWO at 1-800-320-0519 immediately (i.e., within two hours) after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving a public water system. [Rule 62-555.350(10)(a), F.A.C.]
- Suppliers of water shall telephone, and speak directly to a person at, the appropriate DEP District Office as soon as possible, but never later than noon of the next business day, in the event of any of the following emergency or abnormal operating conditions:
  - The occurrence of any abnormal color, odor, or taste in a public water system's raw or finished water;
  - The failure of a public water system to comply with applicable disinfection requirements; or
  - The breakdown of any water treatment or pumping facilities, or the break of any water main, in a public water system if the breakdown or break is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(b), F.A.C.]
- Suppliers of water shall notify affected water customers in writing or via telephone, newspaper, radio, or television; and telephone, and speak directly to a person at, the appropriate DEP District Office by no later than the previous business day before taking PWS components out of operation for planned maintenance or repair work if the work is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350

- or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(d), F.A.C.]
- Suppliers of water shall issue precautionary “boil water” notices as required or recommended in the Department of Health’s “Guidelines for the Issuance of Precautionary Boil Water Notices” as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(11), F.A.C.]

amada fernandez
Inspector Signature

Amada Fernandez
Printed Name

Environmental Specialist II
Title

3/24/20
Date

Reviewer Signature

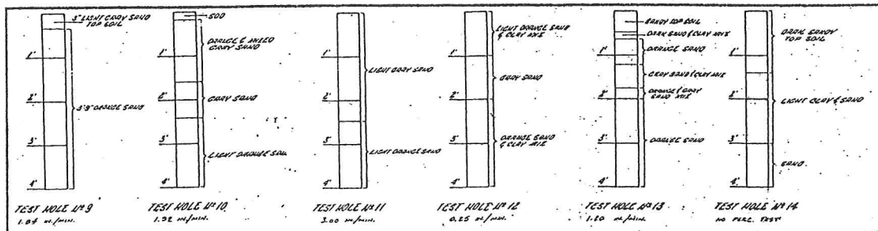
Jill M. Farris
Printed Name

Environmental Manager
Title

4/2/20
Date

APPENDIX F: DISTRIBUTION MAP

PROJECT NUMBER	SHEET NUMBER
FY 90/91-30,300-C	3 OF [illegible]





NOTES:

1. Total area of right-of-way being improved by this project equals 16.88 acres.
2. This project was previously permitted by S.J.R.W.M.D. Permit No. 42-083-0478NG issued October 1, 1991.
3. These roadway improvements qualify for a S.J.R.W.M.D. General Permit under 40C-42.024(2)(d) (Paving of Existing Public Dirt Roads By a Public Entity).
4. During the construction period, a siltation barrier shall be provided at any and all discharge points.
5. Erosion and sedimentation control shall be installed and maintained during earth disturbing activities and until earth cover has been established.
6. No work is to be conducted within the limits of the existing man-made canals except as noted or shown.
7. No construction is to occur within the Waters of the State.
8. Landward extent of Surface Waters of the State is the top of bank of the existing man-made canals.

LEGEND

BASIN BOUNDARY

100 YR. FLOOD LINE
AS PER FEMA ZONE A-1 ELEV. 55.00
120-160-0540B JAN. 19, 1983

Address Pink
Acc # Yellow

Ponderosa

REVISIONS												
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	

	NAME	DATE		NAME	DATE
DESIGNED BY			DRAWN BY		
CHECKED BY			CHECKED BY		
SUPERVISED BY:					

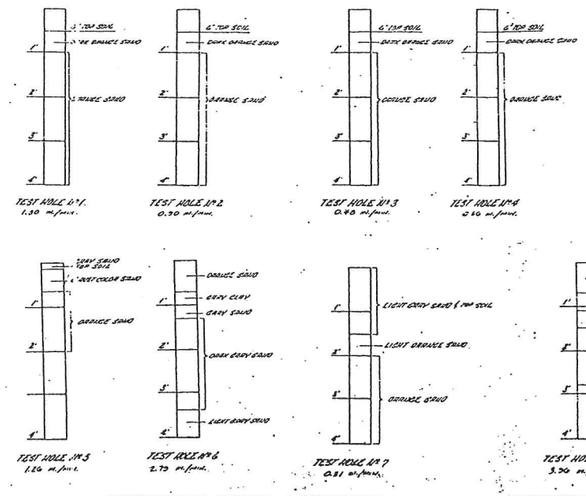
MARION COUNTY DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS ENGINEERING DIVISION

APPROVED BY _____ DATE: _____

HORIZONTAL SCALE: 1" = 100 ft
VERTICAL SCALE:
CADD NAME: DRAINMAP

DRAINAGE MAP





NOTES:

1. Total area of right-of-way being improved by this project equals 16.88 acres.
2. This project was previously permitted by S.J.R.W.M.D. Permit No. 42-083-0478NG issued October 1, 1991.
3. These roadway improvements qualify for a S.J.R.W.M.D. General Permit under 40C-42.024(2)(d) (Paving of Existing Public Dirt Roads By a Public Entity).
4. During the construction period, a siltation barrier shall be provided at any and all discharge points.
5. Erosion and sedimentation control shall be installed and maintained during earth disturbing activities and until earth cover has been established.
6. No work is to be conducted within the limits of the existing man-made canals except as noted or shown.
7. No construction is to occur within the Waters of the State.
8. Landward extent of Surface Waters of the State is the top of bank of the existing man-made canals.

LEGEND

BASIN BOUNDARY

100 YR. FLOOD LINE
AS PER FEMA ZONE A-1 ELEV. 55.00
120-160-0540B JAN. 19, 1983

Ponderosa

REVISIONS											
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

	NAME	DATE		NAME	DATE
DESIGNED BY			DRAWN BY		
CHECKED BY			CHECKED BY		
SUPERVISED BY:					

MARION COUNTY DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS ENGINEERING DIVISION

APPROVED BY _____ DATE: _____

HORIZONTAL SCALE: 1" = 100 ft.
VERTICAL SCALE:
CADD NAME: DRAINMAP

DRAINAGE MAP



woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Quail Run
Subdivision

210 South Florida Avenue | Suite 220
Lakeland, Florida 33801
800.426.4262

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

0233748.01
CSWR
July 2021

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APPENDICES

Appendix A: Source Water Assessment & Protection Program Results
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Appendix C: Emergency Response Plan
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APPENDIX A: SOURCE WATER ASSESSMENT & PROTECTION PROGRAM RESULTS

» SWAPP Homepage
» Search By County
» Search by PWS Name or Number
» How to Help?

Definitions

» Aquifers
» Public Water Systems
» Assessment
» Potential Contaminants
» Susceptibility
» Prevention

Contact Us

» Email
» Mailing Address
» Source Water Protection Workshop

EPA Source Water Protection website

Source Water Assessment & Protection Program

Results for: 2019

QUAIL RUN SUBDIVISION
SW 108 LN & 18 TERR.
OCALA, FL 32671

Public Water System ID: 3424046
County: MARION
DEP Regulatory Office: DEP Central District
3319 Maguire Blvd, Suite 232
Orlando, FL 32803
407-897-4100
Public Water System Type : COMMUNITY
Public Water System Source : GROUND
Primary Use: SUBDIVISION
Population Served: 230
Size of Assessment Area:
GROUND: For this system, a 1000-foot radius circle around each well was used to define the assessment area.

Number of Wells: 1

Well ID	Owner ID	FLUWID	Status	Well Depth(ft)	Aquifer
5806	8"/200'/40'	AAG9894	ACTIVE	Not Available	Floridan Aquifer

Results:

GROUND WATER:
A search of the data sources indicated no potential sources of contamination.

Last updated: February 19, 2020

Accessibility Information

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Exit Disclaimer
Privacy Statement

3900 Commonwealth Boulevard M.S. 49
Tallahassee, Florida 32399
850-245-2118 (phone) /
850-245-2128 (fax)

APPENDIX B: TANK INSPECTION REPORT

INSPECTION AND TESTING of HYDROPNEUMATIC TANK

Quail Run Tank

Pursuant to Chapter 62-555.350 (1) & (2) F.A.C

Water System:	Quail Run
Street Address:	1784 SW 108th Lane
City, State:	Ocala, Florida
Phone:	352-347-8228
Contact:	Dewaine Christmas
E-mail:	sunshineutl@aol.com
PWS ID No.:	3424046
County:	Marion
Classification:	Community
Source:	Ground
Ownership:	Sunshine Utilities of North Central Florida
Date:	November 24, 2020



Inspection and Testing by:

Robert M. Couch III, P.E.
ENVIRO-TECH, Inc.
PO Box 152
Weirsdale, FL 32195
Telephone: 352-694-1799
E-mail: envirotech@ymail.com



C.O.A. No. 8692 Registration No. 55311

Robert M. Couch III, P.E.

Digitally signed by Robert M. Couch III, P.E.
cn=Robert M. Couch III, P.E., ou= President, o= ENVIRO-TECH, Inc., l= Weirsdale, st= Florida, c= US, email= envirotech@ymail.com
Date: 2020.11.30 11:08:18 EST

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1.0 EXECUTIVE SUMMARY

ENVIRO-TECH, Inc. was contracted to perform the five year tank condition inspection on the above mentioned hydro-pneumatic tank.

This condition inspection was performed on November 24, 2020 by Robert M. Couch III, P.E. on the above referenced water tank. The tank was drained and, an internal and external inspection was performed to assess the tank condition as required by the Florida Department of Environmental Protection (FDEP) Rule 62-555.

The tank shell and heads appeared to be in overall good structural condition. Ultrasonic Thickness Measurement (UTM) readings indicated that the average thickness of the tank shell at the time of the field inspection was approximately 7.79 millimeters. UTM readings from the tank heads indicated an average thickness of 9.38 millimeters. The exterior coating of the tank appeared to be in overall good condition with no surface corrosion. The interior coating of the tank appeared to be in good condition with minor surface corrosion starting on the fittings attached to the tank walls.

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 50 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected at the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the average working pressure does not exceed 50 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

2.0 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS CHAPTER 62-555.350 (1) & (2)

2.1 Operation and Maintenance of Public Water Systems

(1) Suppliers of water shall operate and maintain their public water systems so as to comply with applicable standards in Chapter 62-550, F.A.C., and requirements in this chapter.

(2) Suppliers of water shall keep all necessary public water system components in operation and shall maintain such components in good operating condition so the components function as intended. Preventive maintenance on electrical or mechanical equipment – including exercising of auxiliary power sources, checking the calibration of finished-drinking-water meters at treatment plants, testing of air or pressure relief valves for hydropneumatic tanks, and exercising of isolation valves –shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water; however, in no case shall auxiliary power sources be run under load less frequently than monthly. Accumulated sludge and biogrowths shall be cleaned routinely (i.e., at least annually) from all treatment facilities that are in contact with raw, partially treated, or finished drinking water and that are not specifically designed to collect sludge or support a biogrowth; and blistering, chipped, or cracked coatings and linings on treatment or storage facilities in contact with raw, partially treated, or finished drinking water shall be rehabilitated or repaired. **Finished-drinking-water storage tanks, including conventional hydropneumatic tanks with an access manhole but excluding bladder- or diaphragm-type hydropneumatic tanks without an access manhole, shall be checked at least annually to ensure that hatches are closed and screens are in place; shall be cleaned at least once every five years to remove biogrowths, calcium or iron/manganese deposits, and sludge from inside the tanks; and shall be inspected for structural and coating integrity at least once every five years by personnel under the responsible charge of a professional engineer licensed in Florida.** Dead-end water mains conveying finished drinking water shall be flushed quarterly or in accordance with a written flushing program established by the supplier of water; additionally, dead-end or other water mains conveying finished water shall be flushed as necessary whenever legitimate water quality complaints are received.

2.2 Location of Inspection and Testing Report

Pursuant to Chapter 62-555.350 (2) and 62-555.350 (12) FAC, beginning 28 August 2003, all water systems regardless of size must maintain a copy up-to-date Preventive Maintenance Logs of each water system in the water facility office. The Preventive Maintenance Logs must show the date and type of all maintenance performed and comply with Rule 62-555.350 (2) and 62-555.350 (12), which requires the following:

- Preventive Maintenance Logs on Electrical and Mechanical Equipment
- Cleaning and Inspection Logs of Treatment Facilities and Storage Tanks
- Records of Coatings and Linings Rehabilitation or Repair
- Licensed Engineer Inspection Report (once every 5-years) for Finished-Drinking-Water Storage Tanks and Hydropneumatic Tanks
- Written Flushing Program and Logs showing that Dead-End Water Mains are being flushed at least quarterly
- Isolation Valves Exercise Logs

A copy of this report should be kept with these records.

3.0 HYDROPNEUMATIC PRESSURE TANK INSPECTION AND TEST PROCEDURES

This Inspection and Test Procedures is used as a reference in the overall inspection and testing of this Water System. This procedure is to be updated from time to time to reflect physical and procedural changes to the water system.

Inspection and testing of this tank was conducted by Robert M. Couch III, P.E. with the assistance of Jim Hodges Jr. of Sunshine Utilities of North Central Florida, Inc. The following inspection and testing procedures for hydropneumatic pressure tanks were used:

3.1 Pre-Test Procedures

1. If water service is to be interrupted customers must be notified in advance and if appropriate, boil water notices issued.

2. Turn-off all electrical power to well pumps, air motors, chlorination equipment, etc.

3. Open drain valve to empty tank. This is also a good time to check the valves (exercise them) that isolate the tank to see if they are in fact working as they should. This downtime can also be used to replace a valve if needed.

4. Once depressurized, the site glass is inspected for proper operation.

5. Once the tank is drained, the manway (hatch) will need to be removed for inspection of the interior.

3.2 Visual Inspection

6. Perform visual inspection of the tank exterior and accessories for presence of leaks, shell distortion, signs of settling, deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, accessories, etc.

7. Tank layout and physical measurements

8. Color photographs of the tank exterior and all of the essential appurtenances

9. Perform visual inspection of the tank interior for presence of deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, bio-growths, calcium or iron/manganese deposits, sludge, etc.

3.3 Nondestructive Examination

10. The tank interior coating is then examined for dry film thickness (See PosiTest® DFT Coating Thickness Gauge measurement) or equivalent.

11. The tank exterior is then examined for thickness measurements (See Smart Sensor AR 850+ Ultrasonic Thickness Gauge measurement).

12. If deemed necessary, the tank exterior (or interior) is then examined for porosity, pinholes and leaks (See PCWI porosity detection test, also known as holiday detector test).

3.4 Post-Test Procedures

13. Any coating problems detected should be corrected while the tank is out of service in order to avoid further extensive downtime.

14. Once the tank is inspected and all maintenance items are taken care of, the tank will need to be disinfected prior to placing back in use.

15. Once the tank has been disinfected, bacteriological tests must be performed on water samples (2 per FDEP) taken from the tank discharge. FDEP to clear for service prior to placing back in service.

3.5 Safety of Test Area

The test area should be restricted and barricaded. The porosity testing instrument output can be up to 20,000 volts. Testing should be carried out well clear of personnel not involved in the testing procedure. Should accidental contact be made with the test electrode, the recipient will receive a mild shock. This equipment should never be used by a person with a pacemaker.

4.0 TEST EQUIPMENT DESCRIPTIONS

4.1 AR 850+ Ultrasonic Thickness Gauge



The Smart Sensor AR 850+ Digital Ultrasonic Thickness Gauge is an economical, user-friendly, menu driven, and multi-functional unit offering extensive features from basic measurements to extended memory. This dynamic series of UT gauges is designed to measure the thickness of metallic and non-metallic materials such as steel, aluminum, titanium, plastics, ceramics, glass and any other good ultrasonic wave conductor as long as it has parallel top and bottom surfaces. The AR 850+ gauges will accurately display readings in millimeters after a simple calibration to a known Thickness or sound velocity.

4.1.1 Features

- Main Unit
- Transducer 5 MHz / 2.5 MHz
- Integrated steel calibration plate 4.0 mm
- Batteries (2 x AAA)
- Ultrasonic Couplant
- Operation Manual
- Certificate
- Carrying Case
- One Year Warranty

4.1.2 Technical Specification

Display Type	4-digit LCD
Display Resolution	(<100 mm) 0.1 mm
Units	Metric
Measuring Range (steel)	1.2 to 220.0 mm
Sound Velocity Range	1000 to 9999 m/s
Operating Temperature	0 ° C +45° C
Frequency	5 MHz
Power Source	3 X 1.5V AAA batteries
Dimensions	70x145.5x28 mm

4.2 Compact DC Inspector Porosity Detector



Porosity detection of Tanks, Valves, Pumps, Pipeline field joints, and general inspection and maintenance. Suitable for a broad range of testing and inspection requirements. It is recommended that the integral probe be limited to a 125 mm flat brush or fan brush.

4.2.1 Standards

ASTM G62-87(1998), ASTM D4787-93(1999), NACE RP0274-98, NACE RP0490-2001, NACE RPO188- 99, JIS G-3491, JIS G-3492, ANSI/AWWA C214-89, ANSI/AWWA C213-94 and ISO 2746:1998

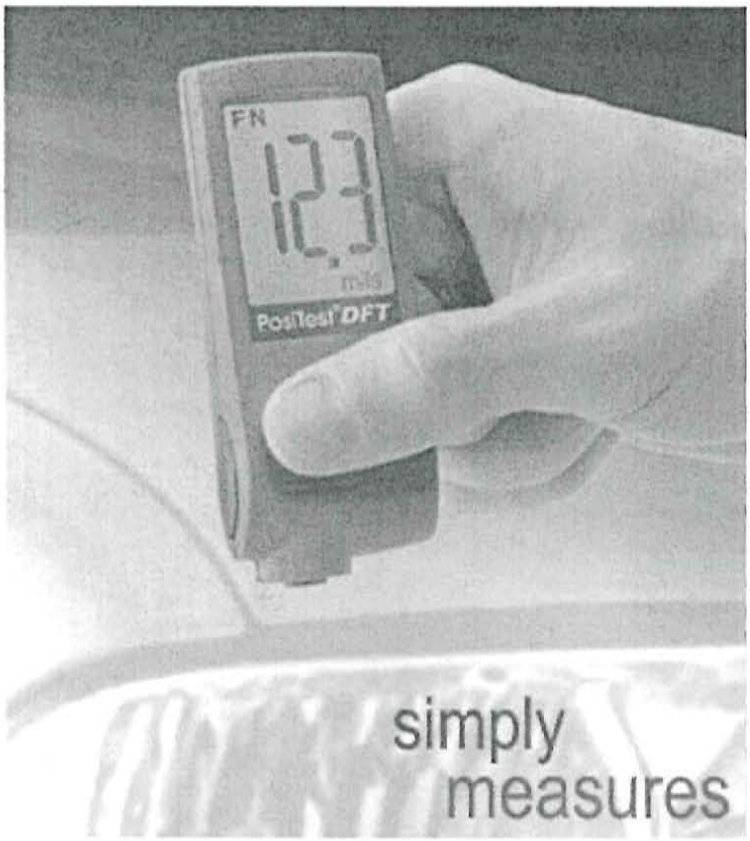
4.2.2 Features

- LED bar graph display of voltage
- "Single" hand-held, lightweight unit for simplicity and ease of operation
- Audible and visual alarms
- LED battery condition indicator
- Integral probe
- Detector
- 7m Earth lead and clamp
- Flat 125mm wide brass wire brush (or optional fan brush)
- Carry Case
- Operating instructions with conformance certificate
- Variable output up to 10kV or Variable output up to 20kV

4.2.3 Technical Specifications

Test Voltage	to 10kV (using 9V Battery)
Output Test Current	up to 100µA
Operating Temperature	-20 to +50°C
Power Supply	Battery (9V internal)
Unit Dimensions	210 x 75 x 35mm (excl brush) 8.25" x 3.1" x 1.5"
Unit Weight	460g (incl probe)
Shipping Weight	1.5Kg

4.3 PosiTest DFT Coating Thickness Gauge



The new PosiTest DFT Coating Thickness Gauge measures coatings on ALL metals. It is the economical choice that retains the uncompromising quality of Qualitest inspection instruments.

Available in two models:

- PosiTest DFT Ferrous - measures non-magnetic coatings on steel.
- PosiTest DFT Combo - measures both non-magnetic coatings on steel and non-conductive coatings on aluminum, brass, etc. Automatically recognizes the substrate and takes a measurement.

4.3.1 Standards

ASTM B244/B499/B659/D1186/D1400/E376/G12, BS3900-C5, SSPC-PA2, ISO 2178/2360/2808, prEN ISO 19840, and others. Certificate of Calibration traceable to NIST available.

4.3.2 Features

- Fast, repeatable measurements
- No calibration required for most applications
- ZERO feature for rough or curved surfaces
- Handy RESET feature when no zero reference is available
- Strong, wear resistant, ruby-tipped probe
- Audible and visible measurement indication
- V-groove in probe for positioning on cylindrical parts
- Mils/Microns switchable
- Basic instructions on the back of each gauge

4.3.3 Technical Specifications

Measurement Range	0-40 mils (-1000 µm)
Accuracy	±(0.1 mils + 3%) (±(2µm + 3%))
Size	4 x 1.5 x 0.9 in (100 x38 x 23 mm)
Weight	2.5 oz (70 g)



5.0 HYDROPNEUMATIC PRESSURE TANK DESCRIPTION

The hydropneumatic pressure tank inspected and tested is described as follows:

Length: 14'-0" (17'-0" including elliptical heads)
Diameter: 5'-0" outside diameter
Volume: 2,400 gallons with elliptical heads
Tank Age: 2014
Operating Pressure: 40-60 psi

6.0 TESTING

6.1 Porosity Testing

The tank surface was not swept with the Compact DC Inspector Porosity Detector during this inspection as no evidence of pin holes was observed throughout the surface of the tank.

6.2 Interior Coating Testing

No dry film thickness readings were taken within the tank interior as the coating had begun to fail along fittings inside the tank walls..

6.3 Ultrasonic Metal Thickness Testing

A total of 47 metal thickness readings were taken at various locations on the tank shell and head surface. The average shell reading was 7.79 millimeters in the cylindrical section and 9.38 millimeters in the elliptical heads. Typical industry standard minimum wall thickness for tanks of this size is 1/4" (6.3 mm).

7.0 VISUAL OBSERVATIONS

7.1 Tank Exterior

The exterior of the tank appeared to be in good structural condition.

7.2 Tank Interior

The tank interior appeared to be in good condition. There were areas around the tank fittings where the coating had begun to fail and corrosion had formed on the interior tank surface.

8.0 DEFINITIONS

Design Pressure - The maximum design pressure determined from the metal thickness.

Maximum allowable working pressure (MAWP) – Maximum pressure that the pressure tank is capable of safely holding at a design maximum temperature (250°F).

Operating Pressure - The normal maximum operating pressure of the pressure tank. The normal operating pressure must always be below the MAWP. As a rule of thumb the maximum operating pressure should always be less than the MAWP.

Metal Thickness – The thickness of the pressure tank wall (not including a corrosion allowance) to be used in the pressure calculations.

Design Safety Factor on Metal Tensile Strength – A pressure tank is normally designed with a safety factor of 3 to 4 on the metal tensile strength. All pressure tanks are designed to operate with wall stresses below the yield point of the metal used for fabrication.

9.0 TANK PRESSURE CALCULATIONS

The following formula is found in ASME Section I for determination of MAWP:

For tanks with circumferential stress on (longitudinal joints)

P = SEt/(R+0.6t)
= 60 MPa x 1.0 x 7.79 mm / (754 mm+0.6 x 7.79 mm)
= 0.616 MPa
= 89 psi

When:

t < 0.5R = 0.5 x 754 = 377.11 mm (true) or
P < 0.385SE = 0.385 x 60 x 1.0 = 23.1 MPa (true)

Where:

t = metal thickness (mm) where t = 7.79 mm
R = inside radius of shell course under consideration (mm) = 754 mm
E = joint efficiency for cylindrical or spherical shells = 1.0 for welded tanks and corresponds to a safety factor of 3.5 in the parent metal.
P = maximum allowable working pressure (MPa) where 1 MPa = 145 psi
S = maximum allowable stress value at the operating temperature of the metal = 60 MPa (Safety Factor of 4).

10.0 CONCLUSIONS

Inspection and testing of the Quail Run 2,400-gallon hydropneumatic pressure tank was performed on November 24, 2020. In addition to a visual examination, non-destructive examinations were also made. Non-destructive examinations included ultrasonic measurement of the tank wall thickness and visual inspection for pinholes and leaks. No examination of Dry Film Thickness Measurement (DFTM) of the interior coating was performed as the coating had already begun to fail.

Observations of the tank exterior indicated tank is subject to normal exposure. Observations of tank interior revealed light surface corrosion on the fittings of the tank interior.

11.0 RECOMMENDATIONS

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

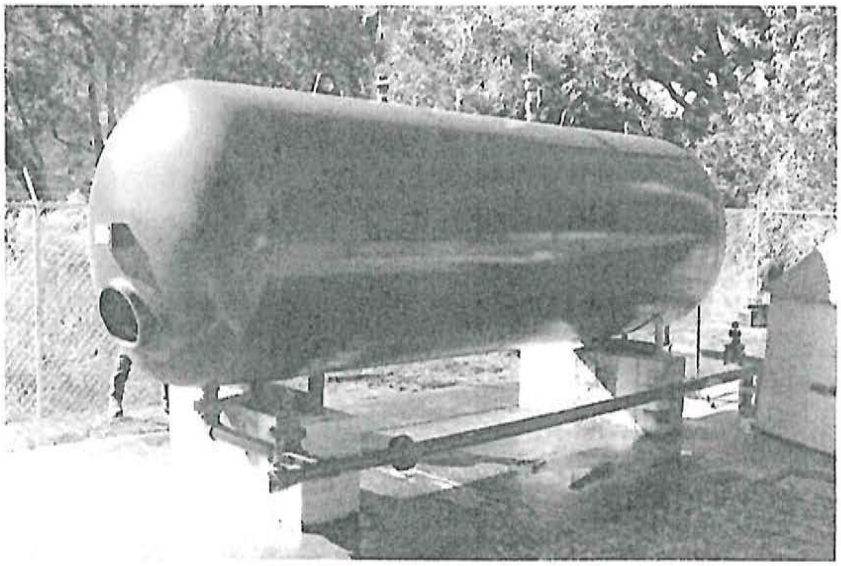
- The pressure relief valves should be tested regularly and maintained at 50 PSI or lower.
- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.
- The tank interior should be cleaned and reinspected at the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the average working pressure does not exceed 50 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

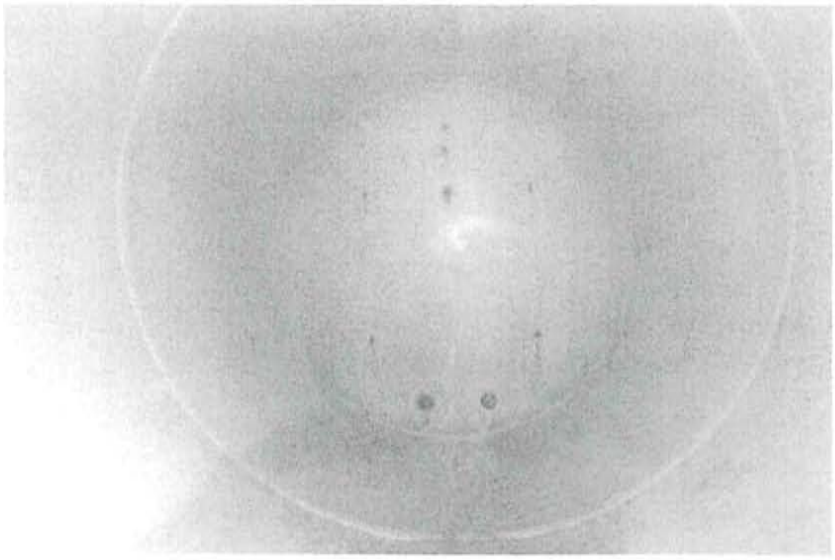
Signed: Robert M. Couch III Date: 11/29/2020

Robert M. Couch III, P.E. Registration No. 55311

Exterior and interior views of tank







APPENDIX C: EMERGENCY RESPONSE PLAN

Disaster-Specific Preparedness/Response Plan

for Public Drinking Water Systems

Per Chapter 62-555.350 (15) F.A.C.

Sunshine Utilities

QUAIL RUN

Address:	10230 East Hwy. 25 Belleview, FL 34420
Phone:	352-347-8228
Fax:	352-347-6915
Contact:	Dewaine Christmas, Manager
E-mail:	SunshineUtl@AOL.COM
Connections:	103
PWS:	3424046
County:	Marion

May 17, 2013

Department of Environmental Protection
Michael D. LeRoy, P.E.
John R. Sowerby, P.E.

FRWA Security Staff
Sterling L. Carroll, P.E.
Ken Klos, P.E.
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This template and guide has been developed by the Florida Rural Water Association (FRWA) in collaboration with the Washington State Department of Health, Office of Drinking Water, Olympia, Washington; and reviewed by Florida Department of Environmental Protection.

Acknowledgment of federal government support of this project:

This project and the preparation of this booklet was funded in part by a Water Protection Coordination grant from the Environmental Protection Agency through an agreement/contract with the Drinking Water Program of the Department of Environmental Protection. Total cost of the project was $3,000 of which $3,000 or 100 percent, was provided by the U.S. Environmental Protection Agency.

Preface
Chapter 62-555.350 (15) FAC

Disaster-Specific Preparedness/Response Plans

(15) Suppliers of water who own or operate a community water system serving, or designed to serve, 350 or more persons or 150 or more service connections shall develop a written emergency preparedness/response plan in accordance with Emergency Planning for Water Utilities, AWWA Manual M19, as adopted in Rule 62-555.335, F.A.C., by no later than December 31, 2004, and shall update and implement the plan as necessary thereafter. Said suppliers of water shall coordinate with their Local Emergency Planning Committee and their Florida Department of Law Enforcement Regional Security Task Force when developing their emergency plan and shall include in their plan all of the information in paragraphs (a) through (e) below.

(a) A Communication Charts as described in Chapter 5 of AWWA Manual M19.

(b) Written agreements with other agencies, utilities, or response organizations.

(c) A disaster-specific preparedness/response plan as described in Chapter 5 of AWWA Manual M19 for each of the following disasters: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release. Each disaster-specific preparedness/response plan shall incorporate the results of a vulnerability assessment; shall include actions and procedures, and identify equipment, that can obviate or lessen the impact of such a disaster; and shall include plans and procedures that can be implemented, and identify equipment that can be utilized, in the event of such a disaster.

(d) Details about how the water system meets the standby power requirements under subsection 62-555.320(14), F.A.C., and, if applicable, recommendations regarding the amount of fuel to maintain on site, and the amount of fuel to hold in reserve under contracts with fuel suppliers, for operation of auxiliary power sources.

(e) If applicable, recommendations regarding the amount of drinking water treatment chemicals, including chemicals used for regeneration of ion-exchange resins or for onsite generation of disinfectants, to maintain in inventory at treatment plants.

Specific Authority 403.861(9) FS. Law Implemented 403.852(12), 403.853(6), 403.861(17) FS. History-New 11-19-87, Formerly 17-22.650, Amended 1-18-89, 1-1-93, Formerly 17-555.350, Amended 8-28-03.

Time Extension for Submitting/Completing ERP – December 31, 2005

From: Hoofnagle, Van
Sent: Thursday, October 21, 2004 11:25 AM
Subject: Time Extension for Submitting/Completing ERP
Importance: High

I am sending this e-mail because of possible confusion in some FDEP District Offices or ACHDs regarding the deadline for compliance with the emergency preparedness/response plan requirements in FAC subsection 62-555.350(15).

As John Sowerby and other staff mentioned during Focus On Change presentations early this year on FAC Rule 62-555.350 and during training this summer on the recent amendments to FAC Chapter 62-555, the FDEP intends to amend FAC subsection 62-555.350(15) to give all affected community water systems (i.e., all community water systems serving 350 or more persons or 150 or more service connections) **until the end of 2005** instead of the end of this year to complete a comprehensive emergency preparedness / response plan as required by FAC subsection 62-555.350(15). At this point, it will likely be after the end of this year before we officially make this change to FAC subsection 62-555.350(15). In the meantime, please do not take any enforcement action against

community water systems who fail to meet the 12/31/04 deadline in FAC subsection 62-555.350(15). Thanks.

Van Hoofnagle
DEP Drinking Water Administrator

Section 1
Communication Charts

The first response step in any emergency is to inform the person at the top of this list, who is responsible for managing the emergency and making key decisions. List the water system chain of command in order of contact.

Water System Chain of Command – Lines of Authority

Order	Name & Title	Responsibilities During an Emergency	Contact Information
1	Dewaine Christmas Manager	Responsible for overall management and decision making. The manager is the lead for managing the emergency and providing information to regulatory agencies. All communications to external parties are to be approved by the manager.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl@AOL.Com
2	James Hodges Jr. Field Supervisor	Responsible for decision making in the field. In charge of overall maintenance, and repairs to all components of water system.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl @AOL.Com
3	Kelvin Edun Water Treatment Plant Operator	Responsible for running water treatment plant, performing inspections, maintenance, sampling and relaying all critical information to Field Supervisor.	Phone: Cell: 352-875-5141 Email:
4	Pamela Christmas Office	Responsible for assisting the manager in administrative duties and emergencies.	Phone: 352-347-8228 Cell: 352-245-4743 Email:
5			Phone: Cell: Email:
6			Phone: Cell: Email:
7			Phone: Cell: Email:

Emergency Notification

Notification call-up lists - Use these lists to notify important parties of an emergency.

Emergency Notification List

Organization or Department	Name & Position	Telephone	Cell Phone	e-mail
State Warning Point	**Duty Officer**	**800-320-0519**	800-320-0519	N/A
Local Law Enforcement	EOC Commander	352-622-3205		Pstefanski@sheriff.marioncountyfl.org
Fire Department		911		
Emergency Medical Services		911		
Water Operator (if contractor)	Kelvin Edun Operator	352-875-5141		
County Health Department	Tom Moore Director of Environmental Health	352-622-7744	352-266-7486	
DEP District Office	Manny Cardona	407-897-4134	Fax 407-893-4418	
County Emergency Management Dept.	Chip Wildy	352-622-3205		
Local Leader (City Mgr., Mayor, Chair. Co. Comm., etc.)				
Local Hazmat Team (if any)		911		
Hazmat Hotline		911		
National Spill Response Center.	Duty Officer	800-424-8802	800-424-8802	N/A
Interconnected Water System(s)				
Neighboring Water System (not connected)				
FRWA Water Circuit Rider	Tom Gustafson	850-668-2746	352-267-1302	

Priority Customers

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Hospital Or Clinic(s)				
Nursing Home(s)				
Public Schools				
Private Schools				
Wastewater Treatment Plant				
Food Processing Or Other Industry				

Service / Repair Notifications

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Electric Utility Co.	SECO	(352)237-4107		
Electrician	Melville Electric	(352)245-0600		
Gas / Propane Supplier	Belleview Gas	(352)245-6055		
Water Testing Lab.	Aqua Pure Lisa Saupp	(352)355-2383		
Sewer Utility Co.				
Telephone Co.	Sprint	800-788-3600	611	
Plumber	Allen Curry Plumbing	352-629-7886		
Pump Supplier	Coast Pump	352-620-0616	352-266-4277	Coastpumpocal@hotmail.com
"Dig Safe" or "One Call"	Sunshine One Call	800-432-4770		

Service / Repair Notifications				
Organization Or Department	**Name & Position**	**Telephone**	**Cell Phone**	**email**
Rental Equip. Supplier	B&M Rental	352-245-3133	352-245-9800	
Chlorine Supplier	Custom Controls	352-622-9244	352-304-0572	
Other Chemical Suppliers				
Radio/SCADA Repair Co.				
Bottled Water Service				
Bulk Water Supplier				
Well Drilling Co.	Earls Well Drilling	352-245-2324	352-817-0502	
Pipe Supplier	National Water Works	352-351-8144	352-266-4705	

Designated Public Spokesperson and Alternates

Designate a spokesperson (alternates) for delivering messages to the news media & public

Public Spokesperson	Name & Position	Telephone	Cell Phone
Spokesperson	Dewaine Christmas Manager	352-347-8228	352-239-1198
Alternate 1	James Hodges Jr. Supervisor	352-347-8228	352-239-1197
Alternate 2			

Key Messages

Develop possible messages in advance, and update them as the emergency develops
▪ We are aware of the emergency and are working diligently to restore your water service.

- If you fall under a boil water notice you must bring water to a rolling boil for a period of at least one minute. You only have to boil water for human cunsumption.

-

Health Advisories – Boil Water Notices

Use the assistance of your County Health Department and/or District FDEP office, and FDEP's Mandatory Health Effects Language, located on FDEP's website at:

http://www.doh.state.fl.us/environment/water/manual/boil.htm

http://www.DEP.state.fl.us/water/drinkingwater/rules.htm,

and click on "Mandatory Health Effects Language"., PLUS EPA's templates at:

http://epa.gov/safewater/pn.html

Click on "Microsoft Word and Word Perfect files of PN templates" (PN means Public Notifications), then determine which "Tier" of notifications is needed and click on the desired software to receive them in.

Section 2
Written Agreements With Other Agencies, Utilities, or Response Organizations

INSERT BELOW information regarding any written agreements with other agencies, utilities, or response organizations, such as emergency interconnects, mutual aid or FlaWARN.

Emergency Interconnect(s)

Information on the location of interconnection(s) (if any), type and size of interconnecting pipe, pumps and accessory equipment, meters at interconnection(s), normal pressures at both ends of interconnection, volume of water from interconnection(s), type of agreement and approvals needed for use, procedures necessary to use interconnection, etc.

Location (Street)	
Location (GPS)	
Description	

Memoranda of Understanding

Organization	
Summary of Understanding	

Mutual Aid Agreements

Organization	Marion Utilities, Austin 352-622-1171
Summary of Understanding	Will render mutual aide – ie: pumps, generators, and other materials necessary to restore water service.

FlaWARN

Organization	
Summary of Understanding	

Section 3
Disaster-Specific Preparedness/Response Plan

Your disaster-specific preparedness/response plan must include a Vulnerability Assessment and preparedness / response plans for: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release.

In any event there are a series of general steps to take:

1. Confirm and analyze the type and severity of the emergency.
2. Take immediate actions to save lives.
3. Take action to reduce injuries and system damage.
4. Make repairs based on priority demand.
5. Return the system to normal operation.

Vulnerability Assessment

It is essential that water systems identify and assess the vulnerability of each system component for both natural and human-caused emergencies, before preparing their disaster-specific preparedness/response plans. Prepare your Vulnerability Assessment by completing the table below:

Facility Vulnerability Assessment

System component	Description and condition	Vulnerability	Security improvements (indicate existing or proposed)
Raw Water Sources	(1) 8" groundwater wells located several hundred feet from homes. Wells are in good condition. We have wellhead protection in place.	The well is most vulnerable to above ground activities because they are less than 200 ft deep.	1.Purchase land surrounding well. 2. Secure well house to foundation and install lighting around well house.
Pump-house and pumping facilities	The pump-house and pumping facility are in good condition.	Pump location is fully fenced with a locked gate.	Install tamper proof padlocks.
Treatment Facilities	There is a hypo-chlorination system inside of pump house. System is in good condition.	Chlorination systems are not subject to power outages.	There is a backup generator on site in compliance with CH. 62-555.320(14)FAC
Storage Facilities	Hydro pneumatic tank is fenced in good condition.	Tank is not in a lighted area.	Install lighting in area of tank.
Computer and telemetry systems	Computers are in utilities main office and are in good condition.	Computers should be better protected against cyber attack or hacking.	Secure computers with firewalls & virus protection.

A. Vandalism or Sabotage Response Procedures

1. Utility staff first aware of incident:
    a) Calls 9-1-1/ Local Law Enforcement.
    b) Calls Manager
2. Manager determines severity of incident.
    a) Field supervisor determines if vandalism or sabotage will effect the water quality.
    b) Manager reports incident to the state warning point.
3. Field supervisor directs repairs as needed.
    a) Complete repairs
    b) Update ERP as needed.

B. Drought Response Procedures

Include water use restrictions per Consumptive Use Permit

1. Manager coordinates with the local Water Management District (WMD) regarding drought conditions.
    a) If drought conditions exist, a water conservation plan will be initiated.
    b) Literature will be distributed to customers regarding the drought.
    c) Conservation material will be distributed to customers on conservation measures.
    d) Customers not abiding by restrictions will be reported to WMD.
    e) Manager updates ERP as needed.

C. Hurricane Preparedness & Response Procedures

Pre- Hurricane **(36 to 48 hrs prior to arrival)**	1. Manager coordinates with local EOC. 2. Field supervisor checks operation of standby power. 3. Field supervisor secures fuel and treatment chemicals for a 10 day period. 4. Manager replenishes inventory of spare parts.
Hurricane Watch **(24 to 36 hrs prior to arrival)**	1. Manager cancels all time off for employees. 2. Manager issues work assignments in advance in case of communication loss. 3. Employees all top off fuel in vehicles & standby generators. 4. Manager authorizes employees to secure their personal property and arrange for the safety of family members.
Hurricane Warning (24hrs or less prior to arrival)	1. Employees report to designated areas and wait for instructions. 2. Employees load truck with supplies. 3. Employees follow evacuation protocol.
Recovery Procedures	1. Manager coordinates with local EOC. 2. Manager issues boil water notices if needed. 3. Field supervisor coordinates repairs. 4. Manager makes contact with the appropriate DEP office. 5. After repairs are completed samples are taken. 6. When samples come back clear – boil water notice is lifted. 7. Manager files all malfunction reports with the DEP. 8. Field supervisor inspects all systems to make sure everything is running smooth.

D. Structure Fire Response Procedures

1. Utility staff discovering fire:
    a) Evacuate structure on fire.
    b) Call 9-1-1
2. Manager determines severity of incident.
    a) Manager contact State Warning Point.
    b) Field supervisor coordinates repairs when fire is extinguished.
3. Field supervisor reports to manager when repairs are complete.
    a) Manager reports completion of all repairs to any Gov. agency.
    b) Manager updates ERP as needed.

E. Flood Preparedness & Response Procedures

(Is any critical part of your system in a flood prone area?)

None of our systems are in a flood prone area.

F. Forest or Brush Fire Response Procedures

(Is any critical part of your system subject to forest or brush fires?)

1. Utility staff discovering fire.
    a) Orders evacuation of any threatened buildings.
    b) Calls 9-1-1 to report fire.
2. Manager determines the severity of fire.
    a) Manager contacts the State Warning Point.
    b) Field supervisor inspects for any damage and coordinates repairs after fire is extinguished.
3. Field supervisor reports to manager that all repairs are complete.
    a) Manager updates the ERP as needed.
    b)

G. Hazardous Material Release Response Procedures

Do you have any hazardous material (chlorine gas) at your water system?

We have no Hazardous materials at any of our water systems.

H. Other Disaster Response Procedures

Are there other disasters that you want to prepare for, such as a Contamination event, SCADA Attack, or Structural Damage from an Intentional Act?

Contamination

1.
   a)
   b)
2.
   a)
   b)

SCADA Attack

1.
   a)
   b)
2.
   a)
   b)

Structural Damage from an Intentional Act

1.
   a)
   b)
2.
   a)
   b)

Section 4
Standby Power Requirements

Include details about how the water system meets the standby power requirements as described in Ch. 62-555.320(14), and 62-555.350(15)(d) FAC for water source, treatment, and pumping facilities necessary to deliver drinking water at a rate at least equal to the Average Daily Water Demand.

Standby Power for Wells or Surface Water Intakes

Standby Power (or by alternate means) to OPERATE WELLS at Average Daily Demand

Average Daily Demand (ADD) in gpd or gpm	27403 gpd
Wells Needed to Supply Average Daily Demand	1
Standby Generator (kW) Needed for ADD &	15 KW
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	We will have reserve fuel in the case of an emergency.

Standby Power for Treatment Facilities

Standby Power (or by alternate means) to TREAT WATER at Average Daily Demand

Treatment Units Needed to Supply ADD	
Standby Generator (kW) Needed to Treat ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Standby Power for Pumps

Standby Power (or by alternate means) to PUMP WATER at Average Daily Demand

Pumps Needed to Supply ADD	
Standby Generator (kW) Needed to Pump ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Section 5
Drinking Water Treatment Chemicals & Disinfectants

Include recommendations regarding the amount of drinking water treatment chemicals, to maintain in inventory at treatment plants. Do not just list chemical storage capacity, but instead recommend the minimum amount of chemicals to maintain in inventory, which depends upon the location and reliability of chemical suppliers, the status of impending disasters, etc.

Disinfection Treatment Information

Disinfection Chemical(s)	Chemical / Location No. 1	Chemical / Location No. 2
Type of Chemical	Chlorine	
Type of Chemical Feed	Hypo-Chlorinator	
Chemical Storage Location	On site in the pump house.	
Recommended Minimum Amount to be Maintained in Storage (gal)	55 gallons	

Other Chemical Information

Chemical(s) Used	Chemical #1	Chemical #2	Chemical #3	Chemical #4
Type of Chemical				
Type of Chemical Feed				
System Location				
Chemical Storage Location				
Recommended Minimum Amount to be Maintained in Storage (gal)				

Appendix A
Basic System information

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Keep this basic information readily available for when you need it for emergency responders, repair people, the news media and potentially, an emergency operator.

Basic System Information

GPS coordinates will help emergency crews find your system following a major catastrophe.

System identification number (PWS ID)	**3424046**	
System name and address	**QUAIL RUN**	
GPS Coordinates	Latitude:	Longitude:
Basic description and location of system facilities	**SW 108TH LN**	
Population served and service connections.	Population =	Connections =257
System Owner	**Sunshine Utilities of Central Florida, Inc.**	
Management Authority	**Owner and Manager**	
Name, title, and phone numbers of person responsible for maintaining and implementing the ERP.	**Dewaine Christmas** **Manager**	**352-347-8228 phone** **352-239-1198 cell**

System Demand

Demand based on Monthly Operational Records and system capacity based on Sanitary Survey.

Average Daily Demand (gpd)	27403 GPD
Maximum Daily Demand (gpd)	33600 GPD
System Capacity (gpd)	260000 GPD
Peak Hour Demand (gpm)	N/A

Location of Pertinent Information

Item	Location
Distribution System Map	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
O&M Manual(s)	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
Start-Up / Shut-Down Procedures	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.

Well Information

GPS coordinates will help emergency crews find wells following a major catastrophe.

Well Information	Well No. 1	Well No. 2	Well No. 3	Well No. 4
GPS well tag #				
Location (street)	SW 108TH LN			
GPS Coordinates	Lat: Long:		Lat: Long:	Lat: Long:
Well Depth (ft)	N/A FT			
Well Yield (gpd)	128160 GPD			
Pump Type	Submersible			
Manufacturer	Sta-Rite			
Capacity (gpm)	89 GPM			
Motor Manufacturer	Franklin			
Horsepower	5 HP			
Phase	3			
Volts/Amps	230 volts			

Surface Water Sources

GPS coordinates will help emergency crews find surface water intakes following a major catastrophe.

Surface Water Information	Intake No. 1	Intake No. 2
Location (Street / Description)		
GPS Coordinates	Lat: Long:	Lat: Long:
Critical Water Level		

Finished Water Storage

GPS coordinates will help emergency crews find tanks following a major catastrophe.

Name of Storage Unit	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Location (Street)				
Location (GPS)	Lat: Long:	Lat: Long:	Lat: Long:	Lat: Long:
Type (ground, elevated, etc.)				
Capacity (gal)				
Empty Elevation				
Overflow Elevation				

High Service Pumps

HSP	HSP No. 1	HSP No. 2	HSP No. 3	HSP No. 4
Location (street)				
Pump Type				
Manufacturer				
Capacity (gpm)				
Motor Manufacturer				
Horsepower				
Phase				
Volts/Amps				

Other Applicable Information

Appendix B
Training and Rehearsals

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Event	Description	People & Organizations Involved	Date

Appendix C
Plan Approval

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Plan Approval

This plan is officially in effect when reviewed, approved, and signed by the following people:

Name / Title	Signature	Date
Hodges Family Trust		

APPENDIX D: CONSUMER CONFIDENCE REPORT

Certification of Delivery of Consumer Confidence Report

GENERAL INSTRUCTIONS: This form shall be completed by all community water systems (CWSs) that have prepared a Consumer Confidence Report (CCR) in accordance with Rule 62-550.824, F.A.C., Consumer Confidence Reports. At the end of this form is a certification in which a system's authorized representative shall certify that the reported information is accurate and is in conformance with Rule 62-550.824, F.A.C. **COMPLETE THIS FORM AND SUBMIT IT BY AUGUST 10,** together with a copy of your system's CCR, sample email or water bill (with URL notification of CCR, if applicable), and any newspaper notice(s) and posted notice(s) of your CCR, to the appropriate DEP district office or Approved County Health Department (ACHD). Systems serving 100,000 or more persons posting their CCRs on publicly accessible Internet sites shall provide the information on the appropriate Internet link(s). All information provided on this form must be typed or printed in ink.

I. General Water System Information. (To be completed by all community water systems.)

System name: Quail Run Contact person: Dewaine Christmas

PWS Identification number (PWS ID): 3424046 Contact phone number: (352)347-8228

Mailing address: 10220 East Hwy 25 City: Belleview

State: FI Zip: 34420-5531 Population served (not the number of "service connections"): _____

II. CCR Distribution Method. (To be completed by all community water systems. Choose A or B as appropriate.)

☐ A. We mailed, emailed, or otherwise directly delivered a copy of our CCR to each customer on _____ (enter date(s) of mailing or delivery) using the method(s) checked below:

- ☐ a. **Mailed** CCR
- ☐ b. **Mailed** notice (e.g. water bill) with **direct URL** to the CCR
- ☐ c. **Emailed** CCR as an **embedded** image or as an **attachment**
- ☐ d. **Emailed** notice with a **direct URL** to the CCR
- ☐ e. **Otherwise directly delivered** CCR to every customer. Explain: _____

☑ B. We were eligible to use a mailing waiver and used a mailing waiver. (Systems are eligible to use a mailing waiver only if they serve fewer than 10,000 persons, have not had any MCL or monitoring and reporting (M/R) violations, nor have been issued any formal Notices of Violations (NOVs), Consent Orders, Administrative Orders, or court-ordered civil actions during the calendar year before the year the CCR is due to the customers).

Answer a, b, **and** c below.)

- ☐ a. Date of newspaper: _____
- ☐ b. Name of newspaper/newsletter that published our CCR: _____
- ☑ c. A copy of our notice to customers, informing them that our CCR will not be mailed to them, is attached.

This notice was: ☑ mailed with bill; ☐ published in newspaper/newsletter; or ☐ other (describe)

_____

III. Posting of CCR on the Internet. (To be completed by all CWSs serving 100,000 or more persons.)

We posted our CCR on this publicly accessible internet site: _____

IV. Report on Your Effort to Distribute Your CCR to Your Water Consumers.

(To be completed by all CWSs. Check all items that apply - at least one item must be checked.)

In addition to the methods selected in Part II,

- ■ A. We posted our CCR on this publicly accessible internet site: www.sunshineutilities.org
- ☐ B. We published our CCR in the local newspaper(s). The name(s) and date(s) of the newspaper(s) are:

_____

RECEIVED
JUL 10 2020
DEP Central District

☐ C. We advertised the availability of our CCR as a press release, radio announcement, or TV announcement. The type(s) and date(s) of the advertisement(s) are: _____

☐ D. We delivered multiple copies of our CCR to single bill addresses serving several persons.

☐ E. We delivered multiple copies of our CCR to the following community organizations:

_____

☐ F. Our CCR was posted in the following public locations: _____

_____

☒ G. Our CCR was distributed by other methods (e.g., additional copies placed in entrance hall to facility). Describe.
Additional copies available at Sunshine Utilities Office

V. Use of Non-English Language in CCR. (To be completed by all community water systems.)

☐ Information in a non-English language was included in our CCR because 20% or more of our customers do not speak English but speak _____. The method we used to determine the proportion of non-English speaking customers is _____

☒ This requirement does not apply to our system, because we have no non-English speaking group among our customers equal to or exceeding 20% of our total number of customers.

VI. Other Delivery Requirements. (To be completed by all community water systems.)

(A) Was a copy of your CCR sent to your county health department, as required by rule? ☒ Yes ☐ No

(B) Is your system regulated by the Public Service Commission (PSC)? ☐ Yes ☐ No

If Yes, was a copy of your CCR sent to the PSC, as required by rule? ☒ Yes ☐ No

(C) If your system sells water to other systems, have you provided them with either a copy of your CCR or the required consumer confidence information? ☒ Yes ☐ No ☒ Not Applicable

VII. Certification of Delivery of CCR and Compliance with Regulations. (To be completed by all CWSs.)

This statement certifies that the above named community public water system has distributed its CCR for the time period starting ***January 1,*** 2019 ***, and ending December 31,*** 2019, to its customers on 6/15/20 (mm/dd/yy) and provided the appropriate notices of availability according to the requirements listed in this form, which are also found in Rule 62-550.824, F.A.C. This statement also certifies that the reported information is correct and consistent with the compliance monitoring data for the same period previously submitted to the Department, and that the report has been delivered to the agencies identified in Rules 62-550.824(3)(e)3. and 4., F.A.C.

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____

NAME (please print): Dewaine Christmas

TITLE: Manager DATE: 6/26/20

☒ **A copy of our CCR is attached, and**

☐ **If using electronic delivery, a copy of our sample email or notice (e.g. water bill), with URL leading directly to the CCR and not a general information website, is attached. For example, if you are using the FRWA website to post your CCR, your URL would be:**

www.frwa.net/2012-Your PWSID Number.pdf (www.frwa.net/2012- 0000000.pdf).

SUNSHINE UTILITIES
10230 East Highway 25
Belleview, Florida 34420

Drinking Water Quality Report

Annual Drinking Water Quality Report for 2019

Quail Run Subdivision

Florida Department of Environmental Protection Public Water System ID # 3424046

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

The source of our water is groundwater from one well located in the community. The well draws from the Floridan aquifer, one of the world's most protected sources. Our water is chlorinated for disinfection purposes. In 2019 the Florida Department of Environmental Protection conducted an assessment which identifies potential sources of contamination in the vicinity of our well. The SWAPP (Source Water Assessment and Protection Program) determined our public water system to have "No Potential Sources of Contamination". You may obtain more information at the web site *www.dep.state.fl.us/swapp.*

If you have any questions about this report or concerning your water utility please contact **Dewaine Christmas, at Sunshine Utilities, (352) 347-8228**, during normal business hours. We encourage our valued customers to be informed about their water utility.

Sunshine Utilities routinely monitors for constituents in your drinking water according to Federal and State laws, rules and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2019. Data obtained before January 1, 2019, and presented in this report are from the most recent testing performed in accordance with the laws, rules and regulations.

WATER QUALITY TEST RESULTS FOR QUAIL RUN

Radioactive Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Radium 226 + 228	(pCi/L)	FEB '18	No	1.5	N/A	0	50	Erosion of natural deposits

Inorganic Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Arsenic	(ppb)	FEB '18	No	0.5	N/A	N/A	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	(ppm)	FEB '18	No	0.0047	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chromium	(ppb)	FEB '18	No	1.1	N/A	100	100	Discharge from steel and pulp mills; erosion of natural deposits
Fluoride	(ppm)	FEB '18	No	0.16	N/A	4	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum levels between 0.7 and 1.2 ppm
Nitrate (as Nitrogen)	(ppm)	DEC'19	No	1.81	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium	(ppm)	FEB '18	No	4.9	N/A	N/A	160	Salt water intrusion; leaching from soil

Stage 2 Disinfectants and Disinfection By-Products

Disinfectant or Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL or MRDL Violation Yes / No	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine	(ppm)	2019	No	0.7	0.5 - 1.0	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes

Lead and Copper (Tap Water)

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	AL Violation Yes / No	90th Percentile Result	No. of Sampling Sites Exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper	(ppm)	JUL '18	No	0.15	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead	(ppb)	JUL '18	No	13.2	1	0	15	Corrosion of household plumbing systems; erosion of natural deposits

In the table you may find unfamiliar terms and abbreviations. To help you better understand these terms we have provided the following definitions (please note not all definitions may pertain to your report):

- Action Level (AL) – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there Is no known or expected risk to health. MCLGs allow for a margin of safety.
- Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial growth.
- Maximum Residual Disinfectant Level Goal (MRDLG) -- The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.
- ND – This abbreviation means not detected and indicates that the substance was not found by laboratory analysis.
- Parts per million (ppm) or milligrams per Liter (mg/L) - one part of analyte (by weight) to 1 million parts of water sample (by weight).
- Parts per billion (ppb) or micrograms per Liter (µg/L) - one part of analyte (by weight) to 1 billion parts of water sample (by weight).
- Picocurie per liter (pCi/L) - measure of the radioactivity in water.

What does this mean?

As you can see our system had no violations for water quality. We are very pleased to report that our water met all federal and state requirements.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Sunshine Utilities is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals, and in some cases radioactive material, and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

A.) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

B.) Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

C.) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

D.) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

E.) Radioactive contaminants, which may be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The FDA (Food & Drug Administration) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care providers about their drinking water. EPA/CDC (Center for Disease Control) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are also available from the Safe Drinking Water Hotline (800-426-4791).

We are committed to ensuring the quality of your water. If you have any questions or concerns about the information provided, please feel free to call the numbers listed.

Sunshine Utilities

10230 East Highway 25, Belleview, FL 34420
Office (352)347-8228 – Fax (352)347-6915

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality of water and services we deliver to you everyday. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

Please follow the link to view your 2019 Annual Water Quality Report.

https://www.sunshineutilities.org/ccr19/2019QuailRun.pdf

APPENDIX E: SANITARY SURVEY REPORT

FLORIDA DEPARTMENT OF
Environmental Protection

CENTRAL DISTRICT OFFICE
3319 MAGUIRE BLVD., SUITE 232
ORLANDO, FLORIDA 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

December 11, 2020

Dewaine Christmas, Owner
Sunshine Utilities of Central Florida Inc
10230 SW Hwy 25
Belleview, FL 34420
sunshineutl@aol.com

Re: Quail Run Subdivision
PW Facility ID #3424046
Marion County

Dear Mr. Christmas:

Department personnel conducted an inspection and file review of the above-referenced facility on November 19, 2020. Based on the information provided during the inspection, the facility was determined to be in compliance with the Department's rules and regulations. A copy of the inspection is attached for your records.

The Department appreciates your efforts to maintain this facility in compliance with state and federal rules. Should you have any questions or comments, please contact Miranda Rothenberger at 407-897-4301 or via e-mail at Miranda.Rothenberger@FloridaDEP.gov.

Sincerely,

Daniel K. Hall, Manager
Central District
Florida Department of Environmental Protection

Enclosure: November 19, 2020 Inspection Report

cc: Miranda Rothenberger, FDEP

State of Florida
Department of Environmental Protection
Central District

SANITARY SURVEY REPORT

Plant Name **Quail Run Subdivision** County Sumter PWS ID # **3424046**
Plant Location SW 108th Ln & SW 18th Terr, Ocala, Florida 32671 Phone 352-347-8228
Owner Name Sunshine Utilities of Central Florida, Inc. Phone 352-347-8228
Owner Address 10230 SE Hwy 25, Belleview, Florida 34420
Contact Person Dewaine Christmas Title Phone 352-347-8228
This Survey Date 11/19/2020 Last Survey Date 01/23/2018 Last Compliance Inspection Date 08/29/2014

PWS TYPE: Transient Non-Community

PLANT CATEGORY & CLASS: 5C

MAX-DAY DESIGN CAPACITY: 260,000 gpd

PWS STATUS: Approved

TREATMENT PROCESSES IN USE
Hypochlorination

SERVICE AREA CHARACTERISTICS

Food Service: ☐ Yes ☐ No ☒ N/A

Number of Service Connections 92
Population Served 230 Basis MOR

OPERATION & MAINTENANCE LOG: Yes
Location Water treatment plant
Comments

CERTIFIED OPERATOR: Yes
Operator(s) & Certification Class-Number:
Kelvin Edun C-7459

Hrs/day: *Required* Visit *Actual* Visit
Days/wk: *Required* 5+1 *Actual* 5+1
Non-consecutive Days? ☐ Yes ☒ No ☐ N/A
Comments 5 visits/week and one visit each weekend for a total of 0.6 hour/week.

MONTHLY OPERATION REPORTS (MORs)
MORs submitted regularly? ☒ Yes ☐ No ☐ N/A
Data missing from MORs? ☒ No ☐ Yes ☐ N/A
Average Day (from MORs) 25,020 gpd
Maximum Day (from MORs) 43,600 gpd 08/2020
Comments

Flow Measuring Device Flow Meter
Meter Size & Type 2" Master Meter
Date Last Calibrated 03/23/2016

RAW WATER SOURCE
☒ GROUND; Number of Wells 1
☐ PURCHASED from PWS ID #
☐ Emergency Water Source
Emergency Water Capacity

STANDBY POWER SOURCE: Not Required
Source
Capacity of Standby (kW)
Switchover: ☐ Automatic ☐ Manual
Hrs Operated Under Load
What equipment does it operate?
☐ Well Pumps
☐ High Service Pumps
☐ Treatment Equipment
Satisfy avg. daily demand? ☐ Yes ☐ No ☐ Unknown
Audio-visual alarm? ☐ Yes ☐ No
Comments

PLANS AND MAPS

Coliform Sampling Plan	☒ Yes	☐ No	☐ N/A
D/DBP Monitoring Plan	☒ Yes	☐ No	☐ N/A
Lead and Copper Plan	☒ Yes	☐ No	☐ N/A
Distribution System Map	☒ Yes	☐ No	☐ N/A
Emergency Response Plan	☒ Yes	☐ No	☐ N/A

Comments

PREVENTIVE MAINTENANCE/O&M

Operation & Maintenance Manual	☒ Yes	☐ No	
Preventive Maintenance Program	☒ Yes	☐ No	☐ N/A
Flushing Program	☐ Yes	☐ No	☒ N/A
Records	☐ Yes	☐ No	☒ N/A
Isolation Valve Exercise	☐ Yes	☐ No	☒ N/A
Records	☐ Yes	☐ No	☒ N/A

Comments

CROSS CONNECTION CONTROL
BFPAs None Observed # Tested N/A
WWTP RPZ N/A Date Tested N/A
Written Plan Yes Date 02/15/2010
Comments

PWS ID # 3424046
Date 11/19/2020

GROUND WATER SOURCE

Well Number (Florida Unique Well ID #)		**1(AAG9894)**			
Year Drilled		1980			
Depth Drilled		Unknown			
Drilling Method		Unknown			
Type of Grout		Unknown			
Static Water Level		Unknown			
Pumping Water Level		Unknown			
Design Well Yield		Unknown			
Test Yield		Unknown			
Actual Yield (if different than rated capacity)		Unknown			
Strainer		Unknown			
Length (outside casing)		Unknown			
Diameter (outside casing)		6”			
Material (outside casing)		Black steel			
Well Contamination History		None			
Is inundation of well possible?		No			
6’ X 6’ X 4” Concrete Pad		Yes			
SET BACKS	Septic Tank	>200’			
	Reuse Water	N/A			
	WW Plumbing	>100’			
	Other Sanitary Hazard	None observed			
PUMP	Type	Submersible			
	Manufacturer Name	Sta-Rite			
	Model Number	Unknown			
	Rated Capacity (gpm)	360			
	Motor Horsepower	30			
Well casing 12” above grade?		Yes			
Well Casing Sanitary Seal		Yes			
Raw Water Sampling Tap		Yes			
Above Ground Check Valve		Yes			
Security		Yes			
Well Vent Protection		Yes			

COMMENTS _____

PWS ID # 3424046
Date 11/19/2020

CHLORINATION (Disinfection)
Type: ☐ Gas ☒ Hypo
Make Uni-Dose Capacity 12 gpd
Chlorine Feed Rate 60%
Avg. Amount of Cl_2 gas used N/A
Chlorine Residuals: Plant 1.73 Remote 1.47
Remote tap location 1774 SW 108th Ln
DPD Test Kit: ☐ On-site ☒ With operator
☐ None ☐ Not Used Daily
Injection Points Prior to hydropneumatic tank
Booster Pump Info
Comments

Chlorine Gas Use Requirements	YES	NO	Comments
Dual System	☐	☐	
Auto-switchover	☐	☐	
Alarms: Loss of Cl_2 capability Loss of Cl_2 residual Cl_2 leak detection	 ☐ ☐ ☐	 ☐ ☐ ☐	
Scale	☐	☐	
Chained Cylinders	☐	☐	
Reserve Supply	☐	☐	
Adequate Air-pak	☐	☐	
Sign of Leaks	☐	☐	
Fresh Ammonia	☐	☐	
Ventilation	☐	☐	
Room Lighting	☐	☐	
Warning Signs	☐	☐	
Repair Kits	☐	☐	
Fitted Wrench	☐	☐	
Housing/Protection	☐	☐	

AERATION (Gases, Fe, & Mn Removal)
Type Capacity
Aerator Condition
Visible Algae Growth
Protective Screen Condition
Frequency of Cleaning
Date Last Inspected/Cleaned
Comments

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

Tank Type/Number	H	
Capacity (gal)	3,000	
Material	Steek	
Gravity Drain	Yes	
By-Pass Piping	Yes	
Protected Openings	Yes	
Sight Glass or Level Indicator	No	
PRV/ARV	Both	
Pressure Gauge	Yes	
On/Off Pressure	40/60	
Access Secured	Yes	
Access Manhole	Yes	
Tank Sample Tap Location	Discharge piping	
Date of Inspection	*	
Date of Cleaning	*	

Comments *Tank installed 07/2015. Inspection due by end of 2020.

HIGH SERVICE PUMPS

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

Comments

DEFICIENCIES:

No deficiencies were noted during this inspection.

MONITORING REMINDER:

- Nitrate and nitrite samples are required to be collected from the point of entry (POE) to the distribution system annually. The 2019 results have not been received, early sampling is recommended.
- The consumer confidence report (CCR) must be delivered to consumers and the Department no later than July 1, 2021, and certification of delivery of the CCR must be submitted to the Department no later than August 10, 2021.
- Monitoring schedules are available on the Central District's Drinking Water site:

https://floridadep.gov/central/central/content/resources-drinking-water-facilities-and-operators

COMMENTS:

- **Contact FRWA (Florida Rural Water Association) at 850-668-2746, or** frwa@frwa.net, for free technical assistance with your system. FRWA has extended benefits offered to members.
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.

  Checking the calibration of finished-drinking-water meters at treatment plants shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water. [Rule 62-555.350(2), F.A.C.]
- Suppliers of water shall submit written notification to the Department before beginning work or alterations to the public water system. Each notification shall be submitted to the appropriate Department of Environmental Protection District Office or Approved County Health Department and shall include the following: a description of the scope, purpose, and location of the work or alterations; and assurance that the work or alterations will comply with applicable requirements listed in Rule 62-555.330, F.A.C. Suppliers of water may begin such work or alterations 14 days after providing notification to the Department unless they are advised by the Department that the notification is incomplete or that a construction permit is required.
- Suppliers of water shall telephone the SWO at 1-800-320-0519 immediately (i.e., within two hours) after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving a public water system. [Rule 62-555.350(10)(a), F.A.C.]
- Suppliers of water shall telephone, and speak directly to a person at, the appropriate DEP District Office as soon as possible, but never later than noon of the next business day, in the event of any of the following emergency or abnormal operating conditions:
  - The occurrence of any abnormal color, odor, or taste in a public water system's raw or finished water;
  - The failure of a public water system to comply with applicable disinfection requirements; or
  - The breakdown of any water treatment or pumping facilities, or the break of any water main, in a public water system if the breakdown or break is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(b), F.A.C.]
- Suppliers of water shall notify affected water customers in writing or via telephone, newspaper, radio, or television; and telephone, and speak directly to a person at, the appropriate DEP District Office by no later than the previous business day before taking PWS components out of operation for planned maintenance or repair work if the work is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the

Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(d), F.A.C.]

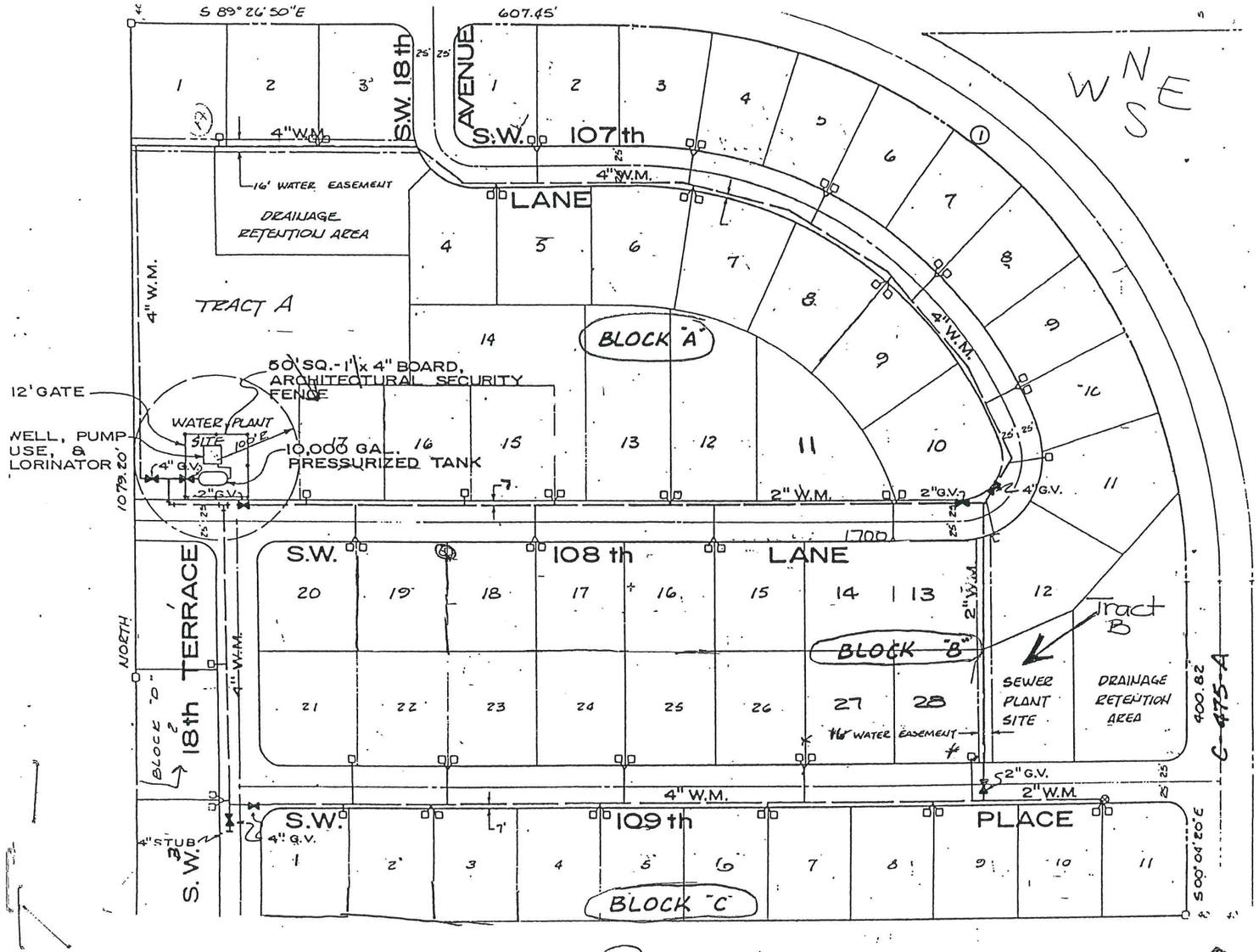
- Suppliers of water shall issue precautionary "boil water" notices as required or recommended in the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(11), F.A.C.]

M E Rothenberger	Daniel K Hall
Inspector Signature	*Reviewer Signature*
Miranda Rothenberger	Daniel K. Hall
Printed Name	*Printed Name*
Environmental Specialist	Environmental Manager
Title	*Title*
11/23/20	December 11, 2020
Date	*Date*

APPENDIX F: DISTRIBUTION MAP

Quail Run

Acct #s 24000



– QUAIL RUN – S/D 10

101

Quail Run



woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Sandy Acres

210 South Florida Avenue | Suite 220
Lakeland, Florida 33801
800.426.4262

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

0233748.01
CSWR
July 2021

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Appendix C: Emergency Response Plan
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APPENDIX A: SOURCE WATER ASSESSMENT & PROTECTION PROGRAM RESULTS

» SWAPP Homepage
» Search By County
» Search by PWS Name or Number
» How to Help?

Definitions

» Aquifers
» Public Water Systems
» Assessment
» Potential Contaminants
» Susceptibility
» Prevention

Contact Us

» Email
» Mailing Address
» Source Water Protection Workshop

EPA Source Water Protection website

Source Water Assessment & Protection Program

Results for: 2019

SANDY ACRES
24901 SE COUNTY HWY 42
UMATILLA, FL 32784

Public Water System ID: 3421118

Previously Known As:
SANDY ACRES (PKA LINADALE)

County: MARION
DEP Regulatory Office: DEP Central District
3319 Maguire Blvd, Suite 232
Orlando, FL 32803
407-897-4100
Public Water System Type : COMMUNITY
Public Water System Source : GROUND
Primary Use: MOBILE HOME PARK
Population Served: 607
Size of Assessment Area:
GROUND: For this system, a 1000-foot radius circle around each well was used to define the assessment area.

Number of Wells: 2

Well ID	Owner ID	FLUWID	Status	Well Depth(ft)	Aquifer
23272	SOUTH WELL #2	N/A	ACTIVE	179	Floridan Aquifer
5667	NORTH WELL #1	AAG9607	ACTIVE	180	Floridan Aquifer

Results:

GROUND WATER:
A search of the data sources indicated no potential sources of contamination.

Last updated: February 19, 2020

Accessibility Information

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Exit Disclaimer
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3900 Commonwealth Boulevard M.S. 49
Tallahassee, Florida 32399
850-245-2118 (phone) /
850-245-2128 (fax)

APPENDIX B: TANK INSPECTION REPORT

INSPECTION AND TESTING of HYDROPNEUMATIC TANK

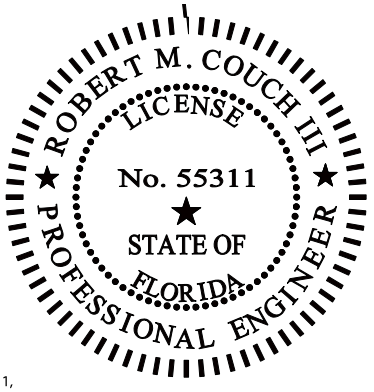
Sandy Acres Subdivision Tank

Pursuant to Chapter 62-555.350 (1) & (2) F.A.C

Water System:	Sandy Acres Subdivision
Street Address:	SE 251st Terrace/SE 170th Street
City, State:	Marion County, Florida
Phone:	352-347-8228
Contact:	Dewaine Christmas
E-mail:	sunshineutl@aol.com
PWS ID No.:	3421118
County:	Marion
Classification:	Community
Source:	Ground
Ownership:	Sunshine Utilities of North Central Florida
Date:	December 13, 2018

Inspection and Testing by:

Robert M. Couch III, P.E.
ENVIRO-TECH, Inc.
PO Box 152
Weirsdale, FL 32195
Telephone: 352-694-1799
E-mail: envirotech@ymail.com



C.O.A. No. 8692 Registration No. 55311

Robert M. Couch III, P.E.

Digitally signed by Robert M. Couch III, P.E.
DN: cn=Robert M. Couch III, P.E., o=ENVIRO-TECH, Inc., ou=Reg. No. 55311, email=envirotech@ymail.com, c=US
Date: 2019.01.27 21:14:28 -05'00'

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1.0 EXECUTIVE SUMMARY

ENVIRO-TECH, Inc. was contracted to perform the five year tank condition inspection on the above mentioned hydro-pneumatic tank.

This condition inspection was performed on December 13, 2018 by Robert M. Couch III, P.E. on the above referenced water tank. The tank was drained and, an internal and external inspection was performed to assess the tank condition as required by the Florida Department of Environmental Protection (FDEP) Rule 62-555.

The tank shell and heads appeared to be in overall good structural condition. Ultrasonic Thickness Measurement (UTM) readings indicated that the average thickness of the tank shell at the time of the field inspection was approximately 5.9 millimeters. UTM readings from the tank heads indicated an average thickness of 5.86 millimeters. The exterior coating of the tank appeared to be in overall fair condition with no notable surface corrosion. The interior coating of the tank appeared to be in fair condition with only slight surface corrosion beginning to form along portions of the tank ridge where the coating was beginning to fail.

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 65 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 60 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

2.0 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS CHAPTER 62-555.350 (1) & (2)

2.1 Operation and Maintenance of Public Water Systems

(1) Suppliers of water shall operate and maintain their public water systems so as to comply with applicable standards in Chapter 62-550, F.A.C., and requirements in this chapter.

(2) Suppliers of water shall keep all necessary public water system components in operation and shall maintain such components in good operating condition so the components function as intended. Preventive maintenance on electrical or mechanical equipment – including exercising of auxiliary power sources, checking the calibration of finished-drinking-water meters at treatment plants, testing of air or pressure relief valves for hydropneumatic tanks, and exercising of isolation valves –shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water; however, in no case shall auxiliary power sources be run under load less frequently than monthly. Accumulated sludge and biogrowths shall be cleaned routinely (i.e., at least annually) from all treatment facilities that are in contact with raw, partially treated, or finished drinking water and that are not specifically designed to collect sludge or support a biogrowth; and blistering, chipped, or cracked coatings and linings on treatment or storage facilities in contact with raw, partially treated, or finished drinking water shall be rehabilitated or repaired. **Finished-drinking-water storage tanks, including conventional hydropneumatic tanks with an access manhole but excluding bladder- or diaphragm-type hydropneumatic tanks without an access manhole, shall be checked at least annually to ensure that hatches are closed and screens are in place; shall be cleaned at least once every five years to remove biogrowths, calcium or iron/manganese deposits, and sludge from inside the tanks; and shall be inspected for structural and coating integrity at least once every five years by personnel under the responsible charge of a professional engineer licensed in Florida.** Dead-end water mains conveying finished drinking water shall be flushed quarterly or in accordance with a written flushing program established by the supplier of water; additionally, dead-end or other water mains conveying finished water shall be flushed as necessary whenever legitimate water quality complaints are received.

2.2 Location of Inspection and Testing Report

Pursuant to Chapter 62-555.350 (2) and 62-555.350 (12) FAC, beginning 28 August 2003, all water systems regardless of size must maintain a copy up-to-date Preventive Maintenance Logs of each water system in the water facility office. The Preventive Maintenance Logs must show the date and type of all maintenance performed and comply with Rule 62-555.350 (2) and 62-555.350 (12), which requires the following:

- Preventive Maintenance Logs on Electrical and Mechanical Equipment
- Cleaning and Inspection Logs of Treatment Facilities and Storage Tanks
- Records of Coatings and Linings Rehabilitation or Repair
- Licensed Engineer Inspection Report (once every 5-years) for Finished-Drinking-Water Storage Tanks and Hydropneumatic Tanks
- Written Flushing Program and Logs showing that Dead-End Water Mains are being flushed at least quarterly
- Isolation Valves Exercise Logs

A copy of this report should be kept with these records.

3.0 HYDROPNEUMATIC PRESSURE TANK INSPECTION AND TEST PROCEDURES

This Inspection and Test Procedures is used as a reference in the overall inspection and testing of this Water System. This procedure is to be updated from time to time to reflect physical and procedural changes to the water system.

Inspection and testing of this tank was conducted by Robert M. Couch III, P.E. with the assistance of Jim Hodges Jr. of Sunshine Utilities of North Central Florida, Inc. The following inspection and testing procedures for hydropneumatic pressure tanks were used:

3.1 Pre-Test Procedures

1. If water service is to be interrupted customers must be notified in advance and if appropriate, boil water notices issued.

2. Turn-off all electrical power to well pumps, air motors, chlorination equipment, etc.

3. Open drain valve to empty tank. This is also a good time to check the valves (exercise them) that isolate the tank to see if they are in fact working as they should. This downtime can also be used to replace a valve if needed.

4. Once depressurized, the site glass is inspected for proper operation.

5. Once the tank is drained, the manway (hatch) will need to be removed for inspection of the interior.

3.2 Visual Inspection

6. Perform visual inspection of the tank exterior and accessories for presence of leaks, shell distortion, signs of settling, deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, accessories, etc.

7. Tank layout and physical measurements

8. Color photographs of the tank exterior and all of the essential appurtenances

9. Perform visual inspection of the tank interior for presence of deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, bio-growths, calcium or iron/manganese deposits, sludge, etc.

3.3 Nondestructive Examination

10. The tank interior coating is then examined for dry film thickness (See PosiTest® DFT Coating Thickness Gauge measurement) or equivalent.

11. The tank exterior is then examined for thickness measurements (See Smart Sensor AR 850+ Ultrasonic Thickness Gauge measurement).

12. If deemed necessary, the tank exterior (or interior) is then examined for porosity, pinholes and leaks (See PCWI porosity detection test, also known as holiday detector test).

3.4 Post-Test Procedures

13. Any coating problems detected should be corrected while the tank is out of service in order to avoid further extensive downtime.

14. Once the tank is inspected and all maintenance items are taken care of, the tank will need to be disinfected prior to placing back in use.

15. Once the tank has been disinfected, bacteriological tests must be performed on water samples (2 per FDEP) taken from the tank discharge. FDEP to clear for service prior to placing back in service.

3.5 Safety of Test Area

The test area should be restricted and barricaded. The porosity testing instrument output can be up to 20,000 volts. Testing should be carried out well clear of personnel not involved in the testing procedure. Should accidental contact be made with the test electrode, the recipient will receive a mild shock. This equipment should never be used by a person with a pacemaker.

4.0 TEST EQUIPMENT DESCRIPTIONS

4.1 AR 850+ Ultrasonic Thickness Gauge



The Smart Sensor AR 850+ Digital Ultrasonic Thickness Gauge is an economical, user-friendly, menu driven, and multi-functional unit offering extensive features from basic measurements to extended memory. This dynamic series of UT gauges is designed to measure the thickness of metallic and non-metallic materials such as steel, aluminum, titanium, plastics, ceramics, glass and any other good ultrasonic wave conductor as long as it has parallel top and bottom surfaces. The AR 850+ gauges will accurately display readings in millimeters after a simple calibration to a known Thickness or sound velocity.

4.1.1 Features

- Main Unit
- Transducer 5 MHz / 2.5 MHz
- Integrated steel calibration plate 4.0mm
- Batteries (2 x AAA)
- Ultrasonic Couplant
- Operation Manual
- Certificate
- Carrying Case
- One Year Warranty

4.1.2 Technical Specification

Display Type	4-digit LCD
Display Resolution	(<100 mm) 0.1 mm
Units	Metric
Measuring Range (steel)	1.2 to 220.0 mm
Sound Velocity Range	1000 to 9999 m/s
Operating Temperature	0 ° C +45° C
Frequency	5 MHz
Power Source	3 X 1.5V AAA batteries
Dimensions	70x145.5x28 mm

4.2 Compact DC Inspector Porosity Detector



Porosity detection of Tanks, Valves, Pumps, Pipeline field joints, and general inspection and maintenance. Suitable for a broad range of testing and inspection requirements. It is recommended that the integral probe be limited to a 125mm flat brush or fan brush.

4.2.1 Standards

ASTM G62-87(1998), ASTM D4787-93(1999), NACE RP0274-98, NACE RP0490-2001, NACE RPO188- 99, JIS G-3491, JIS G-3492, ANSI/AWWA C214-89, ANSI/AWWA C213-94 and ISO 2746:1998

4.2.2 Features

- LED bar graph display of voltage
- "Single" hand-held, lightweight unit for simplicity and ease of operation
- Audible and visual alarms
- LED battery condition indicator
- Integral probe
- Detector
- 7m Earth lead and clamp
- Flat 125mm wide brass wire brush (or optional fan brush)
- Carry Case
- Operating instructions with conformance certificate
- Variable output up to 10kV or Variable output up to 20kV

4.2.3 Technical Specifications

Test Voltage	to 10kV (using 9V Battery)
Output Test Current	up to 100µA
Operating Temperature	-20 to +50ºC
Power Supply	Battery (9V internal)
Unit Dimensions	210 x 75 x 35mm (excl brush) 8.25" x 3.1" x 1.5"
Unit Weight	460g (incl probe)
Shipping Weight	1.5Kg

4.3 PosiTest DFT Coating Thickness Gauge



The new PosiTest DFT Coating Thickness Gauge measures coatings on ALL metals. It is the economical choice that retains the uncompromising quality of Qualitest inspection instruments.

Available in two models:

- PosiTest DFT Ferrous - measures non-magnetic coatings on steel.
- PosiTest DFT Combo - measures both non-magnetic coatings on steel and non-conductive coatings on aluminum, brass, etc. Automatically recognizes the substrate and takes a measurement.

4.3.1 Standards

ASTM B244/B499/B659/D1186/D1400/E376/G12, BS3900-C5, SSPC-PA2, ISO 2178/2360/2808, prEN ISO 19840, and others. Certificate of Calibration traceable to NIST available.

4.3.2 Features

- Fast, repeatable measurements
- No calibration required for most applications
- ZERO feature for rough or curved surfaces
- Handy RESET feature when no zero reference is available
- Strong, wear resistant, ruby-tipped probe
- Audible and visible measurement indication
- V-groove in probe for positioning on cylindrical parts
- Mils/Microns switchable
- Basic instructions on the back of each gauge

4.3.3 Technical Specifications

Measurement Range	0-40 mils (-1000 µm)
Accuracy	±(0.1 mils + 3%) (±(2µm + 3%))
Size	4 x 1.5 x 0.9 in (100 x38 x 23 mm)
Weight	2.5 oz (70 g)



5.0 HYDROPNEUMATIC PRESSURE TANK DESCRIPTION

The hydropneumatic pressure tank inspected and tested is described as follows:

Length: 13'-2" (15'-2" including elliptical heads)
Diameter: 5'-0" outside diameter
Volume: 2,000 gallons with elliptical heads
Tank Age: Approximately 30 years
Operating Pressure: 60 psi

6.0 TESTING

6.1 Porosity Testing

The tank surface was not swept with the Compact DC Inspector Porosity Detector during this inspection as no evidence of pin holes was observed throughout the surface of the tank.

6.2 Interior Coating Testing

No dry film thickness readings were taken within the tank interior as the coating had begun to fail along the tank ridge.

6.3 Ultrasonic Metal Thickness Testing

A total of 47 metal thickness readings were taken at various locations on the tank shell and head surface. The average shell reading was 5.90 millimeters in the cylindrical section and 5.86 millimeters in the elliptical heads. Typical industry standard minimum wall thickness for tanks of this size is 1/4" (6.35 mm).

7.0 VISUAL OBSERVATIONS

7.1 Tank Exterior

The exterior of the tank appeared to be in good structural condition.

7.2 Tank Interior

The tank interior appeared to be in fair condition. There was only slight surface corrosion noted along the tank ridge.

8.0 DEFINITIONS

Design Pressure - The maximum design pressure determined from the metal thickness.

Maximum allowable working pressure (MAWP) – Maximum pressure that the pressure tank is capable of safely holding at a design maximum temperature (250ºF).

Operating Pressure - The normal maximum operating pressure of the pressure tank. The normal operating pressure must always be below the MAWP. As a rule of thumb the maximum operating pressure should always be less than the MAWP.

Metal Thickness – The thickness of the pressure tank wall (not including a corrosion allowance) to be used in the pressure calculations.

Design Safety Factor on Metal Tensile Strength – A pressure tank is normally designed with a safety factor of 3 to 4 on the metal tensile strength. All pressure tanks are designed to operate with wall stresses below the yield point of the metal used for fabrication.

9.0 TANK PRESSURE CALCULATIONS

The following formula is found in ASME Section I for determination of MAWP:

For tanks with circumferential stress on (longitudinal joints)

P = SEt/(R+0.6t)
= 60 MPa x 1.0 x 5.90 mm / (756 mm+0.6 x 5.90 mm)
= 0.466 MPa
= 68 psi

When:

t < 0.5R = 0.5 x 756 = 378.05 mm (true) or
P < 0.385SE = 0.385 x 60 x 1.0 = 23.1 MPa (true)

Where:

t = metal thickness (mm) where t = 5.90 mm
R = inside radius of shell course under consideration (mm) = 756 mm
E = joint efficiency for cylindrical or spherical shells = 1.0 for welded tanks and corresponds to a safety factor of 3.5 in the parent metal.
P = maximum allowable working pressure (MPa) where MPa = 145 psi
S = maximum allowable stress value at the operating temperature of the metal = 60 MPa (Safety Factor of 4).

10.0 CONCLUSIONS

Inspection and testing of the Sandy Acres subdivision 2,000-gallon hydropneumatic pressure tank was performed on December 13, 2018. In addition to a visual examination, non-destructive examinations were also made. Non-destructive examinations included ultrasonic measurement of the tank wall thickness and visual inspection for pinholes and leaks. No examination of Dry Film Thickness Measurement (DFTM) of the interior coating was performed as the coating had already begun to fail.

Observations of the tank exterior indicated tank is subject to normal exposure. Observations of tank interior revealed light surface corrosion along the upper ridge portions of the tank interior.

11.0 RECOMMENDATIONS

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 65 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

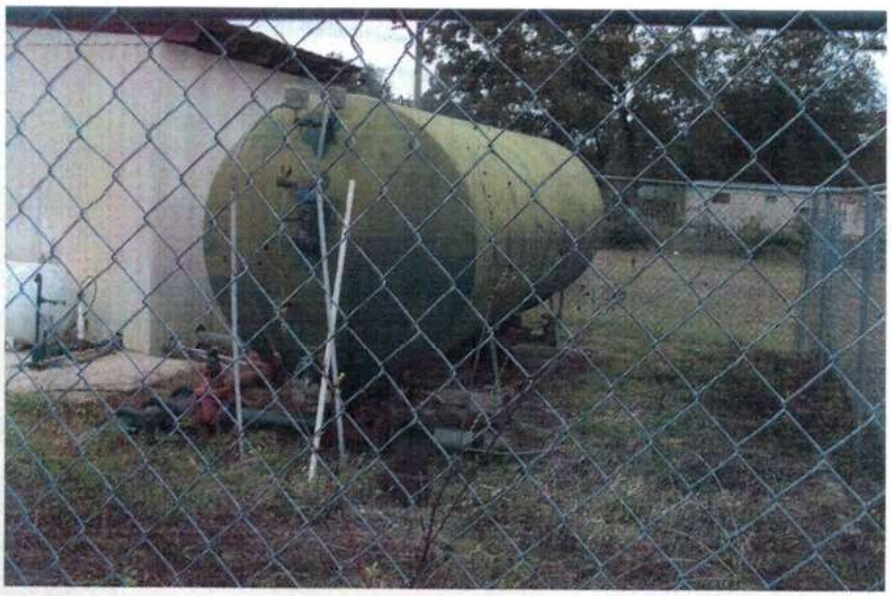
Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 60 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

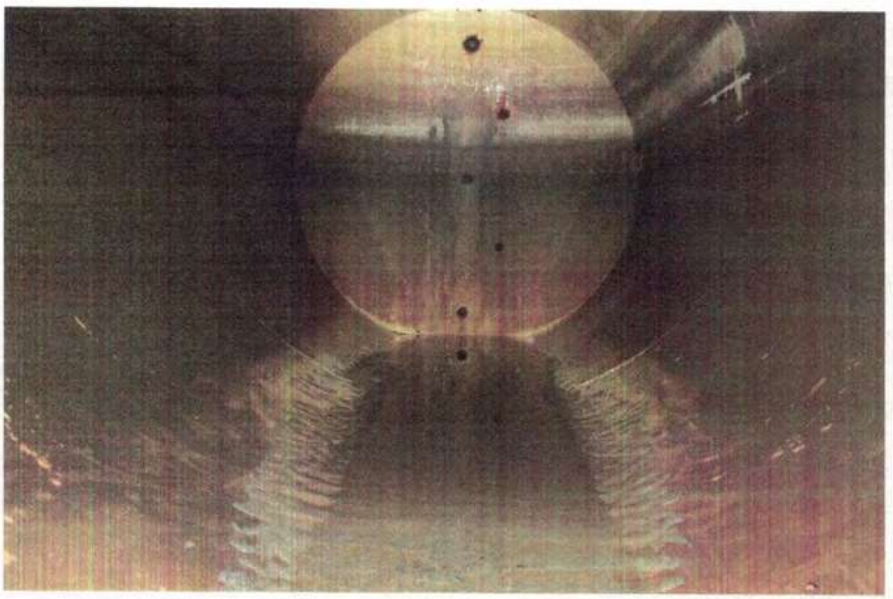
Signed: Robert M. Couch III Date: 1/27/2019

Robert M. Couch III, P.E. Registration No. 55311

Typical exterior and interior views of tank







APPENDIX C: EMERGENCY RESPONSE PLAN

Disaster-Specific Preparedness/Response Plan

for Public Drinking Water Systems

Per Chapter 62-555.350 (15) F.A.C.

Sunshine Utilities

Sandy acres

Address:	10230 East Hwy. 25 Belleview, FL 34420
Phone:	352-347-8228
Fax:	352-347-6915
Contact:	Dewaine Christmas, Manager
E-mail:	SunshineUtl@AOL.COM
Connections:	256
PWS:	3421118
County:	Marion

May 17, 2013

Department of Environmental Protection
Michael D. LeRoy, P.E.
John R. Sowerby, P.E.

FRWA Security Staff
Sterling L. Carroll, P.E.
Ken Klos, P.E.
Coy Donaldson

For more information or additional copies of this document contact:

FLORIDA RURAL WATER ASSOCIATION
2970 Wellington Circle ~ Suite 101 ~ Tallahassee
Telephone: 850-668-2746 ~ Fax: 850-893-4581
e-mail: FRWA@frwa.net

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This template and guide has been developed by the Florida Rural Water Association (FRWA) in collaboration with the Washington State Department of Health, Office of Drinking Water, Olympia, Washington; and reviewed by Florida Department of Environmental Protection.

Acknowledgment of federal government support of this project:

This project and the preparation of this booklet was funded in part by a Water Protection Coordination grant from the Environmental Protection Agency through an agreement/contract with the Drinking Water Program of the Department of Environmental Protection. Total cost of the project was $3,000 of which $3,000 or 100 percent, was provided by the U.S. Environmental Protection Agency.

Preface
Chapter 62-555.350 (15) FAC

Disaster-Specific Preparedness/Response Plans

(15) Suppliers of water who own or operate a community water system serving, or designed to serve, 350 or more persons or 150 or more service connections shall develop a written emergency preparedness/response plan in accordance with Emergency Planning for Water Utilities, AWWA Manual M19, as adopted in Rule 62-555.335, F.A.C., by no later than December 31, 2004, and shall update and implement the plan as necessary thereafter. Said suppliers of water shall coordinate with their Local Emergency Planning Committee and their Florida Department of Law Enforcement Regional Security Task Force when developing their emergency plan and shall include in their plan all of the information in paragraphs (a) through (e) below.

(a) A Communication Charts as described in Chapter 5 of AWWA Manual M19.

(b) Written agreements with other agencies, utilities, or response organizations.

(c) A disaster-specific preparedness/response plan as described in Chapter 5 of AWWA Manual M19 for each of the following disasters: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release. Each disaster-specific preparedness/response plan shall incorporate the results of a vulnerability assessment; shall include actions and procedures, and identify equipment, that can obviate or lessen the impact of such a disaster; and shall include plans and procedures that can be implemented, and identify equipment that can be utilized, in the event of such a disaster.

(d) Details about how the water system meets the standby power requirements under subsection 62-555.320(14), F.A.C., and, if applicable, recommendations regarding the amount of fuel to maintain on site, and the amount of fuel to hold in reserve under contracts with fuel suppliers, for operation of auxiliary power sources.

(e) If applicable, recommendations regarding the amount of drinking water treatment chemicals, including chemicals used for regeneration of ion-exchange resins or for onsite generation of disinfectants, to maintain in inventory at treatment plants.

Specific Authority 403.861(9) FS. Law Implemented 403.852(12), 403.853(6), 403.861(17) FS. History-New 11-19-87, Formerly 17-22.650, Amended 1-18-89, 1-1-93, Formerly 17-555.350, Amended 8-28-03.

Time Extension for Submitting/Completing ERP – December 31, 2005

From: Hoofnagle, Van
Sent: Thursday, October 21, 2004 11:25 AM
Subject: Time Extension for Submitting/Completing ERP
Importance: High

I am sending this e-mail because of possible confusion in some FDEP District Offices or ACHDs regarding the deadline for compliance with the emergency preparedness/response plan requirements in FAC subsection 62-555.350(15).

As John Sowerby and other staff mentioned during Focus On Change presentations early this year on FAC Rule 62-555.350 and during training this summer on the recent amendments to FAC Chapter 62-555, the FDEP intends to amend FAC subsection 62-555.350(15) to give all affected community water systems (i.e., all community water systems serving 350 or more persons or 150 or more service connections) **until the end of 2005** instead of the end of this year to complete a comprehensive emergency preparedness / response plan as required by FAC subsection 62-555.350(15). At this point, it will likely be after the end of this year before we officially make this change to FAC subsection 62-555.350(15). In the meantime, please do not take any enforcement action against

community water systems who fail to meet the 12/31/04 deadline in FAC subsection 62-555.350(15). Thanks.

Van Hoofnagle
DEP Drinking Water Administrator

Section 1
Communication Charts

The first response step in any emergency is to inform the person at the top of this list, who is responsible for managing the emergency and making key decisions. List the water system chain of command in order of contact.

Water System Chain of Command – Lines of Authority

Order	Name & Title	Responsibilities During an Emergency	Contact Information
1	Dewaine Christmas Manager	Responsible for overall management and decision making. The manager is the lead for managing the emergency and providing information to regulatory agencies. All communications to external parties are to be approved by the manager.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl@AOL.Com
2	James Hodges Jr. Field Supervisor	Responsible for decision making in the field. In charge of overall maintenance, and repairs to all components of water system.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl @AOL.Com
3	Kelvin Edun Water Treatment Plant Operator	Responsible for running water treatment plant, performing inspections, maintenance, sampling and relaying all critical information to Field Supervisor.	Phone: Cell: 352-875-5141 Email:
4	Pamela Christmas Office	Responsible for assisting the manager in administrative duties and emergencies.	Phone: 352-347-8228 Cell: 352-245-4743 Email:
5			Phone: Cell: Email:
6			Phone: Cell: Email:
7			Phone: Cell: Email:

Emergency Notification

Notification call-up lists - Use these lists to notify important parties of an emergency.

Emergency Notification List

Organization or Department	Name & Position	Telephone	Cell Phone	e-mail
State Warning Point	**Duty Officer**	**800-320-0519**	800-320-0519	N/A
Local Law Enforcement	EOC Commander	352-622-3205		Pstefanski@sheriff.marioncountyfl.org
Fire Department		911		
Emergency Medical Services		911		
Water Operator (if contractor)	Kelvin Edun Operator	352-875-5141		
County Health Department	Tom Moore Director of Environmental Health	352-622-7744	352-266-7486	
DEP District Office	Manny Cardona	407-897-4134	Fax 407-893-4418	
County Emergency Management Dept.	Chip Wildy	352-622-3205		
Local Leader (City Mgr., Mayor, Chair. Co. Comm., etc.)				
Local Hazmat Team (if any)		911		
Hazmat Hotline		911		
National Spill Response Center.	Duty Officer	800-424-8802	800-424-8802	N/A
Interconnected Water System(s)				
Neighboring Water System (not connected)				
FRWA Water Circuit Rider	Tom Gustafson	850-668-2746	352-267-1302	

Priority Customers

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Hospital Or Clinic(s)				
Nursing Home(s)				
Public Schools				
Private Schools				
Wastewater Treatment Plant				
Food Processing Or Other Industry				

Service / Repair Notifications

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Electric Utility Co.	SECO	352-237-4107		
Electrician	Melville Electric	352-245-0600		
Gas / Propane Supplier	Belleview Gas	352-245-6055		
Water Testing Lab.	Aqua Pure Lisa Saupp	352-625-2822		
Sewer Utility Co.				
Telephone Co.	Sprint	800-788-3600	611	
Plumber	ACP	352-427-7036		
Pump Supplier	Coast Pump	352-620-0616	352-266-4277	Coastpumpocal@hotmail.com
"Dig Safe" or "One Call"	Sunshine One Call	800-432-4770		
Rental Equip. Supplier	B&M Rental	352-245-3133	352-245-9800	

Service / Repair Notifications				
Organization Or Department	**Name & Position**	**Telephone**	**Cell Phone**	**email**
Chlorine Supplier	Custom Controls	352-622-9244	352-304-0572	
Other Chemical Suppliers				
Radio/SCADA Repair Co.				
Bottled Water Service				
Bulk Water Supplier				
Well Drilling Co.	Earls Well Drilling David Moffitt	352-245-2324	352-817-0502	
Pipe Supplier	National Water Works Roy Sands	352-351-8144	352-266-4705	

Designated Public Spokesperson and Alternates

Designate a spokesperson (alternates) for delivering messages to the news media & public

Public Spokesperson	Name & Position	Telephone	Cell Phone
Spokesperson	Dewaine Christmas Manager	352-347-8228	352-239-1198
Alternate 1	James Hodges Jr. Supervisor	352-347-8228	352-239-1197
Alternate 2			

Key Messages

Develop possible messages in advance, and update them as the emergency develops
▪ We are aware of the emergency and are working diligently to restore your water service.
▪ If you fall under a boil water notice you must bring water to a rolling boil for a period of at least one minute. You only have to boil water for human cunsumption.

▪

Health Advisories – Boil Water Notices

Use the assistance of your County Health Department and/or District FDEP office, and FDEP's Mandatory Health Effects Language, located on FDEP's website at:

http://www.doh.state.fl.us/environment/water/manual/boil.htm

http://www.DEP.state.fl.us/water/drinkingwater/rules.htm,

and click on "Mandatory Health Effects Language"., PLUS EPA's templates at:

http://epa.gov/safewater/pn.html

Click on "Microsoft Word and Word Perfect files of PN templates" (PN means Public Notifications), then determine which "Tier" of notifications is needed and click on the desired software to receive them in.

Section 2
Written Agreements With Other Agencies, Utilities, or Response Organizations

INSERT BELOW information regarding any written agreements with other agencies, utilities, or response organizations, such as emergency interconnects, mutual aid or FlaWARN.

Emergency Interconnect(s)

Information on the location of interconnection(s) (if any), type and size of interconnecting pipe, pumps and accessory equipment, meters at interconnection(s), normal pressures at both ends of interconnection, volume of water from interconnection(s), type of agreement and approvals needed for use, procedures necessary to use interconnection, etc.

Location (Street)	
Location (GPS)	
Description	

Memoranda of Understanding

Organization	
Summary of Understanding	

Mutual Aid Agreements

Organization	Marion Utilities, 352-622-1171
Summary of Understanding	Will render mutual aide – ie: pumps, generators, and other materials necessary to restore water service.

FlaWARN

Organization	
Summary of Understanding	

Section 3
Disaster-Specific Preparedness/Response Plan

Your disaster-specific preparedness/response plan must include a Vulnerability Assessment and preparedness / response plans for: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release.

In any event there are a series of general steps to take:

1. Confirm and analyze the type and severity of the emergency.
2. Take immediate actions to save lives.
3. Take action to reduce injuries and system damage.
4. Make repairs based on priority demand.
5. Return the system to normal operation.

Vulnerability Assessment

It is essential that water systems identify and assess the vulnerability of each system component for both natural and human-caused emergencies, before preparing their disaster-specific preparedness/response plans. Prepare your Vulnerability Assessment by completing the table below:

Facility Vulnerability Assessment

System component	Description and condition	Vulnerability	Security improvements (indicate existing or proposed)
Raw Water Sources	(2) 6" groundwater wells located several hundred feet from homes. Wells are in good condition. We have wellhead protection in place.	The wells are most vulnerable to above ground activities because they are only 180 and 179 FT deep.	1.Purchase land surrounding well. 2. Secure well house to foundation and install lighting around well house.
Pump-house and pumping facilities	The pump-house and pumping facility are in good condition.	Pump location is fully fenced with a locked gate.	Install tamper proof padlocks.
Treatment Facilities	There is a hypo-chlorination system inside of pump house. System is in good condition.	Chlorination systems are not subject to power outages.	There is a backup generator on site in compliance with CH. 62-555.320(14)FAC
Storage Facilities	Hydro pneumatic tank is fenced in good condition.	Tank is not in a lighted area.	Install lighting in area of tank.
Computer and telemetry systems	Computers are in utilities main office and are in good condition.	Computers should be better protected against cyber attack or hacking.	Secure computers with firewalls & virus protection.

A. Vandalism or Sabotage Response Procedures

1. Utility staff first aware of incident:
    a) Calls 9-1-1/ Local Law Enforcement.
    b) Calls Manager
2. Manager determines severity of incident.
    a) Field supervisor determines if vandalism or sabotage will effect the water quality.
    b) Manager reports incident to the state warning point.
3. Field supervisor directs repairs as needed.
    a) Complete repairs
    b) Update ERP as needed.

B. Drought Response Procedures

Include water use restrictions per Consumptive Use Permit

1. Manager coordinates with the local Water Management District (WMD) regarding drought conditions.
    a) If drought conditions exist, a water conservation plan will be initiated.
    b) Literature will be distributed to customers regarding the drought.
    c) Conservation material will be distributed to customers on conservation measures.
    d) Customers not abiding by restrictions will be reported to WMD.
    e) Manager updates ERP as needed.

C. Hurricane Preparedness & Response Procedures

Pre- Hurricane **(36 to 48 hrs prior to arrival)**	1. Manager coordinates with local EOC. 2. Field supervisor checks operation of standby power. 3. Field supervisor secures fuel and treatment chemicals for a 10 day period. 4. Manager replenishes inventory of spare parts.
Hurricane Watch **(24 to 36 hrs prior to arrival)**	1. Manager cancels all time off for employees. 2. Manager issues work assignments in advance in case of communication loss. 3. Employees all top off fuel in vehicles & standby generators. 4. Manager authorizes employees to secure their personal property and arrange for the safety of family members.
Hurricane Warning (24hrs or less prior to arrival)	1. Employees report to designated areas and wait for instructions. 2. Employees load truck with supplies. 3. Employees follow evacuation protocol.
Recovery Procedures	1. Manager coordinates with local EOC. 2. Manager issues boil water notices if needed. 3. Field supervisor coordinates repairs. 4. Manager makes contact with the appropriate DEP office. 5. After repairs are completed samples are taken. 6. When samples come back clear – boil water notice is lifted. 7. Manager files all malfunction reports with the DEP. 8. Field supervisor inspects all systems to make sure everything is running smooth.

D. Structure Fire Response Procedures

1. Utility staff discovering fire:
    a) Evacuate structure on fire.
    b) Call 9-1-1
2. Manager determines severity of incident.
    a) Manager contact State Warning Point.
    b) Field supervisor coordinates repairs when fire is extinguished.
3. Field supervisor reports to manager when repairs are complete.
    a) Manager reports completion of all repairs to any Gov. agency.
    b) Manager updates ERP as needed.

E. Flood Preparedness & Response Procedures

(Is any critical part of your system in a flood prone area?)

None of our systems are in a flood prone area.

F. Forest or Brush Fire Response Procedures

(Is any critical part of your system subject to forest or brush fires?)

1. Utility staff discovering fire.
    a) Orders evacuation of any threatened buildings.
    b) Calls 9-1-1 to report fire.
2. Manager determines the severity of fire.
    a) Manager contacts the State Warning Point.
    b) Field supervisor inspects for any damage and coordinates repairs after fire is extinguished.
3. Field supervisor reports to manager that all repairs are complete.
    a) Manager updates the ERP as needed.
    b)

G. Hazardous Material Release Response Procedures

Do you have any hazardous material (chlorine gas) at your water system?

We have no Hazardous materials at any of our water systems.

H. Other Disaster Response Procedures

Are there other disasters that you want to prepare for, such as a Contamination event, SCADA Attack, or Structural Damage from an Intentional Act?

Contamination

1.
   a)
   b)
2.
   a)
   b)

SCADA Attack

1.
   a)
   b)
2.
   a)
   b)

Structural Damage from an Intentional Act

1.
   a)
   b)
2.
   a)
   b)

Section 4
Standby Power Requirements

Include details about how the water system meets the standby power requirements as described in Ch. 62-555.320(14), and 62-555.350(15)(d) FAC for water source, treatment, and pumping facilities necessary to deliver drinking water at a rate at least equal to the Average Daily Water Demand.

Standby Power for Wells or Surface Water Intakes

Standby Power (or by alternate means) to OPERATE WELLS at Average Daily Demand

Average Daily Demand (ADD) in gpd or gpm	80677 gpd
Wells Needed to Supply Average Daily Demand	1
Standby Generator (kW) Needed for ADD &	15 KW
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	We will have reserve fuel in the case of an emergency.

Standby Power for Treatment Facilities

Standby Power (or by alternate means) to TREAT WATER at Average Daily Demand

Treatment Units Needed to Supply ADD	
Standby Generator (kW) Needed to Treat ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Standby Power for Pumps

Standby Power (or by alternate means) to PUMP WATER at Average Daily Demand

Pumps Needed to Supply ADD	
Standby Generator (kW) Needed to Pump ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Section 5
Drinking Water Treatment Chemicals & Disinfectants

Include recommendations regarding the amount of drinking water treatment chemicals, to maintain in inventory at treatment plants. Do not just list chemical storage capacity, but instead recommend the minimum amount of chemicals to maintain in inventory, which depends upon the location and reliability of chemical suppliers, the status of impending disasters, etc.

Disinfection Treatment Information

Disinfection Chemical(s)	Chemical / Location No. 1	Chemical / Location No. 2
Type of Chemical	Chlorine	
Type of Chemical Feed	Hypo-Chlorinator	
Chemical Storage Location	On site in the pump house.	
Recommended Minimum Amount to be Maintained in Storage (gal)	55 gallons	

Other Chemical Information

Chemical(s) Used	Chemical #1	Chemical #2	Chemical #3	Chemical #4
Type of Chemical				
Type of Chemical Feed				
System Location				
Chemical Storage Location				
Recommended Minimum Amount to be Maintained in Storage (gal)				

Appendix A
Basic System information

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Keep this basic information readily available for when you need it for emergency responders, repair people, the news media and potentially, an emergency operator.

Basic System Information

GPS coordinates will help emergency crews find your system following a major catastrophe.

System identification number (PWS ID)	**3421118**	
System name and address	**Sandy Acres**	
GPS Coordinates	Latitude:	Longitude:
Basic description and location of system facilities	**16968 SE 251st Terr**	
Population served and service connections.	Population =	Connections = 256
System Owner	**Sunshine Utilities of Central Florida, Inc.**	
Management Authority	**Owner and Manager**	
Name, title, and phone numbers of person responsible for maintaining and implementing the ERP.	**Dewaine Christmas** **Manager**	**352-347-8228 phone** **352-239-1198 cell**

System Demand

Demand based on Monthly Operational Records and system capacity based on Sanitary Survey.

Average Daily Demand (gpd)	80677 GPD
Maximum Daily Demand (gpd)	90000 GPD
System Capacity (gpd)	230,000 GPD
Peak Hour Demand (gpm)	N/A

Location of Pertinent Information

Item	Location
Distribution System Map	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
O&M Manual(s)	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
Start-Up / Shut-Down Procedures	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.

Well Information

GPS coordinates will help emergency crews find wells following a major catastrophe.

Well Information	Well No. 1	Well No. 2	Well No. 3	Well No. 4
GPS well tag #				
Location (street)	16968 SE 251st Terr	16968 SE 251st Terr		
GPS Coordinates	Lat: Long:		Lat: Long:	Lat: Long:
Well Depth (ft)	180FT	179 FT		
Well Yield (gpd)	331,200 GPD	128,160 GPD		
Pump Type	Submersible	Submersible		
Manufacturer	Sta-Rite	Sta-Rite		
Capacity (gpm)	230 GPM	89 GPM		
Motor Manufacturer	Franklin	Franklin		
Horsepower	15 HP	5		
Phase	3	1		
Volts/Amps	230 volts	230 Volts		

Surface Water Sources

GPS coordinates will help emergency crews find surface water intakes following a major catastrophe.

Surface Water Information	Intake No. 1	Intake No. 2
Location (Street / Description)		
GPS Coordinates	Lat: Long:	Lat: Long:
Critical Water Level		

Finished Water Storage

GPS coordinates will help emergency crews find tanks following a major catastrophe.

Name of Storage Unit	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Location (Street)				
Location (GPS)	Lat: Long:	Lat: Long:	Lat: Long:	Lat: Long:
Type (ground, elevated, etc.)				
Capacity (gal)				
Empty Elevation				
Overflow Elevation				

High Service Pumps

HSP	HSP No. 1	HSP No. 2	HSP No. 3	HSP No. 4
Location (street)				
Pump Type				
Manufacturer				
Capacity (gpm)				
Motor Manufacturer				
Horsepower				
Phase				
Volts/Amps				

Other Applicable Information

Appendix B
Training and Rehearsals

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Event	Description	People & Organizations Involved	Date

Appendix C
Plan Approval

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Plan Approval

This plan is officially in effect when reviewed, approved, and signed by the following people:

Name / Title	Signature	Date
Hodges Family Trust		

APPENDIX D: CONSUMER CONFIDENCE REPORT

Certification of Delivery of Consumer Confidence Report

GENERAL INSTRUCTIONS: This form shall be completed by all community water systems (CWSs) that have prepared a Consumer Confidence Report (CCR) in accordance with Rule 62-550.824, F.A.C., Consumer Confidence Reports. At the end of this form is a certification in which a system's authorized representative shall certify that the reported information is accurate and is in conformance with Rule 62-550.824, F.A.C. **COMPLETE THIS FORM AND SUBMIT IT BY AUGUST 10,** together with a copy of your system's CCR, sample email or water bill (with URL notification of CCR, if applicable), and any newspaper notice(s) and posted notice(s) of your CCR, to the appropriate DEP district office or Approved County Health Department (ACHD). Systems serving 100,000 or more persons posting their CCRs on publicly accessible Internet sites shall provide the information on the appropriate Internet link(s). All information provided on this form must be typed or printed in ink.

I. General Water System Information. (To be completed by all community water systems.)

System name: Sandy Acres Contact person: Dewaine Christmas

PWS Identification number (PWS ID): 3421118 Contact phone number: (352)347-8228

Mailing address: 10220 East Hwy 25 City: Belleview

State: Fl Zip: 34420-5531 Population served (not the number of "service connections"): _____

II. CCR Distribution Method. (To be completed by all community water systems. Choose A or B as appropriate.)

☐ A. We mailed, emailed, or otherwise directly delivered a copy of our CCR to each customer on _____ (enter date(s) of mailing or delivery) using the method(s) checked below:

- ☐ a. **Mailed** CCR
- ☐ b. **Mailed** notice (e.g. water bill) with **direct URL** to the CCR
- ☐ c. **Emailed** CCR as an **embedded** image or as an **attachment**
- ☐ d. **Emailed** notice with a **direct URL** to the CCR
- ☐ e. **Otherwise directly delivered** CCR to every customer. Explain: _____

☑ B. We were eligible to use a mailing waiver and used a mailing waiver. (Systems are eligible to use a mailing waiver only if they serve fewer than 10,000 persons, have not had any MCL or monitoring and reporting (M/R) violations, nor have been issued any formal Notices of Violations (NOVs), Consent Orders, Administrative Orders, or court-ordered civil actions during the calendar year before the year the CCR is due to the customers).

Answer a, b, **and** c below.)

- ☐ a. Date of newspaper: _____
- ☐ b. Name of newspaper/newsletter that published our CCR: _____
- ☑ c. A copy of our notice to customers, informing them that our CCR will not be mailed to them, is attached.

This notice was: ☑ mailed with bill; ☐ published in newspaper/newsletter; or ☐ other (describe)

_____

III. Posting of CCR on the Internet. (To be completed by all CWSs serving 100,000 or more persons.)

We posted our CCR on this publicly accessible internet site: _____

IV. Report on Your Effort to Distribute Your CCR to Your Water Consumers. (To be completed by all CWSs. Check all items that apply - at least one item must be checked.)

In addition to the methods selected in Part II,

■ A. We posted our CCR on this publicly accessible internet site: www.sunshineutilities.org

☐ B. We published our CCR in the local newspaper(s). The name(s) and date(s) of the newspaper(s) are:

_____

RECEIVED
JUL 10 2020
DEP

☐ C. We advertised the availability of our CCR as a press release, radio announcement, or TV announcement. The type(s) and date(s) of the advertisement(s) are: _____

☐ D. We delivered multiple copies of our CCR to single bill addresses serving several persons.

☐ E. We delivered multiple copies of our CCR to the following community organizations:

_____

☐ F. Our CCR was posted in the following public locations: _____

_____

■ G. Our CCR was distributed by other methods (e.g., additional copies placed in entrance hall to facility). Describe.

Additional copies available at Sunshine Utilities Office

V. Use of Non-English Language in CCR. (To be completed by all community water systems.)

☐ Information in a non-English language was included in our CCR because 20% or more of our customers do not speak English but speak _____. The method we used to determine the proportion of non-English speaking customers is _____

■ This requirement does not apply to our system, because we have no non-English speaking group among our customers equal to or exceeding 20% of our total number of customers.

VI. Other Delivery Requirements. (To be completed by all community water systems.)

(A) Was a copy of your CCR sent to your county health department, as required by rule? ■ Yes ☐ No

(B) Is your system regulated by the Public Service Commission (PSC)? ☐ Yes ☐ No

If Yes, was a copy of your CCR sent to the PSC, as required by rule? ■ Yes ☐ No

(C) If your system sells water to other systems, have you provided them with either a copy of your CCR or the required consumer confidence information? ■ Yes ☐ No ■ Not Applicable

VII. Certification of Delivery of CCR and Compliance with Regulations. (To be completed by all CWSs.)

This statement certifies that the above named community public water system has distributed its CCR for the time period starting ***January 1, 2019, and ending December 31, 2019,*** to its customers on 6/15/20 (mm/dd/yy) and provided the appropriate notices of availability according to the requirements listed in this form, which are also found in Rule 62-550.824, F.A.C. This statement also certifies that the reported information is correct and consistent with the compliance monitoring data for the same period previously submitted to the Department, and that the report has been delivered to the agencies identified in Rules 62-550.824(3)(e)3., and 4., F.A.C.

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____

NAME (please print): Dewaine Christmas

TITLE: Manager DATE: 6/26/20

■ **A copy of our CCR is attached, and**

☐ **If using electronic delivery, a copy of our sample email or notice (e.g. water bill), with URL leading directly to the CCR and not a general information website, is attached. For example, if you are using the FRWA website to post your CCR, your URL would be:**

www.frwa.net/2012-Your PWSID Number.pdf (www.frwa.net/2012-0000000.pdf).

SUNSHINE UTILITIES
10230 East Highway 25
Belleview, Florida 34420

Drinking Water Quality Report

Annual Drinking Water Quality Report for 2019

Sandy Acres

Florida Department of Environmental Protection Public Water System ID # 3421118

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water.

The source of our water is groundwater from two wells located in the community. The wells draw from the Floridan aquifer, one of the world's most protected sources. Our water is chlorinated for disinfection purposes. In 2019 the Florida Department of Environmental Protection conducted an assessment which identifies potential sources of contamination in the vicinity of our wells. The SWAPP (Source Water Assessment and Protection Program) determined our public water system to have "No Potential Sources of Contamination". You may obtain more information at the web site *www.dep.state.fl.us/swapp*.

If you have any questions about this report or concerning your water utility please contact **Dewaine Christmas, at Sunshine Utilities, (352) 347-8228**, during normal business hours. We encourage our valued customers to be informed about their water utility.

Sunshine Utilities routinely monitors for constituents in your drinking water according to Federal and State laws, rules and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2019. Data obtained before January 1, 2019 and presented in this report are from the most recent testing performed in accordance with the laws, rules and regulations.

WATER QUALITY TEST RESULTS FOR SANDY ACRES

Radioactive Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Radium 226 + 228	(pCi/L)	AUG'15	No	1.5	N/A	0	5	Erosion of natural deposits

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Arsenic	(ppb)	MAY '18	No	0.3	N/A	N/A	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	(ppm)	MAY '18	No	0.011	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride	(ppm)	MAY '18	No	0.15	N/A	4	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum levels between 0.7 and 1.2 ppm
Nitrate (as Nitrogen)	(ppm)	DEC'19	No	0.23	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium	(ppm)	MAY '18	No	5.4	N/A	N/A	160	Salt water intrusion; leaching from soil

Stage 2 Disinfectants and Disinfection By-Products

Disinfectant or Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL or MRDL Violation Yes / No	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine	(ppm)	2019	No	0.8	0.5 - 1.2	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Haloacetic Acids (HAA5)	(ppb)	SEP'19	No	0.91	N/A	N/A	MCL = 60	Byproduct of drinking water disinfection
Total Trihalomethanes (tTHM)	(ppb)	SEP'19	No	1.83	N/A	N/A	MCL = 80	Byproduct of drinking water disinfection

Lead and Copper (Tap Water)

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	AL Violation Yes / No	90th Percentile Result	No. of Sampling Sites Exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper	(ppm)	AUG '18	No	0.035	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

In the table you may find unfamiliar terms abbreviations. To help you better understand these terms we have provided the following definitions (please note not all definitions may pertain to your report):

- Action Level (AL) – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial growth.
- Maximum Residual Disinfectant Level Goal (MRDLG) – The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.
- ND – This abbreviation means not detected and indicates that the substance was not found by laboratory analysis.
- Parts per million (ppm) or milligrams per Liter (mg/L) - one part of analyte (by weight) to 1 million parts of
- water sample (by weight).
- Parts per billion (ppb) or micrograms per Liter (µg/L) - one part of analyte (by weight) to 1 billion parts of water sample (by weight).
- Picocurie per liter (pCi/L) - measure of the radioactivity in water.

What does this mean?

As you can see our system had no violations for water quality. We are very pleased to report that our drinking water met all federal and state requirements,

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Sunshine Utilities is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals, and in some cases radioactive material, and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

A.) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

B.) Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

C.) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

D.) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

E.) Radioactive contaminants, which may be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The FDA (Food & Drug Administration) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care providers about their drinking water. EPA/CDC (Center for Disease Control) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are also available from the Safe Drinking Water Hotline (800-426-4791).

We are committed to ensuring the quality of your water. If you have any questions or concerns about the information provided, please feel free to call the numbers listed.

Sunshine Utilities

10230 East Highway 25, Belleview, FL 34420
Office (352)347-8228 – Fax (352)347-6915

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality of water and services we deliver to you everyday. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

Please follow the link to view your 2019 Annual Water Quality Report.

https://www.sunshineutilities.org/ccr19/2019SandyAcres.pdf

APPENDIX E: SANITARY SURVEY REPORT

FLORIDA DEPARTMENT OF
Environmental Protection

CENTRAL DISTRICT OFFICE
3319 MAGUIRE BLVD., SUITE 232
ORLANDO, FLORIDA 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

February 11, 2021

Dewaine Christmas, Owner
Sunshine Utilities of Central FL, Inc.
10230 SW Hwy 25
Belleview, Florida 34420
sunshineutl@aol.com

Re: Sandy Acres
PW Facility ID #3421118
Marion County

Dear Mr. Christmas:

Department personnel conducted an inspection of the above-referenced facility on February 5, 2021. Based on the information provided during and following the inspection, the facility was determined to be in compliance with the Department's rules and regulations. A copy of the inspection report is attached for your records.

The Department appreciates your efforts to maintain this facility in compliance with state and federal rules. Should you have any questions or comments, please contact Miranda Rothenberger at 407-897-4301 or via e-mail at Miranda.Rothenberger@FloridaDEP.gov.

Sincerely,

Daniel K. Hall, Manager
Central District
Florida Department of Environmental Protection

Enclosure: February 5, 2021 Inspection Report

cc: Miranda Rothenberger, FDEP

State of Florida
Department of Environmental Protection
Central District

SANITARY SURVEY REPORT

Plant Name **SANDY ACRES** County Marion PWS ID # **342118**
Plant Location 24901 SE Highway 42, Umatilla, Florida 32784 Phone 352-347-8228
Owner Name Sunshine Utilities of Central Florida, Inc. Phone 352-347-8288
Owner Address 10230 SE Highway 25, Belleview, Florida 34420
Contact Person Dewaine Christmas Title Owner Phone 352-347-8228
This Survey Date 02/05/2021 Last Survey Date 01/23/2018 Last Compliance Inspection Date 08/08/2001

PWS TYPE: Community

PLANT CATEGORY & CLASS: 5D

MAX-DAY DESIGN CAPACITY: 230,000 gpd

PWS STATUS: Approved

TREATMENT PROCESSES IN USE
Hypochlorination

SERVICE AREA CHARACTERISTICS
Mobile Home Park
Food Service: ☐ Yes ☐ No ☒ N/A

Number of Service Connections 243
Population Served 607 Basis MOR

OPERATION & MAINTENANCE LOG: Yes
Location Water treatment plant
Comments

CERTIFIED OPERATOR: Yes
Operator(s) & Certification Class-Number:
Kelvin Edun C-7459

Hrs/day: *Required* Visit* *Actual* Visit
Days/wk: *Required* 3* *Actual* 3
Non-consecutive Days? ☒ Yes ☐ No ☐ N/A
Comments 3 visits/week on nonconsecutive days for a total of 0.3 hour/week.

MONTHLY OPERATION REPORTS (MORs)
MORs submitted regularly? ☒ Yes ☐ No ☐ N/A
Data missing from MORs? ☒ No ☐ Yes ☐ N/A
Average Day (from MORs) 71,113 gpd
Maximum Day (from MORs) 112,000 gpd 04/2020
Comments

Flow Measuring Device Flow Meter
Meter Size & Type 4" Sensus
Date Last Calibrated 12/04/2018

RAW WATER SOURCE
☒ GROUND; Number of Wells 2
☐ PURCHASED from PWS ID #
☐ Emergency Water Source
Emergency Water Capacity

STANDBY POWER SOURCE: Yes
Source Propane generator
Capacity of Standby (kW) 12
Switchover: ☒ Automatic ☐ Manual
Hrs Operated Under Load 0
What equipment does it operate?
☒ Well Pumps 2
☐ High Service Pumps
☒ Treatment Equipment
Satisfy avg. daily demand? ☒ Yes ☐ No ☐ Unknown
Audio-visual alarm? ☐ Yes ☐ No
Comments

PLANS AND MAPS

Coliform Sampling Plan	☒ Yes	☐ No	☐ N/A
D/DBP Monitoring Plan	☒ Yes	☐ No	☐ N/A
Lead and Copper Plan	☒ Yes	☐ No	☐ N/A
Distribution System Map	☒ Yes	☐ No	☐ N/A
Emergency Response Plan	☒ Yes	☐ No	☐ N/A

Comments

PREVENTIVE MAINTENANCE/O&M

Operation & Maintenance Manual	☒ Yes	☐ No	
Preventive Maintenance Program	☒ Yes	☐ No	☐ N/A
Flushing Program	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A
Isolation Valve Exercise	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A

Comments

CROSS CONNECTION CONTROL
BFPAs None observed # Tested Unknown
WWTP RPZ N/A Date Tested N/A
Written Plan Yes Date Unknown
Comments

PWS ID # 3421118
Date 02/05/2021

GROUND WATER SOURCE

Well Number (Florida Unique Well ID #)		**1(AAG9607)**	**2**		
Year Drilled		1981	1981		
Depth Drilled		180’	179’		
Drilling Method		Cable tool	Cable tool		
Type of Grout		Neat Cement	Neat Cement		
Static Water Level		60’	60’		
Pumping Water Level		Unknown	Unknown		
Design Well Yield		Unknown	Unknown		
Test Yield		Unknown	Unknown		
Actual Yield (if different than rated capacity)		Unknown	Unknown		
Strainer		Unknown	Unknown		
Length (outside casing)		108’	110’		
Diameter (outside casing)		6”	6”		
Material (outside casing)		Black steel	Black steel		
Well Contamination History		None	None		
Is inundation of well possible?		No	No		
6’ X 6’ X 4” Concrete Pad		Yes	Yes		
SET BACKS	Septic Tank	>200’	>200’		
	Reuse Water	N/A	N/A		
	WW Plumbing	>100’	>100’		
	Other Sanitary Hazard	None observed	None observed		
PUMP	Type	Submersible	Submersible		
	Manufacturer Name	Sta-Rite	Sta-Rite		
	Model Number	Unknown	Unknown		
	Rated Capacity (gpm)	230	89		
	Motor Horsepower	15	5		
Well casing 12” above grade?		*No	*No		
Well Casing Sanitary Seal		Yes	Yes		
Raw Water Sampling Tap		Yes	Yes		
Above Ground Check Valve		Yes	Yes		
Security		Yes	Yes		
Well Vent Protection		Yes	Yes		

COMMENTS * The Department will continue to accept the well casing height as it currently exists unless there are signs of microbial or chemical contamination.

PWS ID # 3421118
Date 02/05/2021

CHLORINATION (Disinfection)
Type: ☐ Gas ☒ Hypo
Make Chem-Tech/Uni-Dose Capacity 15/12 gpd
Chlorine Feed Rate 100% / 60%
Avg. Amount of Cl_2 gas used N/A
Chlorine Residuals: Plant 1.41 Remote 1.20
Remote tap location Green acres country store
DPD Test Kit: ☐ On-site ☒ With operator
☐ None ☐ Not Used Daily
Injection Points Prior to hydropneumatic tank
Booster Pump Info
Comments

Chlorine Gas Use Requirements	YES	NO	Comments
Dual System	☐	☐	
Auto-switchover	☐	☐	
Alarms:			
Loss of Cl_2 capability	☐	☐	
Loss of Cl_2 residual	☐	☐	
Cl_2 leak detection	☐	☐	
Scale	☐	☐	
Chained Cylinders	☐	☐	
Reserve Supply	☐	☐	
Adequate Air-pak	☐	☐	
Sign of Leaks	☐	☐	
Fresh Ammonia	☐	☐	
Ventilation	☐	☐	
Room Lighting	☐	☐	
Warning Signs	☐	☐	
Repair Kits	☐	☐	
Fitted Wrench	☐	☐	
Housing/Protection	☐	☐	

AERATION (Gases, Fe, & Mn Removal)
Type Capacity
Aerator Condition
Visible Algae Growth
Protective Screen Condition
Frequency of Cleaning
Date Last Inspected/Cleaned
Comments

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

Tank Type/Number	H	
Capacity (gal)	2,000	
Material	Steel	
Gravity Drain	Yes	
By-Pass Piping	Yes	
Protected Openings	Yes	
Sight Glass or Level Indicator	Yes	
PRV/ARV	PRV	
Pressure Gauge	Yes	
On/Off Pressure	30/50	
Access Secured	Yes	
Access Manhole	Yes	
Tank Sample Tap Location	Discharge piping	
Date of Inspection	12/13/2018	
Date of Cleaning	12/13/2018	

Comments Next tank inspection due in 2023.

HIGH SERVICE PUMPS

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

Comments

DEFICIENCIES:

No deficiencies were noted at the time of this inspection.

MONITORING REMINDER:

- Nitrate and nitrite samples are required to be collected from the point of entry (POE) to the distribution system annually. The 2021 results have not been received, early sampling is recommended.
- The consumer confidence report (CCR) must be delivered to consumers and the Department no later than July 1, 2021, and certification of delivery of the CCR must be submitted to the Department no later than August 10, 2021.
- Monitoring schedules are available on the Central District's Drinking Water site:

https://floridadep.gov/central/central/content/resources-drinking-water-facilities-and-operators-central-district

COMMENTS:

- **Contact FRWA (Florida Rural Water Association) at 850-668-2746, or** frwa@frwa.net, for free technical assistance with your system. FRWA has extended benefits offered to members.
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.

  Checking the calibration of finished-drinking-water meters at treatment plants shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water. [Rule 62-555.350(2), F.A.C.]
- Suppliers of water shall submit written notification to the Department before beginning work or alterations to the public water system. Each notification shall be submitted to the appropriate Department of Environmental Protection District Office or Approved County Health Department and shall include the following: a description of the scope, purpose, and location of the work or alterations; and assurance that the work or alterations will comply with applicable requirements listed in Rule 62-555.330, F.A.C. Suppliers of water may begin such work or alterations 14 days after providing notification to the Department unless they are advised by the Department that the notification is incomplete or that a construction permit is required.
- Suppliers of water shall telephone the SWO at 1-800-320-0519 immediately (i.e., within two hours) after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving a public water system. [Rule 62-555.350(10)(a), F.A.C.]
- Suppliers of water shall telephone, and speak directly to a person at, the appropriate DEP District Office as soon as possible, but never later than noon of the next business day, in the event of any of the following emergency or abnormal operating conditions:
  - The occurrence of any abnormal color, odor, or taste in a public water system's raw or finished water;
  - The failure of a public water system to comply with applicable disinfection requirements; or
  - The breakdown of any water treatment or pumping facilities, or the break of any water main, in a public water system if the breakdown or break is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(b), F.A.C.]
- Suppliers of water shall notify affected water customers in writing or via telephone, newspaper, radio, or television; and telephone, and speak directly to a person at, the appropriate DEP District Office by no later than the previous business day before taking PWS components out of operation for planned maintenance or repair work if the work is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the

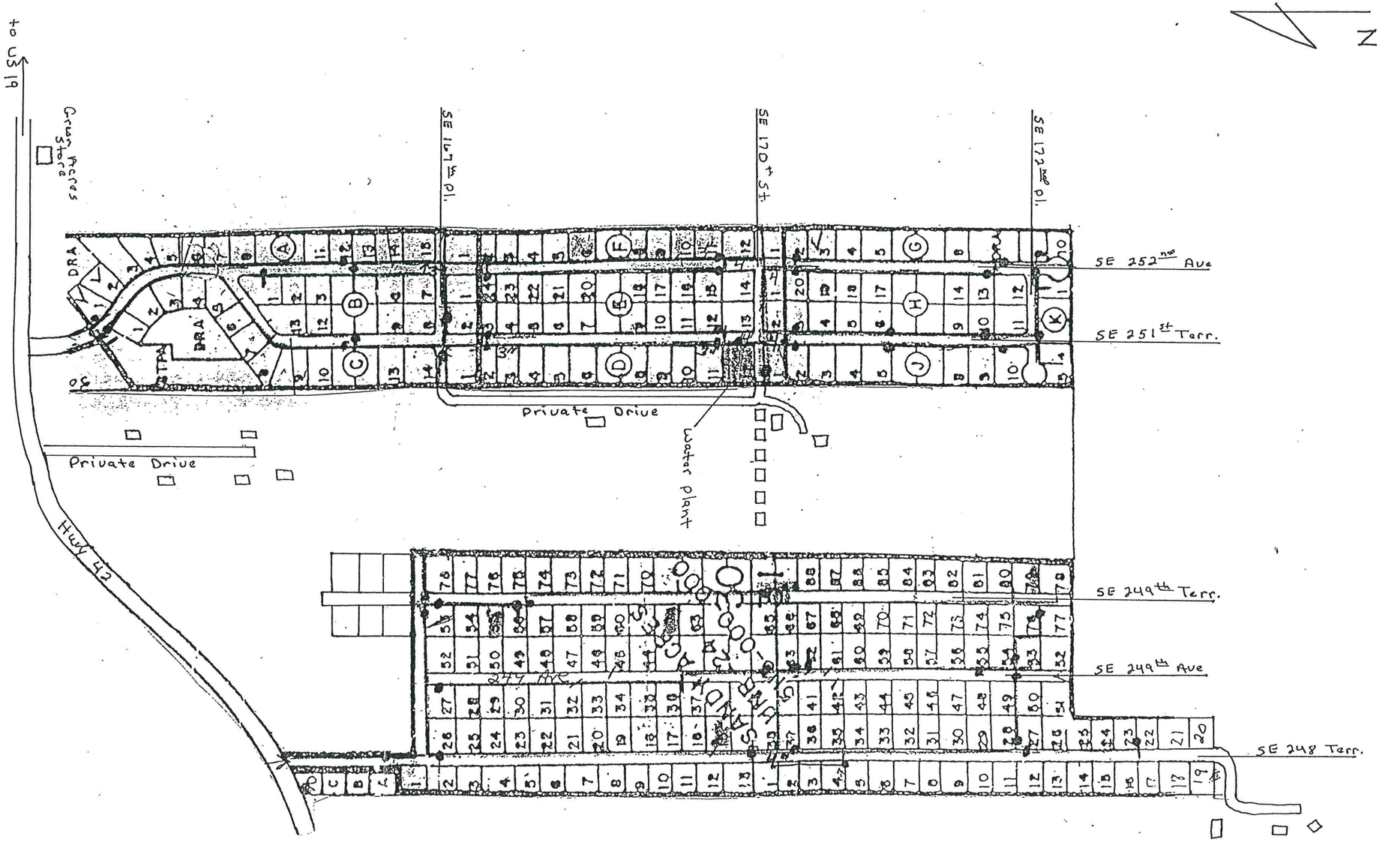
Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(d), F.A.C.]

- Suppliers of water shall issue precautionary “boil water” notices as required or recommended in the Department of Health’s “Guidelines for the Issuance of Precautionary Boil Water Notices” as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(11), F.A.C.]

M E Rothenberger	Daniel K Hall
Inspector Signature	*Reviewer Signature*
Miranda Rothenberger	Daniel K. Hall
Printed Name	*Printed Name*
Environmental Specialist	Environmental Manager
Title	*Title*
02/10/2021	February 11, 2021
Date	*Date*

APPENDIX F: DISTRIBUTION MAP

Sandy Acres


to US 26
Grocery Store
SE 167th Pl.
SE 170th St.
SE 172nd Pl.
SE 252nd Ave
SE 251st Terr.
SE 249th Terr.
SE 249th Ave
SE 248 Terr.
Private Drive
Private Drive
Water plant
Hwy 42
DRA
DRA
TPA
A
B
C
D
E
F
G
H
J
K
N



woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Sun Ray Estates

210 South Florida Avenue | Suite 220
Lakeland, Florida 33801
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woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

0233748.01
CSWR
July 2021

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» Search by PWS Name or Number
» How to Help?

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» Aquifers
» Public Water Systems
» Assessment
» Potential Contaminants
» Susceptibility
» Prevention

Contact Us

» Email
» Mailing Address
» Source Water Protection Workshop

EPA Source Water Protection website

Source Water Assessment & Protection Program

Results for: 2019

SUN RAY ESTATES
NE 35TH AVENUE
OCALA, FL 34471

Public Water System ID: 3421314
County: MARION
DEP Regulatory Office: DEP Central District
3319 Maguire Blvd, Suite 232
Orlando, FL 32803
407-897-4100
Public Water System Type : COMMUNITY
Public Water System Source : GROUND
Primary Use: SUBDIVISION
Population Served: 1999
Size of Assessment Area:
GROUND: For this system, a 1000-foot radius circle around each well was used to define the assessment area.

Number of Wells: 2

Well ID	Owner ID	FLUWID	Status	Well Depth(ft)	Aquifer
5724	NORTH WELL	AAE0258	ACTIVE	165	Floridan Aquifer
5725	SOUTH WELL	AAE0257	ACTIVE	160	Floridan Aquifer

Results:

GROUND WATER:
A search of the data sources indicated no potential sources of contamination.

Last updated: February 19, 2020

Accessibility Information

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3900 Commonwealth Boulevard M.S. 49
Tallahassee, Florida 32399
850-245-2118 (phone) /
850-245-2128 (fax)

APPENDIX B: TANK INSPECTION REPORT

INSPECTION AND TESTING of HYDROPNEUMATIC TANK

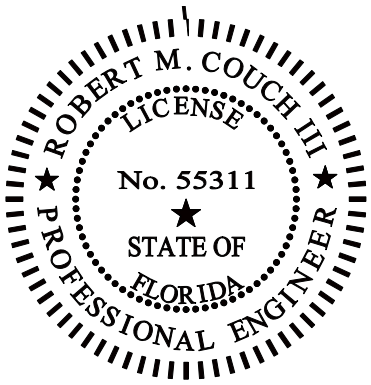
Sun Ray Estates Subdivision Tank

Pursuant to Chapter 62-555.350 (1) & (2) F.A.C

Water System:	Sun Ray Estates Subdivision
Street Address:	10230 SE CR 25
City, State:	Marion County, Florida
Phone:	352-347-8228
Contact:	Dewaine Christmas
E-mail:	sunshineutl@aol.com
PWS ID No.:	3421314
County:	Marion
Classification:	Community
Source:	Ground
Ownership:	Sunshine Utilities of North Central Florida
Date:	January 10, 2019

Inspection and Testing by:

Robert M. Couch III, P.E.
ENVIRO-TECH, Inc.
PO Box 152
Weirsdale, FL 32195
Telephone: 352-694-1799
E-mail: envirotech@ymail.com



C.O.A. No. 8692 Registration No. 55311

Robert M. Couch III, P.E.

Digitally signed by Robert M. Couch III, P.E.
DN: cn=Robert M. Couch III, P.E., o=ENVIRO-TECH, Inc., ou=Reg. No. 55311, email=envirotech@ymail.com, c=US
Date: 2019.02.07 21:34:29 -05'00'

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1.0 EXECUTIVE SUMMARY

ENVIRO-TECH, Inc. was contracted to perform the five year tank condition inspection on the above mentioned hydro-pneumatic tank.

This condition inspection was performed on January 10, 2019 by Robert M. Couch III, P.E. on the above referenced water tank. The tank was drained and, an internal and external inspection was performed to assess the tank condition as required by the Florida Department of Environmental Protection (FDEP) Rule 62-555.

The tank shell and heads appeared to be in overall fair structural condition. Ultrasonic Thickness Measurement (UTM) readings indicated that the average thickness of the tank shell at the time of the field inspection was approximately 8.88 millimeters. UTM readings from the tank heads indicated an average thickness of 12.31 millimeters. The exterior coating of the tank appeared to be in overall fair condition with no notable surface corrosion. The interior coating of the tank appeared to be in poor condition with significant surface corrosion beginning to form along the tank ridge and walls.

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 65 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 60 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

2.0 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS CHAPTER 62-555.350 (1) & (2)

2.1 Operation and Maintenance of Public Water Systems

(1) Suppliers of water shall operate and maintain their public water systems so as to comply with applicable standards in Chapter 62-550, F.A.C., and requirements in this chapter.

(2) Suppliers of water shall keep all necessary public water system components in operation and shall maintain such components in good operating condition so the components function as intended. Preventive maintenance on electrical or mechanical equipment – including exercising of auxiliary power sources, checking the calibration of finished-drinking-water meters at treatment plants, testing of air or pressure relief valves for hydropneumatic tanks, and exercising of isolation valves –shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water; however, in no case shall auxiliary power sources be run under load less frequently than monthly. Accumulated sludge and biogrowths shall be cleaned routinely (i.e., at least annually) from all treatment facilities that are in contact with raw, partially treated, or finished drinking water and that are not specifically designed to collect sludge or support a biogrowth; and blistering, chipped, or cracked coatings and linings on treatment or storage facilities in contact with raw, partially treated, or finished drinking water shall be rehabilitated or repaired. **Finished-drinking-water storage tanks, including conventional hydropneumatic tanks with an access manhole but excluding bladder- or diaphragm-type hydropneumatic tanks without an access manhole, shall be checked at least annually to ensure that hatches are closed and screens are in place; shall be cleaned at least once every five years to remove biogrowths, calcium or iron/manganese deposits, and sludge from inside the tanks; and shall be inspected for structural and coating integrity at least once every five years by personnel under the responsible charge of a professional engineer licensed in Florida.** Dead-end water mains conveying finished drinking water shall be flushed quarterly or in accordance with a written flushing program established by the supplier of water; additionally, dead-end or other water mains conveying finished water shall be flushed as necessary whenever legitimate water quality complaints are received.

2.2 Location of Inspection and Testing Report

Pursuant to Chapter 62-555.350 (2) and 62-555.350 (12) FAC, beginning 28 August 2003, all water systems regardless of size must maintain a copy up-to-date Preventive Maintenance Logs of each water system in the water facility office. The Preventive Maintenance Logs must show the date and type of all maintenance performed and comply with Rule 62-555.350 (2) and 62-555.350 (12), which requires the following:

- Preventive Maintenance Logs on Electrical and Mechanical Equipment
- Cleaning and Inspection Logs of Treatment Facilities and Storage Tanks
- Records of Coatings and Linings Rehabilitation or Repair
- Licensed Engineer Inspection Report (once every 5-years) for Finished-Drinking-Water Storage Tanks and Hydropneumatic Tanks
- Written Flushing Program and Logs showing that Dead-End Water Mains are being flushed at least quarterly
- Isolation Valves Exercise Logs

A copy of this report should be kept with these records.

3.0 HYDROPNEUMATIC PRESSURE TANK INSPECTION AND TEST PROCEDURES

This Inspection and Test Procedures is used as a reference in the overall inspection and testing of this Water System. This procedure is to be updated from time to time to reflect physical and procedural changes to the water system.

Inspection and testing of this tank was conducted by Robert M. Couch III, P.E. with the assistance of Jim Hodges Jr. of Sunshine Utilities of North Central Florida, Inc. The following inspection and testing procedures for hydropneumatic pressure tanks were used:

3.1 Pre-Test Procedures

1. If water service is to be interrupted customers must be notified in advance and if appropriate, boil water notices issued.

2. Turn-off all electrical power to well pumps, air motors, chlorination equipment, etc.

3. Open drain valve to empty tank. This is also a good time to check the valves (exercise them) that isolate the tank to see if they are in fact working as they should. This downtime can also be used to replace a valve if needed.

4. Once depressurized, the site glass is inspected for proper operation.

5. Once the tank is drained, the manway (hatch) will need to be removed for inspection of the interior.

3.2 Visual Inspection

6. Perform visual inspection of the tank exterior and accessories for presence of leaks, shell distortion, signs of settling, deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, accessories, etc.

7. Tank layout and physical measurements

8. Color photographs of the tank exterior and all of the essential appurtenances

9. Perform visual inspection of the tank interior for presence of deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, bio-growths, calcium or iron/manganese deposits, sludge, etc.

3.3 Nondestructive Examination

10. The tank interior coating is then examined for dry film thickness (See PosiTest® DFT Coating Thickness Gauge measurement) or equivalent.

11. The tank exterior is then examined for thickness measurements (See Smart Sensor AR 850+ Ultrasonic Thickness Gauge measurement).

12. If deemed necessary, the tank exterior (or interior) is then examined for porosity, pinholes and leaks (See PCWI porosity detection test, also known as holiday detector test).

3.4 Post-Test Procedures

13. Any coating problems detected should be corrected while the tank is out of service in order to avoid further extensive downtime.

14. Once the tank is inspected and all maintenance items are taken care of, the tank will need to be disinfected prior to placing back in use.

15. Once the tank has been disinfected, bacteriological tests must be performed on water samples (2 per FDEP) taken from the tank discharge. FDEP to clear for service prior to placing back in service.

3.5 Safety of Test Area

The test area should be restricted and barricaded. The porosity testing instrument output can be up to 20,000 volts. Testing should be carried out well clear of personnel not involved in the testing procedure. Should accidental contact be made with the test electrode, the recipient will receive a mild shock. This equipment should never be used by a person with a pacemaker.

4.0 TEST EQUIPMENT DESCRIPTIONS

4.1 AR 850+ Ultrasonic Thickness Gauge



The Smart Sensor AR 850+ Digital Ultrasonic Thickness Gauge is an economical, user-friendly, menu driven, and multi-functional unit offering extensive features from basic measurements to extended memory. This dynamic series of UT gauges is designed to measure the thickness of metallic and non-metallic materials such as steel, aluminum, titanium, plastics, ceramics, glass and any other good ultrasonic wave conductor as long as it has parallel top and bottom surfaces. The AR 850+ gauges will accurately display readings in millimeters after a simple calibration to a known Thickness or sound velocity.

4.1.1 Features

- Main Unit
- Transducer 5 MHz / 2.5 MHz
- Integrated steel calibration plate 4.0mm
- Batteries (2 x AAA)
- Ultrasonic Couplant
- Operation Manual
- Certificate
- Carrying Case
- One Year Warranty

4.1.2 Technical Specification

Display Type	4-digit LCD
Display Resolution	(<100 mm) 0.1 mm
Units	Metric
Measuring Range (steel)	1.2 to 220.0 mm
Sound Velocity Range	1000 to 9999 m/s
Operating Temperature	0 ° C +45° C
Frequency	5 MHz
Power Source	3 X 1.5V AAA batteries
Dimensions	70x145.5x28 mm

4.2 Compact DC Inspector Porosity Detector



Porosity detection of Tanks, Valves, Pumps, Pipeline field joints, and general inspection and maintenance. Suitable for a broad range of testing and inspection requirements. It is recommended that the integral probe be limited to a 125mm flat brush or fan brush.

4.2.1 Standards

ASTM G62-87(1998), ASTM D4787-93(1999), NACE RP0274-98, NACE RP0490-2001, NACE RPO188- 99, JIS G-3491, JIS G-3492, ANSI/AWWA C214-89, ANSI/AWWA C213-94 and ISO 2746:1998

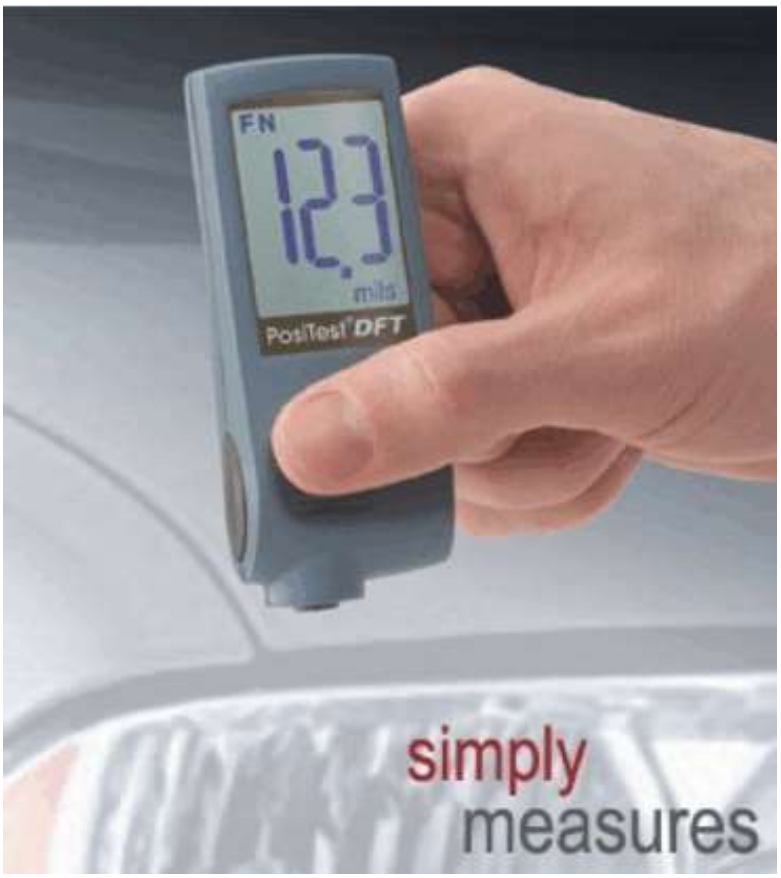
4.2.2 Features

- LED bar graph display of voltage
- "Single" hand-held, lightweight unit for simplicity and ease of operation
- Audible and visual alarms
- LED battery condition indicator
- Integral probe
- Detector
- 7m Earth lead and clamp
- Flat 125mm wide brass wire brush (or optional fan brush)
- Carry Case
- Operating instructions with conformance certificate
- Variable output up to 10kV or Variable output up to 20kV

4.2.3 Technical Specifications

Test Voltage	to 10kV (using 9V Battery)
Output Test Current	up to 100µA
Operating Temperature	-20 to +50ºC
Power Supply	Battery (9V internal)
Unit Dimensions	210 x 75 x 35mm (excl brush) 8.25" x 3.1" x 1.5"
Unit Weight	460g (incl probe)
Shipping Weight	1.5Kg

4.3 PosiTest DFT Coating Thickness Gauge



The new PosiTest DFT Coating Thickness Gauge measures coatings on ALL metals. It is the economical choice that retains the uncompromising quality of Qualitest inspection instruments.

Available in two models:

- PosiTest DFT Ferrous - measures non-magnetic coatings on steel.
- PosiTest DFT Combo - measures both non-magnetic coatings on steel and non-conductive coatings on aluminum, brass, etc. Automatically recognizes the substrate and takes a measurement.

4.3.1 Standards

ASTM B244/B499/B659/D1186/D1400/E376/G12, BS3900-C5, SSPC-PA2, ISO 2178/2360/2808, prEN ISO 19840, and others. Certificate of Calibration traceable to NIST available.

4.3.2 Features

- Fast, repeatable measurements
- No calibration required for most applications
- ZERO feature for rough or curved surfaces
- Handy RESET feature when no zero reference is available
- Strong, wear resistant, ruby-tipped probe
- Audible and visible measurement indication
- V-groove in probe for positioning on cylindrical parts
- Mils/Microns switchable
- Basic instructions on the back of each gauge

4.3.3 Technical Specifications

Measurement Range	0-40 mils (-1000 µm)
Accuracy	±(0.1 mils + 3%) (±(2µm + 3%))
Size	4 x 1.5 x 0.9 in (100 x38 x 23 mm)
Weight	2.5 oz (70 g)



5.0 HYDROPNEUMATIC PRESSURE TANK DESCRIPTION

The hydropneumatic pressure tank inspected and tested is described as follows:

Length: 28'-9" (31.'-5" including elliptical heads)
Diameter: 7'-6" outside diameter
Volume: 10,000 gallons with elliptical heads
Tank Age: Unknown
Operating Pressure: 60 psi

6.0 TESTING

6.1 Porosity Testing

The tank surface was not swept with the Compact DC Inspector Porosity Detector during this inspection as no evidence of pin holes was observed throughout the surface of the tank.

6.2 Interior Coating Testing

No dry film thickness readings were taken within the tank interior as the coating had failed over significant portions of the tank interior.

6.3 Ultrasonic Metal Thickness Testing

A total of 77 metal thickness readings were taken at various locations on the tank shell and head surface. The average shell reading was 8.88 millimeters in the cylindrical section and 12.33 millimeters in the elliptical heads. Typical industry standard minimum wall thickness for tanks of this size is 3/8" (9.53 mm).

7.0 VISUAL OBSERVATIONS

7.1 Tank Exterior

The exterior of the tank appeared to be in fair structural condition.

7.2 Tank Interior

The tank interior appeared to be in poor condition. there were significant areas where the coating had failed and corrosion had formed on the interior tank surface.

8.0 DEFINITIONS

Design Pressure - The maximum design pressure determined from the metal thickness.

Maximum allowable working pressure (MAWP) – Maximum pressure that the pressure tank is capable of safely holding at a design maximum temperature (250ºF).

Operating Pressure - The normal maximum operating pressure of the pressure tank. The normal operating pressure must always be below the MAWP. As a rule of thumb the maximum operating pressure should always be less than the MAWP.

Metal Thickness – The thickness of the pressure tank wall (not including a corrosion allowance) to be used in the pressure calculations.

Design Safety Factor on Metal Tensile Strength – A pressure tank is normally designed with a safety factor of 3 to 4 on the metal tensile strength. All pressure tanks are designed to operate with wall stresses below the yield point of the metal used for fabrication.

9.0 TANK PRESSURE CALCULATIONS

The following formula is found in ASME Section I for determination of MAWP:

For tanks with circumferential stress on (longitudinal joints)

P = SEt/(R+0.6t)
= 60 MPa x 1.0 x 8.88 mm / (1134 mm+0.6 x 8.88 mm)
= 0.468 MPa
= 68 psi

When:

t < 0.5R = 0.5 x 1134 = 567.06 mm (true) or
P < 0.385SE = 0.385 x 60 x 1.0 = 23.1 MPa (true)

Where:

t = metal thickness (mm) where t = 8.88 mm
R = inside radius of shell course under consideration (mm) = 1,134 mm
E = joint efficiency for cylindrical or spherical shells = 1.0 for welded tanks and corresponds to a safety factor of 3.5 in the parent metal.
P = maximum allowable working pressure (MPa) where 1 MPa = 145 psi
S = maximum allowable stress value at the operating temperature of the metal = 60 MPa (Safety Factor of 4).

10.0 CONCLUSIONS

Inspection and testing of the Sun Ray Estates subdivision 10,000-gallon hydropneumatic pressure tank was performed on January 10, 2019. In addition to a visual examination, non-destructive examinations were also made. Non-destructive examinations included ultrasonic measurement of the tank wall thickness and visual inspection for pinholes and leaks. No examination of Dry Film Thickness Measurement (DFTM) of the interior coating was performed as the coating had already failed.

Observations of the tank exterior indicated tank is subject to normal exposure. Observations of tank interior revealed light surface corrosion along the upper ridge portions of the tank interior.

11.0 RECOMMENDATIONS

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 65 PSI or lower.
- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.
- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

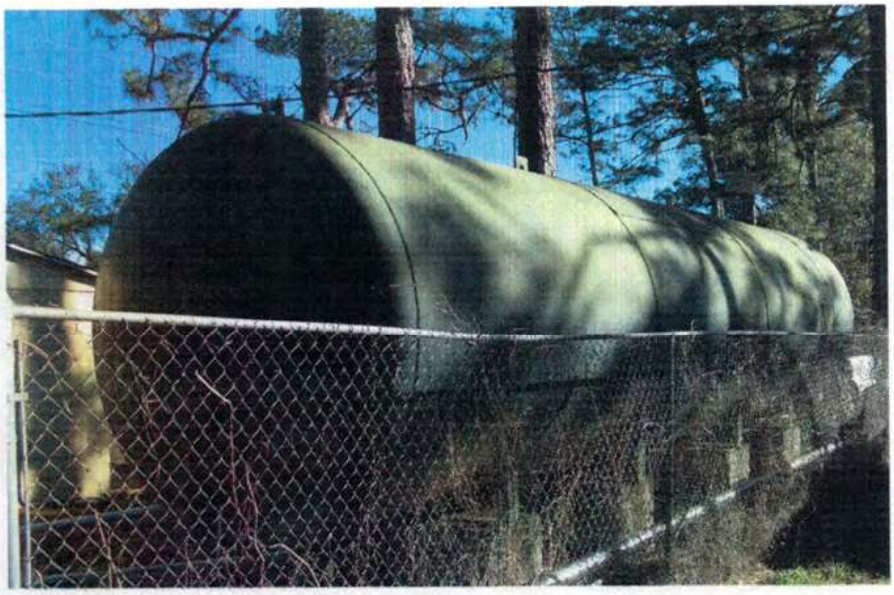
Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 60 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

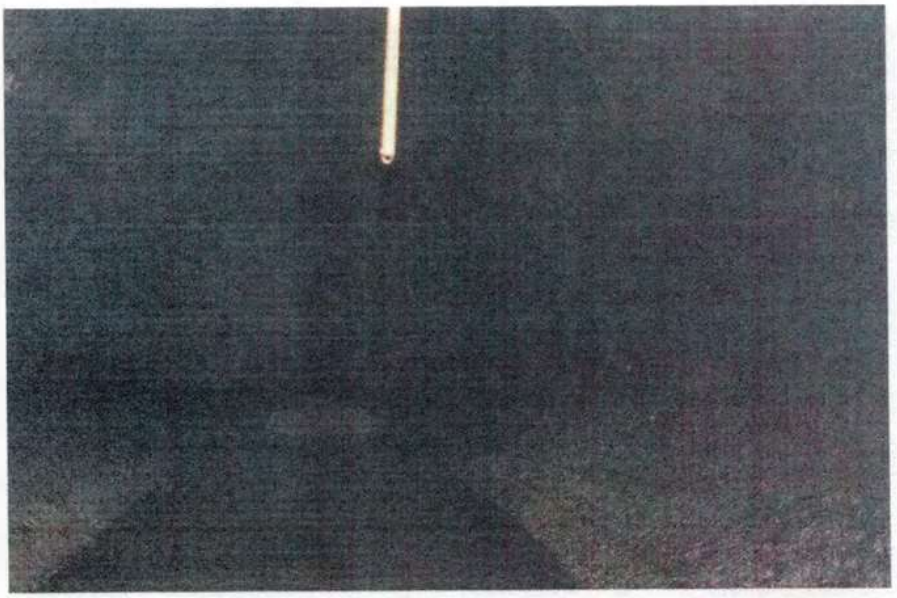
Signed: Robert M. Couch III Date: 2/7/2019

Robert M. Couch III, P.E. Registration No. 55311

Exterior and interior views of tank







APPENDIX C: EMERGENCY RESPONSE PLAN

Disaster-Specific Preparedness/Response Plan

for Public Drinking Water Systems

Per Chapter 62-555.350 (15) F.A.C.

Sunshine Utilities

SUNRAY

Address:	10230 East Hwy. 25 Belleview, FL 34420
Phone:	352-347-8228
Fax:	352-347-6915
Contact:	Dewaine Christmas, Manager
E-mail:	SunshineUtl@AOL.COM
Connections:	669
PWS:	3421314
County:	Marion

May 17, 2013

Department of Environmental Protection
Michael D. LeRoy, P.E.
John R. Sowerby, P.E.

FRWA Security Staff
Sterling L. Carroll, P.E.
Ken Klos, P.E.
Coy Donaldson

For more information or additional copies of this document contact:

FLORIDA RURAL WATER ASSOCIATION
2970 Wellington Circle ~ Suite 101 ~ Tallahassee
Telephone: 850-668-2746 ~ Fax: 850-893-4581
e-mail: FRWA@frwa.net

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This template and guide has been developed by the Florida Rural Water Association (FRWA) in collaboration with the Washington State Department of Health, Office of Drinking Water, Olympia, Washington; and reviewed by Florida Department of Environmental Protection.

Acknowledgment of federal government support of this project:

This project and the preparation of this booklet was funded in part by a Water Protection Coordination grant from the Environmental Protection Agency through an agreement/contract with the Drinking Water Program of the Department of Environmental Protection. Total cost of the project was $3,000 of which $3,000 or 100 percent, was provided by the U.S. Environmental Protection Agency.

Preface
Chapter 62-555.350 (15) FAC

Disaster-Specific Preparedness/Response Plans

(15) Suppliers of water who own or operate a community water system serving, or designed to serve, 350 or more persons or 150 or more service connections shall develop a written emergency preparedness/response plan in accordance with Emergency Planning for Water Utilities, AWWA Manual M19, as adopted in Rule 62-555.335, F.A.C., by no later than December 31, 2004, and shall update and implement the plan as necessary thereafter. Said suppliers of water shall coordinate with their Local Emergency Planning Committee and their Florida Department of Law Enforcement Regional Security Task Force when developing their emergency plan and shall include in their plan all of the information in paragraphs (a) through (e) below.

(a) A Communication Charts as described in Chapter 5 of AWWA Manual M19.

(b) Written agreements with other agencies, utilities, or response organizations.

(c) A disaster-specific preparedness/response plan as described in Chapter 5 of AWWA Manual M19 for each of the following disasters: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release. Each disaster-specific preparedness/response plan shall incorporate the results of a vulnerability assessment; shall include actions and procedures, and identify equipment, that can obviate or lessen the impact of such a disaster; and shall include plans and procedures that can be implemented, and identify equipment that can be utilized, in the event of such a disaster.

(d) Details about how the water system meets the standby power requirements under subsection 62-555.320(14), F.A.C., and, if applicable, recommendations regarding the amount of fuel to maintain on site, and the amount of fuel to hold in reserve under contracts with fuel suppliers, for operation of auxiliary power sources.

(e) If applicable, recommendations regarding the amount of drinking water treatment chemicals, including chemicals used for regeneration of ion-exchange resins or for onsite generation of disinfectants, to maintain in inventory at treatment plants.

Specific Authority 403.861(9) FS. Law Implemented 403.852(12), 403.853(6), 403.861(17) FS. History-New 11-19-87, Formerly 17-22.650, Amended 1-18-89, 1-1-93, Formerly 17-555.350, Amended 8-28-03.

Time Extension for Submitting/Completing ERP – December 31, 2005

From: Hoofnagle, Van
Sent: Thursday, October 21, 2004 11:25 AM
Subject: Time Extension for Submitting/Completing ERP
Importance: High

I am sending this e-mail because of possible confusion in some FDEP District Offices or ACHDs regarding the deadline for compliance with the emergency preparedness/response plan requirements in FAC subsection 62-555.350(15).

As John Sowerby and other staff mentioned during Focus On Change presentations early this year on FAC Rule 62-555.350 and during training this summer on the recent amendments to FAC Chapter 62-555, the FDEP intends to amend FAC subsection 62-555.350(15) to give all affected community water systems (i.e., all community water systems serving 350 or more persons or 150 or more service connections) **until the end of 2005** instead of the end of this year to complete a comprehensive emergency preparedness / response plan as required by FAC subsection 62-555.350(15). At this point, it will likely be after the end of this year before we officially make this change to FAC subsection 62-555.350(15). In the meantime, please do not take any enforcement action against

community water systems who fail to meet the 12/31/04 deadline in FAC subsection 62-555.350(15). Thanks.

Van Hoofnagle
DEP Drinking Water Administrator

Section 1
Communication Charts

The first response step in any emergency is to inform the person at the top of this list, who is responsible for managing the emergency and making key decisions. List the water system chain of command in order of contact.

Water System Chain of Command – Lines of Authority

Order	Name & Title	Responsibilities During an Emergency	Contact Information
1	Dewaine Christmas Manager	Responsible for overall management and decision making. The manager is the lead for managing the emergency and providing information to regulatory agencies. All communications to external parties are to be approved by the manager.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl@AOL.Com
2	James Hodges Jr. Field Supervisor	Responsible for decision making in the field. In charge of overall maintenance, and repairs to all components of water system.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl @AOL.Com
3	Kelvin Edun Water Treatment Plant Operator	Responsible for running water treatment plant, performing inspections, maintenance, sampling and relaying all critical information to Field Supervisor.	Phone: Cell: 352-875-5141 Email:
4	Pamela Christmas Office	Responsible for assisting the manager in administrative duties and emergencies.	Phone: 352-347-8228 Cell: 352-245-4743 Email:
5			Phone: Cell: Email:
6			Phone: Cell: Email:
7			Phone: Cell: Email:

Emergency Notification

Notification call-up lists - Use these lists to notify important parties of an emergency.

Emergency Notification List

Organization or Department	Name & Position	Telephone	Cell Phone	e-mail
State Warning Point	**Duty Officer**	**800-320-0519**	800-320-0519	N/A
Local Law Enforcement	EOC Commander	352-622-3205		Pstefanski@sheriff.marioncountyfl.org
Fire Department		911		
Emergency Medical Services		911		
Water Operator (if contractor)	Kelvin Edun Operator	352-875-5141		
County Health Department	Tom Moore Director of Environmental Health	352-622-7744	352-266-7486	
DEP District Office	Manny Cardona	407-897-4134	Fax 407-893-4418	
County Emergency Management Dept.	Director	352-622-3205		
Local Leader (City Mgr., Mayor, Chair. Co. Comm., etc.)				
Local Hazmat Team (if any)		911		
Hazmat Hotline		911		
National Spill Response Center.	Duty Officer	800-424-8802	800-424-8802	N/A
Interconnected Water System(s)				
Neighboring Water System (not connected)				
FRWA Water Circuit Rider	David Hannah	850-668-2746	352-267-5108	

Priority Customers

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Hospital Or Clinic(s)				
Nursing Home(s)				
Public Schools				
Private Schools				
Wastewater Treatment Plant				
Food Processing Or Other Industry				

Service / Repair Notifications

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Electric Utility Co.	City of Ocala	352-651-6666		
Electrician	Melville Electric	352-245-0600		
Gas / Propane Supplier	Belleview Gas	352-245-6055		
Water Testing Lab.	Aqua Pure Lisa Saupp	352-625-2822		
Sewer Utility Co.				
Telephone Co.	Sprint	800-788-3600	611	
Plumber	ACP	352-427-7036		
Pump Supplier	Coast Pump	352-620-0616	352-266-4277	Coastpumpocal@hotmail.com
"Dig Safe" or "One Call"	Sunshine One Call	800-432-4770		

Service / Repair Notifications				
Organization Or Department	**Name & Position**	**Telephone**	**Cell Phone**	**email**
Rental Equip. Supplier	B&M Rental	352-245-3133	352-245-9800	
Chlorine Supplier	Custom Controls	352-622-9244	352-304-0572	
Other Chemical Suppliers				
Radio/SCADA Repair Co.				
Bottled Water Service				
Bulk Water Supplier				
Well Drilling Co.	Earls Well Drilling Jeremy	352-245-2324	352-817-0502	
Pipe Supplier	National Water Works	352-351-8144	352-266-4705	

Designated Public Spokesperson and Alternates

Designate a spokesperson (alternates) for delivering messages to the news media & public

Public Spokesperson	Name & Position	Telephone	Cell Phone
Spokesperson	Dewaine Christmas Manager	352-347-8228	352-239-1198
Alternate 1	James Hodges Jr. Supervisor	352-347-8228	352-239-1197
Alternate 2			

Key Messages

Develop possible messages in advance, and update them as the emergency develops
▪ We are aware of the emergency and are working diligently to restore your water service.

- If you fall under a boil water notice you must bring water to a rolling boil for a period of at least one minute. You only have to boil water for human cunsumption.

-

Health Advisories – Boil Water Notices

Use the assistance of your County Health Department and/or District FDEP office, and FDEP's Mandatory Health Effects Language, located on FDEP's website at:

http://www.doh.state.fl.us/environment/water/manual/boil.htm

http://www.DEP.state.fl.us/water/drinkingwater/rules.htm,

and click on "Mandatory Health Effects Language"., PLUS EPA's templates at:

http://epa.gov/safewater/pn.html

Click on "Microsoft Word and Word Perfect files of PN templates" (PN means Public Notifications), then determine which "Tier" of notifications is needed and click on the desired software to receive them in.

Section 2
Written Agreements With Other Agencies, Utilities, or Response Organizations

INSERT BELOW information regarding any written agreements with other agencies, utilities, or response organizations, such as emergency interconnects, mutual aid or FlaWARN.

Emergency Interconnect(s)

Information on the location of interconnection(s) (if any), type and size of interconnecting pipe, pumps and accessory equipment, meters at interconnection(s), normal pressures at both ends of interconnection, volume of water from interconnection(s), type of agreement and approvals needed for use, procedures necessary to use interconnection, etc.

Location (Street)	
Location (GPS)	
Description	

Memoranda of Understanding

Organization	
Summary of Understanding	

Mutual Aid Agreements

Organization	Marion Utilities, Hal McDonald 352-622-1171
Summary of Understanding	Will render mutual aide – ie: pumps, generators, and other materials necessary to restore water service.

FlaWARN

Organization	
Summary of Understanding	

Section 3
Disaster-Specific Preparedness/Response Plan

Your disaster-specific preparedness/response plan must include a Vulnerability Assessment and preparedness / response plans for: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release.

In any event there are a series of general steps to take:

1. Confirm and analyze the type and severity of the emergency.
2. Take immediate actions to save lives.
3. Take action to reduce injuries and system damage.
4. Make repairs based on priority demand.
5. Return the system to normal operation.

Vulnerability Assessment

It is essential that water systems identify and assess the vulnerability of each system component for both natural and human-caused emergencies, before preparing their disaster-specific preparedness/response plans. Prepare your Vulnerability Assessment by completing the table below:

Facility Vulnerability Assessment

System component	Description and condition	Vulnerability	Security improvements (indicate existing or proposed)
Raw Water Sources	(1) 6" & (1) 8" groundwater wells located several hundred feet from homes. Wells are in good condition. We have wellhead protection in place.	The wells are most vulnerable to above ground activities because they are only 165 & 160FT deep.	1.Purchase land surrounding well. 2. Secure well house to foundation and install lighting around well house.
Pump-house and pumping facilities	The pump-house and pumping facility are in good condition.	Pump location is fully fenced with a locked gate.	Install tamper proof padlocks.
Treatment Facilities	There is a hypo-chlorination system inside of pump house. System is in good condition.	Chlorination systems are not subject to power outages.	There is a backup generator on site in compliance with CH. 62-555.320(14)FAC
Storage Facilities	Hydro pneumatic tank is fenced in good condition.	Tank is not in a lighted area.	Install lighting in area of tank.
Computer and telemetry systems	Computers are in utilities main office and are in good condition.	Computers should be better protected against cyber attack or hacking.	Secure computers with firewalls & virus protection.

A. Vandalism or Sabotage Response Procedures

1. Utility staff first aware of incident:
    a) Calls 9-1-1/ Local Law Enforcement.
    b) Calls Manager
2. Manager determines severity of incident.
    a) Field supervisor determines if vandalism or sabotage will effect the water quality.
    b) Manager reports incident to the state warning point.
3. Field supervisor directs repairs as needed.
    a) Complete repairs
    b) Update ERP as needed.

B. Drought Response Procedures

Include water use restrictions per Consumptive Use Permit

1. Manager coordinates with the local Water Management District (WMD) regarding drought conditions.
    a) If drought conditions exist, a water conservation plan will be initiated.
    b) Literature will be distributed to customers regarding the drought.
    c) Conservation material will be distributed to customers on conservation measures.
    d) Customers not abiding by restrictions will be reported to WMD.
    e) Manager updates ERP as needed.

C. Hurricane Preparedness & Response Procedures

Pre- Hurricane **(36 to 48 hrs prior to arrival)**	1. Manager coordinates with local EOC. 2. Field supervisor checks operation of standby power. 3. Field supervisor secures fuel and treatment chemicals for a 10 day period. 4. Manager replenishes inventory of spare parts.
Hurricane Watch **(24 to 36 hrs prior to arrival)**	1. Manager cancels all time off for employees. 2. Manager issues work assignments in advance in case of communication loss. 3. Employees all top off fuel in vehicles & standby generators. 4. Manager authorizes employees to secure their personal property and arrange for the safety of family members.
Hurricane Warning (24hrs or less prior to arrival)	1. Employees report to designated areas and wait for instructions. 2. Employees load truck with supplies. 3. Employees follow evacuation protocol.
Recovery Procedures	1. Manager coordinates with local EOC. 2. Manager issues boil water notices if needed. 3. Field supervisor coordinates repairs. 4. Manager makes contact with the appropriate DEP office. 5. After repairs are completed samples are taken. 6. When samples come back clear – boil water notice is lifted. 7. Manager files all malfunction reports with the DEP. 8. Field supervisor inspects all systems to make sure everything is running smooth.

D. Structure Fire Response Procedures

1. Utility staff discovering fire:
    a) Evacuate structure on fire.
    b) Call 9-1-1
2. Manager determines severity of incident.
    a) Manager contact State Warning Point.
    b) Field supervisor coordinates repairs when fire is extinguished.
3. Field supervisor reports to manager when repairs are complete.
    a) Manager reports completion of all repairs to any Gov. agency.
    b) Manager updates ERP as needed.

E. Flood Preparedness & Response Procedures

(Is any critical part of your system in a flood prone area?)

None of our systems are in a flood prone area.

F. Forest or Brush Fire Response Procedures

(Is any critical part of your system subject to forest or brush fires?)

1. Utility staff discovering fire.
    a) Orders evacuation of any threatened buildings.
    b) Calls 9-1-1 to report fire.
2. Manager determines the severity of fire.
    a) Manager contacts the State Warning Point.
    b) Field supervisor inspects for any damage and coordinates repairs after fire is extinguished.
3. Field supervisor reports to manager that all repairs are complete.
    a) Manager updates the ERP as needed.
    b)

G. Hazardous Material Release Response Procedures

Do you have any hazardous material (chlorine gas) at your water system?

We have no Hazardous materials at any of our water systems.

H. Other Disaster Response Procedures

Are there other disasters that you want to prepare for, such as a Contamination event, SCADA Attack, or Structural Damage from an Intentional Act?

Contamination

1.
   a)
   b)
2.
   a)
   b)

SCADA Attack

1.
   a)
   b)
2.
   a)
   b)

Structural Damage from an Intentional Act

1.
   a)
   b)
2.
   a)
   b)

Section 4
Standby Power Requirements

Include details about how the water system meets the standby power requirements as described in Ch. 62-555.320(14), and 62-555.350(15)(d) FAC for water source, treatment, and pumping facilities necessary to deliver drinking water at a rate at least equal to the Average Daily Water Demand.

Standby Power for Wells or Surface Water Intakes

Standby Power (or by alternate means) to OPERATE WELLS at Average Daily Demand

Average Daily Demand (ADD) in gpd or gpm	165583 gpd
Wells Needed to Supply Average Daily Demand	1
Standby Generator (kW) Needed for ADD &	25KW
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	We will have reserve fuel in the case of an emergency.

Standby Power for Treatment Facilities

Standby Power (or by alternate means) to TREAT WATER at Average Daily Demand

Treatment Units Needed to Supply ADD	
Standby Generator (kW) Needed to Treat ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Standby Power for Pumps

Standby Power (or by alternate means) to PUMP WATER at Average Daily Demand

Pumps Needed to Supply ADD	
Standby Generator (kW) Needed to Pump ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Section 5
Drinking Water Treatment Chemicals & Disinfectants

Include recommendations regarding the amount of drinking water treatment chemicals, to maintain in inventory at treatment plants. Do not just list chemical storage capacity, but instead recommend the minimum amount of chemicals to maintain in inventory, which depends upon the location and reliability of chemical suppliers, the status of impending disasters, etc.

Disinfection Treatment Information

Disinfection Chemical(s)	Chemical / Location No. 1	Chemical / Location No. 2
Type of Chemical	Chlorine	
Type of Chemical Feed	Hypo-Chlorinator	
Chemical Storage Location	On site in the pump house.	
Recommended Minimum Amount to be Maintained in Storage (gal)	55 gallons	

Other Chemical Information

Chemical(s) Used	Chemical #1	Chemical #2	Chemical #3	Chemical #4
Type of Chemical				
Type of Chemical Feed				
System Location				
Chemical Storage Location				
Recommended Minimum Amount to be Maintained in Storage (gal)				

Appendix A
Basic System information

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Keep this basic information readily available for when you need it for emergency responders, repair people, the news media and potentially, an emergency operator.

Basic System Information

GPS coordinates will help emergency crews find your system following a major catastrophe.

System identification number (PWS ID)	**3421314**	
System name and address	**SUNRAY**	
GPS Coordinates	Latitude:	Longitude:
Basic description and location of system facilities	**NE 3TH ST AND 22ND CT**	
Population served and service connections.	Population =	Connections = 669
System Owner	**Sunshine Utilities of Central Florida, Inc.**	
Management Authority	**Owner and Manager**	
Name, title, and phone numbers of person responsible for maintaining and implementing the ERP.	**Dewaine Christmas** **Manager**	**352-347-8228 phone** **352-239-1198 cell**

System Demand

Demand based on Monthly Operational Records and system capacity based on Sanitary Survey.

Average Daily Demand (gpd)	165583 GPD
Maximum Daily Demand (gpd)	218700 GPD
System Capacity (gpd)	396000 GPD
Peak Hour Demand (gpm)	N/A

Location of Pertinent Information

Item	Location
Distribution System Map	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
O&M Manual(s)	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
Start-Up / Shut-Down Procedures	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.

Well Information

GPS coordinates will help emergency crews find wells following a major catastrophe.

Well Information	Well No. 1	Well No. 2	Well No. 3	Well No. 4
GPS well tag #				
Location (street)	NE 35TH ST	NE 35TH ST		
GPS Coordinates	Lat: Long:		Lat: Long:	Lat: Long:
Well Depth (ft)	165 FT	105 FT		
Well Yield (gpd)	590400GPD	201600 GPD		
Pump Type	Submersible	SUB		
Manufacturer	Sta-Rite	STA RITE		
Capacity (gpm)	410 GPM	140 GPM		
Motor Manufacturer	Franklin	FRANKLIN		
Horsepower	25 HP	15 HP		
Phase	3	3		
Volts/Amps	230 volts	230 VOLTS		

Surface Water Sources

GPS coordinates will help emergency crews find surface water intakes following a major catastrophe.

Surface Water Information	Intake No. 1	Intake No. 2
Location (Street / Description)		
GPS Coordinates	Lat: Long:	Lat: Long:
Critical Water Level		

Finished Water Storage

GPS coordinates will help emergency crews find tanks following a major catastrophe.

Name of Storage Unit	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Location (Street)				
Location (GPS)	Lat: Long:	Lat: Long:	Lat: Long:	Lat: Long:
Type (ground, elevated, etc.)				
Capacity (gal)				
Empty Elevation				
Overflow Elevation				

High Service Pumps

HSP	HSP No. 1	HSP No. 2	HSP No. 3	HSP No. 4
Location (street)				
Pump Type				
Manufacturer				
Capacity (gpm)				
Motor Manufacturer				
Horsepower				
Phase				
Volts/Amps				

Other Applicable Information

Appendix B
Training and Rehearsals

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Event	Description	People & Organizations Involved	Date

Appendix C
Plan Approval

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Plan Approval

This plan is officially in effect when reviewed, approved, and signed by the following people:

Name / Title	Signature	Date
Hodges Family Trust		

APPENDIX D: CONSUMER CONFIDENCE REPORT

Certification of Delivery of Consumer Confidence Report

GENERAL INSTRUCTIONS: This form shall be completed by all community water systems (CWSs) that have prepared a Consumer Confidence Report (CCR) in accordance with Rule 62-550.824, F.A.C., Consumer Confidence Reports. At the end of this form is a certification in which a system's authorized representative shall certify that the reported information is accurate and is in conformance with Rule 62-550.824, F.A.C. **COMPLETE THIS FORM AND SUBMIT IT BY AUGUST 10,** together with a copy of your system's CCR, sample email or water bill (with URL notification of CCR, if applicable), and any newspaper notice(s) and posted notice(s) of your CCR, to the appropriate DEP district office or Approved County Health Department (ACHD). Systems serving 100,000 or more persons posting their CCRs on publicly accessible Internet sites shall provide the information on the appropriate Internet link(s). All information provided on this form must be typed or printed in ink.

I. General Water System Information. (To be completed by all community water systems.)

System name: Sun Ray Estates Contact person: Dewaine Christmas

PWS Identification number (PWS ID): 3421314 Contact phone number: (352)347-8228

Mailing address: 10220 East Hwy 25 City: Belleview

State: Fl Zip: 34420-5531 Population served (not the number of "service connections"): _____

II. CCR Distribution Method. (To be completed by all community water systems. Choose A or B as appropriate.)

☑ A. We mailed, emailed, or otherwise directly delivered a copy of our CCR to each customer on _____ (enter date(s) of mailing or delivery) using the method(s) checked below:

- ☑ a. **Mailed** CCR
- ☐ b. **Mailed** notice (e.g. water bill) with **direct URL** to the CCR
- ☐ c. **Emailed** CCR as an **embedded** image or as an **attachment**
- ☐ d. **Emailed** notice with a **direct URL** to the CCR
- ☐ e. **Otherwise directly delivered** CCR to every customer. Explain: _____

☐ B. We were eligible to use a mailing waiver and used a mailing waiver. (Systems are eligible to use a mailing waiver only if they serve fewer than 10,000 persons, have not had any MCL or monitoring and reporting (M/R) violations, nor have been issued any formal Notices of Violations (NOVs), Consent Orders, Administrative Orders, or court-ordered civil actions during the calendar year before the year the CCR is due to the customers).

Answer a, b, **and** c below.)

- ☐ a. Date of newspaper: _____
- ☐ b. Name of newspaper/newsletter that published our CCR: _____
- ☐ c. A copy of our notice to customers, informing them that our CCR will not be mailed to them, is attached.

This notice was: ☐ mailed with bill; ☐ published in newspaper/newsletter; or ☐ other (describe)

_____

III. Posting of CCR on the Internet. (To be completed by all CWSs serving 100,000 or more persons.)

We posted our CCR on this publicly accessible internet site: _____

IV. Report on Your Effort to Distribute Your CCR to Your Water Consumers.
(To be completed by all CWSs. Check all items that apply - at least one item must be checked.)

In addition to the methods selected in Part II,

- ■ A. We posted our CCR on this publicly accessible internet site: www.sunshineutilities.org
- ☐ B. We published our CCR in the local newspaper(s). The name(s) and date(s) of the newspaper(s) are:

_____

RECEIVED
JUL 10 2020
DEP Central District

☐ C. We advertised the availability of our CCR as a press release, radio announcement, or TV announcement. The type(s) and date(s) of the advertisement(s) are: _____

☐ D. We delivered multiple copies of our CCR to single bill addresses serving several persons.

☐ E. We delivered multiple copies of our CCR to the following community organizations:

_____

☐ F. Our CCR was posted in the following public locations: _____

_____

☒ G. Our CCR was distributed by other methods (e.g., additional copies placed in entrance hall to facility). Describe.

Additional copies available at Sunshine Utilities Office

V. Use of Non-English Language in CCR. (To be completed by all community water systems.)

☐ Information in a non-English language was included in our CCR because 20% or more of our customers do not speak English but speak _____. The method we used to determine the proportion of non-English speaking customers is _____

☒ This requirement does not apply to our system, because we have no non-English speaking group among our customers equal to or exceeding 20% of our total number of customers.

VI. Other Delivery Requirements. (To be completed by all community water systems.)

(A) Was a copy of your CCR sent to your county health department, as required by rule? ☒ Yes ☐ No

(B) Is your system regulated by the Public Service Commission (PSC)? ☐ Yes ☐ No

If Yes, was a copy of your CCR sent to the PSC, as required by rule? ☒ Yes ☐ No

(C) If your system sells water to other systems, have you provided them with either a copy of your CCR or the required consumer confidence information? ☒ Yes ☐ No ☒ Not Applicable

VII. Certification of Delivery of CCR and Compliance with Regulations. (To be completed by all CWSs.)

This statement certifies that the above named community public water system has distributed its CCR for the time period starting ***January 1, 2019, and ending December 31, 2019*** to its customers on 6/15/20 (mm/dd/yy) and provided the appropriate notices of availability according to the requirements listed in this form, which are also found in Rule 62-550.824, F.A.C. This statement also certifies that the reported information is correct and consistent with the compliance monitoring data for the same period previously submitted to the Department, and that the report has been delivered to the agencies identified in Rules 62-550.824(3)(e)3., and 4., F.A.C.

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____

NAME (please print): Dewaine Christmas

TITLE: Manager DATE: 6/26/20

☒ **A copy of our CCR is attached, and**

☐ **If using electronic delivery, a copy of our sample email or notice (e.g. water bill), with URL leading directly to the CCR and not a general information website, is attached. For example, if you are using the FRWA website to post your CCR, your URL would be:**

www.frwa.net/2012-Your PWSID Number.pdf (www.frwa.net/2012-0000000.pdf).

SUNSHINE UTILITIES
10230 East Highway 25
Belleview, Florida 34420

Drinking Water Quality Report

Annual Drinking Water Quality Report for 2019

Sun Ray Estates

Florida Department of Environmental Protection Public Water System ID # 3421314

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water.

The source of our water is groundwater from two wells located in the community. The wells draw from the Floridan aquifer, one of the world's most protected sources. Our water is chlorinated for disinfection purposes. In 2019 the Florida Department of Environmental Protection conducted an assessment which identifies potential sources of contamination in the vicinity of our wells. The SWAPP (Source Water Assessment and Protection Program) determined our public water system to have "No Potential Sources of Contamination". We will use this information for future resource and protection planning. You may obtain more information at the web site *www.dep.state.fl.us/swapp.*

Sun Ray Estates water system also serves the following communities; Baldwin Heights, Boulder Hill, Carol Estates, Jason's Landing, Pearl Britain, Stone Hill and Sugar Plum. If you have any questions about this report or concerning your water utility please contact **Dewaine Christmas, at Sunshine Utilities, (352) 347-8228**, during normal business hours. We encourage our valued customers to be informed about their water utility.

Sunshine Utilities routinely monitors for constituents in your drinking water according to Federal and State laws, rules and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2019. Data obtained before January 1, 2019, and presented in this report are from the most recent testing performed in accordance with the laws, rules and regulations.

WATER QUALITY TEST RESULTS FOR SUN RAY ESTATES

Radioactive Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Alpha Emitters	(pCi/L)	AUG '18	No	2.2	N/A	0	15	Erosion of natural deposits
Radium 226 + 228	(pCi/L)	AUG '18	No	1.5	N/A	0	50	

Inorganic Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Arsenic	(ppb)	OCT '18	No	1.1	N/A	N/A	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	(ppm)	OCT '18	No	0.0035	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride	(ppm)	OCT '18	No	0.19	N/A	4	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum levels between 0.7 and 1.2 ppm
Nitrate (as Nitrogen)	(ppm)	DEC '19	No	1.65	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium	(ppb)	OCT '18	No	0.6	N/A	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium	(ppm)	OCT '18	No	9.9	N/A	N/A	160	Salt water intrusion; leaching from soil

Stage 2 Disinfectants and Disinfection By-Products

Disinfectant or Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL or MRDL Violation Yes / No	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine	(ppm)	2019	No	1.5	0.6 - 2.4	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Haloacetic Acids (five) (HAA_5)	(ppb)	NOV - DEC '19	No	0.91	ND - 0.91	N/A	MCL = 60	By-product of drinking water disinfection
Total trihalomethane (TTHM)	(ppb)	NOV - DEC '19	No	2.52	2.26 - 2.52	N/A	MCL = 80	By-product of drinking water disinfection

Lead and Copper (Tap Water)

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	AL Violation Yes / No	90th Percentile Result	No. of Sampling Sites Exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper	(ppm)	JUN '18	No	0.39	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead	(ppb)	JUN '18	No	1.9	0	0	15	Corrosion of household plumbing systems; erosion of natural deposits

In the table you may find unfamiliar terms and abbreviations. To help you better understand these terms we have provided the following definitions (please note not all definitions may pertain to your report):

- Action Level (AL) – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial growth.
- Maximum Residual Disinfectant Level Goal (MRDLG) – The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.
- ND – This abbreviation means not detected and indicates that the substance was not found by laboratory analysis.
- Parts per million (ppm) or milligrams per Liter (mg/L) - one part of analyte (by weight) to 1 million parts of water sample (by weight).
- Parts per billion (ppb) or micrograms per Liter (µg/L) - one part of analyte (by weight) to 1 billion parts of water sample (by weight).
- Picocurie per liter (pCi/L) - measure of the radioactivity in water.

What does this mean?

As you can see our system had no violations for water quality. However, we incurred a violation for late monitoring and reporting of disinfection byproducts that may form in our distribution system. We collected the required samples in November and December of 2019 which was later than our approved sampling plan, all results were satisfactory. Future sampling will be done as required per sampling guidelines. The potential disinfection byproducts that may result from chlorinating water are Haloacetic acids and Trihalmethanes. Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer. Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Sunshine Utilities is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals, and in some cases radioactive material, and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

A.) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

B.) Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

C.) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

D.) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

E.) Radioactive contaminants, which may be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The FDA (Food & Drug Administration) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care providers about their drinking water. EPA/CDC (Center for Disease Control) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are also available from the Safe Drinking Water Hotline (800-426-4791).

We are committed to ensuring the quality of your water. If you have any questions or concerns about the information provided, please feel free to call the numbers listed.

APPENDIX E: SANITARY SURVEY REPORT

State of Florida
Department of Environmental Protection
Central District

SANITARY SURVEY REPORT

Plant Name **SUN RAY ESTATES** County Marion PWS ID # **3421314**
Plant Location NE 35th Street, Ocala, FL 34421 Phone 352/347-8228
Owner Name Sunshine Utilities of Central Florida, Inc. Phone 352/347-8228
Owner Address 10230 SE Highway 25, Belleview, FL 34420-5531
Contact Person Dewaine Christmas Title Owner Phone 352/347-8228
This Survey Date 1/23/18 Last Survey Date 8/19/15 Last Compliance Inspection Date 10/16/01

PWS TYPE: Community

PLANT CATEGORY & CLASS: 5C

MAX-DAY DESIGN CAPACITY: 396,000 gpd

PWS STATUS: Approved

TREATMENT PROCESSES IN USE
Hypochlorination

SERVICE AREA CHARACTERISTICS
Subdivision
Food Service: ☐ Yes ☐ No ☒ N/A

Number of Service Connections 572
Population Served 1,999 Basis 12/17 mor

OPERATION & MAINTENANCE LOG: Yes
Location Water treatment plant
Comments

CERTIFIED OPERATOR: Yes
Operator(s) & Certification Class-Number:
Kelvin Edun C-7459

Hrs/day: *Required* Visit *Actual* Visit
Days/wk: *Required* 5+1 *Actual* 5+1
Non-consecutive Days? ☐ Yes ☐ No ☒ N/A
Comments

MONTHLY OPERATION REPORTS (MORs)
MORs submitted regularly? ☒ Yes ☐ No ☐ N/A
Data missing from MORs? ☒ No ☐ Yes ☐ N/A
Average Day (from MORs) 141,667 gpd
Maximum Day (from MORs) 220,100 gpd 5/17
Comments

Flow Measuring Device Flow Meter
Meter Size & Type 4" AMCO
Date Last Calibrated 7/23/15

RAW WATER SOURCE
☒ GROUND; Number of Wells 2
☐ PURCHASED from PWS ID #
☐ Emergency Water Source
Emergency Water Capacity

STANDBY POWER SOURCE: Yes
Source Generac Protector QS
Capacity of Standby (kW) 34
Switchover: ☒ Automatic ☐ Manual
Hrs Operated Under Load
What equipment does it operate?
☒ Well Pumps
☐ High Service Pumps
☒ Treatment Equipment
Satisfy avg. daily demand? ☒Yes ☐No ☐Unknown
Audio-visual alarm? ☒Yes ☐No
Comments

PLANS AND MAPS

Coliform Sampling Plan	☒ Yes	☐ No	☐ N/A
D/DBP Monitoring Plan	☒ Yes	☐ No	☐ N/A
Lead and Copper Plan	☒ Yes	☐ No	☐ N/A
Distribution System Map	☒ Yes	☐ No	☐ N/A
Emergency Response Plan	☒ Yes	☐ No	☐ N/A

Comments

PREVENTIVE MAINTENANCE/O&M

Operation & Maintenance Manual	☒ Yes	☐ No	
Preventive Maintenance Program	☒ Yes	☐ No	
Flushing Program	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A
Isolation Valve Exercise	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A

Comments

CROSS CONNECTION CONTROL
BFPAs None observed # Tested Unknown
WWTP RPZ N/A Date Tested N/A
Written Plan Yes Date 11/14/12
Comments

PWS ID # 3421314
Date 1/23/18

GROUND WATER SOURCE

Well Number (Florida Unique Well ID #)		**2 (AAE0357)South**	**1 (AAE0258)**		
Year Drilled		1965	1972		
Depth Drilled		165’	160’		
Drilling Method		Combination	Combination		
Type of Grout		Neat cement	Neat cement		
Static Water Level		20’	26’		
Pumping Water Level		Unknown	Unknown		
Design Well Yield		Unknown	Unknown		
Test Yield		Unknown	Unknown		
Actual Yield (if different than rated capacity)		Unknown	Unknown		
Strainer		Unknown	Unknown		
Length (outside casing)		45’	105’		
Diameter (outside casing)		6”	8”		
Material (outside casing)		Black steel	Black steel		
Well Contamination History		None	None		
Is inundation of well possible?		No	No		
6’ X 6’ X 4” Concrete Pad		Yes	Yes		
SET BACKS	Septic Tank	>200’	>200’		
	Reuse Water	N/A	N/A		
	WW Plumbing	>100’	>100’		
	Other Sanitary Hazard	None observed	None observed		
PUMP	Type	Submersible	Submersible		
	Manufacturer Name	Sta-Rite	Sta-Rite		
	Model Number	Unknown	Unknown		
	Rated Capacity (gpm)	410	140		
	Motor Horsepower	25	10		
Well casing 12” above grade?		No*	Yes		
Well Casing Sanitary Seal		OK	OK		
Raw Water Sampling Tap		Yes	Yes		
Above Ground Check Valve		Yes	Yes		
Security		Yes	Yes		
Well Vent Protection		N/A	Yes		

COMMENTS *The Department will continue to accept the well casing height as it currently exists unless it is shown to contain chemical or microbial contamination.

PWS ID # 3421314
Date 1/23/18

CHLORINATION (Disinfection)
Type: ☐ Gas ☒ Hypo
Make Chem-Tech/Uni-Dose Capacity 30 gpd
Chlorine Feed Rate 80% / 60% stroke
Avg. Amount of Cl_2 gas used N/A
Chlorine Residuals: Plant 1.9 Remote >2.2
Remote tap location 2831 NE 35th Street
DPD Test Kit: ☐ On-site ☒ With operator
☐ None ☐ Not Used Daily
Injection Points Prior to hydropneumatic tank
Booster Pump Info N/A
Comments

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

Tank Type/Number	**H**
Capacity (gal)	10,000
Material	Steel
Gravity Drain	Yes
By-Pass Piping	Yes
Protected Openings	Yes
Sight Glass or Level Indicator	Yes
PRV/ARV	Both
Pressure Gauge	Yes
On/Off Pressure	40/60
Access Secured	Yes
Access Manhole	Yes
Tank Sample Tap Location	Discharge piping
Date of Inspection	7/13
Date of Cleaning	7/13

Comments Tank inspection due 7/18

DEFICIENCIES:

No deficiencies were noted during this inspection.

MONITORING REMINDER:

- Nitrate and nitrite samples are required to be collected from the point of entry (POE) to the distribution system annually. The 2018 results have not been received.
- The consumer confidence report (CCR) must be delivered to consumers and the Department no later than July 1, 2018, and certification of delivery of the CCR must be submitted to the Department no later than August 10, 2018.
- Monitoring schedules are available on the Central District's Drinking Water Website. https://floridadep.gov/central/central/content/resources-drinking-water-facilities-and-operators-central-district

COMMENTS:

- Contact FRWA (Florida Rural Water Association) at 850-668-2746, or frwa@frwa.net, for free technical assistance with your system. FRWA has extended benefits offered to members.
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.

  Checking the calibration of finished-drinking-water meters at treatment plants shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water. [Rule 62-555.350(2), F.A.C.]

- Suppliers of water shall submit written notification to the Department before beginning work or alterations to the public water system. Each notification shall be submitted to the appropriate Department of Environmental Protection District Office or Approved County Health Department and shall include the following: a description of the scope, purpose, and location of the work or alterations; and assurance that the work or alterations will comply with applicable requirements listed in Rule 62-555.330, F.A.C. Suppliers of water may begin such work or alterations 14 days after providing notification to the Department unless they are advised by the Department that the notification is incomplete or that a construction permit is required.
- Suppliers of water shall telephone the SWO at 1-800-320-0519 immediately (i.e., within two hours) after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving a public water system. [Rule 62-555.350(10)(a), F.A.C.]
- Suppliers of water shall telephone, and speak directly to a person at, the appropriate DEP District Office as soon as possible, but never later than noon of the next business day, in the event of any of the following emergency or abnormal operating conditions:
  - The occurrence of any abnormal color, odor, or taste in a public water system's raw or finished water;
  - The failure of a public water system to comply with applicable disinfection requirements; or
  - The breakdown of any water treatment or pumping facilities, or the break of any water main, in a public water system if the breakdown or break is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(b), F.A.C.]
- Suppliers of water shall notify affected water customers in writing or via telephone, newspaper, radio, or television; and telephone, and speak directly to a person at, the appropriate DEP District Office by no later than the previous business day before taking PWS components out of operation for planned maintenance or repair work if the work is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(d), F.A.C.]

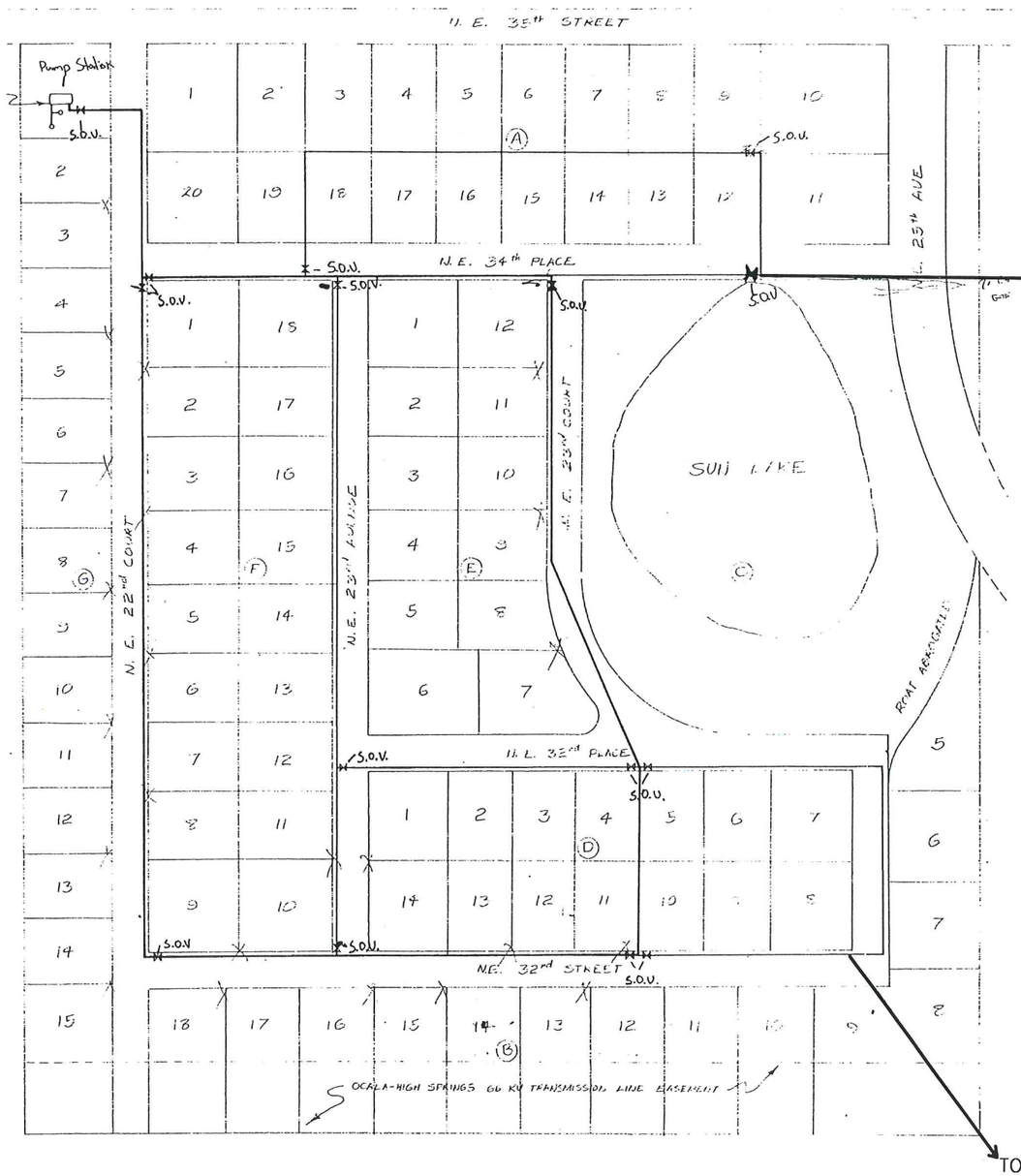
PWS ID # 3421314
Date 1/23/18

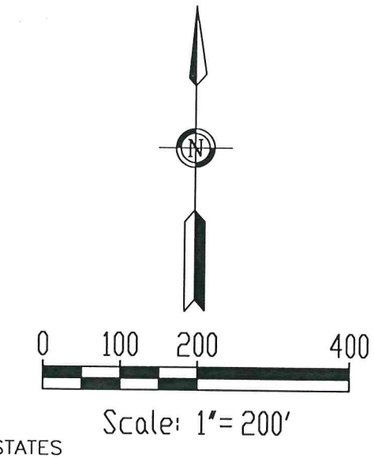
COMMENTS (continued):

- Suppliers of water shall issue precautionary "boil water" notices as required or recommended in the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(11), F.A.C.]

Inspector Signature	*Reviewer Signature*
Viviana Penuela Useche	Christine Daniel
Printed Name	*Printed Name*
Environmental Specialist	Environmental Manager
Title	*Title*
2-21-18	3/1/18

APPENDIX F: DISTRIBUTION MAP





H. W. BARRINEAU & ASSOCIATES, INC.
3100 SOUTHEAST 17th ST. SUITE 802
OCALA, FLORIDA 34471
PH (352) 840-0555
FAX (352) 840-0774

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FT. KING & MAIN
OCALA, FLORIDA

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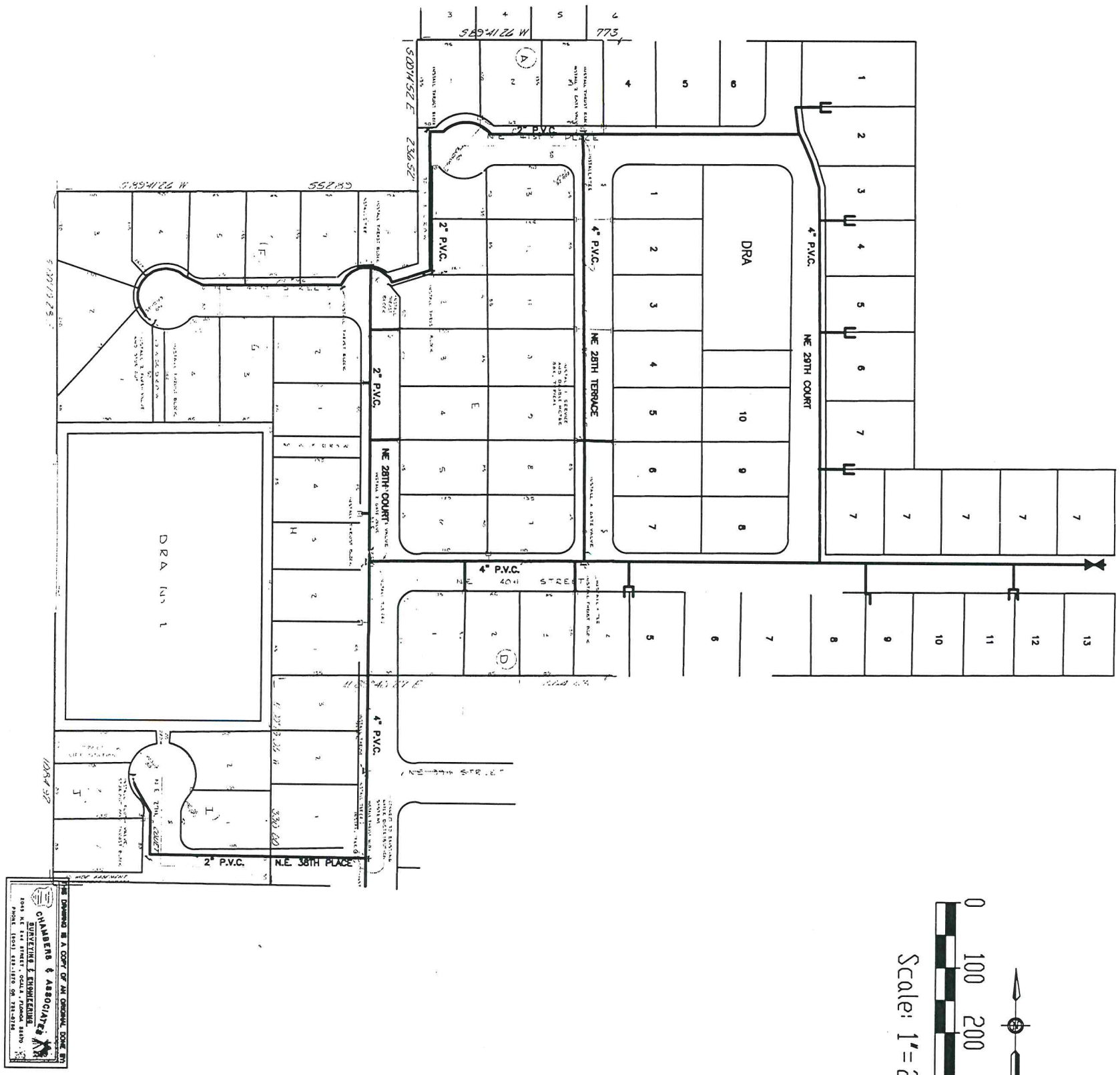
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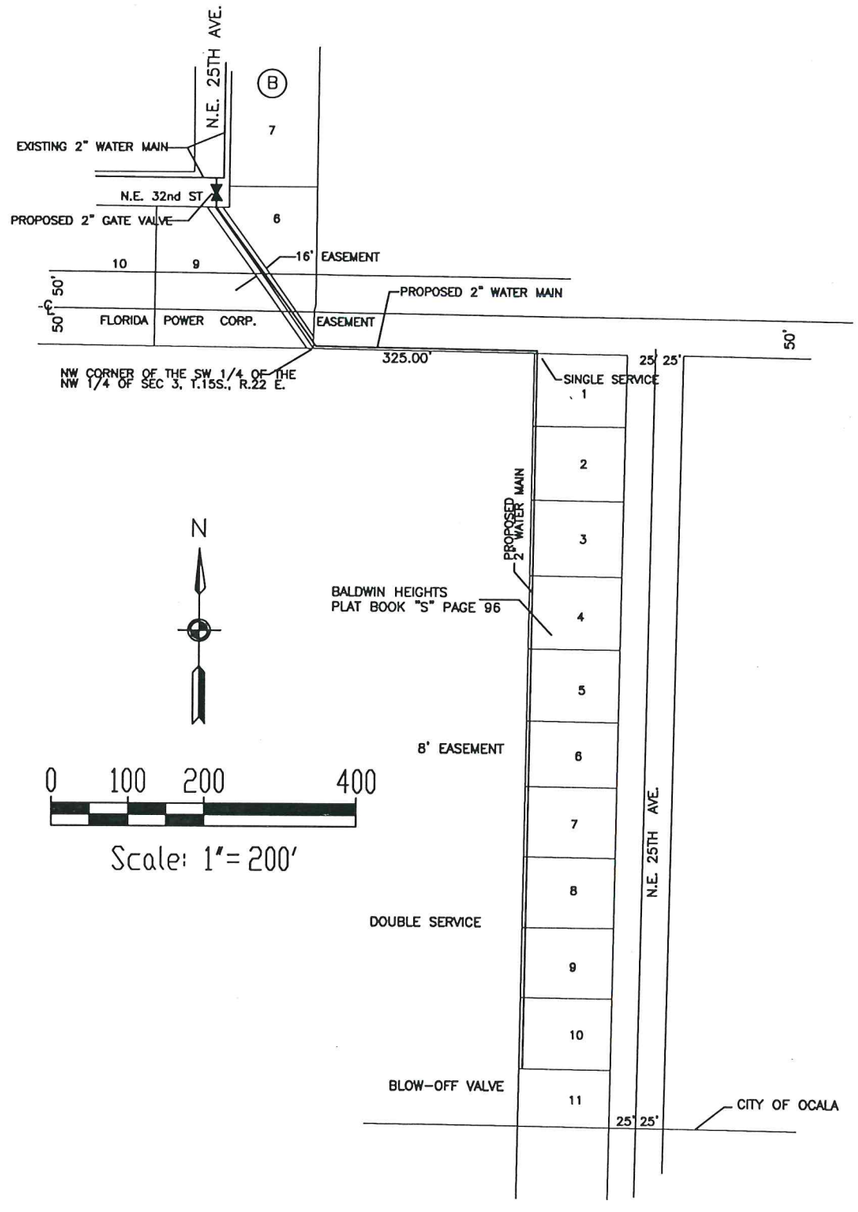
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SUGAR PLUM

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(352) 840-9774



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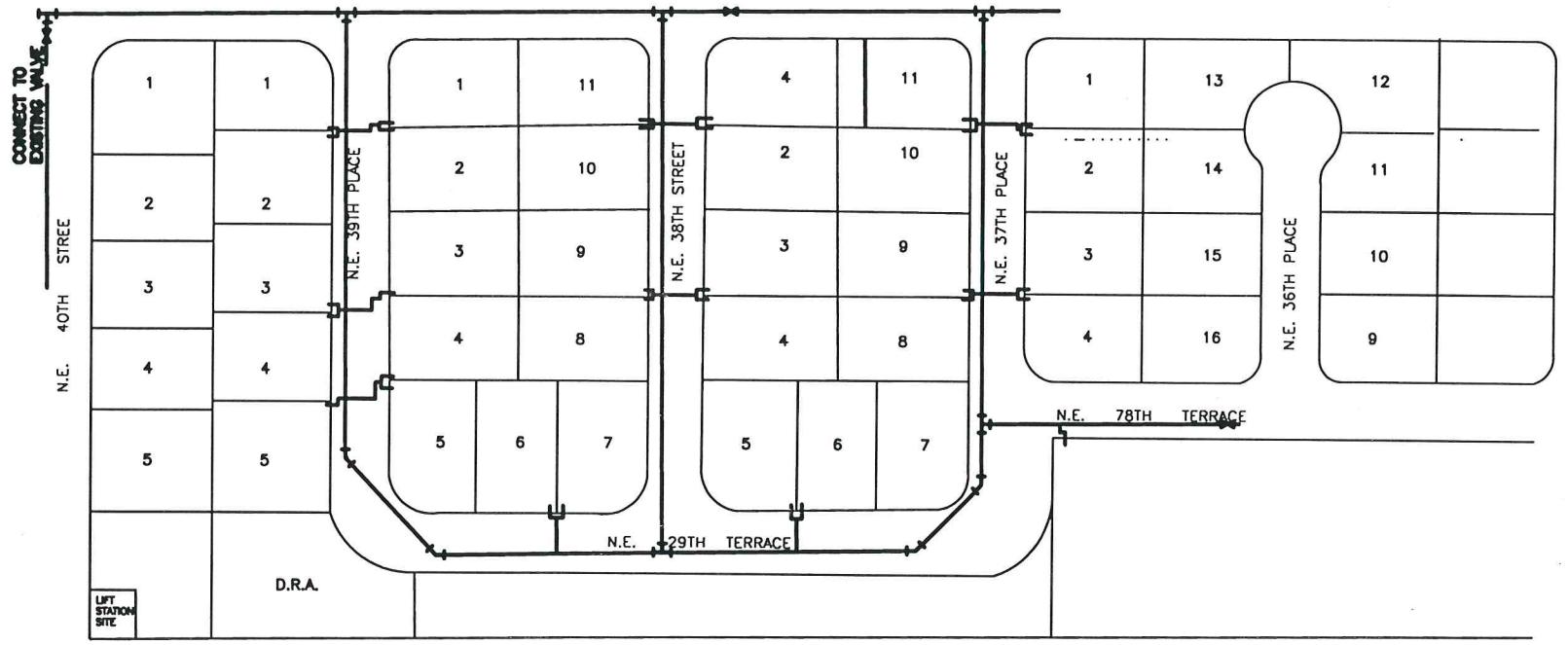
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0 100 200 400

Scale: 1"= 200'



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MARION COUNTY, FLORIDA

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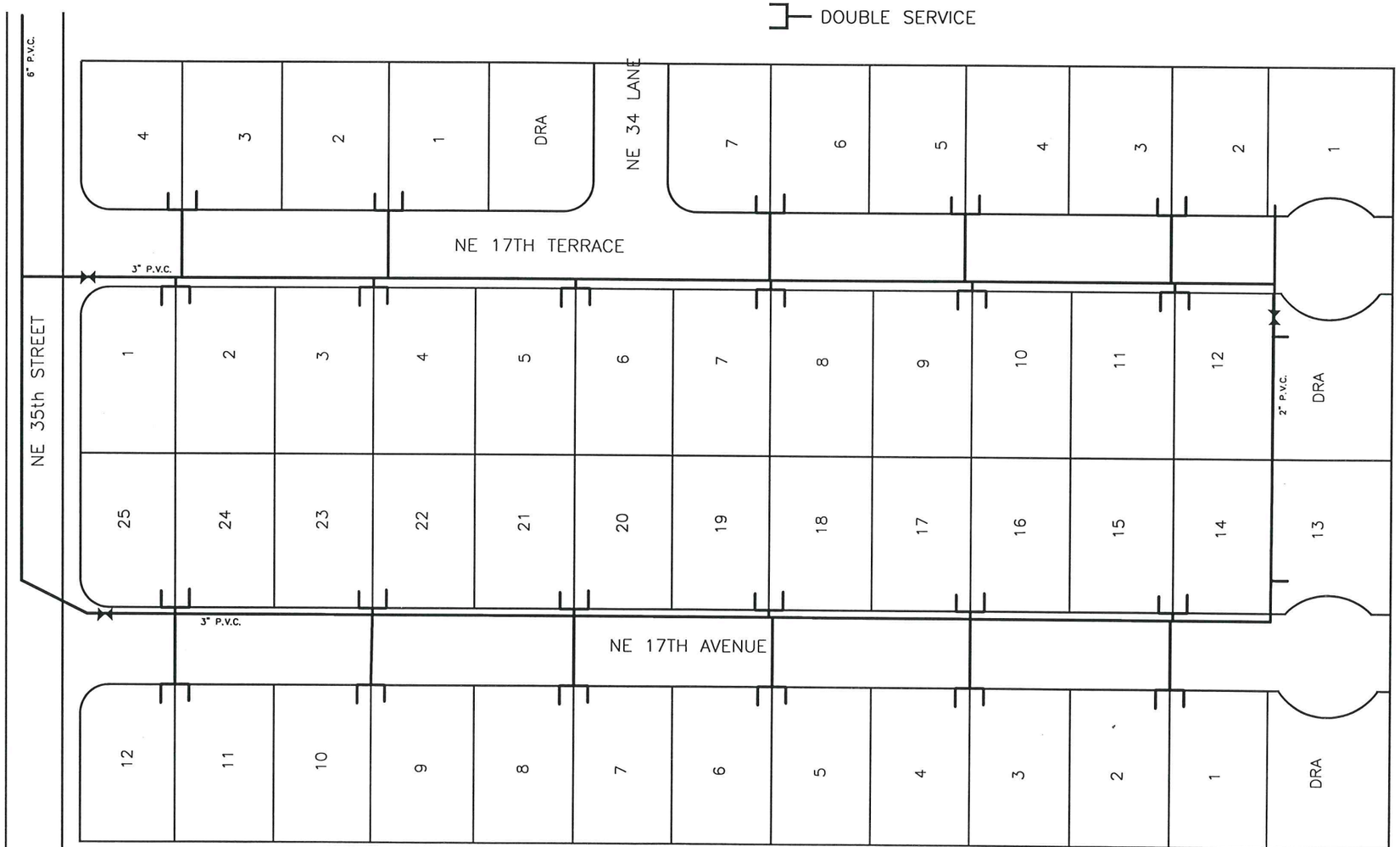
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JASON'S LANDING
WATER DISTRIBUTION SYSTEM

LEGEND

- 6" P.V.C. — EXISTING WATER MAIN &SIZE
- WELL LOCATION
- 6" GATE VALVE
- BLOW-OFF VALVE
- SINGLE SERVICE
- DOUBLE SERVICE



NOTE: THIS PLAN IS A COPY OF AN ORIGINAL OBTAINED FROM SUNSHINE UTILITIES, INC.

N

0 100 200

Scale: 1"= 100'

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JASON'S LANDING

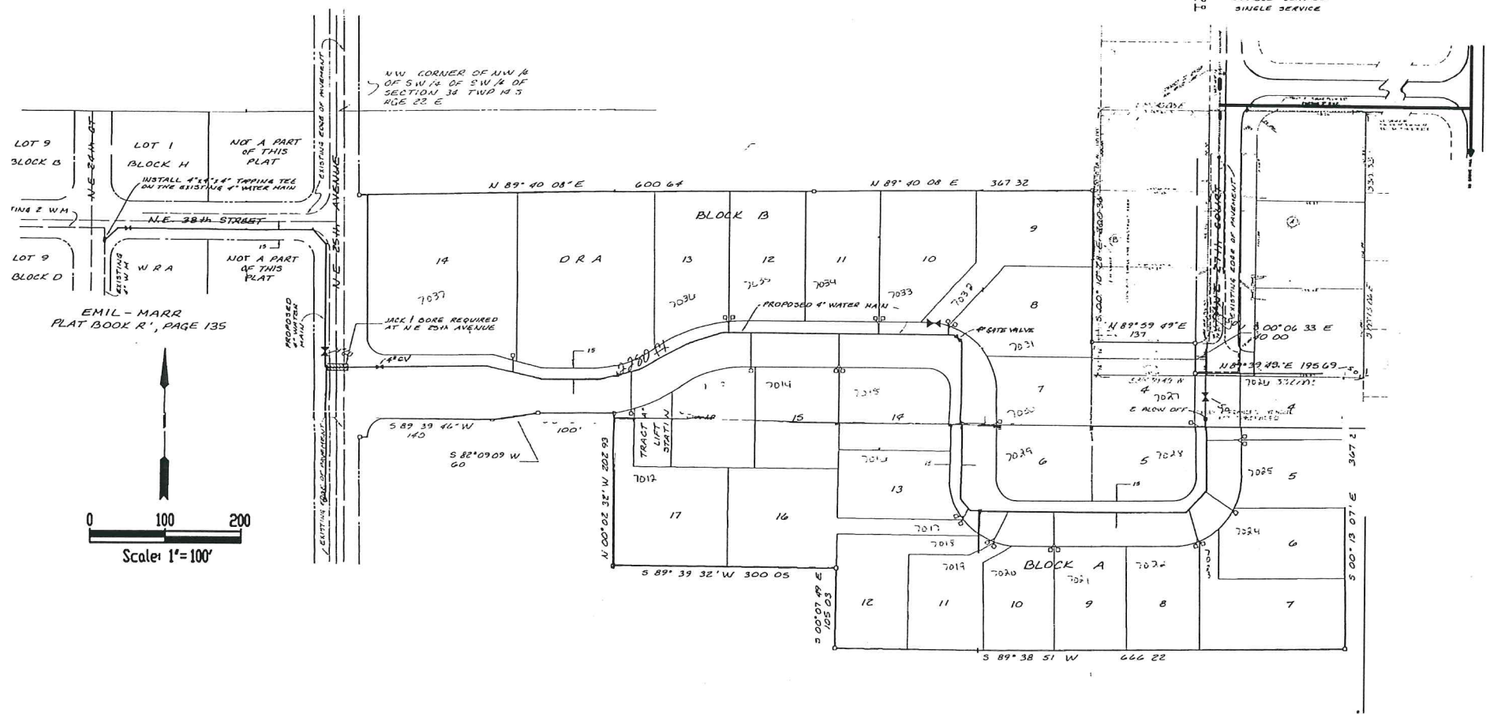
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PEARL BRITAIN ESTATES

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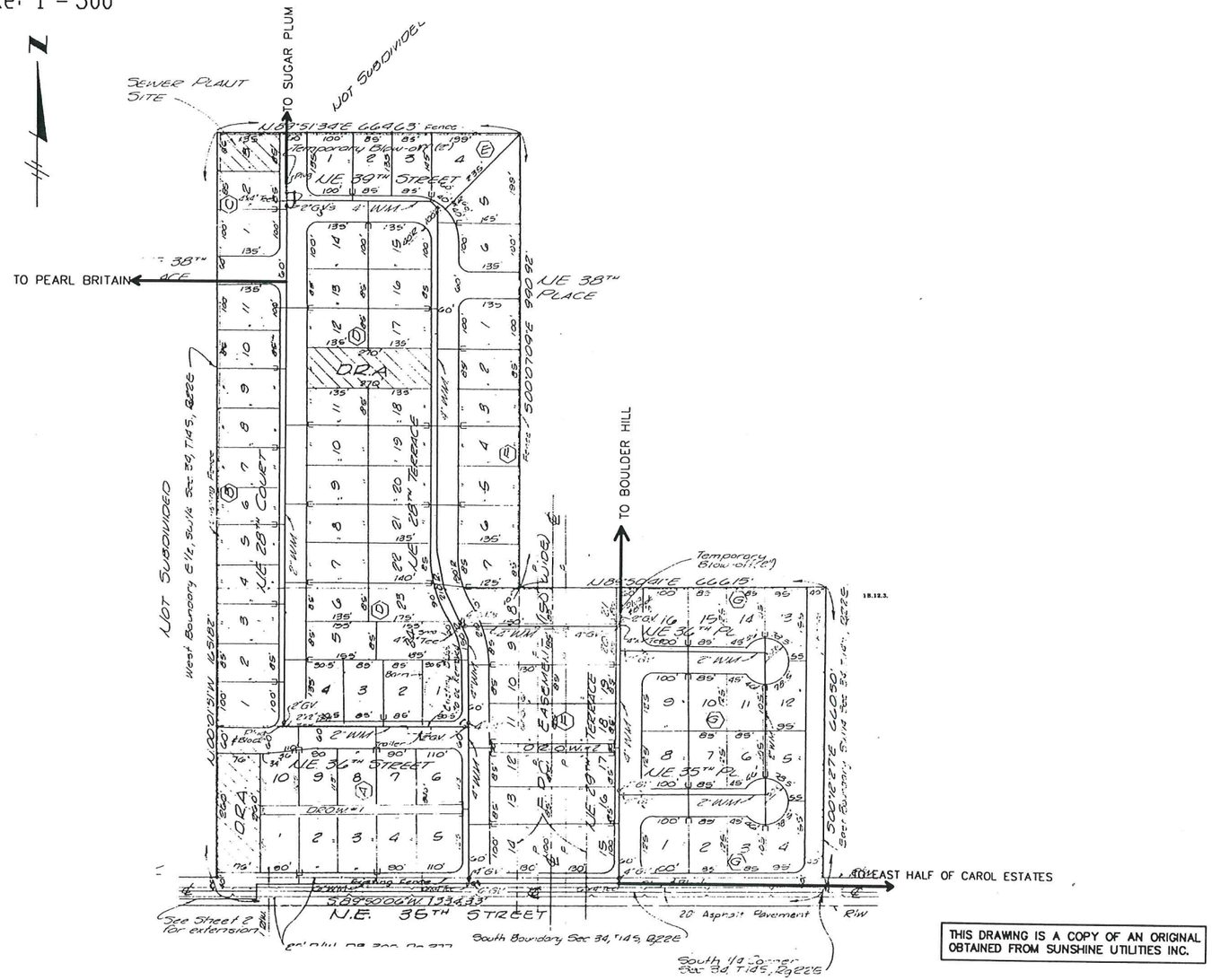
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0 100 200 300 600

Scale: 1"= 300'



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STONE HILL

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woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Sunlight Acres Subdivision

210 South Florida Avenue | Suite 220
Lakeland, Florida 33801
800.426.4262

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

0233748.01
CSWR
July 2021

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Figure 2-7: PIG Roll Top Hardcover Spill Pallet

APPENDICES

Appendix A: Source Water Assessment & Protection Program Results
Appendix B: Tank Inspection Report
Appendix C: Emergency Response Plan
Appendix D: Consumer Confidence Report
Appendix E: Sanitary Survey Report
Appendix F: Distribution Map

APPENDIX A: SOURCE WATER ASSESSMENT & PROTECTION PROGRAM RESULTS

» SWAPP Homepage
» Search By County
» Search by PWS Name or Number
» How to Help?

Definitions

» Aquifers
» Public Water Systems
» Assessment
» Potential Contaminants
» Susceptibility
» Prevention

Contact Us

» Email
» Mailing Address
» Source Water Protection Workshop

EPA Source Water Protection website

Source Water Assessment & Protection Program

Results for: 2019

SUNLIGHT ACRES SUBDIVISION
SE 32ND CT
BELLEVIEW, FL 34420

Public Water System ID: 3421520
County: MARION
DEP Regulatory Office: DEP Central District
3319 Maguire Blvd, Suite 232
Orlando, FL 32803
407-897-4100
Public Water System Type : COMMUNITY
Public Water System Source : GROUND
Primary Use: SUBDIVISION
Population Served: 198
Size of Assessment Area:
GROUND: For this system, a 1000-foot radius circle around each well was used to define the assessment area.

Number of Wells: 1

Well ID	Owner ID	FLUWID	Status	Well Depth(ft)	Aquifer
5765	6" WELL 66'/125'	AAE0260	ACTIVE	125	Floridan Aquifer

Results:

GROUND WATER:
A search of the data sources indicated no potential sources of contamination.

Last updated: February 19, 2020

Accessibility Information

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3900 Commonwealth Boulevard M.S. 49
Tallahassee, Florida 32399
850-245-2118 (phone) /
850-245-2128 (fax)

APPENDIX B: TANK INSPECTION REPORT

INSPECTION AND TESTING of HYDROPNEUMATIC TANK

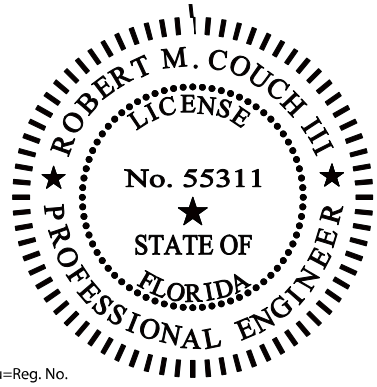
Sunlight Acres Subdivision Tank

Pursuant to Chapter 62-555.350 (1) & (2) F.A.C

Water System:	Sunlight Acres Subdivision
Street Address:	SE 32nd Court
City, State:	Belleview, Florida
Phone:	352-347-8228
Contact:	Dewaine Christmas
E-mail:	sunshineutl@aol.com
PWS ID No.:	3421520
County:	Marion
Classification:	Community
Source:	Ground
Ownership:	Sunshine Utilities of North Central Florida
Date:	November 28, 2018

Inspection and Testing by:

Robert M. Couch III, P.E.
ENVIRO-TECH, Inc.
15290 SE Highway 42, PO Box 152
Weirsdale, FL 32195
Telephone: 352-694-1799
E-mail: envirotech@ymail.com



C.O.A. No. 8692 Registration No. 55311

Robert M. Couch III, P.E.

Digitally signed by Robert M. Couch III, P.E.
DN: cn=Robert M. Couch III, P.E., o=ENVIRO-TECH, Inc., ou=Reg. No. 55311, email=envirotech@ymail.com, c=US
Date: 2018.12.19 01:14:00 -05'00'

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1.0 EXECUTIVE SUMMARY

ENVIRO-TECH, Inc. was contracted to perform the five year tank condition inspection on the above mentioned hydro-pneumatic tank.

This condition inspection was performed on November 28, 2018 by Robert M. Couch III, P.E. on the above referenced water tank. The tank was drained and, an internal and external inspection was performed to assess the tank condition as required by the Florida Department of Environmental Protection (FDEP) Rule 62-555.

The tank shell and heads appeared to be in overall fair structural condition. Ultrasonic Thickness Measurement (UTM) readings indicated that the average thickness of the tank shell at the time of the field inspection was approximately 3.78 millimeters. UTM readings from the tank heads indicated an average thickness of 7.36 millimeters. The exterior coating of the tank appeared to be in overall good condition with no notable surface corrosion. The interior coating of the tank appeared to be in overall fair condition. There was no coating on significant areas of the tank interior and corrosion was noted on the tank floor and walls.

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 50 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 41 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

2.0 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS CHAPTER 62-555.350 (1) & (2)

2.1 Operation and Maintenance of Public Water Systems

(1) Suppliers of water shall operate and maintain their public water systems so as to comply with applicable standards in Chapter 62-550, F.A.C., and requirements in this chapter.

(2) Suppliers of water shall keep all necessary public water system components in operation and shall maintain such components in good operating condition so the components function as intended. Preventive maintenance on electrical or mechanical equipment – including exercising of auxiliary power sources, checking the calibration of finished-drinking-water meters at treatment plants, testing of air or pressure relief valves for hydropneumatic tanks, and exercising of isolation valves –shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water; however, in no case shall auxiliary power sources be run under load less frequently than monthly. Accumulated sludge and biogrowths shall be cleaned routinely (i.e., at least annually) from all treatment facilities that are in contact with raw, partially treated, or finished drinking water and that are not specifically designed to collect sludge or support a biogrowth; and blistering, chipped, or cracked coatings and linings on treatment or storage facilities in contact with raw, partially treated, or finished drinking water shall be rehabilitated or repaired. **Finished-drinking-water storage tanks, including conventional hydropneumatic tanks with an access manhole but excluding bladder- or diaphragm-type hydropneumatic tanks without an access manhole, shall be checked at least annually to ensure that hatches are closed and screens are in place; shall be cleaned at least once every five years to remove biogrowths, calcium or iron/manganese deposits, and sludge from inside the tanks; and shall be inspected for structural and coating integrity at least once every five years by personnel under the responsible charge of a professional engineer licensed in Florida.** Dead-end water mains conveying finished drinking water shall be flushed quarterly or in accordance with a written flushing program established by the supplier of water; additionally, dead-end or other water mains conveying finished water shall be flushed as necessary whenever legitimate water quality complaints are received.

2.2 Location of Inspection and Testing Report

Pursuant to Chapter 62-555.350 (2) and 62-555.350 (12) FAC, beginning 28 August 2003, all water systems regardless of size must maintain a copy up-to-date Preventive Maintenance Logs of each water system in the water facility office. The Preventive Maintenance Logs must show the date and type of all maintenance performed and comply with Rule 62-555.350 (2) and 62-555.350 (12), which requires the following:

- Preventive Maintenance Logs on Electrical and Mechanical Equipment
- Cleaning and Inspection Logs of Treatment Facilities and Storage Tanks
- Records of Coatings and Linings Rehabilitation or Repair
- Licensed Engineer Inspection Report (once every 5-years) for Finished-Drinking-Water Storage Tanks and Hydropneumatic Tanks
- Written Flushing Program and Logs showing that Dead-End Water Mains are being flushed at least quarterly
- Isolation Valves Exercise Logs

A copy of this report should be kept with these records.

3.0 HYDROPNEUMATIC PRESSURE TANK INSPECTION AND TEST PROCEDURES

This Inspection and Test Procedures is used as a reference in the overall inspection and testing of this Water System. This procedure is to be updated from time to time to reflect physical and procedural changes to the water system.

Inspection and testing of this tank was conducted by Robert M. Couch III, P.E. with the assistance of Jim Hodges Jr. of Sunshine Utilities of North Central Florida, Inc. The following inspection and testing procedures for hydropneumatic pressure tanks were used:

3.1 Pre-Test Procedures

1. If water service is to be interrupted customers must be notified in advance and if appropriate, boil water notices issued.

2. Turn-off all electrical power to well pumps, air motors, chlorination equipment, etc.

3. Open drain valve to empty tank. This is also a good time to check the valves (exercise them) that isolate the tank to see if they are in fact working as they should. This downtime can also be used to replace a valve if needed.

4. Once depressurized, the site glass is inspected for proper operation.

5. Once the tank is drained, the manway (hatch) will need to be removed for inspection of the interior.

3.2 Visual Inspection

6. Perform visual inspection of the tank exterior and accessories for presence of leaks, shell distortion, signs of settling, deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, accessories, etc.

7. Tank layout and physical measurements

8. Color photographs of the tank exterior and all of the essential appurtenances

9. Perform visual inspection of the tank interior for presence of deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, bio-growths, calcium or iron/manganese deposits, sludge, etc.

3.3 Nondestructive Examination

10. The tank interior coating is then examined for dry film thickness (See PosiTest® DFT Coating Thickness Gauge measurement) or equivalent.

11. The tank exterior is then examined for thickness measurements (See Smart Sensor AR 850+ Ultrasonic Thickness Gauge measurement).

12. If deemed necessary, the tank exterior (or interior) is then examined for porosity, pinholes and leaks (See PCWI porosity detection test, also known as holiday detector test).

3.4 Post-Test Procedures

13. Any coating problems detected should be corrected while the tank is out of service in order to avoid further extensive downtime.

14. Once the tank is inspected and all maintenance items are taken care of, the tank will need to be disinfected prior to placing back in use.

15. Once the tank has been disinfected, bacteriological tests must be performed on water samples (2 per FDEP) taken from the tank discharge. FDEP to clear for service prior to placing back in service.

3.5 Safety of Test Area

The test area should be restricted and barricaded. The porosity testing instrument output can be up to 20,000 volts. Testing should be carried out well clear of personnel not involved in the testing procedure. Should accidental contact be made with the test electrode, the recipient will receive a mild shock. This equipment should never be used by a person with a pacemaker.

4.0 TEST EQUIPMENT DESCRIPTIONS

4.1 AR 850+ Ultrasonic Thickness Gauge



The Smart Sensor AR 850+ Digital Ultrasonic Thickness Gauge is an economical, user-friendly, menu driven, and multi-functional unit offering extensive features from basic measurements to extended memory. This dynamic series of UT gauges is designed to measure the thickness of metallic and non-metallic materials such as steel, aluminum, titanium, plastics, ceramics, glass and any other good ultrasonic wave conductor as long as it has parallel top and bottom surfaces. The AR 850+ gauges will accurately display readings in millimeters after a simple calibration to a known Thickness or sound velocity.

4.1.1 Features

- Main Unit
- Transducer 5 MHz / 2.5 MHz
- Integrated steel calibration plate 4.0mm
- Batteries (2 x AAA)
- Ultrasonic Couplant
- Operation Manual
- Certificate
- Carrying Case
- One Year Warranty

4.1.2 Technical Specification

Display Type	4-digit LCD
Display Resolution	(<100 mm) 0.1 mm
Units	Metric
Measuring Range (steel)	1.2 to 220.0 mm
Sound Velocity Range	1000 to 9999 m/s
Operating Temperature	0 ° C +45° C
Frequency	5 MHz
Power Source	3 X 1.5V AAA batteries
Dimensions	70x145.5x28 mm

4.2 Compact DC Inspector Porosity Detector



Porosity detection of Tanks, Valves, Pumps, Pipeline field joints, and general inspection and maintenance. Suitable for a broad range of testing and inspection requirements. It is recommended that the integral probe be limited to a 125mm flat brush or fan brush.

4.2.1 Standards

ASTM G62-87(1998), ASTM D4787-93(1999), NACE RP0274-98, NACE RP0490-2001, NACE RPO188- 99, JIS G-3491, JIS G-3492, ANSI/AWWA C214-89, ANSI/AWWA C213-94 and ISO 2746:1998

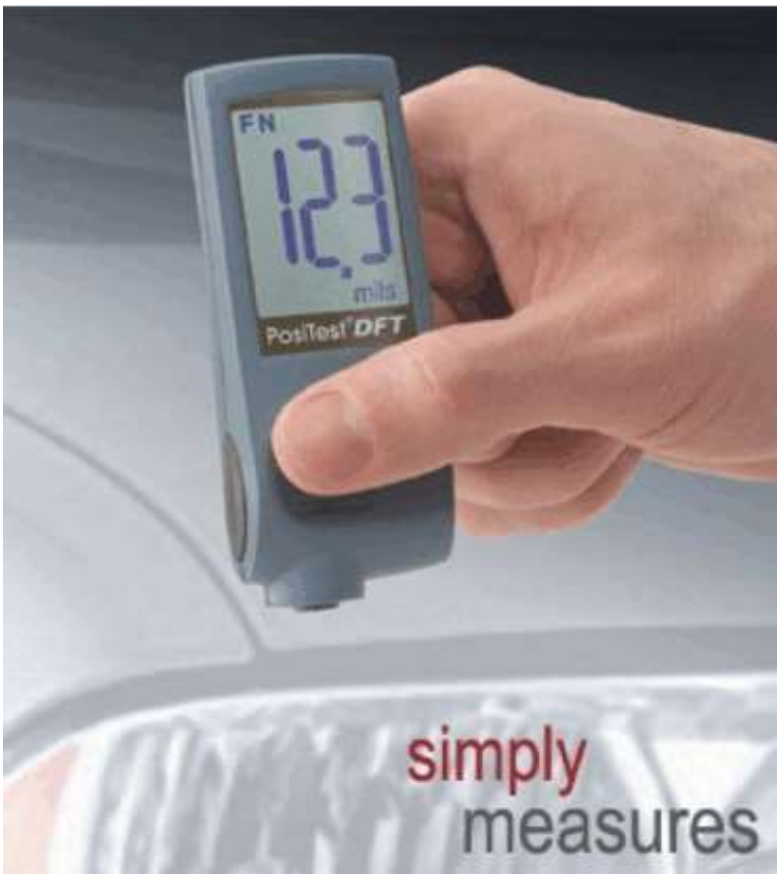
4.2.2 Features

- LED bar graph display of voltage
- "Single" hand-held, lightweight unit for simplicity and ease of operation
- Audible and visual alarms
- LED battery condition indicator
- Integral probe
- Detector
- 7m Earth lead and clamp
- Flat 125mm wide brass wire brush (or optional fan brush)
- Carry Case
- Operating instructions with conformance certificate
- Variable output up to 10kV or Variable output up to 20kV

4.2.3 Technical Specifications

Test Voltage	to 10kV (using 9V Battery)
Output Test Current	up to 100µA
Operating Temperature	-20 to +50ºC
Power Supply	Battery (9V internal)
Unit Dimensions	210 x 75 x 35mm (excl brush) 8.25" x 3.1" x 1.5"
Unit Weight	460g (incl probe)
Shipping Weight	1.5Kg

4.3 PosiTest DFT Coating Thickness Gauge



The new PosiTest DFT Coating Thickness Gauge measures coatings on ALL metals. It is the economical choice that retains the uncompromising quality of Qualitest inspection instruments.

Available in two models:

- PosiTest DFT Ferrous - measures non-magnetic coatings on steel.
- PosiTest DFT Combo - measures both non-magnetic coatings on steel and non-conductive coatings on aluminum, brass, etc. Automatically recognizes the substrate and takes a measurement.

4.3.1 Standards

ASTM B244/B499/B659/D1186/D1400/E376/G12, BS3900-C5, SSPC-PA2, ISO 2178/2360/2808, prEN ISO 19840, and others. Certificate of Calibration traceable to NIST available.

4.3.2 Features

- Fast, repeatable measurements
- No calibration required for most applications
- ZERO feature for rough or curved surfaces
- Handy RESET feature when no zero reference is available
- Strong, wear resistant, ruby-tipped probe
- Audible and visible measurement indication
- V-groove in probe for positioning on cylindrical parts
- Mils/Microns switchable
- Basic instructions on the back of each gauge

4.3.3 Technical Specifications

Measurement Range	0-40 mils (-1000 µm)
Accuracy	±(0.1 mils + 3%) (±(2µm + 3%))
Size	4 x 1.5 x 0.9 in (100 x38 x 23 mm)
Weight	2.5 oz (70 g)



5.0 HYDROPNEUMATIC PRESSURE TANK DESCRIPTION

The hydropneumatic pressure tank inspected and tested is described as follows:

Length: 11'-11" (13'-5" including elliptical heads)
Diameter: 5'-3" outside diameter
Volume: 2,000 gallons with elliptical heads
Tank Age: Approximately 33 years
Operating Pressure: 60 psi

6.0 TESTING

6.1 Porosity Testing

The tank surface was not swept with the Compact DC Inspector Porosity Detector during this inspection as no evidence of pin holes was observed throughout the surface of the tank.

6.2 Interior Coating Testing

No dry film thickness readings were taken within the tank interior as the coating had failed.

6.3 Ultrasonic Metal Thickness Testing

A total of 51 metal thickness readings were taken at various locations on the tank shell and head surface. The average shell reading was 3.78 millimeters in the cylindrical section and 7.36 millimeters in the elliptical heads. Typical industry standard minimum wall thickness for tanks of this size is 1/4" (6.35 mm).

7.0 VISUAL OBSERVATIONS

7.1 Tank Exterior

The exterior of the tank appeared to be in fair structural condition. No lichens were growing on the tank exterior at the time of the inspection.

7.2 Tank Interior

The tank interior appeared to be in poor condition. There were significant areas with no coating present on the interior tank surface. There was corrosion noted throughout the tank interior.

8.0 DEFINITIONS

Design Pressure - The maximum design pressure determined from the metal thickness.

Maximum allowable working pressure (MAWP) – Maximum pressure that the pressure tank is capable of safely holding at a design maximum temperature (250ºF).

Operating Pressure - The normal maximum operating pressure of the pressure tank. The normal operating pressure must always be below the MAWP. As a rule of thumb the maximum operating pressure should always be less than the MAWP.

Metal Thickness – The thickness of the pressure tank wall (not including a corrosion allowance) to be used in the pressure calculations.

Design Safety Factor on Metal Tensile Strength – A pressure tank is normally designed with a safety factor of 3 to 4 on the metal tensile strength. All pressure tanks are designed to operate with wall stresses below the yield point of the metal used for fabrication.

9.0 TANK PRESSURE CALCULATIONS

The following formula is found in ASME Section I for determination of MAWP:

For tanks with circumferential stress on (longitudinal joints)

P = SEt/(R+0.6t)
= 60 MPa x 1.0 x 3.78 mm / (796 mm+0.6 x 3.78 mm)
= 0.284 MPa
= 41 psi

When:

t < 0.5R = 0.5 x 796 = 398 mm (true) or
P < 0.385SE = 0.385 x 60 x 1.0 = 23.1 MPa (true)

Where:

t = metal thickness (mm) where t = 3.78 mm
R = inside radius of shell course under consideration (mm) = 796 mm
E = joint efficiency for cylindrical or spherical shells = 1.0 for welded tanks and corresponds to a safety factor of 3.5 in the parent metal.
P = maximum allowable working pressure (MPa) where 1 MPa = 41 psi
S = maximum allowable stress value at the operating temperature of the metal = 60 MPa (Safety Factor of 4).

10.0 CONCLUSIONS

Inspection and testing of the Sunlight Acres subdivision 2,000-gallon hydropneumatic pressure tank was performed on November 28, 2018. In addition to a visual examination, non-destructive examinations were also made. Non-destructive examinations included ultrasonic measurement of the tank wall thickness and visual inspection for pinholes and leaks. No examination of Dry Film Thickness Measurement (DFTM) of the interior coating was performed as there was no interior coating present on significant portions of the interior.

Observations of the tank exterior indicated tank is subject to normal exposure. Observations of tank interior revealed surface corrosion throughout significant portions of the tank interior.

11.0 RECOMMENDATIONS

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 50 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 41 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

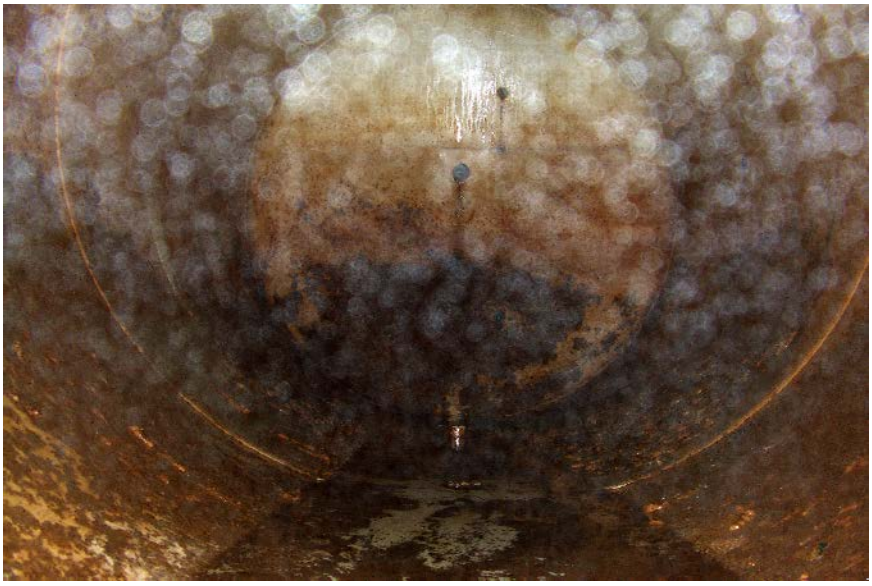
Signed: Robert M. Couch III Date: 12/19/2018

Robert M. Couch III, P.E. Registration No. 55311

Exterior and interior views of tank







APPENDIX C: EMERGENCY RESPONSE PLAN

Disaster-Specific Preparedness/Response Plan

for Public Drinking Water Systems

Per Chapter 62-555.350 (15) F.A.C.

Sunshine Utilities

SUNLIGHT ACRES

Address:	10230 East Hwy. 25 Belleview, FL 34420
Phone:	352-347-8228
Fax:	352-347-6915
Contact:	Dewaine Christmas, Manager
E-mail:	SunshineUtl@AOL.COM
Connections:	68
PWS:	3421520
County:	Marion

May 17, 2013

Department of Environmental Protection
Michael D. LeRoy, P.E.
John R. Sowerby, P.E.

FRWA Security Staff
Sterling L. Carroll, P.E.
Ken Klos, P.E.
Coy Donaldson

For more information or additional copies of this document contact:

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2970 Wellington Circle ~ Suite 101 ~ Tallahassee
Telephone: 850-668-2746 ~ Fax: 850-893-4581
e-mail: FRWA@frwa.net

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This template and guide has been developed by the Florida Rural Water Association (FRWA) in collaboration with the Washington State Department of Health, Office of Drinking Water, Olympia, Washington; and reviewed by Florida Department of Environmental Protection.

Acknowledgment of federal government support of this project:

This project and the preparation of this booklet was funded in part by a Water Protection Coordination grant from the Environmental Protection Agency through an agreement/contract with the Drinking Water Program of the Department of Environmental Protection. Total cost of the project was $3,000 of which $3,000 or 100 percent, was provided by the U.S. Environmental Protection Agency.

Preface
Chapter 62-555.350 (15) FAC

Disaster-Specific Preparedness/Response Plans

(15) Suppliers of water who own or operate a community water system serving, or designed to serve, 350 or more persons or 150 or more service connections shall develop a written emergency preparedness/response plan in accordance with Emergency Planning for Water Utilities, AWWA Manual M19, as adopted in Rule 62-555.335, F.A.C., by no later than December 31, 2004, and shall update and implement the plan as necessary thereafter. Said suppliers of water shall coordinate with their Local Emergency Planning Committee and their Florida Department of Law Enforcement Regional Security Task Force when developing their emergency plan and shall include in their plan all of the information in paragraphs (a) through (e) below.

(a) A Communication Charts as described in Chapter 5 of AWWA Manual M19.

(b) Written agreements with other agencies, utilities, or response organizations.

(c) A disaster-specific preparedness/response plan as described in Chapter 5 of AWWA Manual M19 for each of the following disasters: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release. Each disaster-specific preparedness/response plan shall incorporate the results of a vulnerability assessment; shall include actions and procedures, and identify equipment, that can obviate or lessen the impact of such a disaster; and shall include plans and procedures that can be implemented, and identify equipment that can be utilized, in the event of such a disaster.

(d) Details about how the water system meets the standby power requirements under subsection 62-555.320(14), F.A.C., and, if applicable, recommendations regarding the amount of fuel to maintain on site, and the amount of fuel to hold in reserve under contracts with fuel suppliers, for operation of auxiliary power sources.

(e) If applicable, recommendations regarding the amount of drinking water treatment chemicals, including chemicals used for regeneration of ion-exchange resins or for onsite generation of disinfectants, to maintain in inventory at treatment plants.

Specific Authority 403.861(9) FS. Law Implemented 403.852(12), 403.853(6), 403.861(17) FS. History-New 11-19-87, Formerly 17-22.650, Amended 1-18-89, 1-1-93, Formerly 17-555.350, Amended 8-28-03.

Time Extension for Submitting/Completing ERP – December 31, 2005

From: Hoofnagle, Van
Sent: Thursday, October 21, 2004 11:25 AM
Subject: Time Extension for Submitting/Completing ERP
Importance: High

I am sending this e-mail because of possible confusion in some FDEP District Offices or ACHDs regarding the deadline for compliance with the emergency preparedness/response plan requirements in FAC subsection 62-555.350(15).

As John Sowerby and other staff mentioned during Focus On Change presentations early this year on FAC Rule 62-555.350 and during training this summer on the recent amendments to FAC Chapter 62-555, the FDEP intends to amend FAC subsection 62-555.350(15) to give all affected community water systems (i.e., all community water systems serving 350 or more persons or 150 or more service connections) **until the end of 2005** instead of the end of this year to complete a comprehensive emergency preparedness / response plan as required by FAC subsection 62-555.350(15). At this point, it will likely be after the end of this year before we officially make this change to FAC subsection 62-555.350(15). In the meantime, please do not take any enforcement action against

community water systems who fail to meet the 12/31/04 deadline in FAC subsection 62-555.350(15). Thanks.

Van Hoofnagle
DEP Drinking Water Administrator

Section 1
Communication Charts

The first response step in any emergency is to inform the person at the top of this list, who is responsible for managing the emergency and making key decisions. List the water system chain of command in order of contact.

Water System Chain of Command – Lines of Authority

Order	Name & Title	Responsibilities During an Emergency	Contact Information
1	Dewaine Christmas Manager	Responsible for overall management and decision making. The manager is the lead for managing the emergency and providing information to regulatory agencies. All communications to external parties are to be approved by the manager.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl@AOL.Com
2	James Hodges Jr. Field Supervisor	Responsible for decision making in the field. In charge of overall maintenance, and repairs to all components of water system.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl @AOL.Com
3	Kelvin Edun Water Treatment Plant Operator	Responsible for running water treatment plant, performing inspections, maintenance, sampling and relaying all critical information to Field Supervisor.	Phone: Cell: 352-875-5141 Email:
4	Pamela Christmas Office	Responsible for assisting the manager in administrative duties and emergencies.	Phone: 352-347-8228 Cell: 352-245-4743 Email:
5			Phone: Cell: Email:
6			Phone: Cell: Email:
7			Phone: Cell: Email:

Emergency Notification

Notification call-up lists - Use these lists to notify important parties of an emergency.

Emergency Notification List

Organization or Department	Name & Position	Telephone	Cell Phone	e-mail
State Warning Point	**Duty Officer**	**800-320-0519**	800-320-0519	N/A
Local Law Enforcement	EOC Commander	352-622-3205		Pstefanski@sheriff.marioncountyfl.org
Fire Department		911		
Emergency Medical Services		911		
Water Operator (if contractor)	Kelvin Edun Operator	352-875-5141		
County Health Department	Tom Moore Director of Environmental Health	352-622-7744	352-266-7486	
DEP District Office	Manny Cardona	407-897-4134	Fax 407-893-4418	
County Emergency Management Dept.	Chip Wildy	352-622-3205		
Local Leader (City Mgr., Mayor, Chair. Co. Comm., etc.)				
Local Hazmat Team (if any)		911		
Hazmat Hotline		911		
National Spill Response Center.	Duty Officer	800-424-8802	800-424-8802	N/A
Interconnected Water System(s)				
Neighboring Water System (not connected)				
FRWA Water Circuit Rider	Tom Gustafson	850-668-2746	352-267-1302	

Priority Customers

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Hospital Or Clinic(s)				
Nursing Home(s)				
Public Schools				
Private Schools				
Wastewater Treatment Plant				
Food Processing Or Other Industry				

Service / Repair Notifications

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Electric Utility Co.	SECO	352-237-4107		
Electrician	Melville Electric	352-245-0600		
Gas / Propane Supplier	Belleview Gas	352-245-6055		
Water Testing Lab.	Aqua Pure Lisa Saupp	352-625-2822		
Sewer Utility Co.				
Telephone Co.	Sprint	800-788-3600	611	
Plumber	ACP	352-427-7036		
Pump Supplier	Coast Pump	352-620-0616	352-266-4277	Coastpumpocal@hotmail.com
"Dig Safe" or "One Call"	Sunshine One Call	800-432-4770		
Rental Equip. Supplier	B&M Rental	352-245-3133	352-245-9800	

Service / Repair Notifications				
Organization Or Department	**Name & Position**	**Telephone**	**Cell Phone**	**email**
Chlorine Supplier	Custom Controls	352-622-9244	352-304-0572	
Other Chemical Suppliers				
Radio/SCADA Repair Co.				
Bottled Water Service				
Bulk Water Supplier				
Well Drilling Co.	Earls Well Drilling David Moffitt	352-245-2324	352-817-0502	
Pipe Supplier	National Water Works Roy Sands	352-351-8144	352-266-4705	

Designated Public Spokesperson and Alternates

Designate a spokesperson (alternates) for delivering messages to the news media & public

Public Spokesperson	Name & Position	Telephone	Cell Phone
Spokesperson	Dewaine Christmas Manager	352-347-8228	352-239-1198
Alternate 1	James Hodges Jr. Supervisor	352-347-8228	352-239-1197
Alternate 2			

Key Messages

Develop possible messages in advance, and update them as the emergency develops
▪ We are aware of the emergency and are working diligently to restore your water service.
▪ If you fall under a boil water notice you must bring water to a rolling boil for a period of at least one minute. You only have to boil water for human cunsumption.

▪

Health Advisories – Boil Water Notices

Use the assistance of your County Health Department and/or District FDEP office, and FDEP's Mandatory Health Effects Language, located on FDEP's website at:

http://www.doh.state.fl.us/environment/water/manual/boil.htm

http://www.DEP.state.fl.us/water/drinkingwater/rules.htm,

and click on "Mandatory Health Effects Language"., PLUS EPA's templates at:

http://epa.gov/safewater/pn.html

Click on "Microsoft Word and Word Perfect files of PN templates" (PN means Public Notifications), then determine which "Tier" of notifications is needed and click on the desired software to receive them in.

Section 2
Written Agreements With Other Agencies, Utilities, or Response Organizations

INSERT BELOW information regarding any written agreements with other agencies, utilities, or response organizations, such as emergency interconnects, mutual aid or FlaWARN.

Emergency Interconnect(s)

Information on the location of interconnection(s) (if any), type and size of interconnecting pipe, pumps and accessory equipment, meters at interconnection(s), normal pressures at both ends of interconnection, volume of water from interconnection(s), type of agreement and approvals needed for use, procedures necessary to use interconnection, etc.

Location (Street)	
Location (GPS)	
Description	

Memoranda of Understanding

Organization	
Summary of Understanding	

Mutual Aid Agreements

Organization	Marion Utilities, 352-622-1171
Summary of Understanding	Will render mutual aide – ie: pumps, generators, and other materials necessary to restore water service.

FlaWARN

Organization	
Summary of Understanding	

Section 3
Disaster-Specific Preparedness/Response Plan

Your disaster-specific preparedness/response plan must include a Vulnerability Assessment and preparedness / response plans for: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release.

In any event there are a series of general steps to take:

1. Confirm and analyze the type and severity of the emergency.
2. Take immediate actions to save lives.
3. Take action to reduce injuries and system damage.
4. Make repairs based on priority demand.
5. Return the system to normal operation.

Vulnerability Assessment

It is essential that water systems identify and assess the vulnerability of each system component for both natural and human-caused emergencies, before preparing their disaster-specific preparedness/response plans. Prepare your Vulnerability Assessment by completing the table below:

Facility Vulnerability Assessment

System component	Description and condition	Vulnerability	Security improvements (indicate existing or proposed)
Raw Water Sources	(1) 6" groundwater wells located several hundred feet from homes. Wells are in good condition. We have wellhead protection in place.	The well is most vulnerable to above ground activities because it is only 125 FT deep.	1.Purchase land surrounding well. 2. Secure well house to foundation and install lighting around well house.
Pump-house and pumping facilities	The pump-house and pumping facility are in good condition.	Pump location is fully fenced with a locked gate.	Install tamper proof padlocks.
Treatment Facilities	There is a hypo-chlorination system inside of pump house. System is in good condition.	Chlorination systems are not subject to power outages.	There is a backup generator on site in compliance with CH. 62-555.320(14)FAC
Storage Facilities	Hydro pneumatic tank is fenced in good condition.	Tank is not in a lighted area.	Install lighting in area of tank.
Computer and telemetry systems	Computers are in utilities main office and are in good condition.	Computers should be better protected against cyber attack or hacking.	Secure computers with firewalls & virus protection.

A. Vandalism or Sabotage Response Procedures

1. Utility staff first aware of incident:
    a) Calls 9-1-1/ Local Law Enforcement.
    b) Calls Manager
2. Manager determines severity of incident.
    a) Field supervisor determines if vandalism or sabotage will effect the water quality.
    b) Manager reports incident to the state warning point.
3. Field supervisor directs repairs as needed.
    a) Complete repairs
    b) Update ERP as needed.

B. Drought Response Procedures

Include water use restrictions per Consumptive Use Permit

1. Manager coordinates with the local Water Management District (WMD) regarding drought conditions.
    a) If drought conditions exist, a water conservation plan will be initiated.
    b) Literature will be distributed to customers regarding the drought.
    c) Conservation material will be distributed to customers on conservation measures.
    d) Customers not abiding by restrictions will be reported to WMD.
    e) Manager updates ERP as needed.

C. Hurricane Preparedness & Response Procedures

Pre- Hurricane **(36 to 48 hrs prior to arrival)**	1. Manager coordinates with local EOC. 2. Field supervisor checks operation of standby power. 3. Field supervisor secures fuel and treatment chemicals for a 10 day period. 4. Manager replenishes inventory of spare parts.
Hurricane Watch **(24 to 36 hrs prior to arrival)**	1. Manager cancels all time off for employees. 2. Manager issues work assignments in advance in case of communication loss. 3. Employees all top off fuel in vehicles & standby generators. 4. Manager authorizes employees to secure their personal property and arrange for the safety of family members.
Hurricane Warning (24hrs or less prior to arrival)	1. Employees report to designated areas and wait for instructions. 2. Employees load truck with supplies. 3. Employees follow evacuation protocol.
Recovery Procedures	1. Manager coordinates with local EOC. 2. Manager issues boil water notices if needed. 3. Field supervisor coordinates repairs. 4. Manager makes contact with the appropriate DEP office. 5. After repairs are completed samples are taken. 6. When samples come back clear – boil water notice is lifted. 7. Manager files all malfunction reports with the DEP. 8. Field supervisor inspects all systems to make sure everything is running smooth.

D. Structure Fire Response Procedures

1. Utility staff discovering fire:
    a) Evacuate structure on fire.
    b) Call 9-1-1
2. Manager determines severity of incident.
    a) Manager contact State Warning Point.
    b) Field supervisor coordinates repairs when fire is extinguished.
3. Field supervisor reports to manager when repairs are complete.
    a) Manager reports completion of all repairs to any Gov. agency.
    b) Manager updates ERP as needed.

E. Flood Preparedness & Response Procedures

(Is any critical part of your system in a flood prone area?)

None of our systems are in a flood prone area.

F. Forest or Brush Fire Response Procedures

(Is any critical part of your system subject to forest or brush fires?)

1. Utility staff discovering fire.
    a) Orders evacuation of any threatened buildings.
    b) Calls 9-1-1 to report fire.
2. Manager determines the severity of fire.
    a) Manager contacts the State Warning Point.
    b) Field supervisor inspects for any damage and coordinates repairs after fire is extinguished.
3. Field supervisor reports to manager that all repairs are complete.
    a) Manager updates the ERP as needed.
    b)

G. Hazardous Material Release Response Procedures

Do you have any hazardous material (chlorine gas) at your water system?

We have no Hazardous materials at any of our water systems.

H. Other Disaster Response Procedures

Are there other disasters that you want to prepare for, such as a Contamination event, SCADA Attack, or Structural Damage from an Intentional Act?

Contamination

1.
   a)
   b)
2.
   a)
   b)

SCADA Attack

1.
   a)
   b)
2.
   a)
   b)

Structural Damage from an Intentional Act

1.
   a)
   b)
2.
   a)
   b)

Section 4
Standby Power Requirements

Include details about how the water system meets the standby power requirements as described in Ch. 62-555.320(14), and 62-555.350(15)(d) FAC for water source, treatment, and pumping facilities necessary to deliver drinking water at a rate at least equal to the Average Daily Water Demand.

Standby Power for Wells or Surface Water Intakes

Standby Power (or by alternate means) to OPERATE WELLS at Average Daily Demand

Average Daily Demand (ADD) in gpd or gpm	15425 gpd
Wells Needed to Supply Average Daily Demand	1
Standby Generator (kW) Needed for ADD &	30 KW
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	We will have reserve fuel in the case of an emergency.

Standby Power for Treatment Facilities

Standby Power (or by alternate means) to TREAT WATER at Average Daily Demand

Treatment Units Needed to Supply ADD	
Standby Generator (kW) Needed to Treat ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Standby Power for Pumps

Standby Power (or by alternate means) to PUMP WATER at Average Daily Demand

Pumps Needed to Supply ADD	
Standby Generator (kW) Needed to Pump ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Section 5
Drinking Water Treatment Chemicals & Disinfectants

Include recommendations regarding the amount of drinking water treatment chemicals, to maintain in inventory at treatment plants. Do not just list chemical storage capacity, but instead recommend the minimum amount of chemicals to maintain in inventory, which depends upon the location and reliability of chemical suppliers, the status of impending disasters, etc.

Disinfection Treatment Information

Disinfection Chemical(s)	Chemical / Location No. 1	Chemical / Location No. 2
Type of Chemical	Chlorine	
Type of Chemical Feed	Hypo-Chlorinator	
Chemical Storage Location	On site in the pump house.	
Recommended Minimum Amount to be Maintained in Storage (gal)	55 gallons	

Other Chemical Information

Chemical(s) Used	Chemical #1	Chemical #2	Chemical #3	Chemical #4
Type of Chemical				
Type of Chemical Feed				
System Location				
Chemical Storage Location				
Recommended Minimum Amount to be Maintained in Storage (gal)				

Appendix A
Basic System information

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Keep this basic information readily available for when you need it for emergency responders, repair people, the news media and potentially, an emergency operator.

Basic System Information

GPS coordinates will help emergency crews find your system following a major catastrophe.

System identification number (PWS ID)	**3421520**	
System name and address	**Sunlight Acres**	
GPS Coordinates	Latitude:	Longitude:
Basic description and location of system facilities	**13035 se 32nd Ct**	
Population served and service connections.	Population =	Connections = 68
System Owner	**Sunshine Utilities of Central Florida, Inc.**	
Management Authority	**Owner and Manager**	
Name, title, and phone numbers of person responsible for maintaining and implementing the ERP.	**Dewaine Christmas** **Manager**	**352-347-8228 phone** **352-239-1198 cell**

System Demand

Demand based on Monthly Operational Records and system capacity based on Sanitary Survey.

Average Daily Demand (gpd)	15425 GPD
Maximum Daily Demand (gpd)	18500 GPD
System Capacity (gpd)	180000 GPD
Peak Hour Demand (gpm)	N/A

Location of Pertinent Information

Item	Location
Distribution System Map	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
O&M Manual(s)	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
Start-Up / Shut-Down Procedures	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.

Well Information

GPS coordinates will help emergency crews find wells following a major catastrophe.

Well Information	Well No. 1	Well No. 2	Well No. 3	Well No. 4
GPS well tag #				
Location (street)	13035 SE 32nd Ct			
GPS Coordinates	Lat: Long:		Lat: Long:	Lat: Long:
Well Depth (ft)	125 FT			
Well Yield (gpd)	216000 GPD			
Pump Type	Submersible			
Manufacturer	Sta-Rite			
Capacity (gpm)	150 GPM			
Motor Manufacturer	Franklin			
Horsepower	10 HP			
Phase	3			
Volts/Amps	230 volts			

Surface Water Sources

GPS coordinates will help emergency crews find surface water intakes following a major catastrophe.

Surface Water Information	Intake No. 1	Intake No. 2
Location (Street / Description)		
GPS Coordinates	Lat: Long:	Lat: Long:
Critical Water Level		

Finished Water Storage

GPS coordinates will help emergency crews find tanks following a major catastrophe.

Name of Storage Unit	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Location (Street)				
Location (GPS)	Lat: Long:	Lat: Long:	Lat: Long:	Lat: Long:
Type (ground, elevated, etc.)				
Capacity (gal)				
Empty Elevation				
Overflow Elevation				

High Service Pumps

HSP	HSP No. 1	HSP No. 2	HSP No. 3	HSP No. 4
Location (street)				
Pump Type				
Manufacturer				
Capacity (gpm)				
Motor Manufacturer				
Horsepower				
Phase				
Volts/Amps				

Other Applicable Information

Appendix B
Training and Rehearsals

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Event	Description	People & Organizations Involved	Date

Appendix C
Plan Approval

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Plan Approval

This plan is officially in effect when reviewed, approved, and signed by the following people:

Name / Title	Signature	Date
Hodges Family Trust		

APPENDIX D: CONSUMER CONFIDENCE REPORT

Certification of Delivery of Consumer Confidence Report

GENERAL INSTRUCTIONS: This form shall be completed by all community water systems (CWSs) that have prepared a Consumer Confidence Report (CCR) in accordance with Rule 62-550.824, F.A.C., Consumer Confidence Reports. At the end of this form is a certification in which a system's authorized representative shall certify that the reported information is accurate and is in conformance with Rule 62-550.824, F.A.C. **COMPLETE THIS FORM AND SUBMIT IT BY AUGUST 10,** together with a copy of your system's CCR, sample email or water bill (with URL notification of CCR, if applicable), and any newspaper notice(s) and posted notice(s) of your CCR, to the appropriate DEP district office or Approved County Health Department (ACHD). Systems serving 100,000 or more persons posting their CCRs on publicly accessible Internet sites shall provide the information on the appropriate Internet link(s). All information provided on this form must be typed or printed in ink.

I. General Water System Information. (To be completed by all community water systems.)

System name: Sunlight Acres Contact person: Dewaine Christmas

PWS Identification number (PWS ID): 3421520 Contact phone number: (352)347-8228

Mailing address: 10220 East Hwy 25 City: Belleview

State: Fl Zip: 34420-5531 Population served (not the number of "service connections"): _____

II. CCR Distribution Method. (To be completed by all community water systems. Choose A or B as appropriate.)

☐ A. We mailed, emailed, or otherwise directly delivered a copy of our CCR to each customer on _____ (enter date(s) of mailing or delivery) using the method(s) checked below:

- ☐ a. **Mailed** CCR
- ☐ b. **Mailed** notice (e.g. water bill) with **direct URL** to the CCR
- ☐ c. **Emailed** CCR as an **embedded** image or as an **attachment**
- ☐ d. **Emailed** notice with a **direct URL** to the CCR
- ☐ e. **Otherwise directly delivered** CCR to every customer. Explain: _____

☑ B. We were eligible to use a mailing waiver and used a mailing waiver. (Systems are eligible to use a mailing waiver only if they serve fewer than 10,000 persons, have not had any MCL or monitoring and reporting (M/R) violations, nor have been issued any formal Notices of Violations (NOVs), Consent Orders, Administrative Orders, or court-ordered civil actions during the calendar year before the year the CCR is due to the customers).

Answer a, b, **and** c below.)

- ☐ a. Date of newspaper: _____
- ☐ b. Name of newspaper/newsletter that published our CCR: _____
- ☑ c. A copy of our notice to customers, informing them that our CCR will not be mailed to them, is attached.

This notice was: ☑ mailed with bill; ☐ published in newspaper/newsletter; or ☐ other (describe)

_____

III. Posting of CCR on the Internet. (To be completed by all CWSs serving 100,000 or more persons.)

We posted our CCR on this publicly accessible internet site: _____

IV. Report on Your Effort to Distribute Your CCR to Your Water Consumers.

(To be completed by all CWSs. Check all items that apply - at least one item must be checked.)

In addition to the methods selected in Part II,

■ A. We posted our CCR on this publicly accessible internet site: www.sunshineutilities.org

☐ B. We published our CCR in the local newspaper(s). The name(s) and date(s) of the newspaper(s) are:

_____

RECEIVED
JUL 10 2020
DEP Central District

☐ C. We advertised the availability of our CCR as a press release, radio announcement, or TV announcement. The type(s) and date(s) of the advertisement(s) are: _____

☐ D. We delivered multiple copies of our CCR to single bill addresses serving several persons.

☐ E. We delivered multiple copies of our CCR to the following community organizations:

_____

☐ F. Our CCR was posted in the following public locations: _____

_____

■ G. Our CCR was distributed by other methods (e.g., additional copies placed in entrance hall to facility). Describe.
Additional copies available at Sunshine Utilities Office

V. Use of Non-English Language in CCR. (To be completed by all community water systems.)

☐ Information in a non-English language was included in our CCR because 20% or more of our customers do not speak English but speak _____. The method we used to determine the proportion of non-English speaking customers is _____

■ This requirement does not apply to our system, because we have no non-English speaking group among our customers equal to or exceeding 20% of our total number of customers.

VI. Other Delivery Requirements. (To be completed by all community water systems.)

(A) Was a copy of your CCR sent to your county health department, as required by rule? ■ Yes ☐ No

(B) Is your system regulated by the Public Service Commission (PSC)? ☐ Yes ☐ No

If Yes, was a copy of your CCR sent to the PSC, as required by rule? ■ Yes ☐ No

(C) If your system sells water to other systems, have you provided them with either a copy of your CCR or the required consumer confidence information? ■ Yes ☐ No ■ Not Applicable

VII. Certification of Delivery of CCR and Compliance with Regulations. (To be completed by all CWSs.)

This statement certifies that the above named community public water system has distributed its CCR for the time period starting ***January 1,*** 2019 ***, and ending December 31,*** 2019, to its customers on 6/15/20 (mm/dd/yy) and provided the appropriate notices of availability according to the requirements listed in this form, which are also found in Rule 62-550.824, F.A.C. This statement also certifies that the reported information is correct and consistent with the compliance monitoring data for the same period previously submitted to the Department, and that the report has been delivered to the agencies identified in Rules 62-550.824(3)(e)3., and 4., F.A.C.

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____

NAME (please print): Dewaine Christmas

TITLE: Manager DATE: 6/26/20

■ **A copy of our CCR is attached, and**

☐ **If using electronic delivery, a copy of our sample email or notice (e.g. water bill), with URL leading directly to the CCR and not a general information website, is attached. For example, if you are using the FRWA website to post your CCR, your URL would be:**

www.frwa.net/2012-Your PWSID Number.pdf (www.frwa.net/2012- 0000000.pdf).

SUNSHINE UTILITIES
10230 East Highway 25
Belleview, Florida 34420

Drinking Water Quality Report

Annual Drinking Water Quality Report for 2019
Sunlight Acres Subdivision
Florida Department of Environmental Protection Public Water System ID # 3421520

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

The source of our water is groundwater from one well located in the community. The well draws from the Floridan aquifer, one of the world's most protected sources. Our water is chlorinated for disinfection purposes. In 2019 the Florida Department of Environmental Protection conducted an assessment which identifies potential sources of contamination in the vicinity of our well. The SWAPP (Source Water Assessment and Protection Program) determined our public water system to have "No Potential Sources of Contamination". You may obtain more information at the web site *www.dep.state.fl.us/swapp.*

If you have any questions about this report or concerning your water utility please contact **Dewaine Christmas, at Sunshine Utilities, (352) 347-8228**, during normal business hours. We encourage our valued customers to be informed about their water utility.

Sunshine Utilities routinely monitors for constituents in your drinking water according to Federal and State laws, rules and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2019. Data obtained before January 1, 2019, and presented in this report are from the most recent testing performed in accordance with the laws, rules and regulations.

WATER QUALITY TEST RESULTS FOR SUNLIGHT ACRES

Inorganic Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Arsenic	(ppb)	MAR '18	No	1.1	N/A	N/A	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	(ppm)	MAR '18	No	0.0048	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chromium	(ppb)	MAR '18	No	1.7	N/A	100	100	Discharge from steel and pulp mills; erosion of natural deposits
Fluoride	(ppm)	MAR '18	No	0.1	N/A	4	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum levels between 0.7 and 1.2 ppm
Nitrate (as Nitrogen)	(ppm)	DEC '19	No	2.58	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium	(ppb)	MAR '18	No	0.7	N/A	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium	(ppm)	MAR '18	No	8.3	N/A	N/A	160	Salt water intrusion; leaching from soil

Stage 2 Disinfectants and Disinfection By-Products

Disinfectant or Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL or MRDL Violation Yes / No	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine	(ppm)	2019	No	0.8	0.5 - 1.6	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Haloacetic Acids (five) (HAA_5)	(ppb)	SEP '18	No	6.04	N/A	N/A	MCL = 60	By-product of drinking water disinfection
Total trihalomethane (TTHM)	(ppb)	SEP '18	No	4.47	N/A	N/A	MCL = 80	By-product of drinking water disinfection

Lead and Copper (Tap Water)

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	AL Violation Yes / No	90th Percentile Result	No. of Sampling Sites Exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper	(ppm)	JUL '18	No	0.0625	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead	(ppb)	JUL '18	No	2.9	0	0	15	Corrosion of household plumbing systems; erosion of natural deposits

In the table you may find unfamiliar terms and abbreviations. To help you better understand these terms we have provided the following definitions (please note not all definitions may pertain to your report):

- Action Level (AL) – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial growth.
- Maximum Residual Disinfectant Level Goal (MRDLG) – The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.
- ND – This abbreviation means not detected and indicates that the substance was not found by laboratory analysis.
- Parts per million (ppm) or milligrams per Liter (mg/L) - one part of analyte (by weight) to 1 million parts of water sample (by weight).
- Parts per billion (ppb) or micrograms per Liter (µg/L) - one part of analyte (by weight) to 1 billion parts of water sample (by weight).
- Picocurie per liter (pCi/L) - measure of the radioactivity in water.

What does this mean?

As you can see our system had no violations for water quality. We are very proud to report that our water meets all federal and state requirements.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Sunshine Utilities is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals, and in some cases radioactive material, and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

A.) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

B.) Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

C.) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

D.) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

E.) Radioactive contaminants, which may be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The FDA (Food & Drug Administration) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care providers about their drinking water. EPA/CDC (Center for Disease Control) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are also available from the Safe Drinking Water Hotline (800-426-4791).

We are committed to ensuring the quality of your water. If you have any questions or concerns about the information provided, please feel free to call the numbers listed.

Sunshine Utilities

10230 East Highway 25, Belleview, FL 34420
Office (352)347-8228 – Fax (352)347-6915

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality of water and services we deliver to you everyday. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

Please follow the link to view your 2019 Annual Water Quality Report.

https://www.sunshineutilities.org/ccr19/2019SunlightAcres.pdf

APPENDIX E: SANITARY SURVEY REPORT

FLORIDA DEPARTMENT OF Environmental Protection

CENTRAL DISTRICT OFFICE
3319 MAGUIRE BLVD., SUITE 232
ORLANDO, FLORIDA 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

August 18, 2020

Dewaine Christmas, Owner
SE 32nd Court
Belleview, FL 34420
sunshineutl@aol.com

Re: Compliance Assistance Offer
Sunlight Acres Subdivision
#3421520
Marion County

Dear Mr. Christmas:

An inspection was conducted at your facility on July 28, 2020under the authority of Section 403.091, Florida Statutes (F.S.) . During this inspection, potential non-compliance with the requirements under Chapter 403, F.S., Chapter 62-555.350, Florida Administrative Code (F.A.C.), and Chapter 62-602.650, F.A.C. were observed. The purpose of this letter is to offer you compliance assistance as a means of resolving this/these matter(s).

Please see the attached inspection report for a full account of Department observations and recommendations. We request you review the item(s) of concern noted in the attached inspection report and respond in writing within **15 days** of receipt of this Compliance Assistance Offer. Your written response should either:

1. Describe what you have done or provide a time schedule to address the items of concern noted in the attached report (see “Deficiencies" section of the report)
2. Provide information that either mitigates the concerns or demonstrates them to be invalid, or
3. Arrange for one of our inspectors to visit your facility to discuss the item(s) of concern.

It is the Department’s desire that you are able to adequately address the items of concern so that this matter can be closed. Your failure to respond appropriately may result in the initiation of formal enforcement proceedings.

Please address your response and any questions to Ellia Ruggiero of the Central District Office at 407-897-4168 or via e-mail at Ellia.Ruggiero@floridadep.gov We look forward to your cooperation with this matter.

Sincerely,

David Smicherko, Manager
Central District
Florida Department of Environmental Protection

Enclosure: Inspection Report (with attachments)

cc: Ellia Ruggiero Ellia.Ruggiero@floridadep.gov
David Smicherko David.Smicherko@floridadep.gov

State of Florida
Department of Environmental Protection
Central District

SANITARY SURVEY REPORT

Plant Name **SUNLIGHT ACRES SUBDIVISON** County Marion PWS ID # **3421520**
Plant Location SE 32nd Court, Belleview, FL 34420 Phone 352-347-8228
Owner Name Sunshine Utilities of Central Florida, Inc Phone 352-347-8228
Owner Address 10230 E Highwway 25, Belleview, FL 34420-5531
Contact Person Dewaine Christmas Title Operator Phone 352-347-8228
This Survey Date 7/28/2020 Last Survey Date 5/15/2015 Last Compliance Inspection Date N/A

PWS TYPE: Community

PLANT CATEGORY & CLASS: 5D

MAX-DAY DESIGN CAPACITY: 180,000 gpd

PWS STATUS: Approved

TREATMENT PROCESSES IN USE
Chlorination

SERVICE AREA CHARACTERISTICS
Subdivision
Food Service: ☐ Yes ☒ No ☐ N/A

Number of Service Connections 79
Population Served 198 Basis Owner

OPERATION & MAINTENANCE LOG: Yes
Location WTP
Comments

CERTIFIED OPERATOR: Yes
Operator(s) & Certification Class-Number:
Kelvin Edun C-0007459

Hrs/day: *Required* Visit *Actual* Visit
Days/wk: *Required* 3 *Actual* 3
Non-consecutive Days? ☐ Yes ☐ No ☒ N/A
Comments

MONTHLY OPERATION REPORTS (MORs)
MORs submitted regularly? ☒ Yes ☐ No ☐ N/A
Data missing from MORs? ☒ No ☐ Yes ☐ N/A
Average Day (from MORs) 15,329 gpd
Maximum Day (from MORs) 53,700 gpd 10/2019
Comments

Flow Measuring Device Flow Meter
Meter Size & Type 2" Sensus
Date Last Calibrated Unknown*

RAW WATER SOURCE
☒ GROUND; Number of Wells 1
☐ PURCHASED from PWS ID #
☐ Emergency Water Source
Emergency Water Capacity

STANDBY POWER SOURCE: Not Required
Source
Capacity of Standby (kW)
Switchover: ☐ Automatic ☐ Manual
Hrs Operated Under Load
What equipment does it operate?
☐ Well Pumps
☐ High Service Pumps
☐ Treatment Equipment
Satisfy avg. daily demand? ☐Yes ☐No ☐Unknown
Audio-visual alarm? ☐Yes ☐No
Comments

PLANS AND MAPS

Coliform Sampling Plan	☒ Yes	☐ No	☐ N/A
D/DBP Monitoring Plan	☒ Yes	☐ No	☐ N/A
Lead and Copper Plan	☒ Yes	☐ No	☐ N/A
Distribution System Map	☒ Yes	☐ No	☐ N/A
Emergency Response Plan	☒ Yes	☐ No	☐ N/A

Comments

PREVENTIVE MAINTENANCE/O&M

Operation & Maintenance Manual	☒ Yes	☐ No	
Preventive Maintenance Program	☒ Yes	☐ No	
Flushing Program	☒ Yes	☐ No	☐ N/A
Records	☐ Yes	☐ No	☒ N/A
Isolation Valve Exercise	☐ Yes	☐ No	☒ N/A
Records	☐ Yes	☐ No	☒ N/A

Comments

CROSS CONNECTION CONTROL
BFPAs None # Tested N/A
WWTP RPZ N/A Date Tested N/A
Written Plan N/A Date N/A
Comments

PWS ID # 3421520
Date 7/28/2020

GROUND WATER SOURCE

Well Number (Florida Unique Well ID #)		1(AAE0260)			
Year Drilled		1983			
Depth Drilled		125’			
Drilling Method		Cable Tool			
Type of Grout		Neat Cement			
Static Water Level		30’			
Pumping Water Level		Unknown			
Design Well Yield		Unknown			
Test Yield		Unknown			
Actual Yield (if different than rated capacity)		Unknown			
Strainer		Unknown			
Length (outside casing)		66’			
Diameter (outside casing)		6”			
Material (outside casing)		Black Steel			
Well Contamination History		None			
Is inundation of well possible?		No			
6’ X 6’ X 4” Concrete Pad		Yes			
SET BACKS	Septic Tank	N/A			
	Reuse Water	>200’			
	WW Plumbing	>200’			
	Other Sanitary Hazard	None			
PUMP	Type	Submersible			
	Manufacturer Name	Unknown			
	Model Number	Unknown			
	Rated Capacity (gpm)	150			
	Motor Horsepower	10			
Well casing 12” above grade?		Yes			
Well Casing Sanitary Seal		Yes			
Raw Water Sampling Tap		Yes			
Above Ground Check Valve		Yes			
Security		Yes			
Well Vent Protection		N/A			

COMMENTS _____

PWS ID # 3421520
Date 7/28/2020

CHLORINATION (Disinfection)
Type: ☐ Gas ☒ Hypo
Make Pulsa Feeder Capacity 30 gpd
Chlorine Feed Rate 60% stroke
Avg. Amount of Cl_2 gas used N/A
Chlorine Residuals: Plant 2.2 Remote 1.9
Remote tap location 13437 SE 32nd Court
DPD Test Kit: ☐ On-site ☐ With operator
☐ None ☐ Not Used Daily
Injection Points Prior to hydropneumatics tank
Booster Pump Info N/A
Comments

Chlorine Gas Use Requirements	YES	NO	Comments
Dual System	☐	☐	
Auto-switchover	☐	☐	
Alarms: Loss of Cl_2 capability Loss of Cl_2 residual Cl_2 leak detection	 ☐ ☐ ☐	 ☐ ☐ ☐	
Scale	☐	☐	
Chained Cylinders	☐	☐	
Reserve Supply	☐	☐	
Adequate Air-pak	☐	☐	
Sign of Leaks	☐	☐	
Fresh Ammonia	☐	☐	
Ventilation	☐	☐	
Room Lighting	☐	☐	
Warning Signs	☐	☐	
Repair Kits	☐	☐	
Fitted Wrench	☐	☐	
Housing/Protection	☐	☐	

AERATION (Gases, Fe, & Mn Removal)
Type Capacity
Aerator Condition
Visible Algae Growth
Protective Screen Condition
Frequency of Cleaning
Date Last Inspected/Cleaned
Comments

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

Tank Type/Number	H1		
Capacity (gal)	2,000		
Material	Steel		
Gravity Drain	Yes		
By-Pass Piping	Yes		
Protected Openings	Yes		
Sight Glass or Level Indicator	No		
PRV/ARV	PRV		
Pressure Gauge	Yes		
On/Off Pressure	Yes		
Access Secured	40/60		
Access Manhole	Yes		
Tank Sample Tap Location	Yes		
Date of Inspection	06/2013		
Date of Cleaning	06/2013		

Comments *Tank inspection due every five years. No record of up to date tank inspection noted at the time of inspection.

HIGH SERVICE PUMPS

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

Comments

PWS ID # 3421520
Date 7/28/2020

DEFICIENCIES:

Areas of Concern	Rule	Corrective Action	Date Corrected	Significant Deficiency?
No record that the calibration of the finished-drinking-water flow meter has been checked.	62-555.350(2)	The calibration of finished-drinking-water flow meters should be checked at least once every 5 years.		No
Finished drinking water tank(s) has been inspected by a licensed engineer but not within the required 5-year time period.	62.555.350(2)	Have future tank inspections completed at least once every 5 years.		No

MONITORING REMINDER:

- Monitoring schedules are available on the Central District's FTP site: ftp://ftp.dep.state.fl.us/pub/outgoing/Water/

COMMENTS:

- **Contact FRWA (Florida Rural Water Association) at 850-668-2746, or** frwa@frwa.net, for free technical assistance with your system. FRWA has extended benefits offered to members.
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.

  Checking the calibration of finished-drinking-water meters at treatment plants shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water. [Rule 62-555.350(2), F.A.C.]
- Suppliers of water shall submit written notification to the Department before beginning work or alterations to the public water system. Each notification shall be submitted to the appropriate Department of Environmental Protection District Office or Approved County Health Department and shall include the following: a description of the scope, purpose, and location of the work or alterations; and assurance that the work or alterations will comply with applicable requirements listed in Rule 62-555.330, F.A.C. Suppliers of water may begin such work or alterations 14 days after providing notification to the Department unless they are advised by the Department that the notification is incomplete or that a construction permit is required.
- Suppliers of water shall telephone the SWO at 1-800-320-0519 immediately (i.e., within two hours) after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving a public water system. [Rule 62-555.350(10)(a), F.A.C.]
- Suppliers of water shall telephone, and speak directly to a person at, the appropriate DEP District Office as soon as possible, but never later than noon of the next business day, in the event of any of the following emergency or abnormal operating conditions:
  - The occurrence of any abnormal color, odor, or taste in a public water system's raw or finished water;
  - The failure of a public water system to comply with applicable disinfection requirements; or
  - The breakdown of any water treatment or pumping facilities, or the break of any water main, in a public water system if the breakdown or break is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(b), F.A.C.]

- Suppliers of water shall notify affected water customers in writing or via telephone, newspaper, radio, or television; and telephone, and speak directly to a person at, the appropriate DEP District Office by no later than the previous business day before taking PWS components out of operation for planned maintenance or repair work if the work is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(d), F.A.C.]
- Suppliers of water shall issue precautionary “boil water” notices as required or recommended in the Department of Health’s “Guidelines for the Issuance of Precautionary Boil Water Notices” as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(11), F.A.C.]

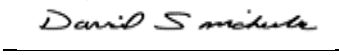


Inspector Signature

Ellia Ruggiero
Printed Name

Environmental Specialist
Title

7/28/2020
Date



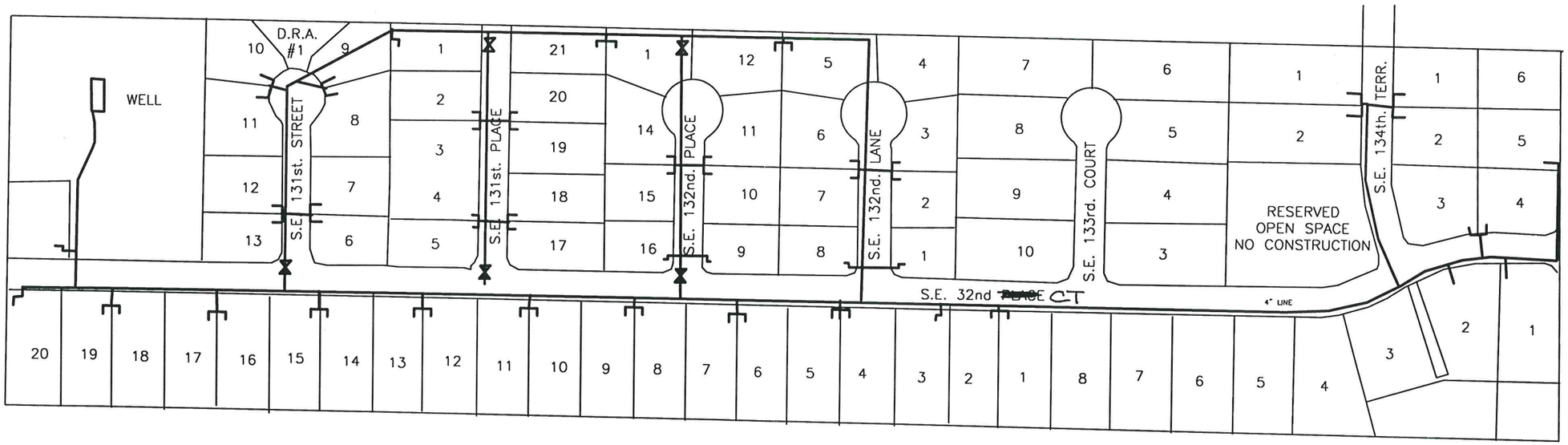
Reviewer Signature

David Smicherko
Printed Name

Environmental Manager
Title

8/18/2020
Date

APPENDIX F: DISTRIBUTION MAP



THIS DRAWING IS A COPY OF AN ORIGINAL DONE BY SPRINGSTEAD AND ASSOC. INC.

H.W. BARRINEAU & ASSOCIATES, INC.
8100 SOUTHEAST 17th ST, SUITE 202 OCALA, FLORIDA 34471
PH (352) 840-8580
FAX (352) 840-8774

SUNLIGHT ACRES

SUNSHINE UTILITIES INC.
FT. KING & MAIN
OCALA, FLORIDA

DESCRIPTION	DATE	CHK	DRN
ORIGINAL ISSUE	11 APR 97	HWB	PMM

Project No. 9836-02

1

Sheet 1 Of 1



woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Whispering Sands Subdivision

210 South Florida Avenue | Suite 220
Lakeland, Florida 33801
800.426.4262

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

0233748.01
CSWR
July 2021

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Appendix B: Tank Inspection Report
Appendix C: Emergency Response Plan
Appendix D: Consumer Confidence Report
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Appendix F: Distribution Map

APPENDIX A: SOURCE WATER ASSESSMENT & PROTECTION PROGRAM RESULTS

» SWAPP Homepage
» Search By County
» Search by PWS Name or Number
» How to Help?

Definitions

» Aquifers
» Public Water Systems
» Assessment
» Potential Contaminants
» Susceptibility
» Prevention

Contact Us

» Email
» Mailing Address
» Source Water Protection Workshop

EPA Source Water Protection website

Source Water Assessment & Protection Program

Results for: 2019

WHISPERING SANDS S/D
SE 50TH CT & SE 30TH ST
OCALA, FL 34471

Public Water System ID: 3424009
County: MARION
DEP Regulatory Office: DEP Central District
3319 Maguire Blvd, Suite 232
Orlando, FL 32803
407-897-4100
Public Water System Type : COMMUNITY
Public Water System Source : GROUND
Primary Use: SUBDIVISION
Population Served: 437
Size of Assessment Area:
GROUND: For this system, a 1000-foot radius circle around each well was used to define the assessment area.

Number of Wells: 2

Well ID	Owner ID	FLUWID	Status	Well Depth(ft)	Aquifer
5786	6" WELL/132' 310GPM	AAE0278	ACTIVE	132	Floridan Aquifer
5787	WELL#2 6"WELL 120'/128'150GPM	AAE0279	ACTIVE	128	Floridan Aquifer

Results:

GROUND WATER:
A search of the data sources indicated no potential sources of contamination.

Last updated: February 19, 2020

Accessibility Information

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Disclaimer
Exit Disclaimer
Privacy Statement

3900 Commonwealth Boulevard M.S. 49
Tallahassee, Florida 32399
850-245-2118 (phone) /
850-245-2128 (fax)

APPENDIX B: TANK INSPECTION REPORT

INSPECTION AND TESTING of HYDROPNEUMATIC TANK

Whispering Sands Tank

Pursuant to Chapter 62-555.350 (1) & (2) F.A.C

Water System:	Whispering Sands
Street Address:	SE 30th Street/SE 50th Avenue
City, State:	Ocala, Florida
Phone:	352-347-8228
Contact:	Dewaine Christmas
E-mail:	sunshineutl@aol.com
PWS ID No.:	3424009
County:	Marion
Classification:	Community
Source:	Ground
Ownership:	Sunshine Utilities of North Central Florida
Date:	January 10, 2019

Inspection and Testing by:

Robert M. Couch III, P.E.
ENVIRO-TECH, Inc.
PO Box 152
Weirsdale, FL 32195
Telephone: 352-694-1799
E-mail: envirotech@ymail.com

ROBERT M. COUCH III
LICENSE
No. 55311
STATE OF FLORIDA
PROFESSIONAL ENGINEER

C.O.A. No. 8692 Registration No. 55311

Robert M. Couch III, P.E.

Digitally signed by Robert M. Couch III, P.E.
DN: cn=Robert M. Couch III, P.E., o=ENVIRO-TECH, Inc., ou=Reg. No. 55311, email=envirotech@ymail.com, c=US
Date: 2019.02.07 21:29:44 -05'00'

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1.0 EXECUTIVE SUMMARY

ENVIRO-TECH, Inc. was contracted to perform the five year tank condition inspection on the above mentioned hydro-pneumatic tank.

This condition inspection was performed on January 10, 2019 by Robert M. Couch III, P.E. on the above referenced water tank. The tank was drained and, an internal and external inspection was performed to assess the tank condition as required by the Florida Department of Environmental Protection (FDEP) Rule 62-555.

The tank shell and heads appeared to be in overall fair structural condition. Ultrasonic Thickness Measurement (UTM) readings indicated that the average thickness of the tank shell at the time of the field inspection was approximately 9.34 millimeters. UTM readings from the tank heads indicated an average thickness of 8.55 millimeters. The exterior coating of the tank appeared to be in overall fair condition with no notable surface corrosion. The interior coating of the tank appeared to be in fair condition with minor surface corrosion beginning to form along the tank ridge and walls.

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 65 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 60 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

2.0 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS CHAPTER 62-555.350 (1) & (2)

2.1 Operation and Maintenance of Public Water Systems

(1) Suppliers of water shall operate and maintain their public water systems so as to comply with applicable standards in Chapter 62-550, F.A.C., and requirements in this chapter.

(2) Suppliers of water shall keep all necessary public water system components in operation and shall maintain such components in good operating condition so the components function as intended. Preventive maintenance on electrical or mechanical equipment – including exercising of auxiliary power sources, checking the calibration of finished-drinking-water meters at treatment plants, testing of air or pressure relief valves for hydropneumatic tanks, and exercising of isolation valves –shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water; however, in no case shall auxiliary power sources be run under load less frequently than monthly. Accumulated sludge and biogrowths shall be cleaned routinely (i.e., at least annually) from all treatment facilities that are in contact with raw, partially treated, or finished drinking water and that are not specifically designed to collect sludge or support a biogrowth; and blistering, chipped, or cracked coatings and linings on treatment or storage facilities in contact with raw, partially treated, or finished drinking water shall be rehabilitated or repaired. **Finished-drinking-water storage tanks, including conventional hydropneumatic tanks with an access manhole but excluding bladder- or diaphragm-type hydropneumatic tanks without an access manhole, shall be checked at least annually to ensure that hatches are closed and screens are in place; shall be cleaned at least once every five years to remove biogrowths, calcium or iron/manganese deposits, and sludge from inside the tanks; and shall be inspected for structural and coating integrity at least once every five years by personnel under the responsible charge of a professional engineer licensed in Florida.** Dead-end water mains conveying finished drinking water shall be flushed quarterly or in accordance with a written flushing program established by the supplier of water; additionally, dead-end or other water mains conveying finished water shall be flushed as necessary whenever legitimate water quality complaints are received.

2.2 Location of Inspection and Testing Report

Pursuant to Chapter 62-555.350 (2) and 62-555.350 (12) FAC, beginning 28 August 2003, all water systems regardless of size must maintain a copy up-to-date Preventive Maintenance Logs of each water system in the water facility office. The Preventive Maintenance Logs must show the date and type of all maintenance performed and comply with Rule 62-555.350 (2) and 62-555.350 (12), which requires the following:

- Preventive Maintenance Logs on Electrical and Mechanical Equipment
- Cleaning and Inspection Logs of Treatment Facilities and Storage Tanks
- Records of Coatings and Linings Rehabilitation or Repair
- Licensed Engineer Inspection Report (once every 5-years) for Finished-Drinking-Water Storage Tanks and Hydropneumatic Tanks
- Written Flushing Program and Logs showing that Dead-End Water Mains are being flushed at least quarterly
- Isolation Valves Exercise Logs

A copy of this report should be kept with these records.

3.0 HYDROPNEUMATIC PRESSURE TANK INSPECTION AND TEST PROCEDURES

This Inspection and Test Procedures is used as a reference in the overall inspection and testing of this Water System. This procedure is to be updated from time to time to reflect physical and procedural changes to the water system.

Inspection and testing of this tank was conducted by Robert M. Couch III, P.E. with the assistance of Jim Hodges Jr. of Sunshine Utilities of North Central Florida, Inc. The following inspection and testing procedures for hydropneumatic pressure tanks were used:

3.1 Pre-Test Procedures

1. If water service is to be interrupted customers must be notified in advance and if appropriate, boil water notices issued.

2. Turn-off all electrical power to well pumps, air motors, chlorination equipment, etc.

3. Open drain valve to empty tank. This is also a good time to check the valves (exercise them) that isolate the tank to see if they are in fact working as they should. This downtime can also be used to replace a valve if needed.

4. Once depressurized, the site glass is inspected for proper operation.

5. Once the tank is drained, the manway (hatch) will need to be removed for inspection of the interior.

3.2 Visual Inspection

6. Perform visual inspection of the tank exterior and accessories for presence of leaks, shell distortion, signs of settling, deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, accessories, etc.

7. Tank layout and physical measurements

8. Color photographs of the tank exterior and all of the essential appurtenances

9. Perform visual inspection of the tank interior for presence of deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, bio-growths, calcium or iron/manganese deposits, sludge, etc.

3.3 Nondestructive Examination

10. The tank interior coating is then examined for dry film thickness (See PosiTest® DFT Coating Thickness Gauge measurement) or equivalent.

11. The tank exterior is then examined for thickness measurements (See Smart Sensor AR 850+ Ultrasonic Thickness Gauge measurement).

12. If deemed necessary, the tank exterior (or interior) is then examined for porosity, pinholes and leaks (See PCWI porosity detection test, also known as holiday detector test).

3.4 Post-Test Procedures

13. Any coating problems detected should be corrected while the tank is out of service in order to avoid further extensive downtime.

14. Once the tank is inspected and all maintenance items are taken care of, the tank will need to be disinfected prior to placing back in use.

15. Once the tank has been disinfected, bacteriological tests must be performed on water samples (2 per FDEP) taken from the tank discharge. FDEP to clear for service prior to placing back in service.

3.5 Safety of Test Area

The test area should be restricted and barricaded. The porosity testing instrument output can be up to 20,000 volts. Testing should be carried out well clear of personnel not involved in the testing procedure. Should accidental contact be made with the test electrode, the recipient will receive a mild shock. This equipment should never be used by a person with a pacemaker.

4.0 TEST EQUIPMENT DESCRIPTIONS

4.1 AR 850+ Ultrasonic Thickness Gauge



The Smart Sensor AR 850+ Digital Ultrasonic Thickness Gauge is an economical, user-friendly, menu driven, and multi-functional unit offering extensive features from basic measurements to extended memory. This dynamic series of UT gauges is designed to measure the thickness of metallic and non-metallic materials such as steel, aluminum, titanium, plastics, ceramics, glass and any other good ultrasonic wave conductor as long as it has parallel top and bottom surfaces. The AR 850+ gauges will accurately display readings in millimeters after a simple calibration to a known Thickness or sound velocity.

4.1.1 Features

- Main Unit
- Transducer 5 MHz / 2.5 MHz
- Integrated steel calibration plate 4.0mm
- Batteries (2 x AAA)
- Ultrasonic Couplant
- Operation Manual
- Certificate
- Carrying Case
- One Year Warranty

4.1.2 Technical Specification

Display Type	4-digit LCD
Display Resolution	(<100 mm) 0.1 mm
Units	Metric
Measuring Range (steel)	1.2 to 220.0 mm
Sound Velocity Range	1000 to 9999 m/s
Operating Temperature	0 ° C +45° C
Frequency	5 MHz
Power Source	3 X 1.5V AAA batteries
Dimensions	70x145.5x28 mm

4.2 Compact DC Inspector Porosity Detector



Porosity detection of Tanks, Valves, Pumps, Pipeline field joints, and general inspection and maintenance. Suitable for a broad range of testing and inspection requirements. It is recommended that the integral probe be limited to a 125mm flat brush or fan brush.

4.2.1 Standards

ASTM G62-87(1998), ASTM D4787-93(1999), NACE RP0274-98, NACE RP0490-2001, NACE RPO188- 99, JIS G-3491, JIS G-3492, ANSI/AWWA C214-89, ANSI/AWWA C213-94 and ISO 2746:1998

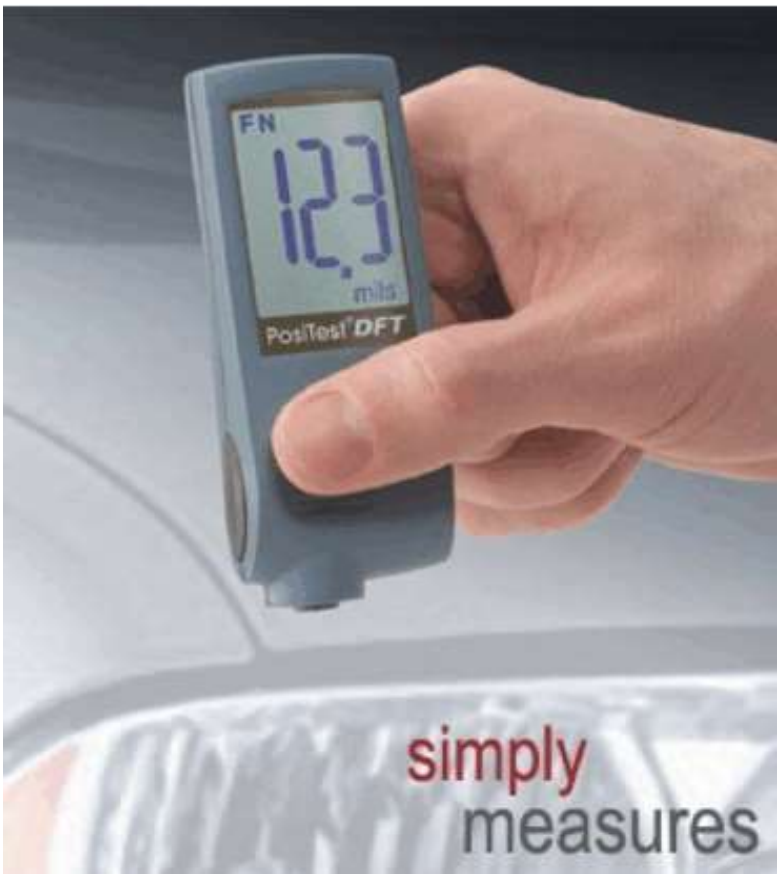
4.2.2 Features

- LED bar graph display of voltage
- "Single" hand-held, lightweight unit for simplicity and ease of operation
- Audible and visual alarms
- LED battery condition indicator
- Integral probe
- Detector
- 7m Earth lead and clamp
- Flat 125mm wide brass wire brush (or optional fan brush)
- Carry Case
- Operating instructions with conformance certificate
- Variable output up to 10kV or Variable output up to 20kV

4.2.3 Technical Specifications

Test Voltage	to 10kV (using 9V Battery)
Output Test Current	up to 100µA
Operating Temperature	-20 to +50ºC
Power Supply	Battery (9V internal)
Unit Dimensions	210 x 75 x 35mm (excl brush) 8.25" x 3.1" x 1.5"
Unit Weight	460g (incl probe)
Shipping Weight	1.5Kg

4.3 PosiTest DFT Coating Thickness Gauge



The new PosiTest DFT Coating Thickness Gauge measures coatings on ALL metals. It is the economical choice that retains the uncompromising quality of Qualitest inspection instruments.

Available in two models:

- PosiTest DFT Ferrous - measures non-magnetic coatings on steel.
- PosiTest DFT Combo - measures both non-magnetic coatings on steel and non-conductive coatings on aluminum, brass, etc. Automatically recognizes the substrate and takes a measurement.

4.3.1 Standards

ASTM B244/B499/B659/D1186/D1400/E376/G12, BS3900-C5, SSPC-PA2, ISO 2178/2360/2808, prEN ISO 19840, and others. Certificate of Calibration traceable to NIST available.

4.3.2 Features

- Fast, repeatable measurements
- No calibration required for most applications
- ZERO feature for rough or curved surfaces
- Handy RESET feature when no zero reference is available
- Strong, wear resistant, ruby-tipped probe
- Audible and visible measurement indication
- V-groove in probe for positioning on cylindrical parts
- Mils/Microns switchable
- Basic instructions on the back of each gauge

4.3.3 Technical Specifications

Measurement Range	0-40 mils (-1000 µm)
Accuracy	±(0.1 mils + 3%) (±(2µm + 3%))
Size	4 x 1.5 x 0.9 in (100 x38 x 23 mm)
Weight	2.5 oz (70 g)



5.0 HYDROPNEUMATIC PRESSURE TANK DESCRIPTION

The hydropneumatic pressure tank inspected and tested is described as follows:

Length: 29'-0" (33.'-0" including elliptical heads)
Diameter: 7'-6" outside diameter
Volume: 10,000 gallons with elliptical heads
Tank Age: Unknown
Operating Pressure: 60 psi

6.0 TESTING

6.1 Porosity Testing

The tank surface was not swept with the Compact DC Inspector Porosity Detector during this inspection as no evidence of pin holes was observed throughout the surface of the tank.

6.2 Interior Coating Testing

No dry film thickness readings were taken within the tank interior as the coating had begun to fail along portions of the tank ridge and walls..

6.3 Ultrasonic Metal Thickness Testing

A total of 72 metal thickness readings were taken at various locations on the tank shell and head surface. The average shell reading was 9.34 millimeters in the cylindrical section and 8.55 millimeters in the elliptical heads. Typical industry standard minimum wall thickness for tanks of this size is 3/8" (9.53 mm).

7.0 VISUAL OBSERVATIONS

7.1 Tank Exterior

The exterior of the tank appeared to be in fair structural condition.

7.2 Tank Interior

The tank interior appeared to be in fair condition. there were minor areas where the coating had begun to fail and corrosion had formed on the interior tank surface.

8.0 DEFINITIONS

Design Pressure - The maximum design pressure determined from the metal thickness.

Maximum allowable working pressure (MAWP) – Maximum pressure that the pressure tank is capable of safely holding at a design maximum temperature (250ºF).

Operating Pressure - The normal maximum operating pressure of the pressure tank. The normal operating pressure must always be below the MAWP. As a rule of thumb the maximum operating pressure should always be less than the MAWP.

Metal Thickness – The thickness of the pressure tank wall (not including a corrosion allowance) to be used in the pressure calculations.

Design Safety Factor on Metal Tensile Strength – A pressure tank is normally designed with a safety factor of 3 to 4 on the metal tensile strength. All pressure tanks are designed to operate with wall stresses below the yield point of the metal used for fabrication.

9.0 TANK PRESSURE CALCULATIONS

The following formula is found in ASME Section I for determination of MAWP:

For tanks with circumferential stress on (longitudinal joints)

P = SEt/(R+0.6t)
= 60 MPa x 1.0 x 9.34 mm / (1134 mm+0.6 x9.34 mm)
= 0.492 MPa
= 71 psi

When:

t < 0.5R = 0.5 x 1134 = 566.83 mm (true) or
P < 0.385SE = 0.385 x 60 x 1.0 = 23.1 MPa (true)

Where:

t = metal thickness (mm) where t = 9.34 mm
R = inside radius of shell course under consideration (mm) = 1,134 mm
E = joint efficiency for cylindrical or spherical shells = 1.0 for welded tanks and corresponds to a safety factor of 3.5 in the parent metal.
P = maximum allowable working pressure (MPa) where 1 MPa = 145 psi
S = maximum allowable stress value at the operating temperature of the metal = 60 MPa (Safety Factor of 4).

10.0 CONCLUSIONS

Inspection and testing of the Whispering Sands 10,000-gallon hydropneumatic pressure tank was performed on January 10, 2019. In addition to a visual examination, non-destructive examinations were also made. Non-destructive examinations included ultrasonic measurement of the tank wall thickness and visual inspection for pinholes and leaks. No examination of Dry Film Thickness Measurement (DFTM) of the interior coating was performed as the coating had already begun to fail.

Observations of the tank exterior indicated tank is subject to normal exposure. Observations of tank interior revealed light surface corrosion along the upper ridge portions of the tank interior.

11.0 RECOMMENDATIONS

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 65 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 60 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

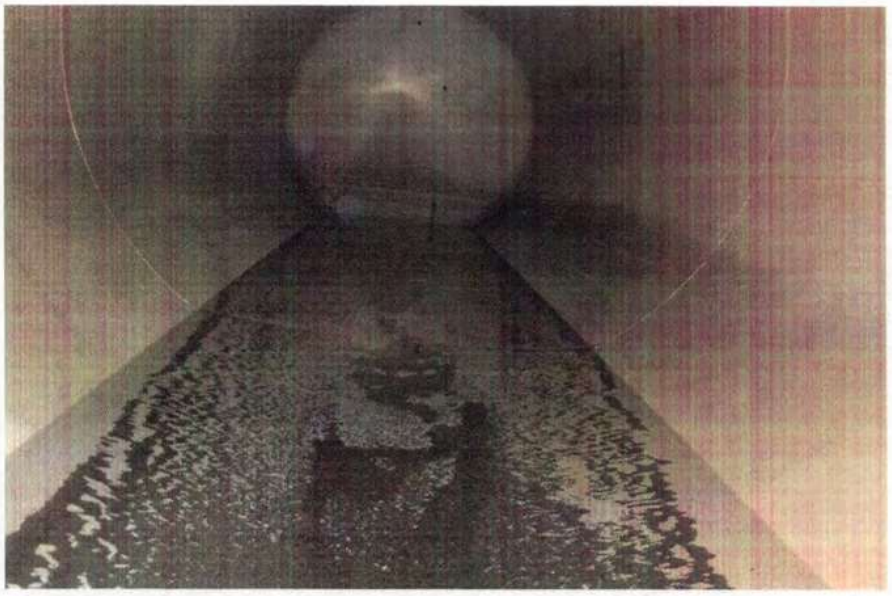
Signed: Robert M. Couch III Date: 2/7/2019

Robert M. Couch III, P.E. Registration No. 55311

Exterior and interior views of tank







APPENDIX C: EMERGENCY RESPONSE PLAN

Disaster-Specific Preparedness/Response Plan

for Public Drinking Water Systems

Per Chapter 62-555.350 (15) F.A.C.

Sunshine Utilities

WHISPERING SANDS

Address:	10230 East Hwy. 25 Belleview, FL 34420
Phone:	352-347-8228
Fax:	352-347-6915
Contact:	Dewaine Christmas, Manager
E-mail:	SunshineUtl@AOL.COM
Connections:	127
PWS:	3424009
County:	Marion

May 17, 2013

Department of Environmental Protection
Michael D. LeRoy, P.E.
John R. Sowerby, P.E.

FRWA Security Staff
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This template and guide has been developed by the Florida Rural Water Association (FRWA) in collaboration with the Washington State Department of Health, Office of Drinking Water, Olympia, Washington; and reviewed by Florida Department of Environmental Protection.

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Preface
Chapter 62-555.350 (15) FAC

Disaster-Specific Preparedness/Response Plans

(15) Suppliers of water who own or operate a community water system serving, or designed to serve, 350 or more persons or 150 or more service connections shall develop a written emergency preparedness/response plan in accordance with Emergency Planning for Water Utilities, AWWA Manual M19, as adopted in Rule 62-555.335, F.A.C., by no later than December 31, 2004, and shall update and implement the plan as necessary thereafter. Said suppliers of water shall coordinate with their Local Emergency Planning Committee and their Florida Department of Law Enforcement Regional Security Task Force when developing their emergency plan and shall include in their plan all of the information in paragraphs (a) through (e) below.

(a) A Communication Charts as described in Chapter 5 of AWWA Manual M19.

(b) Written agreements with other agencies, utilities, or response organizations.

(c) A disaster-specific preparedness/response plan as described in Chapter 5 of AWWA Manual M19 for each of the following disasters: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release. Each disaster-specific preparedness/response plan shall incorporate the results of a vulnerability assessment; shall include actions and procedures, and identify equipment, that can obviate or lessen the impact of such a disaster; and shall include plans and procedures that can be implemented, and identify equipment that can be utilized, in the event of such a disaster.

(d) Details about how the water system meets the standby power requirements under subsection 62-555.320(14), F.A.C., and, if applicable, recommendations regarding the amount of fuel to maintain on site, and the amount of fuel to hold in reserve under contracts with fuel suppliers, for operation of auxiliary power sources.

(e) If applicable, recommendations regarding the amount of drinking water treatment chemicals, including chemicals used for regeneration of ion-exchange resins or for onsite generation of disinfectants, to maintain in inventory at treatment plants.

Specific Authority 403.861(9) FS. Law Implemented 403.852(12), 403.853(6), 403.861(17) FS. History-New 11-19-87, Formerly 17-22.650, Amended 1-18-89, 1-1-93, Formerly 17-555.350, Amended 8-28-03.

Time Extension for Submitting/Completing ERP – December 31, 2005

From: Hoofnagle, Van
Sent: Thursday, October 21, 2004 11:25 AM
Subject: Time Extension for Submitting/Completing ERP
Importance: High

I am sending this e-mail because of possible confusion in some FDEP District Offices or ACHDs regarding the deadline for compliance with the emergency preparedness/response plan requirements in FAC subsection 62-555.350(15).

As John Sowerby and other staff mentioned during Focus On Change presentations early this year on FAC Rule 62-555.350 and during training this summer on the recent amendments to FAC Chapter 62-555, the FDEP intends to amend FAC subsection 62-555.350(15) to give all affected community water systems (i.e., all community water systems serving 350 or more persons or 150 or more service connections) **until the end of 2005** instead of the end of this year to complete a comprehensive emergency preparedness / response plan as required by FAC subsection 62-555.350(15). At this point, it will likely be after the end of this year before we officially make this change to FAC subsection 62-555.350(15). In the meantime, please do not take any enforcement action against

community water systems who fail to meet the 12/31/04 deadline in FAC subsection 62-555.350(15). Thanks.

Van Hoofnagle
DEP Drinking Water Administrator

Section 1
Communication Charts

The first response step in any emergency is to inform the person at the top of this list, who is responsible for managing the emergency and making key decisions. List the water system chain of command in order of contact.

Water System Chain of Command – Lines of Authority

Order	Name & Title	Responsibilities During an Emergency	Contact Information
1	Dewaine Christmas Manager	Responsible for overall management and decision making. The manager is the lead for managing the emergency and providing information to regulatory agencies. All communications to external parties are to be approved by the manager.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl@AOL.Com
2	James Hodges Jr. Field Supervisor	Responsible for decision making in the field. In charge of overall maintenance, and repairs to all components of water system.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl @AOL.Com
3	Kelvin Edun Water Treatment Plant Operator	Responsible for running water treatment plant, performing inspections, maintenance, sampling and relaying all critical information to Field Supervisor.	Phone: Cell: 352-875-5141 Email:
4	Pamela Christmas Office	Responsible for assisting the manager in administrative duties and emergencies.	Phone: 352-347-8228 Cell: 352-245-4743 Email:
5			Phone: Cell: Email:
6			Phone: Cell: Email:
7			Phone: Cell: Email:

Emergency Notification

Notification call-up lists - Use these lists to notify important parties of an emergency.

Emergency Notification List

Organization or Department	Name & Position	Telephone	Cell Phone	e-mail
State Warning Point	**Duty Officer**	**800-320-0519**	800-320-0519	N/A
Local Law Enforcement	EOC Commander	352-622-3205		Pstefanski@sheriff.marioncountyfl.org
Fire Department		911		
Emergency Medical Services		911		
Water Operator (if contractor)	Kelvin Edun Operator	352-875-5141		
County Health Department	Tom Moore Director of Environmental Health	352-622-7744	352-266-7486	
DEP District Office	Manny Cardona	407-897-4134	Fax 407-893-4418	
County Emergency Management Dept.	Chip Wildy	352-622-3205		
Local Leader (City Mgr., Mayor, Chair. Co. Comm., etc.)				
Local Hazmat Team (if any)		911		
Hazmat Hotline		911		
National Spill Response Center.	Duty Officer	800-424-8802	800-424-8802	N/A
Interconnected Water System(s)				
Neighboring Water System (not connected)				
FRWA Water Circuit Rider	Tom Gustafson	850-668-2746	352-267-1302	

Priority Customers

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Hospital Or Clinic(s)				
Nursing Home(s)				
Public Schools				
Private Schools				
Wastewater Treatment Plant				
Food Processing Or Other Industry				

Service / Repair Notifications

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Electric Utility Co.	City of Ocala	352-629-2489		
Electrician	Melville Electric	352-245-0600		
Gas / Propane Supplier	Belleview Gas	352-245-6055		
Water Testing Lab.	Aqua Pure Lisa Saupp	352-625-2822		
Sewer Utility Co.				
Telephone Co.	Sprint	800-788-3600	611	
Plumber	ACP	352-427-7036		
Pump Supplier	Coast Pump	352-620-0616	352-266-4277	Coastpumpocal@hotmail.com
"Dig Safe" or "One Call"	Sunshine One Call	800-432-4770		
Rental Equip. Supplier	B&M Rental	352-245-3133	352-245-9800	

Service / Repair Notifications				
Organization Or Department	**Name & Position**	**Telephone**	**Cell Phone**	**email**
Chlorine Supplier	Custom Controls	352-622-9244	352-304-0572	
Other Chemical Suppliers				
Radio/SCADA Repair Co.				
Bottled Water Service				
Bulk Water Supplier				
Well Drilling Co.	Earls Well Drilling David Moffitt	352-245-2324	352-817-0502	
Pipe Supplier	National Water Works Roy Sands	352-351-8144	352-266-4705	

Designated Public Spokesperson and Alternates

Designate a spokesperson (alternates) for delivering messages to the news media & public

Public Spokesperson	Name & Position	Telephone	Cell Phone
Spokesperson	Dewaine Christmas Manager	352-347-8228	352-239-1198
Alternate 1	James Hodges Jr. Supervisor	352-347-8228	352-239-1197
Alternate 2			

Key Messages

Develop possible messages in advance, and update them as the emergency develops
▪ We are aware of the emergency and are working diligently to restore your water service.
▪ If you fall under a boil water notice you must bring water to a rolling boil for a period of at least one minute. You only have to boil water for human cunsumption.

▪

Health Advisories – Boil Water Notices

Use the assistance of your County Health Department and/or District FDEP office, and FDEP's Mandatory Health Effects Language, located on FDEP's website at:

http://www.doh.state.fl.us/environment/water/manual/boil.htm

http://www.DEP.state.fl.us/water/drinkingwater/rules.htm,

and click on "Mandatory Health Effects Language"., PLUS EPA's templates at:

http://epa.gov/safewater/pn.html

Click on "Microsoft Word and Word Perfect files of PN templates" (PN means Public Notifications), then determine which "Tier" of notifications is needed and click on the desired software to receive them in.

Section 2
Written Agreements With Other Agencies, Utilities, or Response Organizations

INSERT BELOW information regarding any written agreements with other agencies, utilities, or response organizations, such as emergency interconnects, mutual aid or FlaWARN.

Emergency Interconnect(s)

Information on the location of interconnection(s) (if any), type and size of interconnecting pipe, pumps and accessory equipment, meters at interconnection(s), normal pressures at both ends of interconnection, volume of water from interconnection(s), type of agreement and approvals needed for use, procedures necessary to use interconnection, etc.

Location (Street)	
Location (GPS)	
Description	

Memoranda of Understanding

Organization	
Summary of Understanding	

Mutual Aid Agreements

Organization	Marion Utilities, 352-622-1171
Summary of Understanding	Will render mutual aide – ie: pumps, generators, and other materials necessary to restore water service.

FlaWARN

Organization	
Summary of Understanding	

Section 3
Disaster-Specific Preparedness/Response Plan

Your disaster-specific preparedness/response plan must include a Vulnerability Assessment and preparedness / response plans for: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release.

In any event there are a series of general steps to take:

1. Confirm and analyze the type and severity of the emergency.
2. Take immediate actions to save lives.
3. Take action to reduce injuries and system damage.
4. Make repairs based on priority demand.
5. Return the system to normal operation.

Vulnerability Assessment

It is essential that water systems identify and assess the vulnerability of each system component for both natural and human-caused emergencies, before preparing their disaster-specific preparedness/response plans. Prepare your Vulnerability Assessment by completing the table below:

Facility Vulnerability Assessment

System component	Description and condition	Vulnerability	Security improvements (indicate existing or proposed)
Raw Water Sources	(2) 6" groundwater wells located several hundred feet from homes. Wells are in good condition. We have wellhead protection in place.	The wells are most vulnerable to above ground activities because they are only 132 and 128 FT deep.	1.Purchase land surrounding well. 2. Secure well house to foundation and install lighting around well house.
Pump-house and pumping facilities	The pump-house and pumping facility are in good condition.	Pump location is fully fenced with a locked gate.	Install tamper proof padlocks.
Treatment Facilities	There is a hypo-chlorination system inside of pump house. System is in good condition.	Chlorination systems are not subject to power outages.	There is a backup generator on site in compliance with CH. 62-555.320(14)FAC
Storage Facilities	Hydro pneumatic tank is fenced in good condition.	Tank is not in a lighted area.	Install lighting in area of tank.
Computer and telemetry systems	Computers are in utilities main office and are in good condition.	Computers should be better protected against cyber attack or hacking.	Secure computers with firewalls & virus protection.

A. Vandalism or Sabotage Response Procedures

1. Utility staff first aware of incident:
    a) Calls 9-1-1/ Local Law Enforcement.
    b) Calls Manager
2. Manager determines severity of incident.
    a) Field supervisor determines if vandalism or sabotage will effect the water quality.
    b) Manager reports incident to the state warning point.
3. Field supervisor directs repairs as needed.
    a) Complete repairs
    b) Update ERP as needed.

B. Drought Response Procedures

Include water use restrictions per Consumptive Use Permit

1. Manager coordinates with the local Water Management District (WMD) regarding drought conditions.
    a) If drought conditions exist, a water conservation plan will be initiated.
    b) Literature will be distributed to customers regarding the drought.
    c) Conservation material will be distributed to customers on conservation measures.
    d) Customers not abiding by restrictions will be reported to WMD.
    e) Manager updates ERP as needed.

C. Hurricane Preparedness & Response Procedures

Pre- Hurricane **(36 to 48 hrs prior to arrival)**	1. Manager coordinates with local EOC. 2. Field supervisor checks operation of standby power. 3. Field supervisor secures fuel and treatment chemicals for a 10 day period. 4. Manager replenishes inventory of spare parts.
Hurricane Watch **(24 to 36 hrs prior to arrival)**	1. Manager cancels all time off for employees. 2. Manager issues work assignments in advance in case of communication loss. 3. Employees all top off fuel in vehicles & standby generators. 4. Manager authorizes employees to secure their personal property and arrange for the safety of family members.
Hurricane Warning (24hrs or less prior to arrival)	1. Employees report to designated areas and wait for instructions. 2. Employees load truck with supplies. 3. Employees follow evacuation protocol.
Recovery Procedures	1. Manager coordinates with local EOC. 2. Manager issues boil water notices if needed. 3. Field supervisor coordinates repairs. 4. Manager makes contact with the appropriate DEP office. 5. After repairs are completed samples are taken. 6. When samples come back clear – boil water notice is lifted. 7. Manager files all malfunction reports with the DEP. 8. Field supervisor inspects all systems to make sure everything is running smooth.

D. Structure Fire Response Procedures

1. Utility staff discovering fire:
    a) Evacuate structure on fire.
    b) Call 9-1-1
2. Manager determines severity of incident.
    a) Manager contact State Warning Point.
    b) Field supervisor coordinates repairs when fire is extinguished.
3. Field supervisor reports to manager when repairs are complete.
    a) Manager reports completion of all repairs to any Gov. agency.
    b) Manager updates ERP as needed.

E. Flood Preparedness & Response Procedures

(Is any critical part of your system in a flood prone area?)

None of our systems are in a flood prone area.

F. Forest or Brush Fire Response Procedures

(Is any critical part of your system subject to forest or brush fires?)

1. Utility staff discovering fire.
    a) Orders evacuation of any threatened buildings.
    b) Calls 9-1-1 to report fire.
2. Manager determines the severity of fire.
    a) Manager contacts the State Warning Point.
    b) Field supervisor inspects for any damage and coordinates repairs after fire is extinguished.
3. Field supervisor reports to manager that all repairs are complete.
    a) Manager updates the ERP as needed.
    b)

G. Hazardous Material Release Response Procedures

Do you have any hazardous material (chlorine gas) at your water system?

We have no Hazardous materials at any of our water systems.

H. Other Disaster Response Procedures

Are there other disasters that you want to prepare for, such as a Contamination event, SCADA Attack, or Structural Damage from an Intentional Act?

Contamination

1.
   a)
   b)
2.
   a)
   b)

SCADA Attack

1.
   a)
   b)
2.
   a)
   b)

Structural Damage from an Intentional Act

1.
   a)
   b)
2.
   a)
   b)

Section 4
Standby Power Requirements

Include details about how the water system meets the standby power requirements as described in Ch. 62-555.320(14), and 62-555.350(15)(d) FAC for water source, treatment, and pumping facilities necessary to deliver drinking water at a rate at least equal to the Average Daily Water Demand.

Standby Power for Wells or Surface Water Intakes

Standby Power (or by alternate means) to OPERATE WELLS at Average Daily Demand

Average Daily Demand (ADD) in gpd or gpm	50849 gpd
Wells Needed to Supply Average Daily Demand	1
Standby Generator (kW) Needed for ADD &	15 KW
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	We will have reserve fuel in the case of an emergency.

Standby Power for Treatment Facilities

Standby Power (or by alternate means) to TREAT WATER at Average Daily Demand

Treatment Units Needed to Supply ADD	
Standby Generator (kW) Needed to Treat ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Standby Power for Pumps

Standby Power (or by alternate means) to PUMP WATER at Average Daily Demand

Pumps Needed to Supply ADD	
Standby Generator (kW) Needed to Pump ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Section 5
Drinking Water Treatment Chemicals & Disinfectants

Include recommendations regarding the amount of drinking water treatment chemicals, to maintain in inventory at treatment plants. Do not just list chemical storage capacity, but instead recommend the minimum amount of chemicals to maintain in inventory, which depends upon the location and reliability of chemical suppliers, the status of impending disasters, etc.

Disinfection Treatment Information

Disinfection Chemical(s)	Chemical / Location No. 1	Chemical / Location No. 2
Type of Chemical	Chlorine	
Type of Chemical Feed	Hypo-Chlorinator	
Chemical Storage Location	On site in the pump house.	
Recommended Minimum Amount to be Maintained in Storage (gal)	55 gallons	

Other Chemical Information

Chemical(s) Used	Chemical #1	Chemical #2	Chemical #3	Chemical #4
Type of Chemical				
Type of Chemical Feed				
System Location				
Chemical Storage Location				
Recommended Minimum Amount to be Maintained in Storage (gal)				

Appendix A
Basic System information

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Keep this basic information readily available for when you need it for emergency responders, repair people, the news media and potentially, an emergency operator.

Basic System Information

GPS coordinates will help emergency crews find your system following a major catastrophe.

System identification number (PWS ID)	**3424009**	
System name and address	**Whispering Sands**	
GPS Coordinates	Latitude:	Longitude:
Basic description and location of system facilities	**3030 SE 50th Ct**	
Population served and service connections.	Population =	Connections = 127
System Owner	**Sunshine Utilities of Central Florida, Inc.**	
Management Authority	**Owner and Manager**	
Name, title, and phone numbers of person responsible for maintaining and implementing the ERP.	**Dewaine Christmas** **Manager**	**352-347-8228 phone** **352-239-1198 cell**

System Demand

Demand based on Monthly Operational Records and system capacity based on Sanitary Survey.

Average Daily Demand (gpd)	50849 GPD
Maximum Daily Demand (gpd)	72999 GPD
System Capacity (gpd)	228960 GPD
Peak Hour Demand (gpm)	N/A

Location of Pertinent Information

Item	Location
Distribution System Map	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
O&M Manual(s)	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
Start-Up / Shut-Down Procedures	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.

Well Information

GPS coordinates will help emergency crews find wells following a major catastrophe.

Well Information	Well No. 1	Well No. 2	Well No. 3	Well No. 4
GPS well tag #				
Location (street)	3030 SE 50th Ct	3030 SE 50th Ct		
GPS Coordinates	Lat: Long:		Lat: Long:	Lat: Long:
Well Depth (ft)	132 FT	128 FT		
Well Yield (gpd)	165600 GPD	165600 GPD		
Pump Type	Submersible	Submersible		
Manufacturer	Sta-Rite	Sta-Rite		
Capacity (gpm)	115 GPM	115 GPM		
Motor Manufacturer	Franklin	Franklin		
Horsepower	7.5 HP	7.5		
Phase	3	3		
Volts/Amps	230 volts	230 Volts		

Surface Water Sources

GPS coordinates will help emergency crews find surface water intakes following a major catastrophe.

Surface Water Information	Intake No. 1	Intake No. 2
Location (Street / Description)		
GPS Coordinates	Lat: Long:	Lat: Long:
Critical Water Level		

Finished Water Storage

GPS coordinates will help emergency crews find tanks following a major catastrophe.

Name of Storage Unit	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Location (Street)				
Location (GPS)	Lat: Long:	Lat: Long:	Lat: Long:	Lat: Long:
Type (ground, elevated, etc.)				
Capacity (gal)				
Empty Elevation				
Overflow Elevation				

High Service Pumps

HSP	HSP No. 1	HSP No. 2	HSP No. 3	HSP No. 4
Location (street)				
Pump Type				
Manufacturer				
Capacity (gpm)				
Motor Manufacturer				
Horsepower				
Phase				
Volts/Amps				

Other Applicable Information

Appendix B
Training and Rehearsals

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Event	Description	People & Organizations Involved	Date

Appendix C
Plan Approval

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Plan Approval

This plan is officially in effect when reviewed, approved, and signed by the following people:

Name / Title	Signature	Date
Hodges Family Trust		

APPENDIX D: CONSUMER CONFIDENCE REPORT

Certification of Delivery of Consumer Confidence Report

GENERAL INSTRUCTIONS: This form shall be completed by all community water systems (CWSs) that have prepared a Consumer Confidence Report (CCR) in accordance with Rule 62-550.824, F.A.C., Consumer Confidence Reports. At the end of this form is a certification in which a system's authorized representative shall certify that the reported information is accurate and is in conformance with Rule 62-550.824, F.A.C. **COMPLETE THIS FORM AND SUBMIT IT BY AUGUST 10,** together with a copy of your system's CCR, sample email or water bill (with URL notification of CCR, if applicable), and any newspaper notice(s) and posted notice(s) of your CCR, to the appropriate DEP district office or Approved County Health Department (ACHD). Systems serving 100,000 or more persons posting their CCRs on publicly accessible Internet sites shall provide the information on the appropriate Internet link(s). All information provided on this form must be typed or printed in ink.

I. General Water System Information. (To be completed by all community water systems.)

System name: Whispering Sands Contact person: Dewaine Christmas

PWS Identification number (PWS ID): 3424009 Contact phone number: (352)347-8228

Mailing address: 10220 East Hwy 25 City: Belleview

State: Fl Zip: 34420-5531 Population served (not the number of "service connections"): _____

II. CCR Distribution Method. (To be completed by all community water systems. Choose A or B as appropriate.)

☐ A. We mailed, emailed, or otherwise directly delivered a copy of our CCR to each customer on _____ (enter date(s) of mailing or delivery) using the method(s) checked below:

- ☐ a. **Mailed** CCR
- ☐ b. **Mailed** notice (e.g. water bill) with **direct URL** to the CCR
- ☐ c. **Emailed** CCR as an **embedded** image or as an **attachment**
- ☐ d. **Emailed** notice with a **direct URL** to the CCR
- ☐ e. **Otherwise directly delivered** CCR to every customer. Explain: _____

☑ B. We were eligible to use a mailing waiver and used a mailing waiver. (Systems are eligible to use a mailing waiver only if they serve fewer than 10,000 persons, have not had any MCL or monitoring and reporting (M/R) violations, nor have been issued any formal Notices of Violations (NOVs), Consent Orders, Administrative Orders, or court-ordered civil actions during the calendar year before the year the CCR is due to the customers).

Answer a, b, **and** c below.)

- ☐ a. Date of newspaper: _____
- ☐ b. Name of newspaper/newsletter that published our CCR: _____
- ☑ c. A copy of our notice to customers, informing them that our CCR will not be mailed to them, is attached.

This notice was: ☑ mailed with bill; ☐ published in newspaper/newsletter; or ☐ other (describe)

_____

III. Posting of CCR on the Internet. (To be completed by all CWSs serving 100,000 or more persons.)

We posted our CCR on this publicly accessible internet site: _____

IV. Report on Your Effort to Distribute Your CCR to Your Water Consumers.

(To be completed by all CWSs. Check all items that apply - at least one item must be checked.)

In addition to the methods selected in Part II,

■ A. We posted our CCR on this publicly accessible internet site: www.sunshineutilities.org

☐ B. We published our CCR in the local newspaper(s). The name(s) and date(s) of the newspaper(s) are:

_____

RECEIVED

JUL 10 2020

DEP Central District

☐ C. We advertised the availability of our CCR as a press release, radio announcement, or TV announcement. The type(s) and date(s) of the advertisement(s) are: _____

☐ D. We delivered multiple copies of our CCR to single bill addresses serving several persons.

☐ E. We delivered multiple copies of our CCR to the following community organizations:

_____

☐ F. Our CCR was posted in the following public locations: _____

_____

■ G. Our CCR was distributed by other methods (e.g., additional copies placed in entrance hall to facility). Describe.
Additional copies available at Sunshine Utilities Office

_____

V. Use of Non-English Language in CCR. (To be completed by all community water systems.)

☐ Information in a non-English language was included in our CCR because 20% or more of our customers do not speak English but speak _____. The method we used to determine the proportion of non-English speaking customers is _____

■ This requirement does not apply to our system, because we have no non-English speaking group among our customers equal to or exceeding 20% of our total number of customers.

VI. Other Delivery Requirements. (To be completed by all community water systems.)

(A) Was a copy of your CCR sent to your county health department, as required by rule? ■ Yes ☐ No

(B) Is your system regulated by the Public Service Commission (PSC)? ☐ Yes ☐ No

If Yes, was a copy of your CCR sent to the PSC, as required by rule? ■ Yes ☐ No

(C) If your system sells water to other systems, have you provided them with either a copy of your CCR or the required consumer confidence information? ■ Yes ☐ No ■ Not Applicable

VII. Certification of Delivery of CCR and Compliance with Regulations. (To be completed by all CWSs.)

This statement certifies that the above named community public water system has distributed its CCR for the time period starting ***January 1, 2019, and ending December 31, 2019,*** to its customers on 6/15/20 (mm/dd/yy) and provided the appropriate notices of availability according to the requirements listed in this form, which are also found in Rule 62-550.824, F.A.C. This statement also certifies that the reported information is correct and consistent with the compliance monitoring data for the same period previously submitted to the Department, and that the report has been delivered to the agencies identified in Rules 62-550.824(3)(e)3., and 4., F.A.C.

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____

NAME (please print): Dewaine Christmas

TITLE: Manager DATE: 6/26/20

■ **A copy of our CCR is attached, and**

☐ **If using electronic delivery, a copy of our sample email or notice (e.g. water bill), with URL leading directly to the CCR and not a general information website, is attached. For example, if you are using the FRWA website to post your CCR, your URL would be:**

www.frwa.net/2012-Your PWSID Number.pdf (www.frwa.net/2012- 0000000.pdf).

SUNSHINE UTILITIES
10230 East Highway 25
Belleview, Florida 34420

Drinking Water Quality Report

Annual Drinking Water Quality Report for 2019

Whispering Sands

Florida Department of Environmental Protection Public Water System ID # 3424009

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

The source of our water is groundwater from two wells located in the community. The wells draw from the Floridan aquifer, one of the world's most protected sources. Our water is chlorinated for disinfection purposes. In 2019 the Department of Environmental Protection performed a Source Water Assessment on our system and a search of the data sources indicated no potential sources of contamination near our wells. The assessment results are available on the FDEP Source Water Assessment and Protection Program website at www.dep.state.fl.us/swapp.

If you have any questions about this report or concerning your water utility please contact **Dewaine Christmas, at Sunshine Utilities, (352) 347-8228**, during normal business hours. We encourage our valued customers to be informed about their water utility.

Sunshine Utilities routinely monitors for constituents in your drinking water according to Federal and State laws, rules and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2019. Data obtained before January 1, 2019, and presented in this report are from the most recent testing performed in accordance with the laws, rules and regulations.

WATER QUALITY TEST RESULTS FOR WHISPERING SANDS

Radioactive Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Radium 226 + 228	(pCi/L)	JUL'15	No	1.5	N/A	0	5	Erosion of natural deposits

Inorganic Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Arsenic	(ppb)	NOV '18	No	0.5	N/A	N/A	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	(ppm)	NOV '18	No	0.0005	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chromium	(ppb)	NOV '18	No	2.2	N/A	100	100	Discharge from steel and pulp mills; erosion of natural deposits
Fluoride	(ppm)	NOV '18	No	0.18	N/A	4	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum levels between 0.7 and 1.2 ppm
Nitrate (as Nitrogen)	(ppm)	DEC '19	No	3.1	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium	(ppb)	NOV '18	No	0.9	N/A	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium	(ppm)	NOV '18	No	10	N/A	N/A	160	Salt water intrusion; leaching from soil

Stage 2 Disinfectants and Disinfection By-Products

Disinfectant or Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL or MRDL Violation Yes / No	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine	(ppm)	2019	No	1.3	0.8 - 1.6	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Haloacetic Acids (five) (HAA_5)	(ppb)	SEP '19	No	0.91	N/A	N/A	MCL = 60	By-product of drinking water disinfection
Total trihalomethane (TTHM)	(ppb)		No	0.90	N/A	N/A	MCL = 80	By-product of drinking water disinfection

Lead and Copper (Tap Water)

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	AL Violation Yes / No	90th Percentile Result	No. of Sampling Sites Exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper	(ppm)	JUL' 18	No	0.265	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

In the table you may find unfamiliar terms and abbreviations. To help you better understand these terms we have provided the following definitions (please note not all definitions may pertain to your report):

- Action Level (AL) – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial growth.
- Maximum Residual Disinfectant Level Goal (MRDLG) – The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.
- ND – This abbreviation means not detected and indicates that the substance was not found by laboratory analysis.
- Parts per million (ppm) or milligrams per Liter (mg/L) - one part of analyte (by weight) to 1 million parts of water sample (by weight).
- Parts per billion (ppb) or micrograms per Liter (µg/L) - one part of analyte (by weight) to 1 billion parts of water sample (by weight).
- Picocurie per liter (pCi/L) - measure of the radioactivity in water.

What does this mean?

As you can see our system had no violations. We're very proud that your drinking water meets all Federal and State requirements.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Sunshine Utilities is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals, and in some cases radioactive material, and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

A.) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

B.) Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

C.) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

D.) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

E.) Radioactive contaminants, which may be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The FDA (Food & Drug Administration) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care providers about their drinking water. EPA/CDC (Center for Disease Control) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are also available from the Safe Drinking Water Hotline (800-426-4791).

We are committed to ensuring the quality of your water. If you have any questions or concerns about the information provided, please feel free to call the numbers listed.

Sunshine Utilities

10230 East Highway 25, Belleview, FL 34420
Office (352)347-8228 – Fax (352)347-6915

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality of water and services we deliver to you everyday. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

Please follow the link to view your 2019 Annual Water Quality Report.

https://www.sunshineutilities.org/ccr19/2019WhsperingSands.pdf

APPENDIX E: SANITARY SURVEY REPORT

FLORIDA DEPARTMENT OF
Environmental Protection

CENTRAL DISTRICT OFFICE
3319 MAGUIRE BLVD., SUITE 232
ORLANDO, FLORIDA 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

December 15, 2020

Dewaine Christmas, Owner
Sunshine Utilities of Central Fl, Inc.
10230 SW Hwy 25
Belleview, FL 34420
sunshineutl@aol.com

Re: Whispering Sands Subdivision
PW Facility ID #3424009
Marion County

Dear Mr. Christmas:

Department personnel conducted an inspection and a file review of the above-referenced facility on November 19, 2020. Based on the information provided during the inspection, the facility was determined to be in compliance with the Department's rules and regulations. A copy of the inspection report is attached for your records, and any non-compliance items which may have been identified at the time of the inspection have been corrected.

The Department appreciates your efforts to maintain this facility in compliance with state and federal rules. Should you have any questions or comments, please contact Miranda Rothenberger at 407-897-4301 or via e-mail at Miranda.Rothenberger@FloridaDEP.gov.

Sincerely,

Daniel K. Hall, Manager
Central District
Florida Department of Environmental Protection

Enclosure: November 19, 2020 Inspection Report

cc: Miranda Rothenberger, FDEP

State of Florida
Department of Environmental Protection
Central District

SANITARY SURVEY REPORT

Plant Name **WHISPERING SANDS SUBDIVISION** County Marion PWS ID # **3424009**
Plant Location SE 50th Ct & SE 30th St, Ocala, Florida 34471 Phone 352-347-8228
Owner Name Sunshine Utilities of Central Florida Inc Phone 352-347-8228
Owner Address 10230 SE US Hwy 25, Belleview, Florida 34420
Contact Person Dewaine Christmas Title Owner Phone 352-347-8228
This Survey Date 11/19/2020 Last Survey Date 01/23/2018 Last Compliance Inspection Date 08/29/2014

PWS TYPE: Community

PLANT CATEGORY & CLASS: 5D

MAX-DAY DESIGN CAPACITY: 228,960 gpd

PWS STATUS: Approved

TREATMENT PROCESSES IN USE
Hypochlorination

SERVICE AREA CHARACTERISTICS
Subdivision
Food Service: ☐ Yes ☐ No ☒ N/A

Number of Service Connections 125
Population Served 437 Basis MOR

OPERATION & MAINTENANCE LOG: Yes
Location Water treatment plant
Comments

CERTIFIED OPERATOR: Yes
Operator(s) & Certification Class-Number:
Kelvin Edun C-7459

Hrs/day: *Required* *Visit *Actual* Visit
Days/wk: *Required* 3 *Actual* 5
Non-consecutive Days? ☐ Yes ☐ No ☒ N/A
Comments *3 visits/week on nonconsecutive days for a total of 0.3 hour/week.

MONTHLY OPERATION REPORTS (MORs)
MORs submitted regularly? ☒ Yes ☐ No ☐ N/A
Data missing from MORs? ☐ No ☒ Yes ☐ N/A
Average Day (from MORs) 21,799 gpd
Maximum Day (from MORs) 77,900 gpd 01/2020
Comments Flow meter broken April 18, 2020 – September 25, 2020. No flow data recorded.

Flow Measuring Device Flow Meter
Meter Size & Type Neptune 3" // Master Meter 3"
Date Last Calibrated 08/04/2016 //08/18/2016

RAW WATER SOURCE
☒ GROUND; Number of Wells 2
☐ PURCHASED from PWS ID #
☐ Emergency Water Source
Emergency Water Capacity

STANDBY POWER SOURCE: Yes
Source Generac Power System
Capacity of Standby (kW) 34
Switchover: ☒ Automatic ☐ Manual
Hrs Operated Under Load 0 hr/wk.
What equipment does it operate?
☒ Well Pumps Both
☐ High Service Pumps
☒ Treatment Equipment
Satisfy avg. daily demand? ☒ Yes ☐ No ☐ Unknown
Audio-visual alarm? ☒ Yes ☐ No
Comments

PLANS AND MAPS

Coliform Sampling Plan	☒ Yes	☐ No	☐ N/A
D/DBP Monitoring Plan	☒ Yes	☐ No	☐ N/A
Lead and Copper Plan	☒ Yes	☐ No	☐ N/A
Distribution System Map	☒ Yes	☐ No	☐ N/A
Emergency Response Plan	☒ Yes	☐ No	☐ N/A

Comments

PREVENTIVE MAINTENANCE/O&M

Operation & Maintenance Manual	☒ Yes	☐ No	
Preventive Maintenance Program	☒ Yes	☐ No	☐ N/A
Flushing Program	☐ Yes	☐ No	☒ N/A
Records	☐ Yes	☐ No	☒ N/A
Isolation Valve Exercise	☐ Yes	☐ No	☒ N/A
Records	☐ Yes	☐ No	☒ N/A

Comments

CROSS CONNECTION CONTROL
BFPAs None reporting # Tested N/A
WWTP RPZ N/A Date Tested N/A
Written Plan Yes Date 02/10/2010
Comments

PWS ID # 3424009
Date 11/19/2020

GROUND WATER SOURCE

Well Number (Florida Unique Well ID #)		**1(AAE0278)**	**2(AAE0279)**		
Year Drilled		1979	1983		
Depth Drilled		132’	128’		
Drilling Method		Cable tool	Combination		
Type of Grout		Neat cement	Neat cement		
Static Water Level		42’	42’		
Pumping Water Level		Unknown	Unknown		
Design Well Yield		Unknown	Unknown		
Test Yield		Unknown	Unknown		
Actual Yield (if different than rated capacity)		Unknown	Unknown		
Strainer		Unknown	Unknown		
Length (outside casing)		105’	Unknown		
Diameter (outside casing)		6”	6”		
Material (outside casing)		Black steel	Black steel		
Well Contamination History		None	None		
Is inundation of well possible?		No	No		
6’ X 6’ X 4” Concrete Pad		Yes	Yes		
SET BACKS	Septic Tank	>200’	>200’		
	Reuse Water	N/A	N/A		
	WW Plumbing	>100’	>100’		
	Other Sanitary Hazard	None observed	None observed		
PUMP	Type	Submersible	Submersible		
	Manufacturer Name	Sta-Rite	Sta-Rite		
	Model Number	Unknown	Unknown		
	Rated Capacity (gpm)	115	150		
	Motor Horsepower	7.5	7.5		
Well casing 12” above grade?		Yes	Yes		
Well Casing Sanitary Seal		Yes	Yes		
Raw Water Sampling Tap		Yes	Yes		
Above Ground Check Valve		Yes	Yes		
Security		Yes	Yes		
Well Vent Protection		Yes	Yes		

COMMENTS _____

PWS ID # 3424009
Date 11/19/2020

CHLORINATION (Disinfection)
Type: ☐ Gas ☒ Hypo
Make Chem Tech /Unidose Capacity 15/12 gpd
Chlorine Feed Rate 100%
Avg. Amount of Cl_2 gas used N/A
Chlorine Residuals: Plant 0.53 Remote 0.38
Remote tap location 2921 SE 62nd
DPD Test Kit: ☐ On-site ☒ With operator
☐ None ☐ Not Used Daily
Injection Points Prior to hydropneumatic tank
Booster Pump Info
Comments

Chlorine Gas Use Requirements	YES	NO	Comments
Dual System	☐	☐	
Auto-switchover	☐	☐	
Alarms: Loss of Cl_2 capability Loss of Cl_2 residual Cl_2 leak detection	 ☐ ☐ ☐	 ☐ ☐ ☐	
Scale	☐	☐	
Chained Cylinders	☐	☐	
Reserve Supply	☐	☐	
Adequate Air-pak	☐	☐	
Sign of Leaks	☐	☐	
Fresh Ammonia	☐	☐	
Ventilation	☐	☐	
Room Lighting	☐	☐	
Warning Signs	☐	☐	
Repair Kits	☐	☐	
Fitted Wrench	☐	☐	
Housing/Protection	☐	☐	

AERATION (Gases, Fe, & Mn Removal)
Type Capacity
Aerator Condition
Visible Algae Growth
Protective Screen Condition
Frequency of Cleaning
Date Last Inspected/Cleaned
Comments

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

Tank Type/Number	H	
Capacity (gal)	10,000	
Material	Steel	
Gravity Drain	Yes	
By-Pass Piping	Yes	
Protected Openings	Yes	
Sight Glass or Level Indicator	Yes	
PRV/ARV	PRV	
Pressure Gauge	Yes	
On/Off Pressure	40/60	
Access Secured	Yes	
Access Manhole	Yes	
Tank Sample Tap Location	On tank	
Date of Inspection	01/2019	
Date of Cleaning	01/2019	

Comments

HIGH SERVICE PUMPS

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

Comments

PWS ID # 3424009
Date 11/19/2020

DEFICIENCIES:

Areas of Concern	Rule	Corrective Action	Date Corrected	Significant Deficiency?
MOR data missing [April 18, 2020 through September 25, 2020]	62-555.350(12)(b)	Repair or replace flow meter.	09/25/20	No

MONITORING REMINDER:

- Nitrate and nitrite samples are required to be collected from the point of entry (POE) to the distribution system annually. The 2020 results have not been received, early sampling is recommended.
- The consumer confidence report (CCR) must be delivered to consumers and the Department no later than July 1, 2021, and certification of delivery of the CCR must be submitted to the Department no later than August 10, 2021.
- Monitoring schedules are available on the Central District's Drinking Water site:

https://floridadep.gov/central/central/content/resources-drinking-water-facilities-and-operators-central-district

COMMENTS:

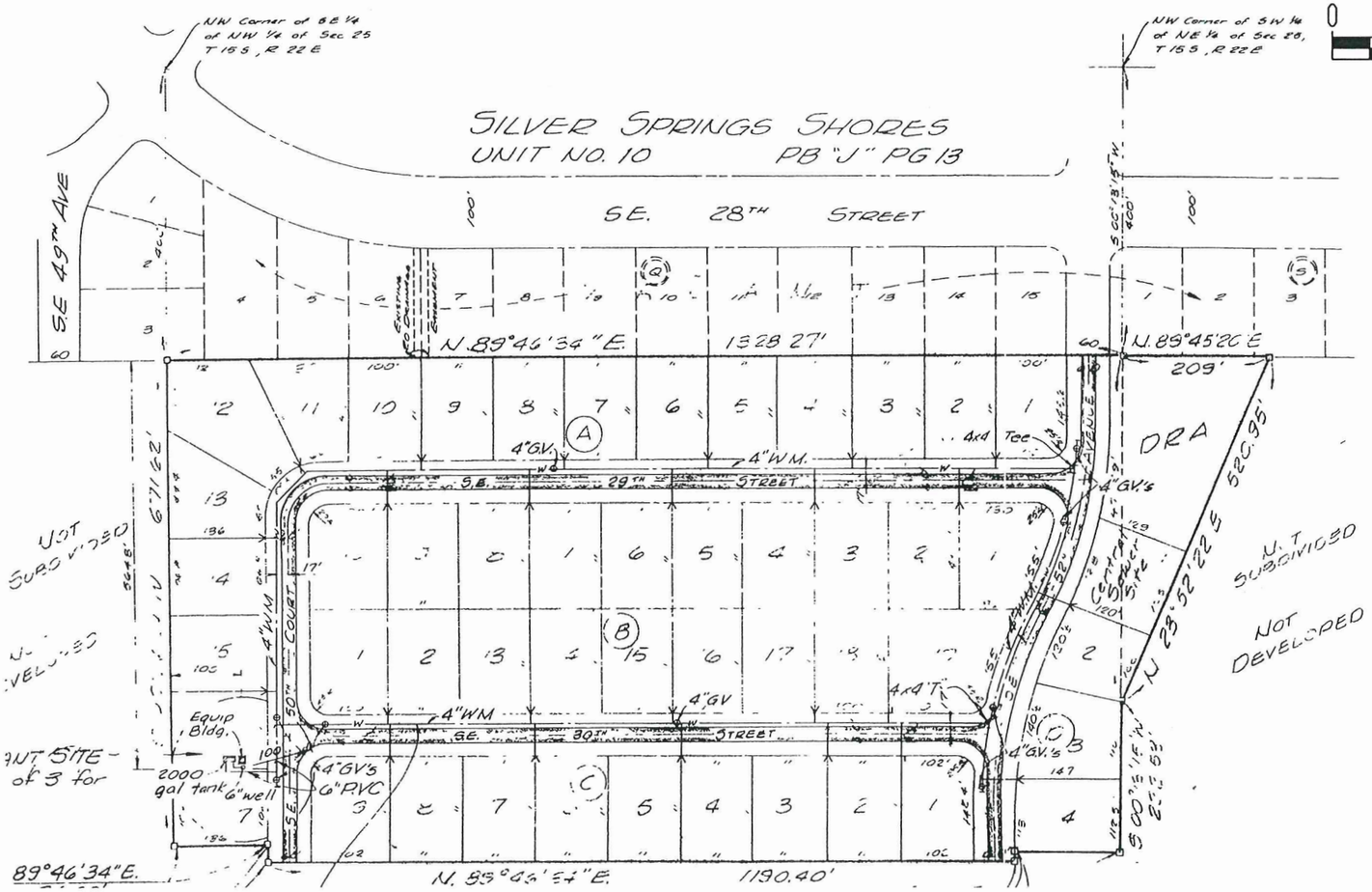
- **Contact FRWA (Florida Rural Water Association) at 850-668-2746, or** frwa@frwa.net, for free technical assistance with your system. FRWA has extended benefits offered to members.
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.

  Checking the calibration of finished-drinking-water meters at treatment plants shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water. [Rule 62-555.350(2), F.A.C.]
- Suppliers of water shall submit written notification to the Department before beginning work or alterations to the public water system. Each notification shall be submitted to the appropriate Department of Environmental Protection District Office or Approved County Health Department and shall include the following: a description of the scope, purpose, and location of the work or alterations; and assurance that the work or alterations will comply with applicable requirements listed in Rule 62-555.330, F.A.C. Suppliers of water may begin such work or alterations 14 days after providing notification to the Department unless they are advised by the Department that the notification is incomplete or that a construction permit is required.
- Suppliers of water shall telephone the SWO at 1-800-320-0519 immediately (i.e., within two hours) after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving a public water system. [Rule 62-555.350(10)(a), F.A.C.]
- Suppliers of water shall telephone, and speak directly to a person at, the appropriate DEP District Office as soon as possible, but never later than noon of the next business day, in the event of any of the following emergency or abnormal operating conditions:
  - The occurrence of any abnormal color, odor, or taste in a public water system's raw or finished water;
  - The failure of a public water system to comply with applicable disinfection requirements; or
  - The breakdown of any water treatment or pumping facilities, or the break of any water main, in a public water system if the breakdown or break is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(b), F.A.C.]

- Suppliers of water shall notify affected water customers in writing or via telephone, newspaper, radio, or television; and telephone, and speak directly to a person at, the appropriate DEP District Office by no later than the previous business day before taking PWS components out of operation for planned maintenance or repair work if the work is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(d), F.A.C.]
- Suppliers of water shall issue precautionary “boil water” notices as required or recommended in the Department of Health’s “Guidelines for the Issuance of Precautionary Boil Water Notices” as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(11), F.A.C.]

M E Rothenberger	Daniel K Hall
Inspector Signature	*Reviewer Signature*
Miranda Rothenberger	Daniel K. Hall
Printed Name	*Printed Name*
Environmental Specialist	Environmental Manager
Title	*Title*
12/11/20	December 15, 2020
Date	*Date*

APPENDIX F: DISTRIBUTION MAP



THIS DRAWING IS A COPY OF AN ORIGINAL OBTAINED FROM SUNSHINE UTILITIES INC.

Sands

H. W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17TH ST. SUITE 608 OCALA, FLORIDA 34471
PHONE (352) 840-0608 FAX (352) 840-9774

WHISPERING PINES UNIT 1

SUNSHINE UTILITIES INC.

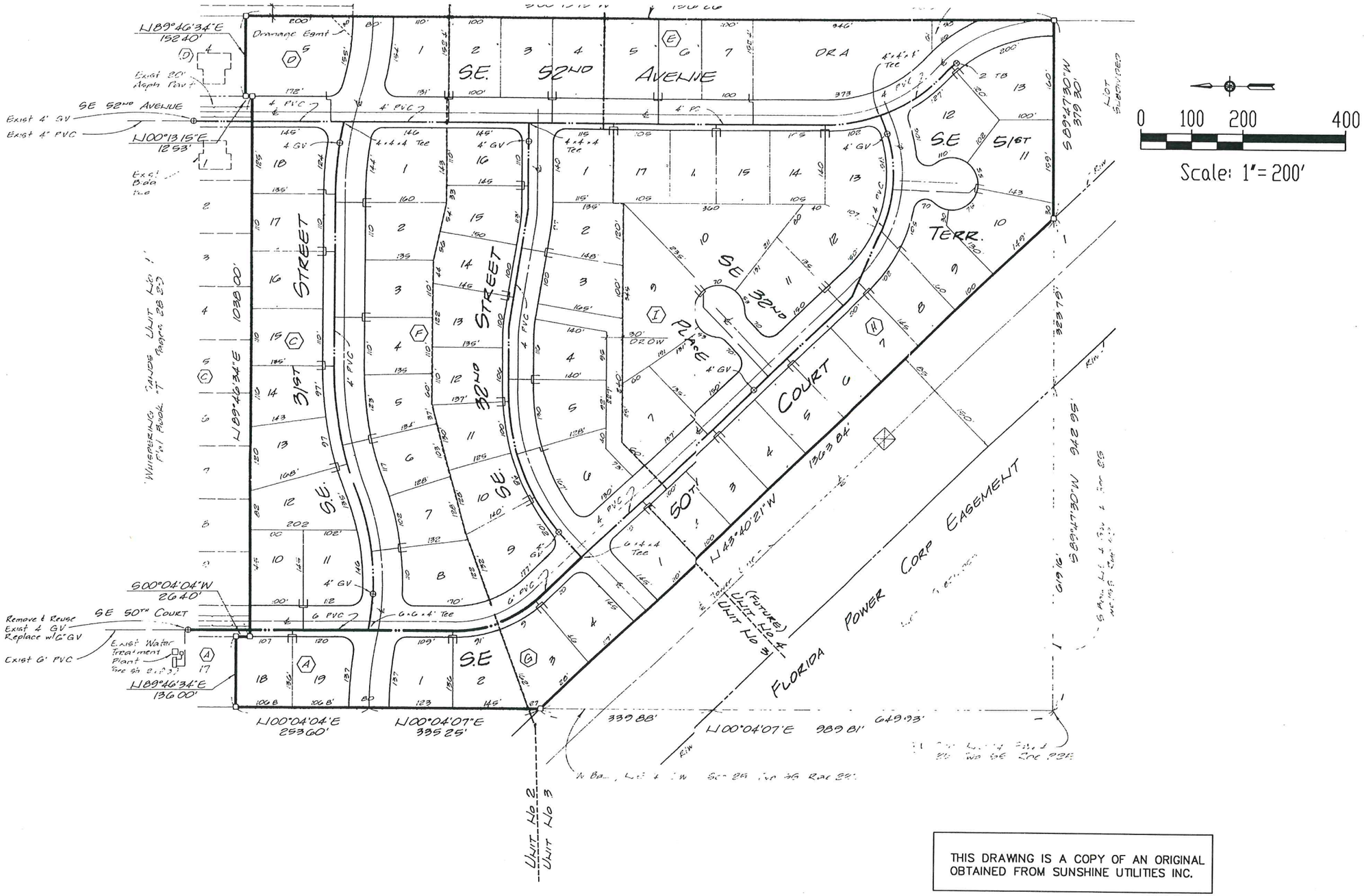
OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PMM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9836-02

1

Sheet 1 of 2



THIS DRAWING IS A COPY OF AN ORIGINAL OBTAINED FROM SUNSHINE UTILITIES INC.

H. W. BARRINEAU & ASSOCIATES, INC.
3100 SOUTHEAST 17TH ST, SUITE 602 OCALA, FLORIDA 34471
PH (352) 840-9638 FAX (352) 840-9774

WHISPERING SANDS UNIT 2

SUNSHINE INDUSTRIES INC.

OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PWM	HWB	11 APR 97	ORIGINAL ISSUE

Project No. 9638-02

Sheet 2 of 2



woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WATER SYSTEM ASSESSMENT

Winding Waters Subdivision

210 South Florida Avenue | Suite 220
Lakeland, Florida 33801
800.426.4262

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

0233748.01
CSWR
July 2021

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» SWAPP Homepage
» Search By County
» Search by PWS Name or Number
» How to Help?

Definitions

» Aquifers
» Public Water Systems
» Assessment
» Potential Contaminants
» Susceptibility
» Prevention

Contact Us

» Email
» Mailing Address
» Source Water Protection Workshop

EPA Source Water Protection website

Source Water Assessment & Protection Program

Results for: 2019

WINDING WATERS
SE 58 PL & SE 183 AVE
OCKLAWAHA, FL 34471

Public Water System ID: 3424691
County: MARION
DEP Regulatory Office: DEP Central District
3319 Maguire Blvd, Suite 232
Orlando, FL 32803
407-897-4100
Public Water System Type : COMMUNITY
Public Water System Source : GROUND
Primary Use: MOBILE HOME PARK
Population Served: 473
Size of Assessment Area:
GROUND: For this system, a 1000-foot radius circle around each well was used to define the assessment area.

Number of Wells: 2

Well ID	Owner ID	FLUWID	Status	Well Depth(ft)	Aquifer
6029	WELL#2 8" 177'/297' 420 GPM	AAC3154	ACTIVE	297	Floridan Aquifer
6028	WELL#1 8" 147'/225' 430 GPM	AAE0268	ACTIVE	225	Floridan Aquifer

Results:

GROUND WATER:
A search of the data sources indicated no potential sources of contamination.

Last updated: February 19, 2020

Accessibility Information

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Exit Disclaimer
Privacy Statement

3900 Commonwealth Boulevard M.S. 49
Tallahassee, Florida 32399
850-245-2118 (phone) /
850-245-2128 (fax)

APPENDIX B: TANK INSPECTION REPORT

INSPECTION AND TESTING of HYDROPNEUMATIC TANK

Winding Waters Subdivision Tank

Pursuant to Chapter 62-555.350 (1) & (2) F.A.C

Water System:	Winding Waters Subdivision
Street Address:	Southeast 183rd Avenue Road/5800 Block
City, State:	Marion County, Florida
Phone:	352-347-8228
Contact:	Dewaine Christmas
E-mail:	sunshineutl@aol.com
PWS ID No.:	3424691
County:	Marion
Classification:	Community
Source:	Ground
Ownership:	Sunshine Utilities of North Central Florida
Date:	December 13, 2018

Inspection and Testing by:

Robert M. Couch III, P.E.
ENVIRO-TECH, Inc.
PO Box 152
Weirsdale, FL 32195
Telephone: 352-694-1799
E-mail: envirotech@ymail.com

ROBERT M. COUCH III
LICENSE
No. 55311
STATE OF FLORIDA
PROFESSIONAL ENGINEER

C.O.A. No. 8692 Registration No. 55311

Robert M. Couch III, P.E.

Digitally signed by Robert M. Couch III, P.E.
DN: cn=Robert M. Couch III, P.E., o=ENVIRO-TECH, Inc., ou=Reg. No. 55311, email=envirotech@ymail.com, c=US
Date: 2019.01.27 21:32:38 -05'00'

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1.0 EXECUTIVE SUMMARY

ENVIRO-TECH, Inc. was contracted to perform the five year tank condition inspection on the above mentioned hydro-pneumatic tank.

This condition inspection was performed on December 13, 2018 by Robert M. Couch III, P.E. on the above referenced water tank. The tank was drained and, an internal and external inspection was performed to assess the tank condition as required by the Florida Department of Environmental Protection (FDEP) Rule 62-555.

The tank shell and heads appeared to be in overall fair structural condition. Ultrasonic Thickness Measurement (UTM) readings indicated that the average thickness of the tank shell at the time of the field inspection was approximately 6.084 millimeters. UTM readings from the tank heads indicated an average thickness of 6.565 millimeters. The exterior coating of the tank appeared to be in overall fair condition with no notable surface corrosion. The interior coating of the tank appeared to be in poor condition with significant surface corrosion beginning to form along the tank ridge and walls.

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 55 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 45 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

2.0 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS CHAPTER 62-555.350 (1) & (2)

2.1 Operation and Maintenance of Public Water Systems

(1) Suppliers of water shall operate and maintain their public water systems so as to comply with applicable standards in Chapter 62-550, F.A.C., and requirements in this chapter.

(2) Suppliers of water shall keep all necessary public water system components in operation and shall maintain such components in good operating condition so the components function as intended. Preventive maintenance on electrical or mechanical equipment – including exercising of auxiliary power sources, checking the calibration of finished-drinking-water meters at treatment plants, testing of air or pressure relief valves for hydropneumatic tanks, and exercising of isolation valves –shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water; however, in no case shall auxiliary power sources be run under load less frequently than monthly. Accumulated sludge and biogrowths shall be cleaned routinely (i.e., at least annually) from all treatment facilities that are in contact with raw, partially treated, or finished drinking water and that are not specifically designed to collect sludge or support a biogrowth; and blistering, chipped, or cracked coatings and linings on treatment or storage facilities in contact with raw, partially treated, or finished drinking water shall be rehabilitated or repaired. **Finished-drinking-water storage tanks, including conventional hydropneumatic tanks with an access manhole but excluding bladder- or diaphragm-type hydropneumatic tanks without an access manhole, shall be checked at least annually to ensure that hatches are closed and screens are in place; shall be cleaned at least once every five years to remove biogrowths, calcium or iron/manganese deposits, and sludge from inside the tanks; and shall be inspected for structural and coating integrity at least once every five years by personnel under the responsible charge of a professional engineer licensed in Florida.** Dead-end water mains conveying finished drinking water shall be flushed quarterly or in accordance with a written flushing program established by the supplier of water; additionally, dead-end or other water mains conveying finished water shall be flushed as necessary whenever legitimate water quality complaints are received.

2.2 Location of Inspection and Testing Report

Pursuant to Chapter 62-555.350 (2) and 62-555.350 (12) FAC, beginning 28 August 2003, all water systems regardless of size must maintain a copy up-to-date Preventive Maintenance Logs of each water system in the water facility office. The Preventive Maintenance Logs must show the date and type of all maintenance performed and comply with Rule 62-555.350 (2) and 62-555.350 (12), which requires the following:

- Preventive Maintenance Logs on Electrical and Mechanical Equipment
- Cleaning and Inspection Logs of Treatment Facilities and Storage Tanks
- Records of Coatings and Linings Rehabilitation or Repair
- Licensed Engineer Inspection Report (once every 5-years) for Finished-Drinking-Water Storage Tanks and Hydropneumatic Tanks
- Written Flushing Program and Logs showing that Dead-End Water Mains are being flushed at least quarterly
- Isolation Valves Exercise Logs

A copy of this report should be kept with these records.

3.0 HYDROPNEUMATIC PRESSURE TANK INSPECTION AND TEST PROCEDURES

This Inspection and Test Procedures is used as a reference in the overall inspection and testing of this Water System. This procedure is to be updated from time to time to reflect physical and procedural changes to the water system.

Inspection and testing of this tank was conducted by Robert M. Couch III, P.E. with the assistance of Jim Hodges Jr. of Sunshine Utilities of North Central Florida, Inc. The following inspection and testing procedures for hydropneumatic pressure tanks were used:

3.1 Pre-Test Procedures

1. If water service is to be interrupted customers must be notified in advance and if appropriate, boil water notices issued.

2. Turn-off all electrical power to well pumps, air motors, chlorination equipment, etc.

3. Open drain valve to empty tank. This is also a good time to check the valves (exercise them) that isolate the tank to see if they are in fact working as they should. This downtime can also be used to replace a valve if needed.

4. Once depressurized, the site glass is inspected for proper operation.

5. Once the tank is drained, the manway (hatch) will need to be removed for inspection of the interior.

3.2 Visual Inspection

6. Perform visual inspection of the tank exterior and accessories for presence of leaks, shell distortion, signs of settling, deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, accessories, etc.

7. Tank layout and physical measurements

8. Color photographs of the tank exterior and all of the essential appurtenances

9. Perform visual inspection of the tank interior for presence of deteriorated metal, pitting, metal delaminations, deteriorated welds, deteriorated coatings, bio-growths, calcium or iron/manganese deposits, sludge, etc.

3.3 Nondestructive Examination

10. The tank interior coating is then examined for dry film thickness (See PosiTest® DFT Coating Thickness Gauge measurement) or equivalent.

11. The tank exterior is then examined for thickness measurements (See Smart Sensor AR 850+ Ultrasonic Thickness Gauge measurement).

12. If deemed necessary, the tank exterior (or interior) is then examined for porosity, pinholes and leaks (See PCWI porosity detection test, also known as holiday detector test).

3.4 Post-Test Procedures

13. Any coating problems detected should be corrected while the tank is out of service in order to avoid further extensive downtime.

14. Once the tank is inspected and all maintenance items are taken care of, the tank will need to be disinfected prior to placing back in use.

15. Once the tank has been disinfected, bacteriological tests must be performed on water samples (2 per FDEP) taken from the tank discharge. FDEP to clear for service prior to placing back in service.

3.5 Safety of Test Area

The test area should be restricted and barricaded. The porosity testing instrument output can be up to 20,000 volts. Testing should be carried out well clear of personnel not involved in the testing procedure. Should accidental contact be made with the test electrode, the recipient will receive a mild shock. This equipment should never be used by a person with a pacemaker.

4.0 TEST EQUIPMENT DESCRIPTIONS

4.1 AR 850+ Ultrasonic Thickness Gauge



The Smart Sensor AR 850+ Digital Ultrasonic Thickness Gauge is an economical, user-friendly, menu driven, and multi-functional unit offering extensive features from basic measurements to extended memory. This dynamic series of UT gauges is designed to measure the thickness of metallic and non-metallic materials such as steel, aluminum, titanium, plastics, ceramics, glass and any other good ultrasonic wave conductor as long as it has parallel top and bottom surfaces. The AR 850+ gauges will accurately display readings in millimeters after a simple calibration to a known Thickness or sound velocity.

4.1.1 Features

- Main Unit
- Transducer 5 MHz / 2.5 MHz
- Integrated steel calibration plate 4.0mm
- Batteries (2 x AAA)
- Ultrasonic Couplant
- Operation Manual
- Certificate
- Carrying Case
- One Year Warranty

4.1.2 Technical Specification

Display Type	4-digit LCD
Display Resolution	(<100 mm) 0.1 mm
Units	Metric
Measuring Range (steel)	1.2 to 220.0 mm
Sound Velocity Range	1000 to 9999 m/s
Operating Temperature	0 ° C +45° C
Frequency	5 MHz
Power Source	3 X 1.5V AAA batteries
Dimensions	70x145.5x28 mm

4.2 Compact DC Inspector Porosity Detector



Porosity detection of Tanks, Valves, Pumps, Pipeline field joints, and general inspection and maintenance. Suitable for a broad range of testing and inspection requirements. It is recommended that the integral probe be limited to a 125mm flat brush or fan brush.

4.2.1 Standards

ASTM G62-87(1998), ASTM D4787-93(1999), NACE RP0274-98, NACE RP0490-2001, NACE RPO188- 99, JIS G-3491, JIS G-3492, ANSI/AWWA C214-89, ANSI/AWWA C213-94 and ISO 2746:1998

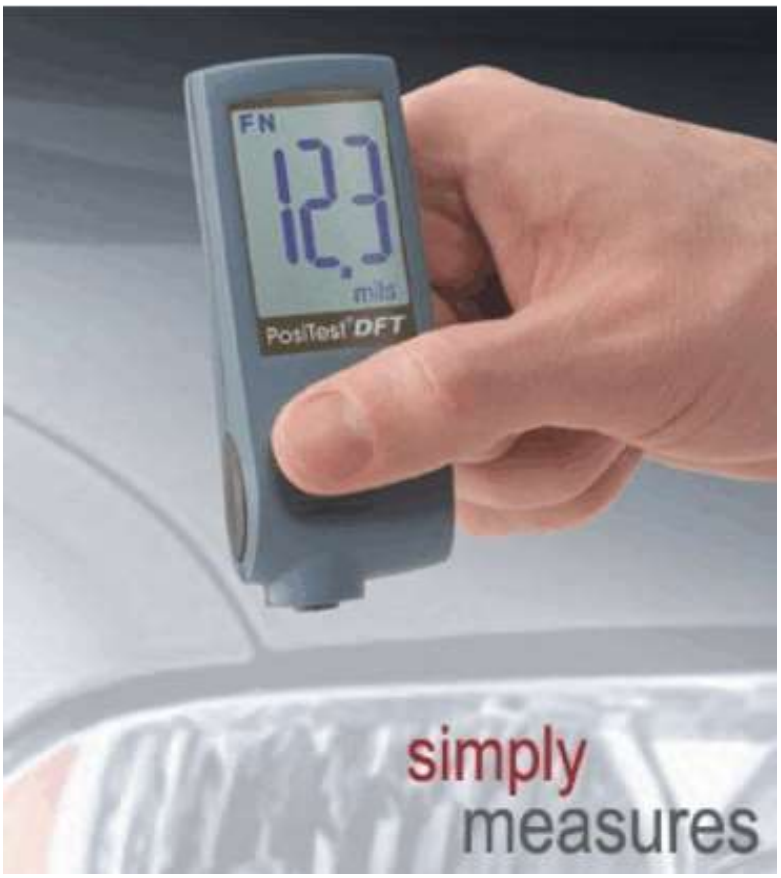
4.2.2 Features

- LED bar graph display of voltage
- "Single" hand-held, lightweight unit for simplicity and ease of operation
- Audible and visual alarms
- LED battery condition indicator
- Integral probe
- Detector
- 7m Earth lead and clamp
- Flat 125mm wide brass wire brush (or optional fan brush)
- Carry Case
- Operating instructions with conformance certificate
- Variable output up to 10kV or Variable output up to 20kV

4.2.3 Technical Specifications

Test Voltage	to 10kV (using 9V Battery)
Output Test Current	up to 100µA
Operating Temperature	-20 to +50ºC
Power Supply	Battery (9V internal)
Unit Dimensions	210 x 75 x 35mm (excl brush) 8.25" x 3.1" x 1.5"
Unit Weight	460g (incl probe)
Shipping Weight	1.5Kg

4.3 PosiTest DFT Coating Thickness Gauge



The new PosiTest DFT Coating Thickness Gauge measures coatings on ALL metals. It is the economical choice that retains the uncompromising quality of Qualitest inspection instruments.

Available in two models:

- PosiTest DFT Ferrous - measures non-magnetic coatings on steel.
- PosiTest DFT Combo - measures both non-magnetic coatings on steel and non-conductive coatings on aluminum, brass, etc. Automatically recognizes the substrate and takes a measurement.

4.3.1 Standards

ASTM B244/B499/B659/D1186/D1400/E376/G12, BS3900-C5, SSPC-PA2, ISO 2178/2360/2808, prEN ISO 19840, and others. Certificate of Calibration traceable to NIST available.

4.3.2 Features

- Fast, repeatable measurements
- No calibration required for most applications
- ZERO feature for rough or curved surfaces
- Handy RESET feature when no zero reference is available
- Strong, wear resistant, ruby-tipped probe
- Audible and visible measurement indication
- V-groove in probe for positioning on cylindrical parts
- Mils/Microns switchable
- Basic instructions on the back of each gauge

4.3.3 Technical Specifications

Measurement Range	0-40 mils (-1000 µm)
Accuracy	±(0.1 mils + 3%) (±(2µm + 3%))
Size	4 x 1.5 x 0.9 in (100 x38 x 23 mm)
Weight	2.5 oz (70 g)



5.0 HYDROPNEUMATIC PRESSURE TANK DESCRIPTION

The hydropneumatic pressure tank inspected and tested is described as follows:

Length: 29'-0" (33'-0" including elliptical heads)
Diameter: 7'-8" outside diameter
Volume: 10,000 gallons with elliptical heads
Tank Age: Unknown
Operating Pressure: 60 psi

6.0 TESTING

6.1 Porosity Testing

The tank surface was not swept with the Compact DC Inspector Porosity Detector during this inspection as no evidence of pin holes was observed throughout the surface of the tank.

6.2 Interior Coating Testing

No dry film thickness readings were taken within the tank interior as the coating had begun to fail over significant portions of the tank interior.

6.3 Ultrasonic Metal Thickness Testing

A total of 94 metal thickness readings were taken at various locations on the tank shell and head surface. The average shell reading was 6.086 millimeters in the cylindrical section and 6.565 millimeters in the elliptical heads. Typical industry standard minimum wall thickness for tanks of this size is 3/8" (9.53 mm).

7.0 VISUAL OBSERVATIONS

7.1 Tank Exterior

The exterior of the tank appeared to be in fair structural condition.

7.2 Tank Interior

The tank interior appeared to be in poor condition. there were significant areas where the coating had begun to fail and corrosion had formed on the interior tank surface.

8.0 DEFINITIONS

Design Pressure - The maximum design pressure determined from the metal thickness.

Maximum allowable working pressure (MAWP) – Maximum pressure that the pressure tank is capable of safely holding at a design maximum temperature (250ºF).

Operating Pressure - The normal maximum operating pressure of the pressure tank. The normal operating pressure must always be below the MAWP. As a rule of thumb the maximum operating pressure should always be less than the MAWP.

Metal Thickness – The thickness of the pressure tank wall (not including a corrosion allowance) to be used in the pressure calculations.

Design Safety Factor on Metal Tensile Strength – A pressure tank is normally designed with a safety factor of 3 to 4 on the metal tensile strength. All pressure tanks are designed to operate with wall stresses below the yield point of the metal used for fabrication.

9.0 TANK PRESSURE CALCULATIONS

The following formula is found in ASME Section I for determination of MAWP:

For tanks with circumferential stress on (longitudinal joints)

P = SEt/(R+0.6t)
= 60 MPa x 1.0 x 6.084 mm / (1161 mm+0.6 x 6.084 mm)
= 0.313 MPa
= 45 psi

When:

t < 0.5R = 0.5 x 1161 = 580.65 mm (true) or
P < 0.385SE = 0.385 x 60 x 1.0 = 23.1 MPa (true)

Where:

t = metal thickness (mm) where t = 6.084 mm
R = inside radius of shell course under consideration (mm) = 1,161 mm
E = joint efficiency for cylindrical or spherical shells = 1.0 for welded tanks and corresponds to a safety factor of 3.5 in the parent metal.
P = maximum allowable working pressure (MPa) where 1 MPa = 145 psi
S = maximum allowable stress value at the operating temperature of the metal = 60 MPa (Safety Factor of 4).

10.0 CONCLUSIONS

Inspection and testing of the Winding Waters subdivision 10,000-gallon hydropneumatic pressure tank was performed on December 13, 2018. In addition to a visual examination, non-destructive examinations were also made. Non-destructive examinations included ultrasonic measurement of the tank wall thickness and visual inspection for pinholes and leaks. No examination of Dry Film Thickness Measurement (DFTM) of the interior coating was performed as the coating had already failed.

Observations of the tank exterior indicated tank is subject to normal exposure. Observations of tank interior revealed light surface corrosion along the upper ridge portions of the tank interior.

11.0 RECOMMENDATIONS

Based on the condition of the tank noted during the field visit, ENVIRO-TECH, Inc. makes the following recommendations:

- The pressure relief valves should be tested regularly and maintained at 55 PSI or lower.

- The tank exterior should be pressure sprayed as needed to remove any lichens during the next five years.

- The tank interior should be cleaned and reinspected prior to the next 5 year inspection event, and if necessary, sand blasted per SSPC-SP10 and re-coated with a minimum of 5 mils DFT with TNEMEC Pota-Pox Series L140, Series N140 or equal epoxy to prevent further corrosion. After the cleaning and re-coating are complete, the tank should be re-inspected.

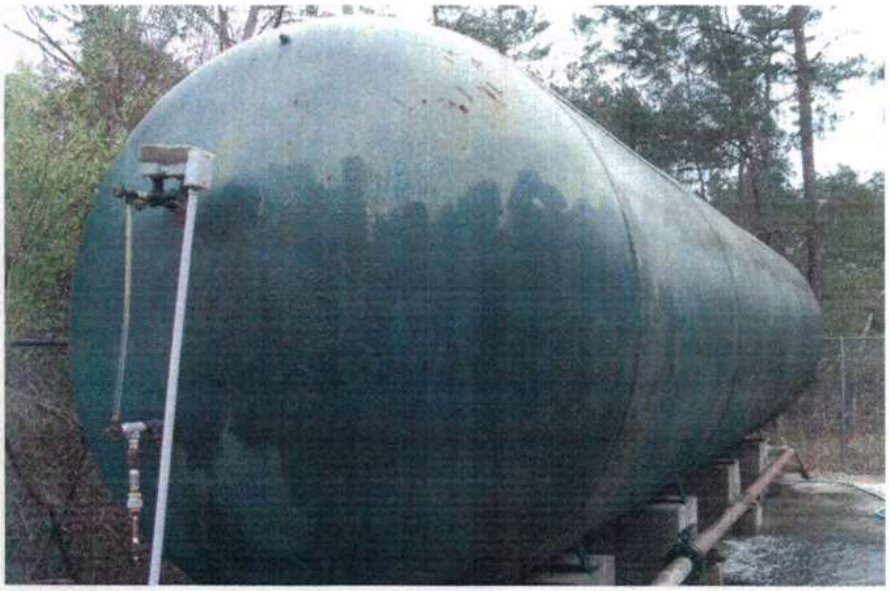
Tank observations and calculations indicate the structural integrity of the hydropneumatic pressure tank should function provided the maximum working pressure does not exceed 45 psi until the next 5 year inspection cycle, provided the recommended actions are taken.

Signed: Robert M. Couch III Date: 1/27/2019

Robert M. Couch III, P.E. Registration No. 55311

Typical exterior and interior views of tank







APPENDIX C: EMERGENCY RESPONSE PLAN

Disaster-Specific Preparedness/Response Plan

for Public Drinking Water Systems

Per Chapter 62-555.350 (15) F.A.C.

Sunshine Utilities
WINDING WATERS

Address:	10230 East Hwy. 25 Belleview, FL 34420
Phone:	352-347-8228
Fax:	352-347-6915
Contact:	Dewaine Christmas, Manager
E-mail:	SunshineUtl@AOL.COM
Connections:	206
PWS:	3424691
County:	Marion

May 17, 2013

Department of Environmental Protection
Michael D. LeRoy, P.E.
John R. Sowerby, P.E.

FRWA Security Staff
Sterling L. Carroll, P.E.
Ken Klos, P.E.
Coy Donaldson

For more information or additional copies of this document contact:

FLORIDA RURAL WATER ASSOCIATION
2970 Wellington Circle ~ Suite 101 ~ Tallahassee
Telephone: 850-668-2746 ~ Fax: 850-893-4581
e-mail: FRWA@frwa.net

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This template and guide has been developed by the Florida Rural Water Association (FRWA) in collaboration with the Washington State Department of Health, Office of Drinking Water, Olympia, Washington; and reviewed by Florida Department of Environmental Protection.

Acknowledgment of federal government support of this project:

This project and the preparation of this booklet was funded in part by a Water Protection Coordination grant from the Environmental Protection Agency through an agreement/contract with the Drinking Water Program of the Department of Environmental Protection. Total cost of the project was $3,000 of which $3,000 or 100 percent, was provided by the U.S. Environmental Protection Agency.

Preface
Chapter 62-555.350 (15) FAC

Disaster-Specific Preparedness/Response Plans

(15) Suppliers of water who own or operate a community water system serving, or designed to serve, 350 or more persons or 150 or more service connections shall develop a written emergency preparedness/response plan in accordance with Emergency Planning for Water Utilities, AWWA Manual M19, as adopted in Rule 62-555.335, F.A.C., by no later than December 31, 2004, and shall update and implement the plan as necessary thereafter. Said suppliers of water shall coordinate with their Local Emergency Planning Committee and their Florida Department of Law Enforcement Regional Security Task Force when developing their emergency plan and shall include in their plan all of the information in paragraphs (a) through (e) below.

(a) A Communication Charts as described in Chapter 5 of AWWA Manual M19.

(b) Written agreements with other agencies, utilities, or response organizations.

(c) A disaster-specific preparedness/response plan as described in Chapter 5 of AWWA Manual M19 for each of the following disasters: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release. Each disaster-specific preparedness/response plan shall incorporate the results of a vulnerability assessment; shall include actions and procedures, and identify equipment, that can obviate or lessen the impact of such a disaster; and shall include plans and procedures that can be implemented, and identify equipment that can be utilized, in the event of such a disaster.

(d) Details about how the water system meets the standby power requirements under subsection 62-555.320(14), F.A.C., and, if applicable, recommendations regarding the amount of fuel to maintain on site, and the amount of fuel to hold in reserve under contracts with fuel suppliers, for operation of auxiliary power sources.

(e) If applicable, recommendations regarding the amount of drinking water treatment chemicals, including chemicals used for regeneration of ion-exchange resins or for onsite generation of disinfectants, to maintain in inventory at treatment plants.

Specific Authority 403.861(9) FS. Law Implemented 403.852(12), 403.853(6), 403.861(17) FS. History-New 11-19-87, Formerly 17-22.650, Amended 1-18-89, 1-1-93, Formerly 17-555.350, Amended 8-28-03.

Time Extension for Submitting/Completing ERP – December 31, 2005

From: Hoofnagle, Van
Sent: Thursday, October 21, 2004 11:25 AM
Subject: Time Extension for Submitting/Completing ERP
Importance: High

I am sending this e-mail because of possible confusion in some FDEP District Offices or ACHDs regarding the deadline for compliance with the emergency preparedness/response plan requirements in FAC subsection 62-555.350(15).

As John Sowerby and other staff mentioned during Focus On Change presentations early this year on FAC Rule 62-555.350 and during training this summer on the recent amendments to FAC Chapter 62-555, the FDEP intends to amend FAC subsection 62-555.350(15) to give all affected community water systems (i.e., all community water systems serving 350 or more persons or 150 or more service connections) **until the end of 2005** instead of the end of this year to complete a comprehensive emergency preparedness / response plan as required by FAC subsection 62-555.350(15). At this point, it will likely be after the end of this year before we officially make this change to FAC subsection 62-555.350(15). In the meantime, please do not take any enforcement action against

community water systems who fail to meet the 12/31/04 deadline in FAC subsection 62-555.350(15). Thanks.

Van Hoofnagle
DEP Drinking Water Administrator

Section 1
Communication Charts

The first response step in any emergency is to inform the person at the top of this list, who is responsible for managing the emergency and making key decisions. List the water system chain of command in order of contact.

Water System Chain of Command – Lines of Authority

Order	Name & Title	Responsibilities During an Emergency	Contact Information
1	Dewaine Christmas Manager	Responsible for overall management and decision making. The manager is the lead for managing the emergency and providing information to regulatory agencies. All communications to external parties are to be approved by the manager.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl@AOL.Com
2	James Hodges Jr. Field Supervisor	Responsible for decision making in the field. In charge of overall maintenance, and repairs to all components of water system.	Phone: 352-347-8228 Cell: 352-239-1198 Email: SunshineUtl @AOL.Com
3	Kelvin Edun Water Treatment Plant Operator	Responsible for running water treatment plant, performing inspections, maintenance, sampling and relaying all critical information to Field Supervisor.	Phone: Cell: 352-875-5141 Email:
4	Pamela Christmas Office	Responsible for assisting the manager in administrative duties and emergencies.	Phone: 352-347-8228 Cell: 352-245-4743 Email:
5			Phone: Cell: Email:
6			Phone: Cell: Email:
7			Phone: Cell: Email:

Emergency Notification

Notification call-up lists - Use these lists to notify important parties of an emergency.

Emergency Notification List

Organization or Department	Name & Position	Telephone	Cell Phone	e-mail
State Warning Point	**Duty Officer**	**800-320-0519**	800-320-0519	N/A
Local Law Enforcement	EOC Commander	352-622-3205		Pstefanski@sheriff.marioncountyfl.org
Fire Department		911		
Emergency Medical Services		911		
Water Operator (if contractor)	Kelvin Edun Operator	352-875-5141		
County Health Department	Tom Moore Director of Environmental Health	352-622-7744	352-266-7486	
DEP District Office	Manny Cardona	407-897-4134	Fax 407-893-4418	
County Emergency Management Dept.	Chip Wildy	352-622-3205		
Local Leader (City Mgr., Mayor, Chair. Co. Comm., etc.)				
Local Hazmat Team (if any)		911		
Hazmat Hotline		911		
National Spill Response Center.	Duty Officer	800-424-8802	800-424-8802	N/A
Interconnected Water System(s)				
Neighboring Water System (not connected)				
FRWA Water Circuit Rider	Tom Gustafson	850-668-2746	352-267-1302	

Priority Customers

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Hospital Or Clinic(s)				
Nursing Home(s)				
Public Schools				
Private Schools				
Wastewater Treatment Plant				
Food Processing Or Other Industry				

Service / Repair Notifications

Organization Or Department	Name & Position	Telephone	Cell Phone	email
Electric Utility Co.	Clay Electric	352-473-8000		
Electrician	Melville Electric	352-245-0600		
Gas / Propane Supplier	Belleview Gas	352-245-6055		
Water Testing Lab.	Aqua Pure Lisa Saupp	352-625-2822		
Sewer Utility Co.				
Telephone Co.	Sprint	800-788-3600	611	
Plumber	ACP	352-427-7036		
Pump Supplier	Coast Pump	352-620-0616	352-266-4277	Coastpumpocal@hotmail.com
"Dig Safe" or "One Call"	Sunshine One Call	800-432-4770		
Rental Equip. Supplier	B&M Rental	352-245-3133	352-245-9800	

Service / Repair Notifications				
Organization Or Department	**Name & Position**	**Telephone**	**Cell Phone**	**email**
Chlorine Supplier	Custom Controls	352-622-9244	352-304-0572	
Other Chemical Suppliers				
Radio/SCADA Repair Co.				
Bottled Water Service				
Bulk Water Supplier				
Well Drilling Co.	Earls Well Drilling David Moffitt	352-245-2324	352-817-0502	
Pipe Supplier	National Water Works Roy Sands	352-351-8144	352-266-4705	

Designated Public Spokesperson and Alternates

Designate a spokesperson (alternates) for delivering messages to the news media & public

Public Spokesperson	Name & Position	Telephone	Cell Phone
Spokesperson	Dewaine Christmas Manager	352-347-8228	352-239-1198
Alternate 1	James Hodges Jr. Supervisor	352-347-8228	352-239-1197
Alternate 2			

Key Messages

Develop possible messages in advance, and update them as the emergency develops
▪ We are aware of the emergency and are working diligently to restore your water service.
▪ If you fall under a boil water notice you must bring water to a rolling boil for a period of at least one minute. You only have to boil water for human cunsumption.

▪

Health Advisories – Boil Water Notices

Use the assistance of your County Health Department and/or District FDEP office, and FDEP's Mandatory Health Effects Language, located on FDEP's website at:

http://www.doh.state.fl.us/environment/water/manual/boil.htm

http://www.DEP.state.fl.us/water/drinkingwater/rules.htm,

and click on "Mandatory Health Effects Language"., PLUS EPA's templates at:

http://epa.gov/safewater/pn.html

Click on "Microsoft Word and Word Perfect files of PN templates" (PN means Public Notifications), then determine which "Tier" of notifications is needed and click on the desired software to receive them in.

Section 2
Written Agreements With Other Agencies, Utilities, or Response Organizations

INSERT BELOW information regarding any written agreements with other agencies, utilities, or response organizations, such as emergency interconnects, mutual aid or FlaWARN.

Emergency Interconnect(s)

Information on the location of interconnection(s) (if any), type and size of interconnecting pipe, pumps and accessory equipment, meters at interconnection(s), normal pressures at both ends of interconnection, volume of water from interconnection(s), type of agreement and approvals needed for use, procedures necessary to use interconnection, etc.

Location (Street)	
Location (GPS)	
Description	

Memoranda of Understanding

Organization	
Summary of Understanding	

Mutual Aid Agreements

Organization	Marion Utilities, 352-622-1171
Summary of Understanding	Will render mutual aide – ie: pumps, generators, and other materials necessary to restore water service.

FlaWARN

Organization	
Summary of Understanding	

Section 3
Disaster-Specific Preparedness/Response Plan

Your disaster-specific preparedness/response plan must include a Vulnerability Assessment and preparedness / response plans for: vandalism or sabotage; a drought; a hurricane; a structure fire; and if applicable, a flood, a forest or brush fire, and a hazardous material release.

In any event there are a series of general steps to take:

1. Confirm and analyze the type and severity of the emergency.
2. Take immediate actions to save lives.
3. Take action to reduce injuries and system damage.
4. Make repairs based on priority demand.
5. Return the system to normal operation.

Vulnerability Assessment

It is essential that water systems identify and assess the vulnerability of each system component for both natural and human-caused emergencies, before preparing their disaster-specific preparedness/response plans. Prepare your Vulnerability Assessment by completing the table below:

Facility Vulnerability Assessment

System component	Description and condition	Vulnerability	Security improvements (indicate existing or proposed)
Raw Water Sources	(2) 8" groundwater wells located several hundred feet from homes. Wells are in good condition. We have wellhead protection in place.	The wells are most vulnerable to above ground activities because they are only 225 and 247 FT deep.	1.Purchase land surrounding well. 2. Secure well house to foundation and install lighting around well house.
Pump-house and pumping facilities	The pump-house and pumping facility are in good condition.	Pump location is fully fenced with a locked gate.	Install tamper proof padlocks.
Treatment Facilities	There is a hypo-chlorination system inside of pump house. System is in good condition.	Chlorination systems are not subject to power outages.	There is a backup generator on site in compliance with CH. 62-555.320(14)FAC
Storage Facilities	Hydro pneumatic tank is fenced in good condition.	Tank is not in a lighted area.	Install lighting in area of tank.
Computer and telemetry systems	Computers are in utilities main office and are in good condition.	Computers should be better protected against cyber attack or hacking.	Secure computers with firewalls & virus protection.

A. Vandalism or Sabotage Response Procedures

1. Utility staff first aware of incident:
    a) Calls 9-1-1/ Local Law Enforcement.
    b) Calls Manager
2. Manager determines severity of incident.
    a) Field supervisor determines if vandalism or sabotage will effect the water quality.
    b) Manager reports incident to the state warning point.
3. Field supervisor directs repairs as needed.
    a) Complete repairs
    b) Update ERP as needed.

B. Drought Response Procedures

Include water use restrictions per Consumptive Use Permit

1. Manager coordinates with the local Water Management District (WMD) regarding drought conditions.
    a) If drought conditions exist, a water conservation plan will be initiated.
    b) Literature will be distributed to customers regarding the drought.
    c) Conservation material will be distributed to customers on conservation measures.
    d) Customers not abiding by restrictions will be reported to WMD.
    e) Manager updates ERP as needed.

C. Hurricane Preparedness & Response Procedures

Pre- Hurricane **(36 to 48 hrs prior to arrival)**	1. Manager coordinates with local EOC. 2. Field supervisor checks operation of standby power. 3. Field supervisor secures fuel and treatment chemicals for a 10 day period. 4. Manager replenishes inventory of spare parts.
Hurricane Watch **(24 to 36 hrs prior to arrival)**	1. Manager cancels all time off for employees. 2. Manager issues work assignments in advance in case of communication loss. 3. Employees all top off fuel in vehicles & standby generators. 4. Manager authorizes employees to secure their personal property and arrange for the safety of family members.
Hurricane Warning (24hrs or less prior to arrival)	1. Employees report to designated areas and wait for instructions. 2. Employees load truck with supplies. 3. Employees follow evacuation protocol.
Recovery Procedures	1. Manager coordinates with local EOC. 2. Manager issues boil water notices if needed. 3. Field supervisor coordinates repairs. 4. Manager makes contact with the appropriate DEP office. 5. After repairs are completed samples are taken. 6. When samples come back clear – boil water notice is lifted. 7. Manager files all malfunction reports with the DEP. 8. Field supervisor inspects all systems to make sure everything is running smooth.

D. Structure Fire Response Procedures

1. Utility staff discovering fire:
    a) Evacuate structure on fire.
    b) Call 9-1-1
2. Manager determines severity of incident.
    a) Manager contact State Warning Point.
    b) Field supervisor coordinates repairs when fire is extinguished.
3. Field supervisor reports to manager when repairs are complete.
    a) Manager reports completion of all repairs to any Gov. agency.
    b) Manager updates ERP as needed.

E. Flood Preparedness & Response Procedures

(Is any critical part of your system in a flood prone area?)

None of our systems are in a flood prone area.

F. Forest or Brush Fire Response Procedures

(Is any critical part of your system subject to forest or brush fires?)

1. Utility staff discovering fire.
    a) Orders evacuation of any threatened buildings.
    b) Calls 9-1-1 to report fire.
2. Manager determines the severity of fire.
    a) Manager contacts the State Warning Point.
    b) Field supervisor inspects for any damage and coordinates repairs after fire is extinguished.
3. Field supervisor reports to manager that all repairs are complete.
    a) Manager updates the ERP as needed.
    b)

G. Hazardous Material Release Response Procedures

Do you have any hazardous material (chlorine gas) at your water system?

We have no Hazardous materials at any of our water systems.

H. Other Disaster Response Procedures

Are there other disasters that you want to prepare for, such as a Contamination event, SCADA Attack, or Structural Damage from an Intentional Act?

Contamination

1.
   a)
   b)
2.
   a)
   b)

SCADA Attack

1.
   a)
   b)
2.
   a)
   b)

Structural Damage from an Intentional Act

1.
   a)
   b)
2.
   a)
   b)

Section 4
Standby Power Requirements

Include details about how the water system meets the standby power requirements as described in Ch. 62-555.320(14), and 62-555.350(15)(d) FAC for water source, treatment, and pumping facilities necessary to deliver drinking water at a rate at least equal to the Average Daily Water Demand.

Standby Power for Wells or Surface Water Intakes

Standby Power (or by alternate means) to OPERATE WELLS at Average Daily Demand

Average Daily Demand (ADD) in gpd or gpm	47000 gpd
Wells Needed to Supply Average Daily Demand	1
Standby Generator (kW) Needed for ADD &	45 KW
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	We will have reserve fuel in the case of an emergency.

Standby Power for Treatment Facilities

Standby Power (or by alternate means) to TREAT WATER at Average Daily Demand

Treatment Units Needed to Supply ADD	
Standby Generator (kW) Needed to Treat ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Standby Power for Pumps

Standby Power (or by alternate means) to PUMP WATER at Average Daily Demand

Pumps Needed to Supply ADD	
Standby Generator (kW) Needed to Pump ADD	
Power Failure Transfer, Alarms & Notifications	
Generator Fuel Consumption	gallons per hour
Recommended On-Site Fuel Storage (gallons)	
Reserve Fuel by Supplier Contract	

Section 5
Drinking Water Treatment Chemicals & Disinfectants

Include recommendations regarding the amount of drinking water treatment chemicals, to maintain in inventory at treatment plants. Do not just list chemical storage capacity, but instead recommend the minimum amount of chemicals to maintain in inventory, which depends upon the location and reliability of chemical suppliers, the status of impending disasters, etc.

Disinfection Treatment Information

Disinfection Chemical(s)	Chemical / Location No. 1	Chemical / Location No. 2
Type of Chemical	Chlorine	
Type of Chemical Feed	Hypo-Chlorinator	
Chemical Storage Location	On site in the pump house.	
Recommended Minimum Amount to be Maintained in Storage (gal)	55 gallons	

Other Chemical Information

Chemical(s) Used	Chemical #1	Chemical #2	Chemical #3	Chemical #4
Type of Chemical				
Type of Chemical Feed				
System Location				
Chemical Storage Location				
Recommended Minimum Amount to be Maintained in Storage (gal)				

Appendix A
Basic System information

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Keep this basic information readily available for when you need it for emergency responders, repair people, the news media and potentially, an emergency operator.

Basic System Information

GPS coordinates will help emergency crews find your system following a major catastrophe.

System identification number (PWS ID)	**3424691**	
System name and address	**Winding Waters**	
GPS Coordinates	Latitude:	Longitude:
Basic description and location of system facilities	**5855 SE 183rd Ave Rd**	
Population served and service connections.	Population =	Connections = 206
System Owner	**Sunshine Utilities of Central Florida, Inc.**	
Management Authority	**Owner and Manager**	
Name, title, and phone numbers of person responsible for maintaining and implementing the ERP.	**Dewaine Christmas** **Manager**	**352-347-8228 phone** **352-239-1198 cell**

System Demand

Demand based on Monthly Operational Records and system capacity based on Sanitary Survey.

Average Daily Demand (gpd)	47000 GPD
Maximum Daily Demand (gpd)	56000 GPD
System Capacity (gpd)	240,000 GPD
Peak Hour Demand (gpm)	N/A

Location of Pertinent Information

Item	Location
Distribution System Map	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
O&M Manual(s)	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.
Start-Up / Shut-Down Procedures	Utilities main office, 10230 E Hwy 25, Belleview, FL 34420.

Well Information

GPS coordinates will help emergency crews find wells following a major catastrophe.

Well Information	Well No. 1	Well No. 2	Well No. 3	Well No. 4
GPS well tag #				
Location (street)	5855 SE 183rd Ave Rd	5855 SE 183rd Ave Rd		
GPS Coordinates	Lat: Long:		Lat: Long:	Lat: Long:
Well Depth (ft)	225 FT	247 FT		
Well Yield (gpd)	489600 GPD	748800 GPD		
Pump Type	Submersible	Submersible		
Manufacturer	Sta-Rite	Sta-Rite		
Capacity (gpm)	340 GPM	520 GPM		
Motor Manufacturer	Franklin	Franklin		
Horsepower	20 HP	30		
Phase	3	3		
Volts/Amps	230 volts	230 Volts		

Surface Water Sources

GPS coordinates will help emergency crews find surface water intakes following a major catastrophe.

Surface Water Information	Intake No. 1	Intake No. 2
Location (Street / Description)		
GPS Coordinates	Lat: Long:	Lat: Long:
Critical Water Level		

Finished Water Storage

GPS coordinates will help emergency crews find tanks following a major catastrophe.

Name of Storage Unit	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Location (Street)				
Location (GPS)	Lat: Long:	Lat: Long:	Lat: Long:	Lat: Long:
Type (ground, elevated, etc.)				
Capacity (gal)				
Empty Elevation				
Overflow Elevation				

High Service Pumps

HSP	HSP No. 1	HSP No. 2	HSP No. 3	HSP No. 4
Location (street)				
Pump Type				
Manufacturer				
Capacity (gpm)				
Motor Manufacturer				
Horsepower				
Phase				
Volts/Amps				

Other Applicable Information

Appendix B
Training and Rehearsals

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Event	Description	People & Organizations Involved	Date

Appendix C
Plan Approval

This information is useful and recommended for inclusion in your ERP, it is not required by DEP in Chapter 62-555.350(15).

Plan Approval

This plan is officially in effect when reviewed, approved, and signed by the following people:

Name / Title	Signature	Date
Hodges Family Trust		

APPENDIX D: CONSUMER CONFIDENCE REPORT

Certification of Delivery of Consumer Confidence Report

GENERAL INSTRUCTIONS: This form shall be completed by all community water systems (CWSs) that have prepared a Consumer Confidence Report (CCR) in accordance with Rule 62-550.824, F.A.C., Consumer Confidence Reports. At the end of this form is a certification in which a system's authorized representative shall certify that the reported information is accurate and is in conformance with Rule 62-550.824, F.A.C. **COMPLETE THIS FORM AND SUBMIT IT BY AUGUST 10,** together with a copy of your system's CCR, sample email or water bill (with URL notification of CCR, if applicable), and any newspaper notice(s) and posted notice(s) of your CCR, to the appropriate DEP district office or Approved County Health Department (ACHD). Systems serving 100,000 or more persons posting their CCRs on publicly accessible Internet sites shall provide the information on the appropriate Internet link(s). All information provided on this form must be typed or printed in ink.

I. General Water System Information. (To be completed by all community water systems.)

System name: Winding Waters Contact person: Dewaine Christmas

PWS Identification number (PWS ID): 3424691 Contact phone number: (352)347-8228

Mailing address: 10220 East Hwy 25 City: Belleview

State: Fl Zip: 34420-5531 Population served (not the number of "service connections"): _____

II. CCR Distribution Method. (To be completed by all community water systems. Choose A or B as appropriate.)

☐ A. We mailed, emailed, or otherwise directly delivered a copy of our CCR to each customer on _____ (enter date(s) of mailing or delivery) using the method(s) checked below:

- ☐ a. **Mailed** CCR
- ☐ b. **Mailed** notice (e.g. water bill) with **direct URL** to the CCR
- ☐ c. **Emailed** CCR as an **embedded** image or as an **attachment**
- ☐ d. **Emailed** notice with a **direct URL** to the CCR
- ☐ e. **Otherwise directly delivered** CCR to every customer. Explain: _____

☑ B. We were eligible to use a mailing waiver and used a mailing waiver. (Systems are eligible to use a mailing waiver only if they serve fewer than 10,000 persons, have not had any MCL or monitoring and reporting (M/R) violations, nor have been issued any formal Notices of Violations (NOVs), Consent Orders, Administrative Orders, or court-ordered civil actions during the calendar year before the year the CCR is due to the customers).

Answer a, b, **and** c below.)

- ☐ a. Date of newspaper: _____
- ☐ b. Name of newspaper/newsletter that published our CCR: _____
- ☑ c. A copy of our notice to customers, informing them that our CCR will not be mailed to them, is attached.

This notice was: ☑ mailed with bill; ☐ published in newspaper/newsletter; or ☐ other (describe)

_____

III. Posting of CCR on the Internet. (To be completed by all CWSs serving 100,000 or more persons.)

We posted our CCR on this publicly accessible internet site: _____

IV. Report on Your Effort to Distribute Your CCR to Your Water Consumers.

(To be completed by all CWSs. Check all items that apply - at least one item must be checked.)

In addition to the methods selected in Part II,

■ A. We posted our CCR on this publicly accessible internet site: www.sunshineutilities.org

☐ B. We published our CCR in the local newspaper(s). The name(s) and date(s) of the newspaper(s) are:

_____

RECEIVED
JUL 10 2020
DEP Central District

☐ C. We advertised the availability of our CCR as a press release, radio announcement, or TV announcement. The type(s) and date(s) of the advertisement(s) are: _____

☐ D. We delivered multiple copies of our CCR to single bill addresses serving several persons.

☐ E. We delivered multiple copies of our CCR to the following community organizations:

_____

☐ F. Our CCR was posted in the following public locations: _____

_____

☒ G. Our CCR was distributed by other methods (e.g., additional copies placed in entrance hall to facility). Describe.
Additional copies available at Sunshine Utilities Office

V. Use of Non-English Language in CCR. (To be completed by all community water systems.)

☐ Information in a non-English language was included in our CCR because 20% or more of our customers do not speak English but speak _____. The method we used to determine the proportion of non-English speaking customers is _____

☒ This requirement does not apply to our system, because we have no non-English speaking group among our customers equal to or exceeding 20% of our total number of customers.

VI. Other Delivery Requirements. (To be completed by all community water systems.)

(A) Was a copy of your CCR sent to your county health department, as required by rule? ☒ Yes ☐ No

(B) Is your system regulated by the Public Service Commission (PSC)? ☐ Yes ☐ No

If Yes, was a copy of your CCR sent to the PSC, as required by rule? ☒ Yes ☐ No

(C) If your system sells water to other systems, have you provided them with either a copy of your CCR or the required consumer confidence information? ☒ Yes ☐ No ☒ Not Applicable

VII. Certification of Delivery of CCR and Compliance with Regulations. (To be completed by all CWSs.)

This statement certifies that the above named community public water system has distributed its CCR for the time period starting ***January 1, 2019, and ending December 31, 2019,*** to its customers on 6/15/20 (mm/dd/yy) and provided the appropriate notices of availability according to the requirements listed in this form, which are also found in Rule 62-550.824, F.A.C. This statement also certifies that the reported information is correct and consistent with the compliance monitoring data for the same period previously submitted to the Department, and that the report has been delivered to the agencies identified in Rules 62-550.824(3)(e)3., and 4., F.A.C.

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____

NAME (please print): Dewaine Christmas

TITLE: Manager DATE: 6/26/20

☒ **A copy of our CCR is attached, and**

☐ **If using electronic delivery, a copy of our sample email or notice (e.g. water bill), with URL leading directly to the CCR and not a general information website, is attached. For example, if you are using the FRWA website to post your CCR, your URL would be:**

www.frwa.net/2012-Your PWSID Number.pdf (www.frwa.net/2012-0000000.pdf).

SUNSHINE UTILITIES
10230 East Highway 25
Belleview, Florida 34420

Drinking Water Quality Report

Annual Drinking Water Quality Report for 2019

Winding Waters

Florida Department of Environmental Protection Public Water System ID # 3424691

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water.

The source of our water is groundwater from two wells located in the community. The well(s) draw from the Floridan aquifer, one of the world's most protected sources. Our water is chlorinated for disinfection purposes. In 2019 the Florida Department of Environmental Protection conducted an assessment which identifies potential sources of contamination in the vicinity of our well(s). The SWAPP (Source Water Assessment and Protection Program) determined our public water system to have "No Potential Sources of Contamination". You may obtain more information at the web site *www.dep.state.fl.us/swapp.*

Winding Waters water system also serves the following communities; Lake Bryant Ridge and Lake Bryant Estates. If you have any questions about this report or concerning your water utility please contact **Dewaine Christmas, at Sunshine Utilities, (352) 347-8228**, during normal business hours. We encourage our valued customers to be informed about their water utility.

Sunshine Utilities routinely monitors for constituents in your drinking water according to Federal and State laws, rules and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2019. Data obtained before January 1, 2019, and presented in this report are from the most recent testing performed in accordance with the laws, rules and regulations.

WINDING WATERS

Radioactive Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Radium 226 + 228	(pCi/L)	APR'15	No	1.5	N/A	0	50	Erosion of natural deposits

Inorganic Contaminants

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL Violation Yes / No	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Arsenic	(ppb)	MAY '18	No	3	N/A	N/A	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	(ppm)	MAY '18	No	0.015	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride	(ppm)	MAY '18	No	0.18	N/A	4	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum levels between 0.7 and 1.2 ppm
Sodium	(ppm)	MAY '18	No	7.1	N/A	N/A	160	Salt water intrusion; leaching from soil
Thallium	(ppb)	MAY '18	No	0.1	N/A	0.5	2	Leaching from ore-producing sites; discharge from electronics, glass, and drug factories

Stage 2 Disinfectants and Disinfection By-Products

Disinfectant or Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	MCL or MRDL Violation Yes / No	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine	(ppm)	2019	No	1.4	0.5 - 2.2	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Haloacetic Acids (five) (HAA_5)	(ppb)	SEP '19	No	0.91	N/A	N/A	MCL = 60	By-product of drinking water disinfection
Total Trihalomethane(TTHM)	(ppb)	SEP '19	No	0.56	N/A	N/A	MCL=80	By-product of drinking water disinfection

Lead and Copper (Tap Water)

Contaminant and Unit of Measurement		Dates of Sampling (mo./yr.)	AL Violation Yes / No	90th Percentile Result	No. of Sampling Sites Exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper	(ppm)	AUG '18	No	0.028	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead	(ppb)	AUG '18	No	1.8	0	0	15	Corrosion of household plumbing systems; erosion of natural deposits

In the table you may find unfamiliar terms and abbreviations. To help you better understand these terms we have provided the following definitions (please note not all definitions may pertain to your report):

- Action Level (AL) – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial growth.
- Maximum Residual Disinfectant Level Goal (MRDLG) – The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.
- ND – This abbreviation means not detected and indicates that the substance was not found by laboratory analysis.
- Parts per million (ppm) or milligrams per Liter (mg/L) - one part of analyte (by weight) to 1 million parts of water sample (by weight).
- Parts per billion (ppb) or micrograms per Liter (µg/L) - one part of analyte (by weight) to 1 billion parts of water sample (by weight).
- Picocurie per liter (pCi/L) - measure of the radioactivity in water.

What does this mean?

As you can see our system had no violations. We're very proud that your drinking water meets all Federal and State requirements.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Sunshine Utilities is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals, and in some cases radioactive material, and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

A.) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

B.) Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

C.) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

D.) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

E.) Radioactive contaminants, which may be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The FDA (Food & Drug Administration) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care providers about their drinking water. EPA/CDC (Center for Disease Control) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are also available from the Safe Drinking Water Hotline (800-426-4791).

We are committed to ensuring the quality of your water. If you have any questions or concerns about the information provided, please feel free to call the numbers listed.

Sunshine Utilities

10230 East Highway 25, Belleview, FL 34420
Office (352)347-8228 – Fax (352)347-6915

We're pleased to provide you with this year's Annual Water Quality Report. The report is designed to inform you about the quality of water and services we deliver to you everyday. Our constant goal is to provide you with a dependable supply of quality drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We are pleased to report that our drinking water meets all federal and state requirements.

Please follow the link to view your 2019 Annual Water Quality Report.

https://www.sunshineutilities.org/ccr19/2019WindingWaters.pdf

APPENDIX E: SANITARY SURVEY REPORT

FLORIDA DEPARTMENT OF
Environmental Protection

CENTRAL DISTRICT OFFICE
3319 MAGUIRE BLVD., SUITE 232
ORLANDO, FLORIDA 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

April 2, 2020

Dewaine Christmas, Owner
Sunshine Utilities of Central Florida Inc.
10230 E. Highway 25
Belleview, FL 34420
sunshineutl@aol.com

Re: Winding Waters
PW Facility ID #3424691
Marion County

Dear Mr. Christmas:

Department personnel conducted an inspection of the above-referenced facility on March 13, 2020. Based on the information provided during and following the inspection, the facility was determined to be in compliance with the Department's rules and regulations. A copy of the inspection report is attached for your records, and any non-compliance items which may have been identified at the time of the inspection have been corrected.

The Department appreciates your efforts to maintain this facility in compliance with state and federal rules. Should you have any questions or comments, please contact Amada Fernandez at 407-897-4159 or via e-mail at Amada.M.Fernandez@FloridaDEP.gov.

Sincerely,

Jill Farris, Manager
Central District
Florida Department of Environmental Protection

Enclosure: Inspection Report

cc: Amada Fernandez and Jill Farris, FDEP
Universal Waters, universalwaters94@yahoo.com

State of Florida
Department of Environmental Protection
Central District

SANITARY SURVEY REPORT

Plant Name **WINDING WATERS** County Marion PWS ID # **3424691**
Plant Location SE 58 Pl & SE 183 Ave Ocklawaha, FL 34471 Phone 352-347-8228
Owner Name Sunshine Utilities of Central FL Inc.; Attn: Dewaine Christmas Phone 352-347-8228
Owner Address 10230 SE Hwy 25 Belleview, FL 34420
Contact Person Dewaine Christmas Title Owner Phone 352-347-8228
This Survey Date 3/13/20 Last Survey Date 2/27/17 Last Compliance Inspection Date 2/7/13

PWS TYPE: Community

PLANT CATEGORY & CLASS: 5D

MAX-DAY DESIGN CAPACITY: 240,000 gpd

PWS STATUS: Approved

TREATMENT PROCESSES IN USE
Hypochlorination

SERVICE AREA CHARACTERISTICS
Mobile home park
Food Service: ☐ Yes ☐ No ☒ N/A

Number of Service Connections 189
Population Served 473 Basis Operator

OPERATION & MAINTENANCE LOG: Yes
Location Water treatment plant
Comments

CERTIFIED OPERATOR: Yes
Operator(s) & Certification Class-Number:
Kelvin Edun C-7419

Hrs/day: *Required* Visit* *Actual* Visit*
Days/wk: *Required* 3 *Actual* 3
Non-consecutive Days? ☒ Yes ☐ No ☐ N/A
Comments *Visit must total 0.3 hr/wk.

MONTHLY OPERATION REPORTS (MORs)
MORs submitted regularly? ☒ Yes ☐ No ☐ N/A
Data missing from MORs? ☒ No ☐ Yes ☐ N/A
Average Day (from MORs) 59,718 gpd
Maximum Day (from MORs) 93,000 gpd 09/2019
Comments

Flow Measuring Device Flow Meter
Meter Size & Type 6" Master
Date Last Calibrated 3/18/20

RAW WATER SOURCE
☒ GROUND; Number of Wells 2
☐ PURCHASED from PWS ID #
☐ Emergency Water Source
Emergency Water Capacity

STANDBY POWER SOURCE: Yes
Source Propane generator
Capacity of Standby (kW) 50
Switchover: ☒ Automatic ☐ Manual
Hrs Operated Under Load 1 hr/wk.
What equipment does it operate?
☒ Well Pumps
☐ High Service Pumps
☒ Treatment Equipment
Satisfy avg. daily demand? ☒Yes ☐No ☐Unknown
Audio-visual alarm? ☐Yes ☒No
Comments

PLANS AND MAPS

Coliform Sampling Plan	☒ Yes	☐ No	☐ N/A
D/DBP Monitoring Plan	☒ Yes	☐ No	☐ N/A
Lead and Copper Plan	☒ Yes	☐ No	☐ N/A
Distribution System Map	☒ Yes	☐ No	☐ N/A
Emergency Response Plan	☒ Yes	☐ No	☐ N/A

Comments

PREVENTIVE MAINTENANCE/O&M

Operation & Maintenance Manual	☒ Yes	☐ No	
Preventive Maintenance Program	☒ Yes	☐ No	☐ N/A
Flushing Program	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A
Isolation Valve Exercise	☒ Yes	☐ No	☐ N/A
Records	☒ Yes	☐ No	☐ N/A

Comments

CROSS CONNECTION CONTROL
BFPAs None observed # Tested N/A
WWTP RPZ N/A Date Tested N/A
Written Plan Yes Date Unknown
Comments

PWS ID # 3424691
Date 3/13/20

GROUND WATER SOURCE

Well Number (Florida Unique Well ID #)		1 (AAE0268)	2 (AAC3154)		
Year Drilled		1987	1999		
Depth Drilled		225’	297’		
Drilling Method		Cable tool	Other		
Type of Grout		Neat cement	Neat cement		
Static Water Level		12’	Unknown		
Pumping Water Level		Unknown	Unknown		
Design Well Yield		Unknown	Unknown		
Test Yield		Unknown	Unknown		
Actual Yield (if different than rated capacity)		Unknown	Unknown		
Strainer		Unknown	Unknown		
Length (outside casing)		147’	177’		
Diameter (outside casing)		8’’	8’’		
Material (outside casing)		Black steel	Black steel		
Well Contamination History		None	None		
Is inundation of well possible?		No	No		
6’ X 6’ X 4” Concrete Pad		Yes	Yes		
SET BACKS	Septic Tank	>200’	>200’		
	Reuse Water	N/A	N/A		
	WW Plumbing	>100’	>100’		
	Other Sanitary Hazard	None observed	None observed		
PUMP	Type	Submersible	Submersible		
	Manufacturer Name	Sta-Rite	Sta-Rite		
	Model Number	Unknown	Unknown		
	Rated Capacity (gpm)	811	Unknown		
	Motor Horsepower	40	Unknown		
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		
Security		Yes	Yes		
Well Vent Protection		N/A	N/A		

COMMENTS _____

PWS ID # 3424691
Date 3/13/20

CHLORINATION (Disinfection)
Type: ☐ Gas ☒ Hypo
Make Chem-Tech Capacity 30 gpd
Chlorine Feed Rate 100%
Avg. Amount of Cl_2 gas used N/A
Chlorine Residuals: Plant 1.05 Remote 0.04
Remote tap location 18576 SE 50th St.
DPD Test Kit: ☐ On-site ☒ With operator
☐ None ☐ Not Used Daily
Injection Points Prior to hydropneumatic tank
Booster Pump Info N/A
Comments Inadequate remote chlorine residual.

Chlorine Gas Use Requirements	YES	NO	Comments
Dual System	☐	☐	
Auto-switchover	☐	☐	
Alarms:			
Loss of Cl_2 capability	☐	☐	
Loss of Cl_2 residual	☐	☐	
Cl_2 leak detection	☐	☐	
Scale	☐	☐	
Chained Cylinders	☐	☐	
Reserve Supply	☐	☐	
Adequate Air-pak	☐	☐	
Sign of Leaks	☐	☐	
Fresh Ammonia	☐	☐	
Ventilation	☐	☐	
Room Lighting	☐	☐	
Warning Signs	☐	☐	
Repair Kits	☐	☐	
Fitted Wrench	☐	☐	
Housing/Protection	☐	☐	

AERATION (Gases, Fe, & Mn Removal)
Type _____ Capacity _____
Aerator Condition _____
Visible Algae Growth _____
Protective Screen Condition _____
Frequency of Cleaning _____
Date Last Inspected/Cleaned _____
Comments _____

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

Tank Type/Number	H
Capacity (gal)	10,000
Material	Steel
Gravity Drain	Yes
By-Pass Piping	Yes
Protected Openings	Yes
Sight Glass or Level Indicator	Yes
PRV/ARV	PRV
Pressure Gauge	Yes
On/Off Pressure	48/68
Access Secured	Yes
Access Manhole	Yes
Tank Sample Tap Location	On tank
Date of Inspection	12/18
Date of Cleaning	12/18

Comments _____

HIGH SERVICE PUMPS

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

Comments _____

DEFICIENCIES:

Areas of Concern	Rule	Corrective Action	Date Corrected	Significant Deficiency?
Inadequate combined or free chlorine residual.	62-555.350(6)	Maintain a continuous minimum free chlorine residual of 0.2 mg/L or a continuous minimum combined chlorine residual of 0.6 mg/L. A Follow-up Inspection will be performed to ensure that the chlorine residual has been restored.	In an email dated 3/24/20, Dewaine Christmas stated the minimum remote residual was restored as of 3/19/20.	N

MONITORING REMINDER:

- Nitrate and nitrite samples are required to be collected from the point of entry (POE) to the distribution system annually. The 2019 results have not been received. Early sampling is recommended.
- The consumer confidence report (CCR) must be delivered to consumers and the Department no later than July 1, 2020, and certification of delivery of the CCR must be submitted to the Department no later than August 10, 2020.
- Monitoring schedules are available on the Central District's Drinking Water site:

https://floridadep.gov/central/central/content/resources-drinking-water-facilities-and-operators-central-district

COMMENTS:

- Contact FRWA (Florida Rural Water Association) at 850-668-2746, or frwa@frwa.net, for free technical assistance with your system. FRWA has extended benefits offered to members.
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.

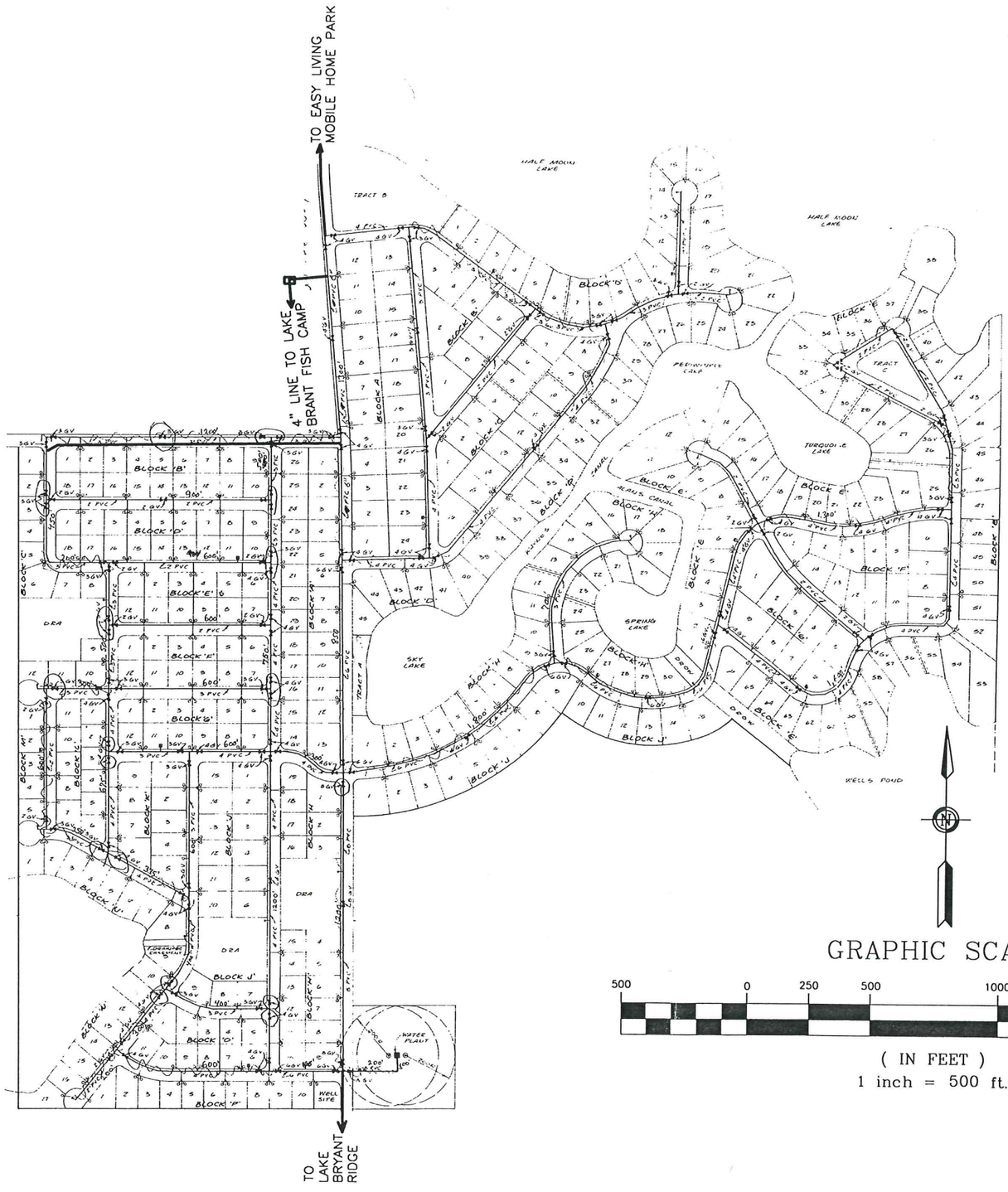
  Checking the calibration of finished-drinking-water meters at treatment plants shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water. [Rule 62-555.350(2), F.A.C.]
- Suppliers of water shall submit written notification to the Department before beginning work or alterations to the public water system. Each notification shall be submitted to the appropriate Department of Environmental Protection District Office or Approved County Health Department and shall include the following: a description of the scope, purpose, and location of the work or alterations; and assurance that the work or alterations will comply with applicable requirements listed in Rule 62-555.330, F.A.C. Suppliers of water may begin such work or alterations 14 days after providing notification to the Department unless they are advised by the Department that the notification is incomplete or that a construction permit is required.
- Suppliers of water shall telephone the SWO at 1-800-320-0519 immediately (i.e., within two hours) after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving a public water system. [Rule 62-555.350(10)(a), F.A.C.]
- Suppliers of water shall telephone, and speak directly to a person at, the appropriate DEP District Office as soon as possible, but never later than noon of the next business day, in the event of any of the following emergency or abnormal operating conditions:
  - The occurrence of any abnormal color, odor, or taste in a public water system's raw or finished water;
  - The failure of a public water system to comply with applicable disinfection requirements; or
  - The breakdown of any water treatment or pumping facilities, or the break of any water main, in a public water system if the breakdown or break is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for

more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(b), F.A.C.]

- Suppliers of water shall notify affected water customers in writing or via telephone, newspaper, radio, or television; and telephone, and speak directly to a person at, the appropriate DEP District Office by no later than the previous business day before taking PWS components out of operation for planned maintenance or repair work if the work is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(d), F.A.C.]
- Suppliers of water shall issue precautionary “boil water” notices as required or recommended in the Department of Health’s “Guidelines for the Issuance of Precautionary Boil Water Notices” as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(11), F.A.C.]

amada fernandez	
Inspector Signature	*Reviewer Signature*
Amada Fernandez	Jill M. Farris
Printed Name	*Printed Name*
Environmental Specialist II	Environmental Manager
Title	*Title*
3/24/20	4/2/20
Date	*Date*

APPENDIX F: DISTRIBUTION MAP



GRAPHIC SCALE

500 0 250 500 1000 2000

(IN FEET)

1 inch = 500 ft.

THIS DRAWING IS A COPY OF AN ORIGINAL DONE BY:

FREDERICK BELL CONSULTING ENGINEERS, INC.
OCALA, FLORIDA (904)622-8895

H. W. BARRINEAU & ASSOCIATES, INC.
3100 SOUTHEAST 17th ST, SUITE 802 FAX (352) 840-0588
OCALA, FLORIDA 34471 (352) 840-0774

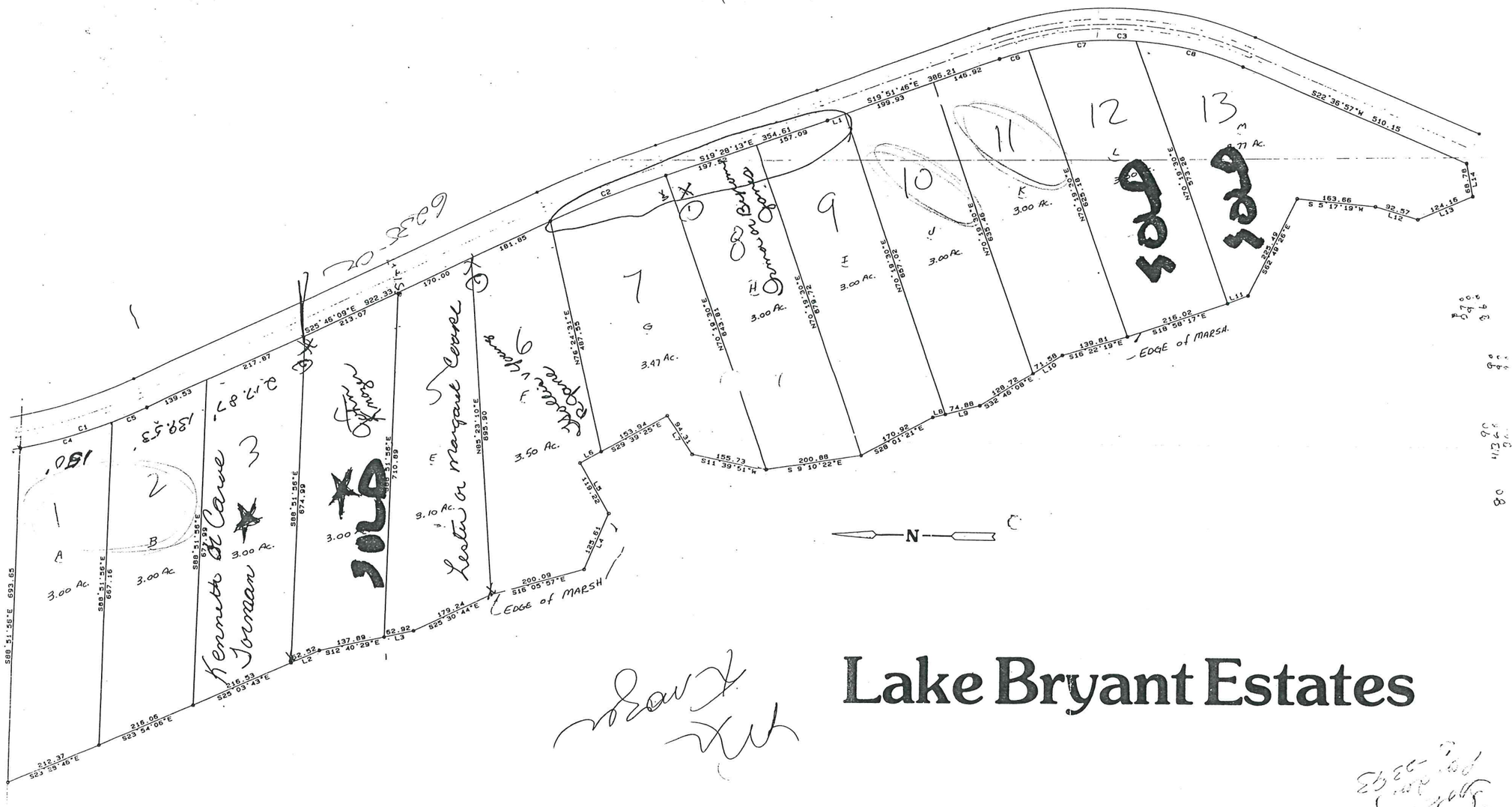
WINDING WATERS
SUNSHINE UTILITIES INC.
OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PMM	HWB	11 APR 97	ORIGINAL ISSUE

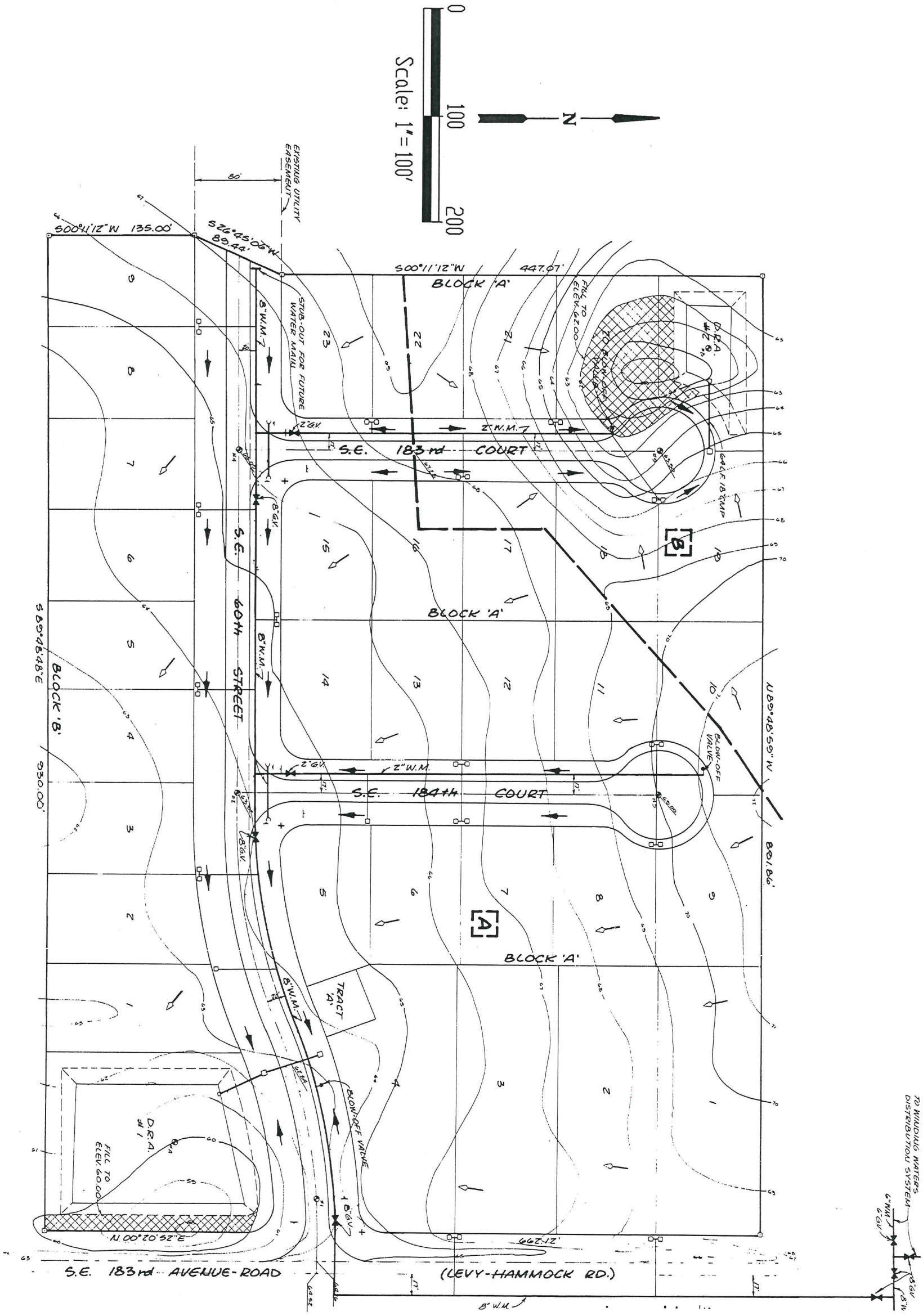
Project No. 9635-02

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Sheet 1 Of 1



Lake Bryant Estates



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OF AN ORIGINAL BY:

FREDERICK BELL
CONSULTING ENGINEERS INC.
OCALA, FLORIDA

DRN	CHK	DATE	DESCRIPTION
PMM	HWB	11 APR 97	ORIGINAL ISSUE

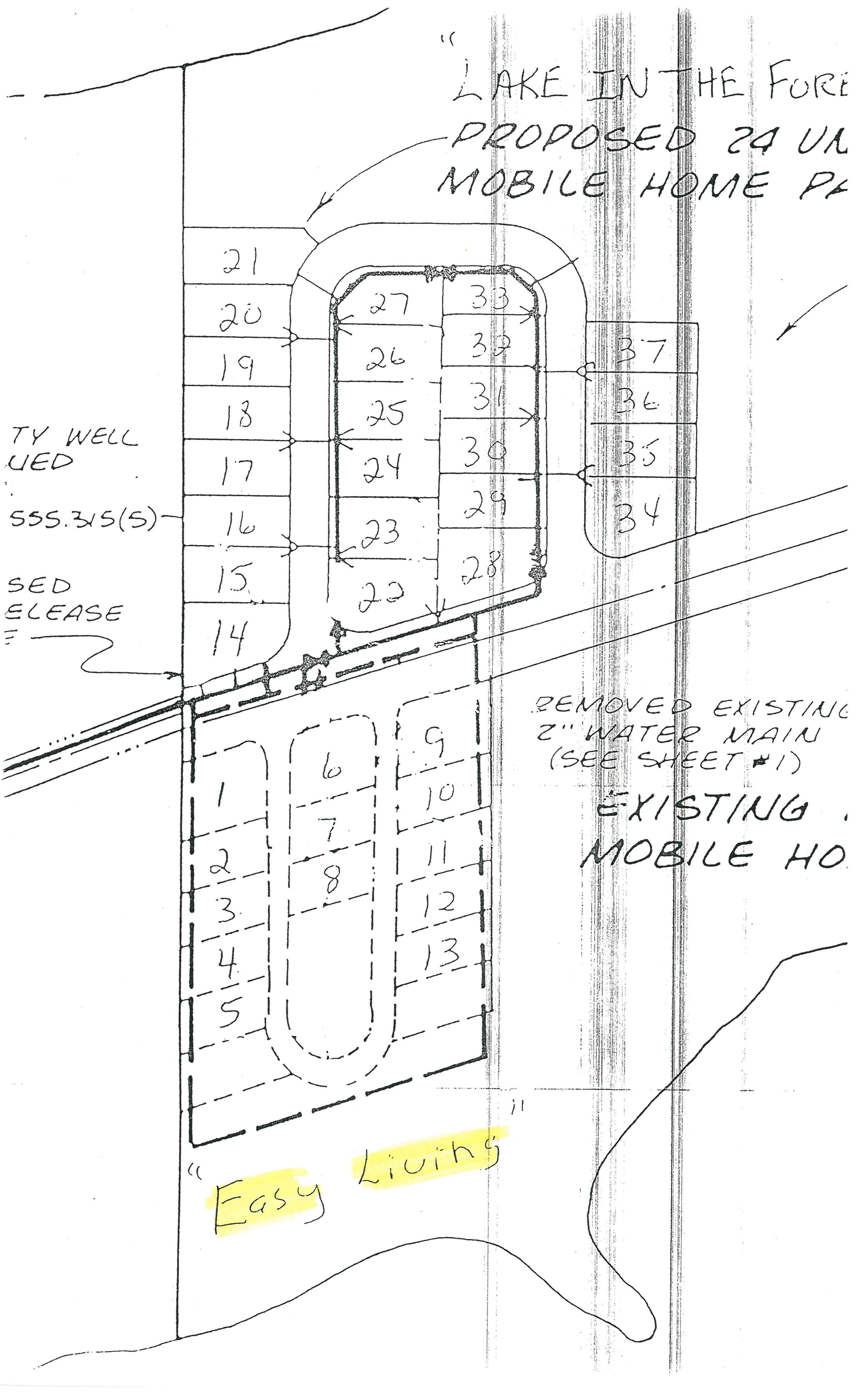
Project No. 9638-02

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Sheet 1 OF 1

LAKE BRYANT RIDGE

SUNSHINE UTILITIES INC.
OCALA, FLORIDA

H.W. BARRINEAU & ASSOCIATES, INC.
2100 SOUTHEAST 17th ST, SUITE 602
OCALA, FLORIDA 34471
FAX (352) 840-9588
(352) 840-9774


LAKE IN THE FORE
PROPOSED 24 UN
MOBILE HOME PA
TY WELL
UED
SSS.3S(S)
SED
ELEASE
REMOVED EXISTING
2" WATER MAIN
(SEE SHEET #1)
EXISTING
MOBILE HO
Easy Living's
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9
10
11
12
13

Urban MHP

SOIL LOG			
U	TYPE	SOIL DESCRIPTION	EWSHWT
	SP	BROWN SAND	84"
	SP-SM	RED COARSE LOAMY SAND	
	SC	RED CLAYEY SAND	
	SC	WHITE CLAYEY SAND	
	SP	BROWN SAND	N/A
	SP-SM	RED COARSE LOAMY SAND	
	SP	BROWN SAND	72"
	SP-SM	RED COARSE LOAMY SAND	
	SP-SM	TAN COARSE LOAMY SAND	

MATED WET SEASON HIGH WATER TABLE
OPHER ENGINEERING AIDE, INC.

N

SCALE: 1" = 60'

SWALE INLET TYPE "C"
FLORIDA D.O.T. STANDARD INDEX NO. 232

STORM INLET (TYPE 'C')
GRATE ELEV. 63.90
S.W. INV. ELEV. 61.90

PROPOSED WATER MAIN EXTENSION FROM WHIDING WATERS UTILITY SYSTEM

DRA
5' BERM
BOTTOM ELEV. 60.00
4:1 SIDE SLOPES
SEED & MULCH

N00°57'09"E 1301.60'

TBM ELEV. 65.57

18' ROADWAY

35 L.F. 18" CMP

Ordinary Highwater Line Elev. 53.2 (M.S.L.)

Edge of Water

LAKE BRYANT
Water Elev. = 51.04
on 5/18/88

1 Story Wood Frame House

Exist'd Septic Tank

4" W.M.

30 L.F. 8" PVC. SAN. SEWER @ 0.4%

INV. ELEV. 60.00

STREET PAD

5' ACCESS TO RECREATION AREA

420 L.F. 8" PVC SAN. SEWER @ 1.25%

MH #1
RIM ELEV. 71.00
N. INV. ELEV. 67.50

SEPTIC & DOSING TANKS
ABSORPTION BED #3

INV. @ S.T. ELEV. 61.00

Exist'd Well
Wade Metal Shed

MH #2
RIM ELEV. 65.75
S. INV. ELEV. 62.25
W. INV. ELEV. 62.75
N.W. INV. ELEV. 62.20

12'x50' M.H.

10'x50' M.H.

12'x60' M.H.

M.H. with Screen Room

Metal Shed

Exist. Dirt Road

156 L.F. 8" PVC. SAN. SEWER @ 0.7%

CLEANOUT

RECREATION AREA

PROPOSED 8' PRIVACY FENCE

S89°47'00"E 1320.00'

52nd STREET

Center of Exist. Dirt Road

118.5'±

S00°57'09"W 985.54'

W.M.
G.V.
MH #1
EST.
ELEV.
INV.
TBM



woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS